



JULY 2022

RENGETI CENTER M S

CAROLINA

AT ATHERSTONE ANGIER, NORTH

PERMIT SET
FOR CONSTRUCTION

● 1 JULY 2022

**COVER SHEET** 

A1.0



## THE SERENGETI

#### \*\* SALES CENTER \*\*

#### SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 2027 sf **GARAGE** = 402 sfFRONT PORCH = 37 sf REAR PORCH = 49 sf

= 2505 sf

TOTAL

### INDEX OF SHEETS

A1.0 COVER SHEET GENERAL NOTES FIRST FLOOR PLAN & NOTES EXT. ELEVATIONS & NOTES EXTERIOR ELEVATIONS EG1.0 EGRESS PLAN **ELECTRICAL PLAN** E1.0

### INDEX OF SHEETS (CONT.)

CS1 COVER SHEET, SPECIFICATIONS, REVS. CS2 COVER SHEET (CONTINUED) \$1.0m MONOLITHIC SLAB FOUNDATION ATTIC FRAMING PLAN S3.0 ROOF FRAMING PLAN S5.0 **BRACING PLAN** D1-D7 STANDARD DETAILS

### ENGINEER

#### SUMMIT ENGINEERING

2520 WHITEHALL PARK DRIVE - SUITE 250 CHARLOTTE, NC 28273 704-504-1717

#### ARCHITECT

#### COX ARCHITECTURE & DESIGN, PLLC

R. CRAIG COX 1310 SOUTH TRYON STREET SUITE 111 CHARLOTTE, NC 28203 980-237-3827

WWW.COXARCHITECTURE.COM CRAIG@COXARCHITECTURE.COM

#### GENERAL CONTRACTOR

#### LGI HOMES

SCOTT STERLING V.P. OF CONSTRUCTION FOR MID-ATLANTIC 704-953-3824

#### STAIR NOTES

-STAIR FABRICATOR / INSTALLER TO VERIFY THAT STAIRS MEET ALL REQ'D CODES

-ADJUSTMENTS TO STAIR TO BE CONFIRMED W/ ARCHITECT & CONTRACTOR PRIOR TO STAIR CONSTRUCTION

#### INSULATION NOTES

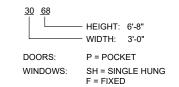
INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

HARNETT COUNTY - CLIMATE ZONE 4A

TABLE N1102.1.2

CEILING: R-38 FLOOR: R-19 WALL: R-15 SLAB: R-10, 2FT

#### DOOR & WINDOW LEGEND



#### DOOR NOTES

-ATTIC ACCESS DOORS TO INCLUDE WEATHER STRIPPING & INSULATION

-TOP OF INTERIOR CASING @ ADJACENT DOORS & WINDOWS TO ALIGN WHEN HEADER CALL OUTS ARE EQUAL

-DOOR SUPPLIER TO SPECIFY & ORDER TEMPERED GLASS IN DOORS AS REQ'D BY LOCAL CODE.

-ALL WINDOW DIMENSIONS ARE BASED ON MIL WINDOW ROUGH OPENING CALL OUTS, UNO. FINAL SELECTION OF WINDOW SIZES ARE TO BE VERIFIED IN FIELD.

-WINDOWS TO BE INSTALLED BY CERTIFIED WINDOW INSTALLER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

-WINDOW SUPPLIER TO SPECIFY & ORDER TEMPERED GLASS IN WINDOWS AS REQ'D BY LOCAL CODE.

-G.C. AND WINDOW SUPPLIER TO VERIFY THAT EACH BEDROOM TO HAVE A MINIMUM OF ONE WINDOW WHICH MEETS EMERGENCY EGRESS AS REQUIRED BY LOCAL AUTHORITIES BASED ON IBC 2018, WINDOW SUPPLIER TO ADD EGRESS HARDWARE TO CASEMENT WINDOWS IF NECESSARY.

-TOP OF INTERIOR CASING @ ADJACENT DOORS & WINDOWS TO ALIGN WHEN HEADER CALL OUTS ARE EQUAL

#### **GENERAL NOTES**

-DO NOT SCALE DRAWINGS: DESIGNATED DIMENSIONS SHALL BE USED IN PREFERENCE TO MEASUREMENTS BY SCALE.

-GENERAL CONTRACTOR SHALL VERIFY AND COMPLY TO ALL LOCAL & NATIONAL BUILDING CODES. CONTACT ARCHITECT IF INSPECTORS REQUIRE REVISIONS OR ALTERATIONS TO

-ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR DAMAGE TO OTHER TRADES.

#### DESIGN SPECIFICATIONS

USE GROUP: (IBC 2018)

"R-3" ONE & TWO FAMILY DWELLING

CONSTRUCTION CLASS: (IBC 2018)

"TYPE V-B" UNPROTECTED

HEIGHT & AREA LIMIT: (LOCAL ZONING)

35' MAXIMUM 2 STORY HEIGHT

EMERGENCY ESCAPE: (IBC 2018)

EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS SHALL HAVE MINIMUM OF 4.0 SQ. FT. NET CLEAR OPENING.

MINIMUM 20" WIDTH

MINIMUM 22" HEIGHT.

MAXIMUM 44" SILL HEIGHT

GARAGE / HOUSE CEILING / ASSEMBLY: (IBC 2018)

1/2" GYPSUM WALL BOARD

 $\frac{5}{8}$ " TYPE "X" GYPSUM BOARD CEILING WHERE LIVING IS ABOVE

20 MINUTE RATED GARAGE / HOUSE DOOR

ATTIC VENTILATION: (IBC 2018)

[TOTAL ATTIC SQ. FT.] / [300] = SQ. FT. AREA REQUIRED

RIDGE VENT

[LINEAR FEET OF VENT] X [18 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED SOFFIT VENT:

[LINEAR FEET OF VENT] X [7 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED

EDGE SHINGLE OVER VENT:

[LINEAR FEET OF VENT] X [9 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED

ROOF LOUVER VENTS:

[NUMBER OF VENTS] X [70 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED

CRAWL SPACE VENTILATION: (IBC 2018)

[TOTAL CRAWL SPACE SQ. FT.] / [300] = SQ. FT. AREA REQUIRED

FOUNDATION VENT:

FREE SPACE PROVIDED BY VENT = F

[FREE AREA REQUIRED] / F = NUMBER OF VENTS REQUIRED

#### DWELLING/GARAGE SEPARATION

CONTRACTOR TO PROVIDE & INSTALL CONTINUOUS FIRE SEPARATION PROTECTION @ GARAGE WALLS & CEILING.

ALL WALLS SUPPORTING FLOOR / CEILING ASSEMBLIES USED FOR SEPARATION SHALL HAVE  $\mbox{\ensuremath{\%}}"$  GWB OR EQUIVALENT W/ FASTENERS @ 6" O.C. PER LOCAL AUTHORITIES BASED ON IBC 2018

-MINIMUM 5/4" TYPE X GWB @ GARAGE CEILING -MINIMUM ½" GWB @ GARAGE WALLS -MINIMUM NO. 26 GAGE SHEET STEEL HVAC DUCT WHERE PENETRATIONS OCCUR PER LOCAL AUTHORITIES BASED ON IBC 2018

### FIRE-WALL NOTES

-THESE PLANS WILL NOT BE BUILT INSIDE THE MINIMUM FIRE SEPARATION

#### **FLOOR PLAN NOTES**

-CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DISCREPANCIES, ERRORS OR OMISSIONS PRIOR TO EXECUTION OF WORK.

-CLEANUP TO OCCUR DAILY

-G.C. TO VERIFY FINISH GRADE @ HOUSE TO DETERMINE NUMBER OF STEPS.

-MECHANICAL CONTRACTOR TO COORDINATE W/ ARCHITECT LOCATION OF MAIN TRUNK & DISTRIBUTION LINES, REGISTERS (CENTER ALL REGISTERS ON WINDOWS), THERMOSTATS, AIR HANDLER & CONDENSERS

-CEILING HEIGHTS LISTED ARE DIMENSIONED TO FRAMING (TOP OF SUBFL. / CONC. TO UNDERSIDE OF FRAMING ABOVE)

-CONCRETE SLABS & SETTING BEDS TO ACCOMMODATE FOR ADEQUATE WATER DRAINAGE AT GARAGES AND PORCHES -ATTIC ACCESS DROP-DOWN STAIRS TO CONFORM WITH LOCAL AUTHORITIES BASED ON IBC MINIMUM NET CLEAR OPENING OF 20" x 30". ALL ATTIC ACCESS STAIRS TO BE WEATHER STRIPPED & SEALED WITH R-VALUES THAT CONFORM WITH LOCAL

AUTHORITIES BASED ON IBC 2018. GC TO PROVIDE & INSTALL INSULATION DAMS TO RESTRICT TYPICAL ATTIC INSULATION FROM FALLING THROUGH ATTIC ACCESS OPENING. RIGID FOAM BOX COVER TO BE INSTALLED. & SEALED AROUND FRAMING OF OPENING, NOT TO IMPEDE OR OBSTRUCT PERFORMANCE OF ADJACENT TYPICAL ATTIC INSULATION.

-HOSE BIB(S) TO BE LOCATED 24" ABOVE FINISHED FLOOR (TYP.)







JULY 2022

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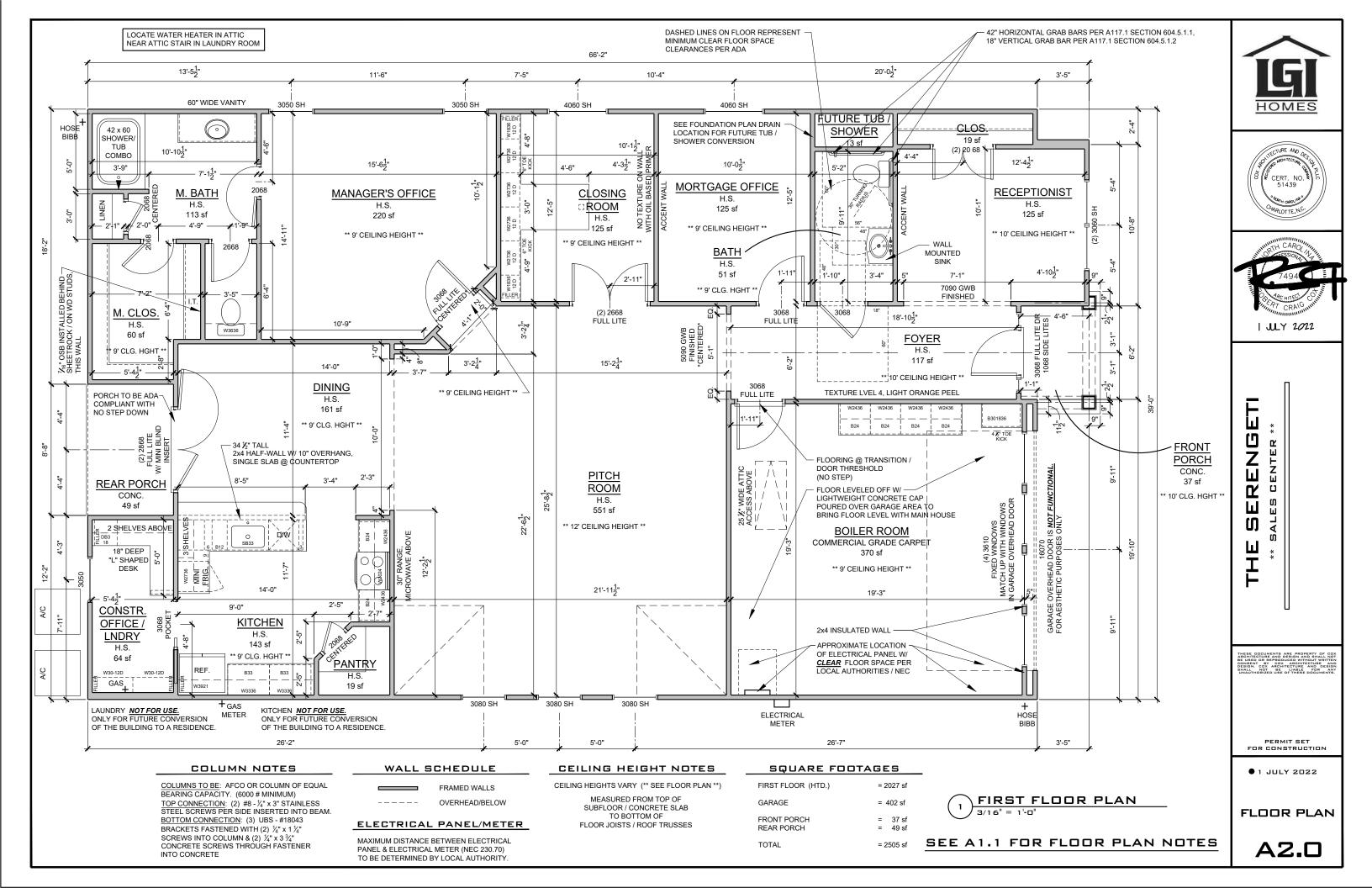
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● 1 JULY 2022

**GENERAL NOTES** 

A1.1



#### **ELEVATION NOTES**

-ALL REPRESENTATIONS OF GRADE LEVELS ARE FOR DRAWING PURPOSES ONLY, AND TO BE VERIFIED IN FIELD.

-ALL EXTERIOR ELEVATION DIMENSIONS ARE FRAMING DIMENSIONS, UNO. G.C. TO FILED VERIFY DIMENSIONS LOCATED AT SLOPED FRAMING AND / OR CONCRETE SLABS & PADS

-ALL TRUSS PROFILE DIMENSIONS TO BE VERIFIED BY TRUSS MANUFACTURER. TRUSS MANUFACTURER TO NOTIFY ARCHITECT IF TRUSS PROFILES / DIMENSIONS CHANGE.

-ALL BUILDINGS CONSTRUCTED WITH LESS THAN A 10' FIRE SEPARATION DISTANCE BETWEEN SHALL COMPLY WITH LOCAL AUTHORITIES BASED ON IBC 2018:

IN CONSTRUCTION USING VINYL OR ALUMINUM SOFFIT MATERIAL, THE FOLLOWING APPLICATION SHALL APPLY. SOFFIT ASSEMBLIES MUST BE SECURELY ATTACHED TO FRAMING MEMBERS AND APPLIED OVER FIRE-RETARDANT-TREATED WOOD, 23/32-INCH WOOD SHEATHING OR 5/8-INCH EXTERIOR GRADE OR MOISTURE RESISTANT GYPSUM BOARD. VENTING REQUIREMENTS SHALL BE PROVIDED IN BOTH SOFFIT AND UNDERLAYMENT. VENTS SHALL BE EITHER NOMINAL 2-INCH CONTINUOUS OR EQUIVALENT INTERMITTENT AND SHALL NOT EXCEED THE MINIMUM NET FREE AIR REQUIREMENTS ESTABLISHED IN IBC 2018 BY MORE THAN 50 PERCENT.

#### **ROOF NOTES**

-CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DISCREPANCIES, ERRORS OR OMISSIONS PRIOR TO EXECUTION OF WORK.

-ALL ROOF PENETRATIONS TO BE PLACED ON REAR SIDE OF MAIN RIDGE OR AS SPECIFIED BY ARCHITECT. PAINT TO MATCH SHINGLE COLOR.

-ATTIC INSULATION TO BE BATT. INSUL. PER CODE, PROVIDE BAFFLES @ PERIMETER TO ALLOW 2" FOR AIRFLOW FROM EAVE VENTS TO RIDGE VENTS.

-ROOF SHEATHING TO BE  $\mbox{\ensuremath{\ensuremath{\mathcal{V}}}}$ " T&G PLYWOOD W/ METAL CLIPS @ ENDS.

-ALL BATHROOM & DRYER VENT PENETRATIONS TO RUN TOWARD REAR OF HOUSE & VENT IN REAR OUTSIDE WALL OR ROOF BEHIND MAIN RIDGE.

-GUTTER & DOWNSPOUT INSTALLER TO PROVIDE ADEQUATE UNITS PER MANUFACTURER SPECIFICATIONS BASED ON ROOF COVERAGE. SUB-CONTACTOR TO VERIFY NUMBER & LOCATION OF DOWNSPOUTS

-ALL SHINGLED ROOFS WITH A PITCH OF 4:12 OR LESS REQUIRE (2) LAYERS OF 30# FELT PAPER PER LOCAL AUTHORITIES BASED ON IBC 2018

1/8" = 1'-0"

#### CEILING HEIGHT NOTES

CEILING HEIGHTS VARY (\*\* SEE FLOOR PLAN \*\*)

MEASURED FROM TOP OF SUBFLOOR / CONCRETE SLAB TO BOTTOM OF FLOOR JOISTS / ROOF TRUSSES

#### COLUMN NOTES

COLUMNS TO BE: AFCO OR COLUMN OF EQUAL BEARING CAPACITY. (6000 # MINIMUM)

TOP CONNECTION: (2) #8 - ½" x 3" STAINLESS STEEL SCREWS PER SIDE INSERTED INTO BEAM. BOTTOM CONNECTION: (3) UBS - #18043

BRACKETS FASTENED WITH (2) ½" x 1 ½" SCREWS INTO COLUMN & (2) ½" x 3 ¾" CONCRETE SCREWS THROUGH FASTENER INTO CONCRETE

#### INSULATION NOTES

INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

ANGIER, NC HARNETT COUNTY - CLIMATE ZONE 4A

TABLE N1102.1.2

CEILING: R-38 FLOOR: R-19 WALL: R-15 SLAB: R-10, 2FT HOMES





JULY 2022

THE SERENGETI
\*\* SALES CENTER \*\*

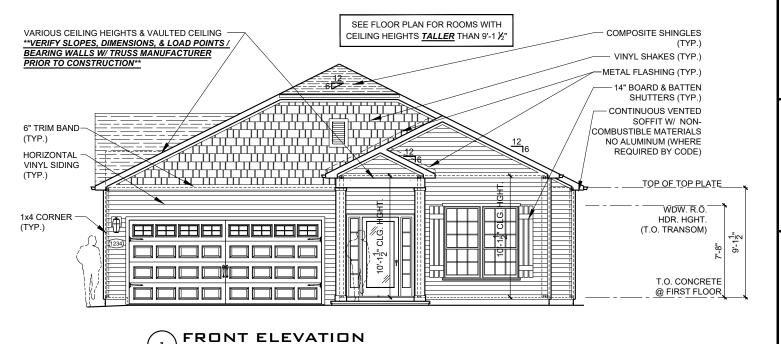
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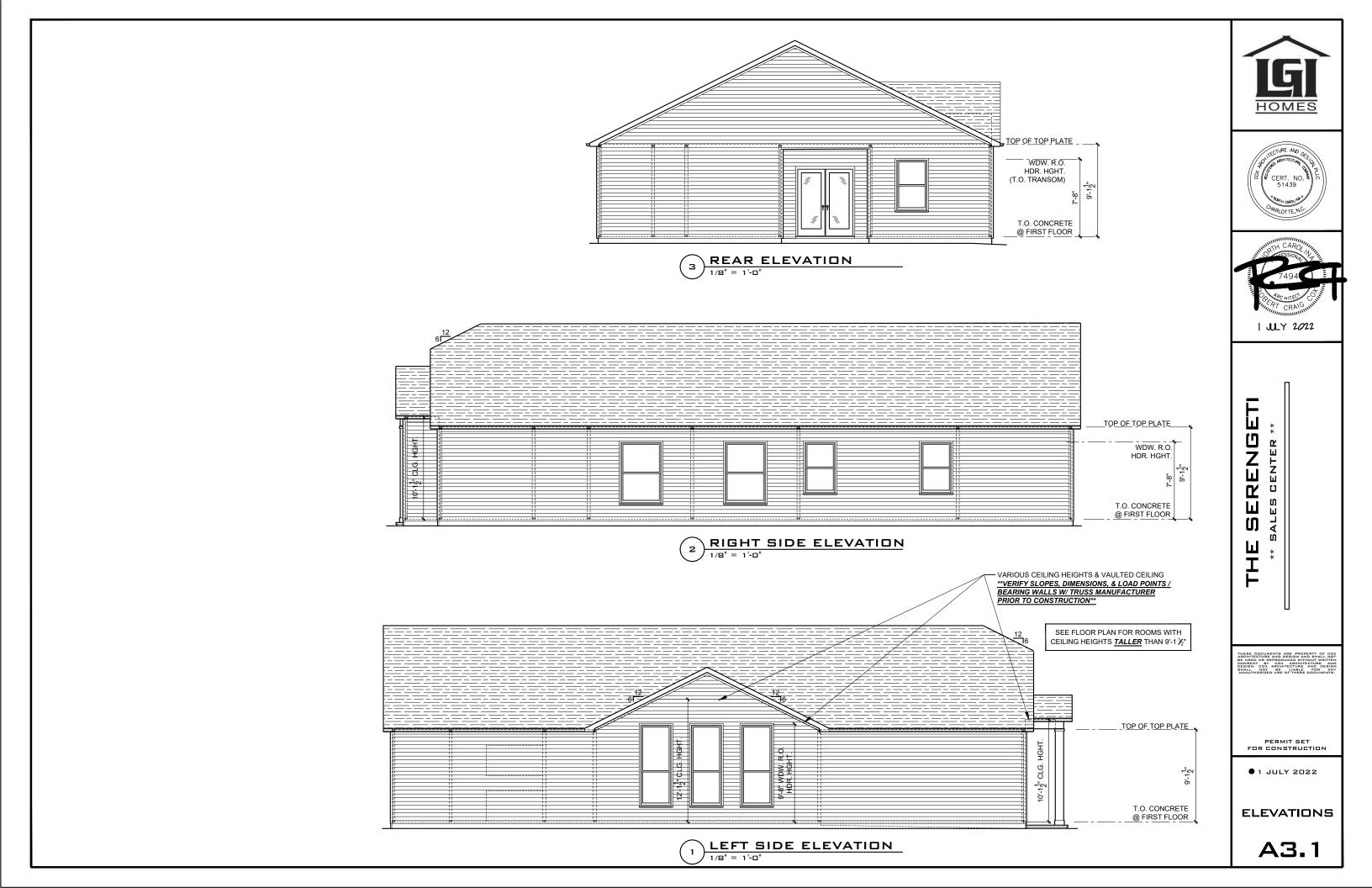
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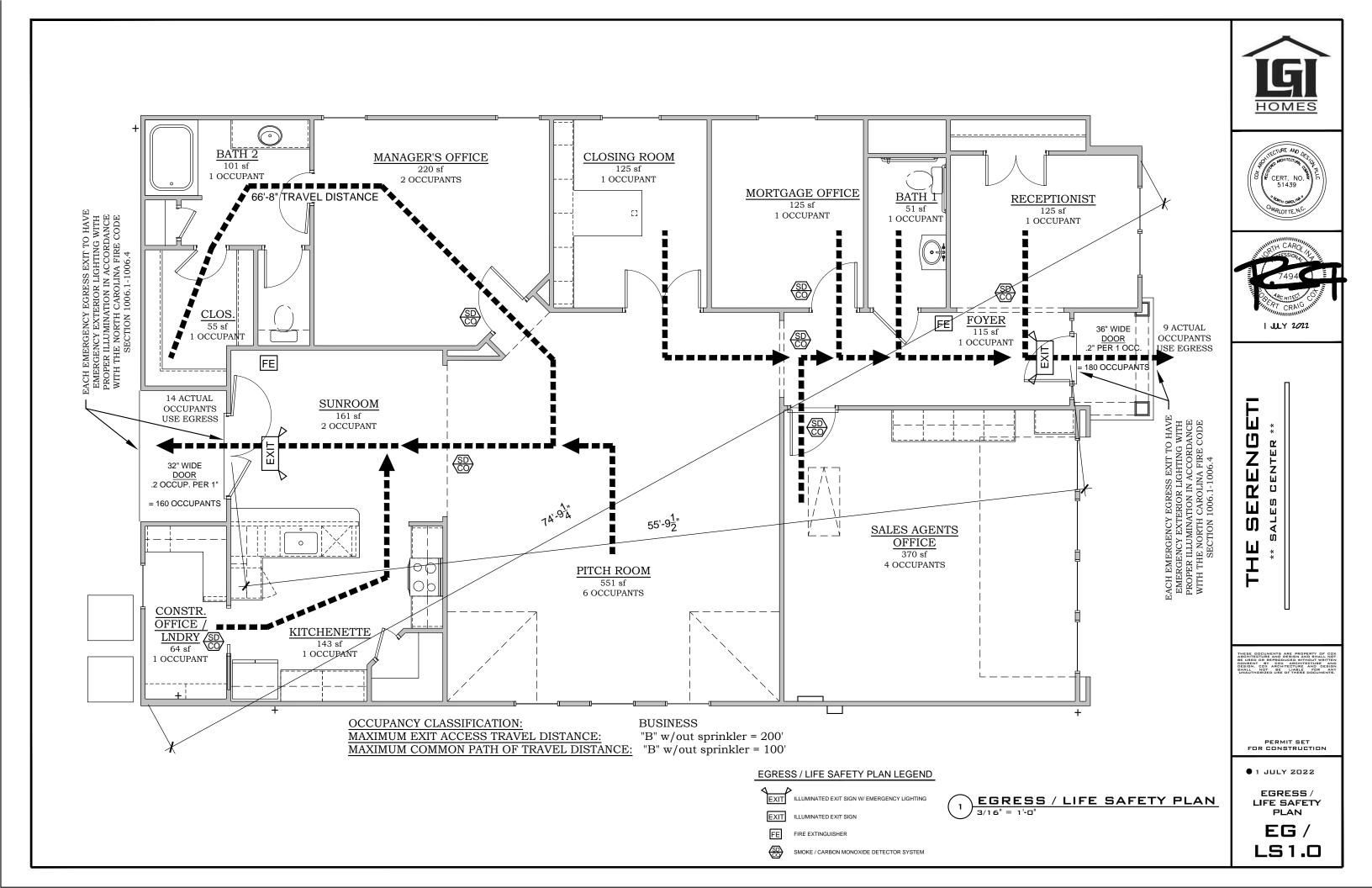
● 1 JULY 2022

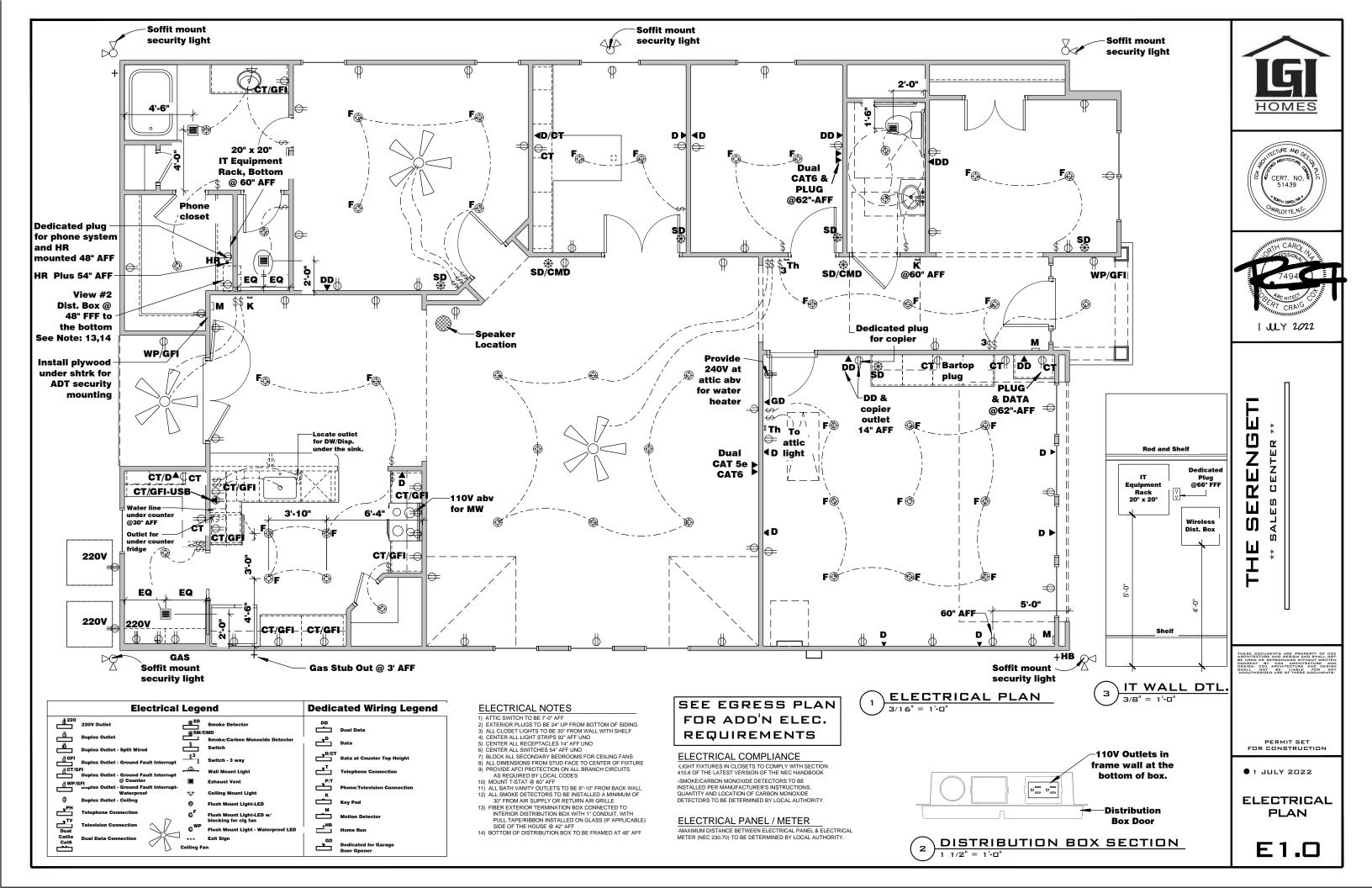
ELEVATIONS

A3.0









#### DESIGN SPECIFICATIONS:

Construction	Tupe.	Commerical	П	Residential	X
	idbe:		ш	Residential	$\triangle$

#### Applicable Building Codes:

- 2018 North Carolina Residential Building Code with All Local Amendments
- ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

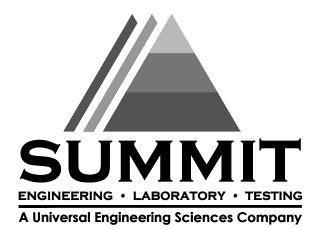
#### Design Loads: Roof Live Loads I.I. Conventional 2x .... 20 PSF 20 PSF 12.1. Attic Truss .. 60 PSF 2. Roof Dead Loads 10 PSF 2.1. Conventional 2x .... 2.2. Truss ..... 20 PSF 3. Snow 15 PSF 3.1. Importance Factor ... 4. Floor Live Loads 4.1. Typ. Dwelling 40 PSF 4.2. Sleeping Areas ... 30 PSF 4.3. Decks ..... 40 PSF 4.4. Passenger Garage .... 50 PSF 5. Floor Dead Loads 5.1. Conventional 2x ..... 10 PSF 15 PSF 52. I-Joist ...... 5.3. Floor Truss . ..15 PSF 6. Ultimate Design Wind Speed (3 sec. gust) ...... ... 130 MPH 6.1. Exposure ..... 6.2. Importance Factor..... 6.3. Wind Base Shear 6.3.1. Vx =

MEAN ROOF HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'
ZONE 1	16.7,-18.0	17.5,-18.9	18.2,-19.6	18.7,-20.2
ZONE 2	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 3	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 4	18.2,-19.0	19.2,-20.0	19.9,-2 <i>0.</i> 7	20.4,-21.3
ZONE 5	18.2,-24.0	19,2,-25,2	19.9,-26.1	20.4,-26.9

6.3.2.Vy =

7. Component and Cladding (in PSF)

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8.	Seismi	ic					
	8.1.	Sit	e Class	·		D	
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	8.4.	Se	ismic Us	e Gro	up		1
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			3.5.2. Sml				
	86.	Se	ismic B	ase St	near		
		٤	36.1. VX	=			
		٤	362.Vy	=			
	8.7.	Bá	ısic Strı	uctural	l System (chec	ck one)	
					7.11 11		
				Buildi	ing Frame		
				Mome	nt Frame		
				Dual (	ng Wall ing Frame nt Frame u/ Special Mo u/ Intermediat ed Pendulum	ment Frame	
			H	Dual ı	u/Intermediat	e R/C or Spe	cial Steel
				Invert	ed Pendulum	·	
					oonents Ancho		No
	8.9.	La	teral D	esign <sup>°</sup>	Control: Seism	nic _	Wind _
9.	Assum	ed	Soil Be	aring	Capacity	Ш	<sup>1</sup> 2000



STRUCTURAL PLANS PREPARED FOR:

## SERENGETI LH

PROJECT ADDRESS: TBD

OWNER: LGI Homes

7201 Creedmoor Road, Suite 147 Raleigh, NC 27613

ARCHITECT/DESIGNER:

My Custom Home Design 227 East 6th Avenue Tallahassee, FL

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory & Testing, INC. before construction begins.

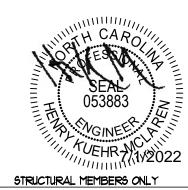
#### PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CJ	CEILING JOIST	SC	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
EE	EACH END	SYP	SOUTHERN YELLOW PINE
E₩	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
oc	ON CENTER	TYP	TYPICAL
PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	wwF	WELDED WIRE FABRIC

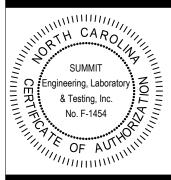
Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, INC. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by LGI HOMES. Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

Sheet No.	Description
CSI	Cover Sheet, Specifications, Revisions
CS2	Specifications Continued
S1.Øm	Monolithic Slab Foundation
<del>6</del> 3.Ø	First Floor Framing Plan
95.Ø	Roof Framing Plan
51.Ø	First Floor Bracing Plan

Revision No.	Date	Project No.	Description
1	06.08.22	T0500	Original Engineering
2	6.30.22	T0500	Revised Plans Per Architecture







LGI Homes 7201 Creedmoor Road, Suite 14 Raleigh, NC 27613

CURRENT DRAWING

DATE: 06/30/2022

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

Coversheet

SERENGETI

PROJECT #: 3554.T0500

DRAWN BY: JV

CHECKED BY: HKM

ORIGINAL DRAWING

DATE PROJECT # 5/24/19 23162

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS1

#### GENERAL STRUCTURAL NOTES:

- The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, INC. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure.
   The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.
- 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.
- The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code.
- This structure and all construction shall conform to all applicable sections of local building codes.
- All structural assemblies are to meet or exceed to requirements of the current local building code.

#### FOUNDATION:

- The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.
- The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
- Any fill shall be placed under the direction or recommendation of a licensed professional engineer.
- 4. The resulting soil shall be compacted to a minimum of 95% maximum dry density.
- Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
- No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

#### STRUCTURAL STEEL

- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- Structural steel shall receive one coat of shop applied rust-inhibitive paint.
- All steel shall have a minimum yield stress (F<sub>y</sub>) of 36 ksi unless otherwise noted.
- 4. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D.I. Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above standards.

#### CONCRETE:

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows:
  - 3.1. Footings: 5%
  - 32. Exterior Slabs: 5%
- No admixtures shall be added to any structural concrete without written permission of the SER.
- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction".
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pcl and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.
- Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint.
   Reinforcing steel may extend through a saw cut joint.
- IØ. All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF. shall be securely supported during the concrete pour.

#### CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- Fibermesh shall comply with ASTM CIIIb, any local building code requirements, and shall meet or exceed the current industry standard.
- Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- ID. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

#### WOOD FRAMING:

- Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Southern-Yellow-Pine (SYP) \*2.
- LVL or PSL engineered wood shall have the following minimum design values:
  - 2.1. E = 1,900,000 psi
  - 2.2. Fb = 2600 psi
  - 2.3.Fv = 285 psi 2.4.Fc = 700 psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- 4. Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard BI82.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- Áll beams shall have full bearing on supporting framing members unless otherwise noted.
- 7. Exterior and load bearing stud walls are to be 2x4 SYP 9 @ 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall be continuous.
- Individual studs forming a column shall be attached with one 10d nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3) lØd nails a 24" OC.
- 10. Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered @ 16" O.C. unless noted otherwise.

#### WOOD TRUSSES:

- I. The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
- 2. The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached to the trusses.
- 3. The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
- 4. The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.
- Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacturer.

#### EXTERIOR WOOD FRAMED DECKS:

Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

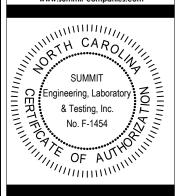
#### WOOD STRUCTURAL PANELS:

- Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.
- All structurally required wood sheathing shall bear the mark of the APA.
- 8. Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
- I. Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- 5. Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T4G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

#### STRUCTURAL FIBERBOARD PANELS:

- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- All structurally required fiberboard sheathing shall bear the mark of the AFA.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.
- Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.





LGI Homes 7201 Creedmoor Road, Suite Raleigh, NC 27613

14

CURRENT DRAWING

DATE: 06/30/2022 SCALE: 1/8"=1'-0"

Coversheet

SERENGETI

PRO1FCT #: 3554 T0500

DRAWN BY: JV

CHECKED BY: HKM

ORIGINAL DRAWING

DATE 5/24/19

O/ED GUEET FOR /

PROJECT #

23162

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS2

SEAL 053883 NUMBERS ONLY

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE W CHAPTER 4 OF THE 20% NORTH CAROLINA RESIDENTIAL BUILDING CODE W ALL LOCAL AFBIOTERITS. STRUCTURAL CONCRETE TO BE Fs. > 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACT STANDARD 348. ACCORDANCE WITH ACT STANDARD 349. PORTINGS TO BE PLACED ON HOUSTINGED EARTH, BEARING A PINITUM OF 2° BELIOU ADJACENT PINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BEARDYSEAST CONTAIN.
- BELOW ADMICRIT FINISHED GRADE, OR AS OTHERWISE DIFFERIED IN THE WOODE BEFORE THE OTHER.

  FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 OFF. CONTRACTOR IS SOILLY RESPONSIBLE FOR VERSITING THE SUITABLITY OF THE SOIL CONDITIONS AT THE THE OF CONSTRUCTION. FOOTINGS AND PERSO SHALL BE CENTIFEED UNDER THEIR RESPECTIVE ELEPENTS. PROVIDE 2" INNIMAL FOOTING PROJECTION FROM THE FACE OF HASOWEY. HANCHIN DEPTH OF URBALLACIO FILL ASSIST HASOWEY UNLLE TO DE AS SPECIFIED IN SECTION RIGHT OF THE 2008 NORTH CAPACILINA RESIDENTIAL WIND TAMES COOLS.

- PROPRED IN SECTION RIGHT OF THE 2009 NORTH CARCUNA RESIDENTIAL BULLING CODE.

  PROVIDE RONDATION MATERIPROCHES, AND DRAIN MITH POSITIVE SLOPE TO CULTET AS REQUIRED BY SINCE CONDITIONS, AND DRAIN MITH POSITIVE SLOPE TO CULTET AS REQUIRED BY SINCE CONDITIONS.

  PROVIDED PERMETER NIGHLATION FOR ALL FOUNDATIONS PER 2009 NORTH CARGUNAR RESIDENTIAL BUILDING CODE.

  CORRELL FOUNDATION MALL AS REQUIRED TO ACCOMPODATE BRICK VENEERS.

  CRAIL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIGS.

  FOUNDATION ANCIONAGE SHALL BE CONSTRUCTED PER THE 2009 NORTH CARGUNAR RESIDENTIAL CODE SECTION RANGE, INMINIMITY OF ALL DEBRIGS.

  SPACED AT 6'-6" OR CENTER WITH A TI-INMINIMI STEEDINGST NO PARAGRAPT OR CONCRETE. PRIMINIMI OF PROPRIED THE DEBRIGS.

  NOT HORE THAN IN "PROM THE CORNER ANCION BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS SC = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST CL = CENTER LINE SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER
- OC = ON CENTER PL = POINT LOAD
- M. ALL PIERS TO DE 16 Ya6" MAGARY AND ALL PILASTERS TO DE 9 Ya6" MAGARY, TYPICAL (IND)

  B. WALL ROOTINGS TO DE CONTINUOS CONCRETE, SUES FER STRUCTURAL PLAN
  A PROMOTION EXCLAVATION OBSERVATION SHOULD BE CONDUCTED BY A
  PROFESSIONAL GEOTECHNICAL ENGINEER OR HIS GUAL FER DEPRESENTATIVE. F
  ISOLATED AREAS OF YELDON FATIERIALS ANDOR POTENTIALLY DEPARKED
  SOLS ARE OBSERVED IN THE ROOTING EXCLAVATIONS AT THE THE OF
  CONSTRUCTION, SHATTE BANKEENING, LADRACTORY I TESTING, NC. NIST DE
  PROVIDED THE OPPORTUNITY TO REVIEW THE ROOTING DESIGN PRIOR TO
  CONCRETE PLACEMENT.
- CONCRETE PLACEMENT.

  ALL FOOTINGS 4 SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95%
  COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL

REFER TO BRACED WALL FLAN FOR PANEL LOCATIONS AND ANY REGUIRED HOLD-DOWNS. ADDITIONAL INFORMATION FER SECTION REGISLOS AND FIGURE REGISLOS OF THE 2005 INC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER UNO

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REGUIRED WHEN SLAB IS INSTALLED ON WELL-DRANED OR SAMP-GRAVEL INJURE SOILS CLASSFIED AS GROUP I PER TABLE R405J

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS UNIO UPILIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R6603.5 OF THE 2018 NORC.

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING ACCE TRUSS AND FLOOR JOIST LATCHIS, AND THEIR CONTESTANTING LOADING DETAILS, LIERE NOT PROVIDED TO SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. (SUMMIT) PRIOR TO THE NITIAL DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS LIERE ASSUMED BASED ON THE INFORMATION PROVIDED BY LGH HOTES, SUBSEQUENT PLAN REVISIONS BASED ON ROOF TRUSS AND FLOOR JOIST LAYOUTS SHALL BE NOTED IN THE REVISION LIST, INDICATING THE DATE THE LATCUTS WERE PROVIDED. SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY SUMMIT IMMEDIATELY.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LG HOMES COMPLETED/REVISED ON 06/30/2022, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

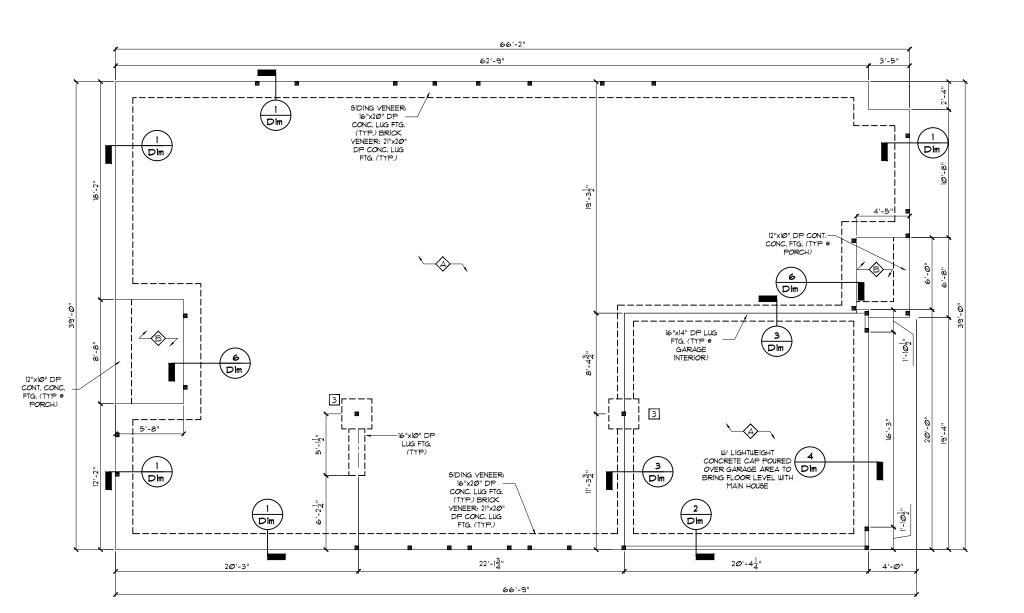
### STRUCTURAL MEMBERS ONLY

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES. PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, INC. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY

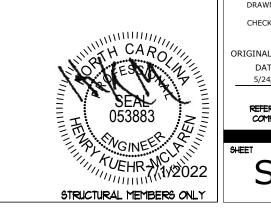
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION SCALE: 1/8"=1"

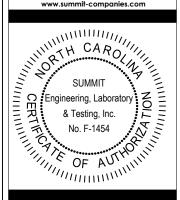
FOUNDATION SCHEDULE TAG DESCRIPTION REBAR REGID 36°6Q x 12°D NONE 42°6Q x 12°D (4) °4 EIII 48°6Q x 12°D (6) °4 EIII 4" THICK POURED CONCRETE SLAB w/ FIBEI MESH ON 6 MIL POLY ON COMPACTED SOIL � 4" THICK POURED CONCRETE SLAB ON COMPACTED SOIL ABBREVIATIONS: W = WIDTH, D = DEPTH, SQ = SQUARE BD. = BOTH DIRECTIONS, CONT. = CONTINUOUS, MONO = MONOLITHIC SLAB FOOTING



MONO SLAB FOUNDATION PLAN







Fax: 704.504.1125

uite S Road, 3 Fnd Creedmoor | gh, NC 27610 lab  $\overline{S}$ I Homes 01 Creed leigh, NC Monolithic LGI 7201 Ralei

4

CURRENT DRAWING

**ERENGE** 

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DATE: 06/30/2022

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

PRO1ECT #: 3554 T0500

DRAWN BY: JV

CHECKED BY: HKM

ORIGINAL DRAWING

DATE PROJECT # 5/24/19 23162

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S1.0m

#### GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL COMPORT TO 2009 NORTH CAROLINA RESIDENTIAL
  BILLIDNS CODE WITH ALL LOCAL AFRENTENTS.
  CONTRACTOR SHALL VERYLL DIPENSIONS. CONTRACTOR SHALL COMPLY WITH
  THE CONTRING OF THE DRAWNS FOR THIS SPECIAL FORMACT. BY SHALL COMPLY WITH
  THE CONTRING OF THE DRAWNS FOR THIS SPECIAL FORMACT. BY SHALL COMPLY WITH
  THE CONTRING OF THE DRAWNS FOR THIS SPECIAL FORMACT.
  CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE PLAY.
  CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE PLAY.
  IN PROPERTIES USED IN THE DESIGN AFE AS FOLLOWS.
  HORCALLAT (LVL), Tip. 3 200 FOR, Tr. 300 FOR,

- DJ = DOUBLE JOIST GT = GIRDER TRUSS SC = STUD COLLIAN EE = EACH END TJ = TRIPLE JOIST CL = CENTER LINE
- SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER OC = ON CENTER PL = PONT LOAD
- WALL STUD SCHEDULE (10) FT HEIGHT)

	STUD SIZE	STUD SPACING (O.C.)				
	ROOF ONLY	ROOF 4 1 FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING		
	2x4	24"	16"	12.	24"	
	2x6	24"	24"	16"	24"	
	Martin					

NOTES:

LBRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C.

2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE
SPACED A MAX. OF 16" O.C.

3. TIDD STORT WALLS SHALL BE FRANED W 2x4 STUDS © 12" O.C. OR 2x6 STUDS • 16" O.C. BALLOON FRAMED W/ HORIZONTAL BLOCKING • 6'-6" O.C. VERTICALLY.

L	INTEL SCHEDUL	E
TAG	SIZE	OPENING SIZE
Θ	L3x3x1/4"	LESS THAN 6'-0"
0	L5x3x1/4"	6'-0" TO 10'-0"
9	L5x3-1/2x5/16*	GREATER THAN 10'-0"
•	L5x3-1/2x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS

NOTES:

1. SECURE LINTEL TO HEADER W (2) I/A\* DIAMETER LAG

SCREUB STAGGERED AT 16\* OC. (TYP FOR OPENINGS

GREATER THAN 10\*\* CHAPTER BRICK 16 PRESENT, TO BE ① (UNO.)

SHADED WALLS INDICATED LOAD BEARING WALLS

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

NOTE:

\_\_\_\_ DESIGNATES JOIST SUPPORTED LOAD
BEARING WALL ABOVE PROVIDE BLOCKING UNDE
JOIST SUPPORTED LOAD BEARING WALL

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO SUMMIT ENGINEERING, LABORATORY & TESTING, INC. (SUMMIT) PRIOR TO THE INITIAL DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE NFORMATION PROVIDED BY LGI HOMES, SUBSEQUENT PILAN REVISIONS BASED ON ROOF TRUSS AND FLOOR JOIST LAYOUTS SHALL BE NOTED IN THE REVISION LIST, INDICATING THE DATE THE LAYOUTS WERE PROVIDED. SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY SUMMIT IMMEDIATELY.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>I.G. HOMES</u> COMPLETED/REVISED ON <u>06/30/2022</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GLIARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN SCALE: 1/8"=1"

NOTE: 19T PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP. UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

REFER TO DETAIL 4/D6F FOR EYEBROW, RETURN OR 8-FED ROOF FRAMING REQUIREMENTS. (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS HABITACTURER IN ACCORDANCE WITH SECTION RESIDENT WALL SECRITING AND FASTINETS HAVE BEEN DESIGNED TO RESIDE THE WIND URLET LOAD PART IN ACCORDANCE WITH SETTING OF OF SECTION RESIDE OF THE 2000 NICK, RETER TO BRACED OF SEC

NOTE: OVERTRATING FER ROOF TRUSS MANF. OR AS FOLLOUS:

- MIN 256 RAFTERS 9 24" OC. FOR SPANS UP TO B"-0"

- MIN 256 RAFTERS 9 24" OC. FOR SPANS UP TO B"-1"

- MIN 256 RAFTERS 9 24" OC. FOR SPANS UP TO B"-1"

- RIDGES SHALL BE ONE DIPENSION LIPBER SUZ LARGER
THAN OPPOSION RAFTERS.

- RAFTERS SHALL BE SECURED TO RIDGE UP MIN (2) ISIG NAILS.

- RAFTERS SHALL BE SECURED TO RIDGE UP (2) ISIG NAILS.

- RAFTERS SHALL BE SECURED TO TRUSS UP (2) ISIG NAILS.

- RAFTERS SHALL BE SECURED TO PLATE VALLEY, VALLEY

SHALL BE SECURED TO EACH ROOF TRUSS UP (2) ISIG NAILS.

- RAFTERS SHALL BE SECURED TO PLATE UP MIN (3) SIG NAILS.

В

TR	uss uplift c	ONNECTOR SCHE	DULE
MAX UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO PND
600 LBS	H2.5A	PER WALL SHEATHIN	G 4 FASTENERS
12 <i>00</i> LB6	(2) H2.5A	C816 (END = 11")	DTT2Z
148Ø LB6	HT52Ø	C816 (END = 11")	DTT2Z
2000 LB6	(2) MT82Ø	(2) C616 (END = 11")	DTT2Z
29 <i>00</i> LB6	(2) HT82Ø	(2) C816 (END = 11")	HTT4
3685 LBS	LGT3-8D625	MSTC52	LITTA

3686 LB6 LGT3-60825 HSTC8 HSTC8 HTT4

LAL FRODICTS INTED ARE SHPECA STOCKS-TE EQUIVALENT PRODUCTS MAY BE USED PER HAMPACTURERS SPECECATIONS.

JURIET VALUES INTED ARE FOR STP 9 GARDE PETBERS AND NOLLIDE ADDITIONAL UITHOUGH STREAMS HERDERS AND INCLIDE ADDITIONAL UITHOUGH STREAMS HERDERS FOR UPLIF VALUES AND TERMS TO TRUBS ADDITIONAL UITHOUGH STREAMS HERDERS FOR UPLIF VALUES AND TRUBS TO TRUBS CONNECTIONS CONNECTIONS PECIFED BY TRUBS AND TRUBS TO TRUBS CONNECTIONS CONNECTIONS STREAMS AND TRUBS AND TRUBS AND TRUBS AND TRUBS AND TRUBS AND TRUBS CONNECTIONS CONNECTIONS SATISTES ALL TRUBS DEAPNIS REQUIRED ENTS.

S. CONTACT SUMHIT FOR REQUIRED CONNECTIONS UNEN LOADS DICEED THOSE LISTED ABOVE.

H	HEADER SCHEDULE				
TAG	SIZE	JACKS (EACH END			
A	(2) 2x6	n)			
В	(2) 2x8	(2)			
С	(2) 2xlØ	(2)			
D	(2) 2xl2	(2)			
E	(2) 9-1/4" L8L/LVL	(3)			
F	(2) II-1/8" LSL/LVL	(3)			
G	(3) 2x8	(2)			
#	(3) 2xdØ	(2)			
1	(3) 2x(2	(2)			

NOTES.

I. HEADER SIZES SHOWN ON PLANS ARE HINMANS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

2. ALL HEADERS TO BE DROPFED (UNO.).

3. STUD COLLINS NOTED ON PLAN OVERRIDE STUD COLLINS LISTED ABOVE (UNO.).

KING STUD	SCHEDULE
MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.
3'-0"	n
4'-0"	(2)
8'-0"	(3)
12'-@"	(5)
16'-0"	(6)
	ED ABOVE DO NOT APPLY TO AL FRAME 16 SPECIFIED

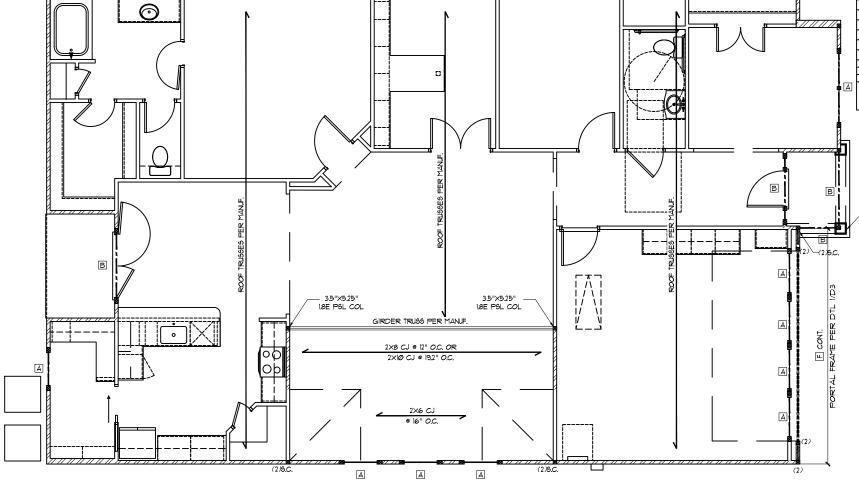
	BEAM SCHEDULE
TAG	SIZE
ВІ	(1) II-1/8" FLOOR JOIST OR FLOOR TRUSS
B2	(2) II-1/8" FLOOR JOIST OR FLOOR TRUSS
<b>5</b> 3	(I) 14" FLOOR JOIST OR FLOOR TRUSS
B4	(2) I4" FLOOR JOIST OR FLOOR TRUSS
85	(I) 9-1/4" L6L/LVL
B6	(2) 9-1/4" LSL/LVL
<b>B</b> 1	(I) 11-1/8" LSL/LVL
88	(2) II-7/8" LSL/LVL
29	(I) I4" LSL/LVL
BIØ	(2) 14" L6L/LVL
Bli	(2) 2xlØ

NOTES.

1 BEAM SIZES SHOWN ON PLANS ARE MINIMAN. LARGER BEAM SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

2. BEAMS ARE TO BE SET TOP FLUSH W FLOOR SYSTEM (INC)

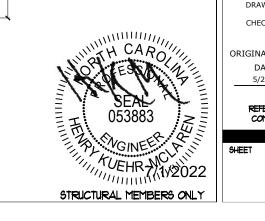
MIN. 4" P.T. POSTS OR COL. RATED FOR 1000\* (MIN, TYP) ATTACH POSTS TO HEADER W/ 9ST CSI6 STRAPS OR (4) led NAILS AND ATTACH POSTS TO FOUNDATION W/ SST ABA44 POST BASE OR EQUIV. (TYP)



В

В

FIRST FLOOR FRAMING PLAN



CURRENT DRAWING DATE: 06/30/2022

Framing

Floor

First

**ERENGE** 

S

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

**ENGINEERING • LABORATORY • TESTING** A Universal Engineering Sciences Company 2520 Whitehall Park Dr, Suite 250

Charlotte, NC 28273 Office: 704.504.1717

Fax: 704.504.1125 www.summit-compo

SUMMIT CA ROLLING Registering, Laboratory Resting, Inc.
No. F-1454

OF AUTHORITIAN OF AUTHORITIA

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Suite

Road, 3

Creedmoor | gh, NC 27610

I Homes 01 Creed leigh, NC

LGI 7201 Ralei

PRO1ECT #: 3554 T0500

DRAWN BY: JV

CHECKED BY: HKM

ORIGINAL DRAWING

DATE PROJECT # 5/24/19 23162

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S3.0

TRUSS UPLIFT CONNECTOR SCHEDULE				
MAX UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO PND	
600 LB6	H2.5A	PER WALL SHEATHING 4 FASTENERS		
12 <i>00</i> LB6	(2) H25A	C816 (END = 11")	DTT2Z	
145Ø LB6	HTS2Ø	C816 (END = 11°)	DTT2Z	
2000 LB6	(2) MT52Ø	(2) C816 (END = 11°)	DTT2Z	
2900 LB6	(2) HT62Ø	(2) C816 (END = 11°)	HTT4	
3685 LB6	LGT3-6D625	MSTC52	HTT4	

365 LBS LGT-5-D025 H9TGS HTT4

I ALL PRODUCTS LINTD ARE INPROX STRONG-TIE EQUIVALINT PRODUCTS LINTD ARE INPROX STRONG-TIE EQUIVALINT PRODUCTS HAY BE USED PER PARASCRIBERS SPECPECATIONS.

2. UPLET VALUES LISTED ARE PROX STP 9 GADDE PSTEEDS AND INCLIDE ADDITIONAL WITHDRAW STRENGTH ROCH REQUIRED TRUSS TO TOP PLATE TOE NALLING PREC CHAPTER OF THE NORC.

3. REFER TO TRUSS LAYOUT FER PARASCRIBER FOR UPLET VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTIONS SPECPED BY TRUSS HARACTURER OF PRIDE THOSE LISTED ABOVE.

4. TRUSS THANFACTURER IS REPORTABLE FOR VERTITING CONNECTIONS SATISFIES ALL TRUSS BEARING REQUIRED CONNECTIONS WHEN LOADS EXCRED THOSE LISTED ABOVE.

NOTE: 1ST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

REFER TO DETAIL 4/D6F FOR EYEBROW, RETURN OR 6HED ROOF FRAMING REGUIREMENTS. (TYP FOR ROOFS PROTRIDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLET LOADS SHALL BE DETERMINED FER TRUSS MANAFACTURER IN ACCORDANCE WITH SECTION RESPULLI WALL SHEATHING AND FASTINERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLET LOAD PATH IN ACCORDANCE WITH TETHOD 3 OF SECTION REQUISION EASY SHOULD FASTINER REQUIREMENTS.

NOTE: OVERFRAMMS PER ROOF TRUSS HAVE, OR AS FOLLOUS.

- MIN 266 RAFTERS 9 24° OC. FOR SPANS UP TO IT-0\*\*
- MIN 266 RAFTERS 9 24° OC. FOR SPANS UP TO IT-0\*\*
- MIN 266 RAFTERS 9 24° OC. FOR SPANS UP TO IS-1\*\*
- MIN 266 RAFTERS 9 24° OC. FOR SPANS UP TO IS-6\*\*
- RIDGES SHALL BE CARE DYNNSKON LIMBER SUZE LARGER

- RIDIGES SHALL DE CHE D'HENBON LUTBER SIZE LANGER
THAN OPPOON RAFTERS.
- RAFTERS SHALL BE SECURED TO RIDIGE WITHIN (2) ISIN NAILS.
- RAFTERS SHALL BEAR ON 200 FLAT FLATE VALLEY, VALLEY,
- SHALL BE SECURED TO EACH ROOF RIBIGS W (2) ISIN NAILS.
- RAFTERS SHALL BE SECURED TO PLATE WITHIN (3) BAI NAILS.
- SPANS ARE BASED ON HORIZ PROJECTED RAFTER LENGTH.

ROOF/FLOOR FRAMING SCHEDULE			
TAG	DESCRIPTION		
SPAN OF ROOF TRUSSES BY OTHERS			
2	GIRDER TRUSS BY OTHERS		
3	BLOCK SOLID AT GIRDER TRUSS BEARING		
4	2X6 STUDS THIS WALL CONT. TO CEILING		
⑤	BALLOON FRAMED WALL		

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO SUMMIT ENGINEERING, LABORATORY & TESTING, INC. (SUMMIT) PRIOR TO THE INITIAL DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE INFORMATION PROVIDED BY LGI HOMES, SUBSEQUENT PLAN REVISIONS BASED ON ROOF TRUSS AND FLOOR JOIST LAYOUTS SHALL BE NOTED IN THE REVISION LIST, INDICATING THE DATE THE LATCUTS WERE PROVIDED. SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY SUMMIT IMMEDIATELY.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 66/20/20/21. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY A TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GLIARANTEE THE AGGULACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

### STRUCTURAL MEMBERS ONLY

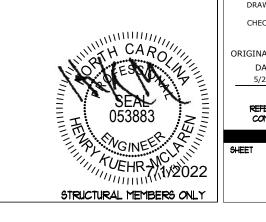
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN SCALE: 1/8"=1"

ATTACH RIDGE TO GT W/ MIN (6) 16d -NAILS ATTACH EACH VALLEY TO GT W/ MIN (8) 16d NAILS OR (2) 55T LUS5 CLIPS (OR EQUY.) GIRDER TRUSS PER MANUE 2X8 RAFTERS 2X8 RAFTERS APPROX: @ 16" O.C (2) SC POST DOWN TO HEADER BELOW

ROOF FRAMING PLAN







Suite Road, 3 Framing Creedmoor I gh, NC 27613 LGI Homes 7201 Creedi Raleigh, NC Floor First

4

CURRENT DRAWING

SERENGE<sup>-</sup>

DATE: 06/30/2022

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

PRO1ECT #: 3554 T0500

DRAWN BY: JV

CHECKED BY: HKM

ORIGINAL DRAWING

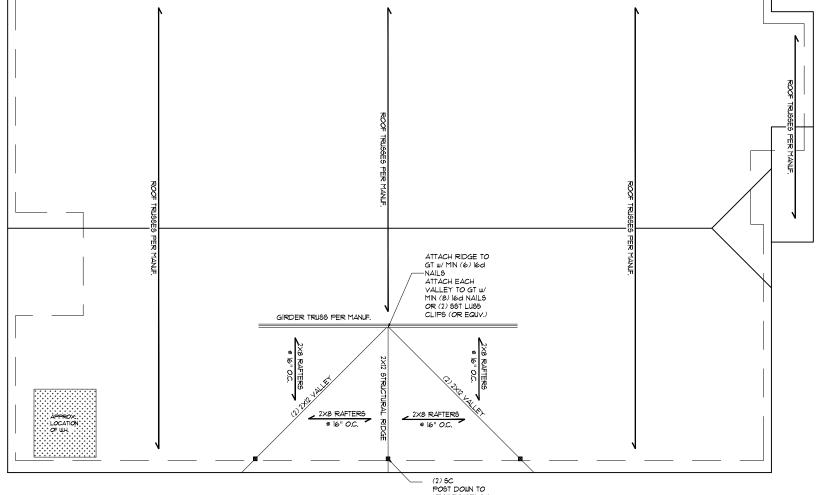
DATE

PROJECT # 5/24/19 23162

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S5.0



1	REQUIRED BRACED WALL PANEL CONNECTIONS					
	MATERIAL	MIN. THICKNESS	REGUIRED CONNECTION			
METHOD			• PANEL EDGES	INTERMEDIATE     SUPPORTS		
C8-W8P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS • 6" O.C.	6d COMMON NAILS • 12" O.C.		
GB	GYPSUM BOARD	V2"	5d COOLER NAILS™ ● T' O.C.	5d COOLER NAILS™ ● T" O.C.		
WSP	WOOD STRUCTURAL 3/8" 6d COMMON NA 9 6" O.C.		6d COMMON NAILS • 6" O.C.	6d COMMON NAILS • 12" O.C.		
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.106.4	PER FIGURE R602.106.4		
"OR EQUIVALENT PER TABLE R10235						

#### BRACED WALL NOTES

- UALLÓ SHALL BE DEBISNED IN ACCORDANCE W SECTION REGILIÓ PROM THE 2005
  INTERNATIONAL RESIDENTIAL CODE W ALL LOCAL AND STATE AFENDIFENTS,
  UALLÓ ARE DEBISNED FOR SEISHIC ZONES A-C AND ULTIMATE DEBISN UND
  SPEEDE UP TO 190 HEM.
  PERER TO ACCUTECTURAL FLAN FOR DODORUNNOU OFFENING SIZES,
  BRACING PARTERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
  THIS IS BERGED.

- SHEED SIT TO SEPTIME. THE STATE AND ACC AND ALTHAIR DESIGN WIND SHEED SIT TO SEPTIME STATE TO ARCHITECTURAL PLAN FOR DOORWINDOW OFENING SIZES.

  BRACING HATERALA, PIETHODO AND FASTIDERS SHALL BE IN ACCORDANCE WITH TAKE REQUISA!

  ALL BRACED BUT PETFOR ROLLED PAREL PETHOD AND IS FIETFOR CONTRICUES SHAULTED FOR THE PROPERTY OF THE PROPE

- 9. A BRACED MALL PARE, SHALL BE LOCATED WITHIN 16 FEET OF EACH END OF A
  BRACED MALL LINE.

  1. THE MANNIN EDGE DISTANCE BETWEEN BRACED MALL PARELS SHALL NOT
  EXCEED 26 FEET.

  2. ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND
  IPLET LOADS SHALL COPIETY WITH IRC SECTION REGISS.

  3. MASCHEY OR CONCRETE 6181 MALLO WITH A LENGTH OF 80 OR LESS
  SUFPORTING A BRACED MALL PAREL SHALL BE DESIGNED IN ACCORDANCE WITH
  FIGURE REGISTS OF THE 2008 FIRST.

  5. BRACED MALL PAREL CONNECTIONS TO PLOOPICELING SHALL BE CONSTRUCTED IN
  ACCORDANCE WITH SECTION REGISSION.

  5. BRACED MALL PAREL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN
  ACCORDANCE WITH SECTION REGISSION.

  5. CRIPTLE MALLS AND MALK OUT BLASFIENT MALLS SHALL BE DESIGNED IN
  ACCORDANCE WITH SECTION REGISSION.

  6. CRIPTLE MALLS AND MALK OUT BLASFIENT MALLS SHALL BE DESIGNED IN
  ACCORDANCE WITH SECTION REGISSION.

  6. CRIPTLE MALLS AND MALK OUT BLASFIENT MALLS SHALL BE DESIGNED IN
  ACCORDANCE WITH SECTION REGISSION.

- 18. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
  19. ABBURDATION.

GB = GYPRIM BOARD URP = WOOD STRUCTURAL PANEL
C5-XXX = CONT. SHEATHED BMG = BMG. PORTAL FRAME
FF-BMG = BMG. PORTAL FRAME

NSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION RS601/08 AND FIGURE RS601/01 OF THE 2015 IRC.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION RESISTS OF THE 2018 NORC.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS UHEN USED WITH ARCHITECTURAL PLANS DATED WITH ARCHITECTURAL PLANS UHEN USED WITH ARCHITECTURAL PLANS UHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY ARCHITECTURAL PLANS DATED DIFFERENTLY ARCHITECTURAL PLANS DATED DIFFERENTLY PLANS UHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

### STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR BRACING PLAN SCALE: 1/8"=1"

- NOTES:

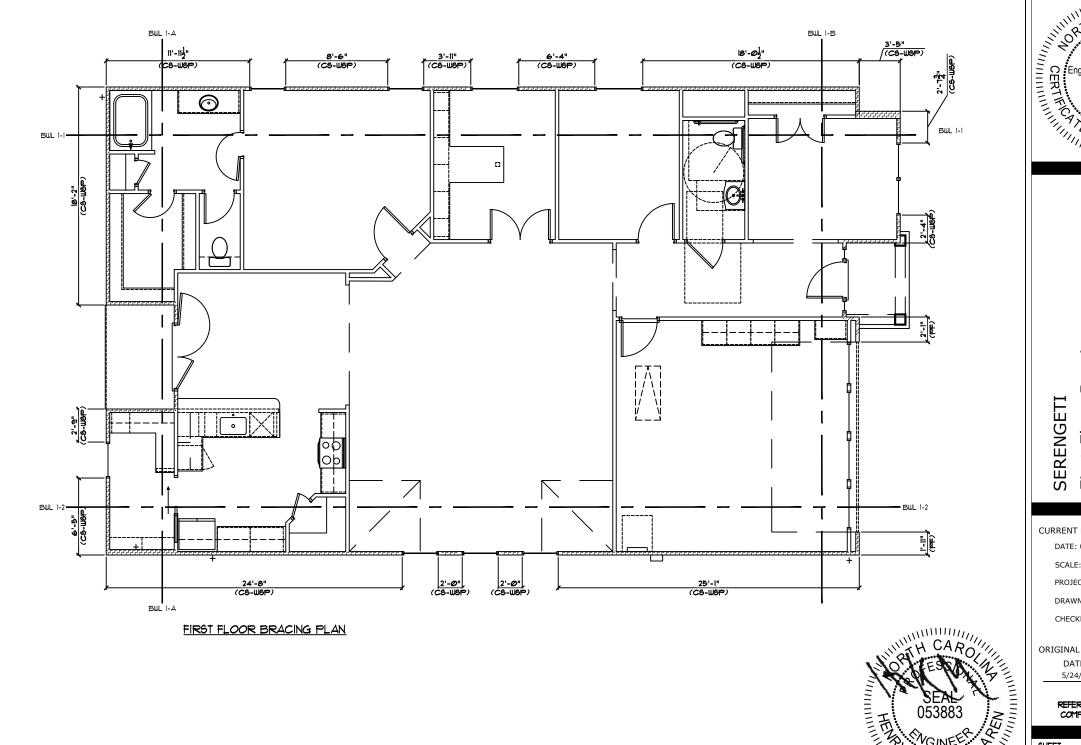
  1. FRAME ENGINEERED PORTAL FRAME AREAS PER DETAIL 1/D3 (UNO). FRAME ALL OTHER WALLS ALONG BRACED WALL LINE AS INDICATED IN THE BRACED WALL SCHEDULE.

  2. ALL BRACED WALLS SHALL BE CONTINUOUSLY SHEATHED.

  3. IF AM ANCHOR BOLL STREY, SHACING SHOWN ON THIS PLAN CONFLICTS WITH A DETAIL, USE THE LARGER SIZE AND/OR CLOSER SPACING FROM ETHER THE PLAN OR THE DETAIL 4. BRACED WALLS MAY BE OFFSET 4"O" MAY FROM ETHER SIDE OF BRACED WALL LINE.

  5. PLAN OFTIONS DO NOT AFFECT WALL BRACING. THIS PLAN MAY BE USED IN CONJUCTION WITH ALL PLAN OPTION COMBINATIONS WITH OUT MODIFICATION

FIRST FLOOR BRACING (FT)					
CONTIN	CONTINUOUS SHEATHING METHOD				
	REQUIRED	PROVIDED			
BWL 1-1	5.3	52,1			
BWL 1-2	5.3	53.7			
BWL 1-A	8.8	27.3			
BWL 1-B	8.8	10.6			



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SUMMIT Regimeering, Laboratory Regimeering, Laboratory Roservatory No. F-1454

Fax: 704.504.1125

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4

CURRENT DRAWING

DATE: 06/30/2022

Bracing

Floor

First

**ERENGE** 

S

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

PRO1ECT #: 3554 T0500

DRAWN BY: JV

CHECKED BY: HKM

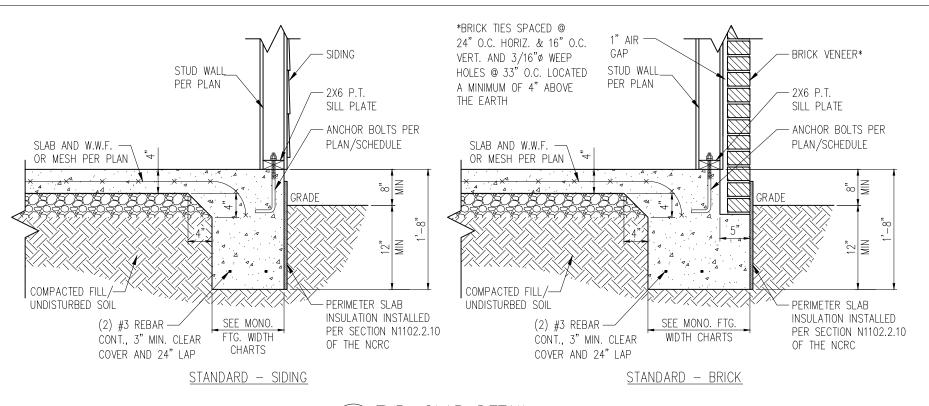
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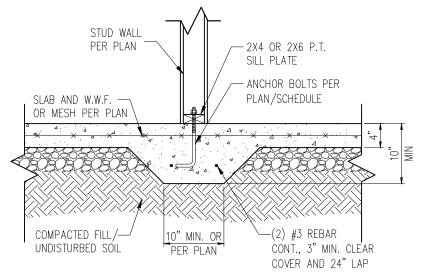
DATE 5/24/19 PROJECT # 23162

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

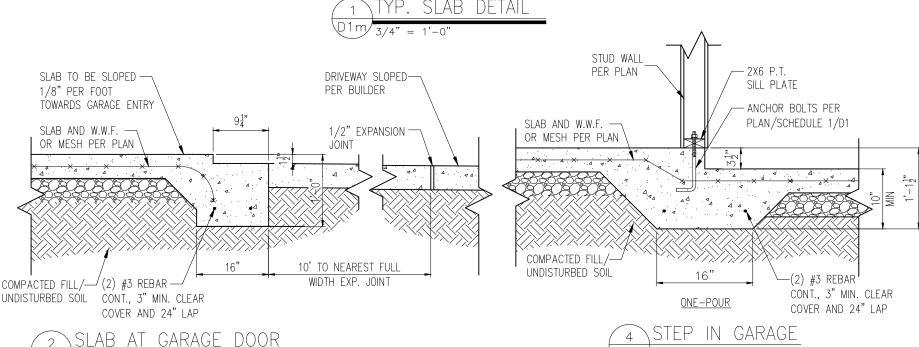
053800 WGINEE TUEHR MOVED 2022 SHEET

S7.0





THICKENED SLAB DETAIL



WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERIOR	EXTERIOR
	EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø A307 BOLTS w/	7"	6'-0"	YES	YES
STD. 90° BEND				
SST - MASA	4"	6'-0"	NO	YES
1/2"ø THREADED ROD w/	7"	6'-0"	YES	YES
w/ SST SET-XP EPOXY				
1/2"ø SST TITEN HD	4-1/4"	6'-0"	YES	YES

- 1) INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.
- 2) EQUIVALENT ANCHORS MAY BE USED. SIZE & SPACING PER MANUF. SPECS.

#### MONOLITHIC FOOTING WIDTH

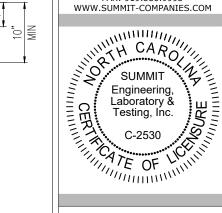
FOOTING WIDTH FOR BRICK SUPPORT

# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY			
	1500 PSF	2000 PSF	2500 PSF	
1 STORY - STD.	16"	16"	16"	
1 STORY - BRICK VENEER	21"*	21"*	21"*	
2 STORY - STD.	16"	16"	16"	
2 STORY - BRICK VENEER	21"*	21"*	21"*	
3 STORY - STD.	23"	18"	18"	
3 STORY - BRICK VENEER	32"*	24"*	24"*	
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC				



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# Details LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Slab Standard Details Monolithic

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

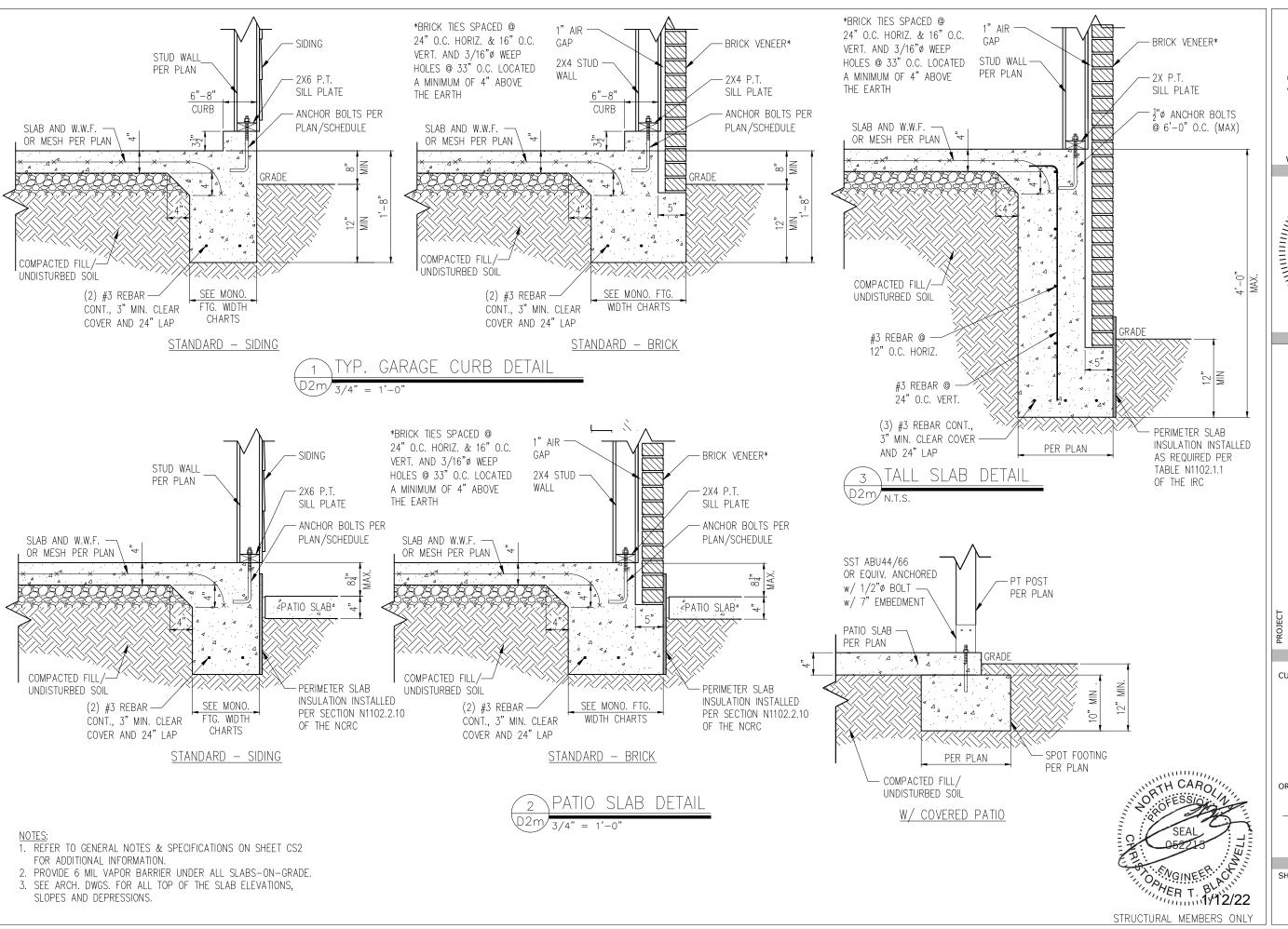
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D<sub>1</sub>m

SLOPES AND DEPRESSIONS.

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.

2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS,





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> Details LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Slab Standard Details Monolithic

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19

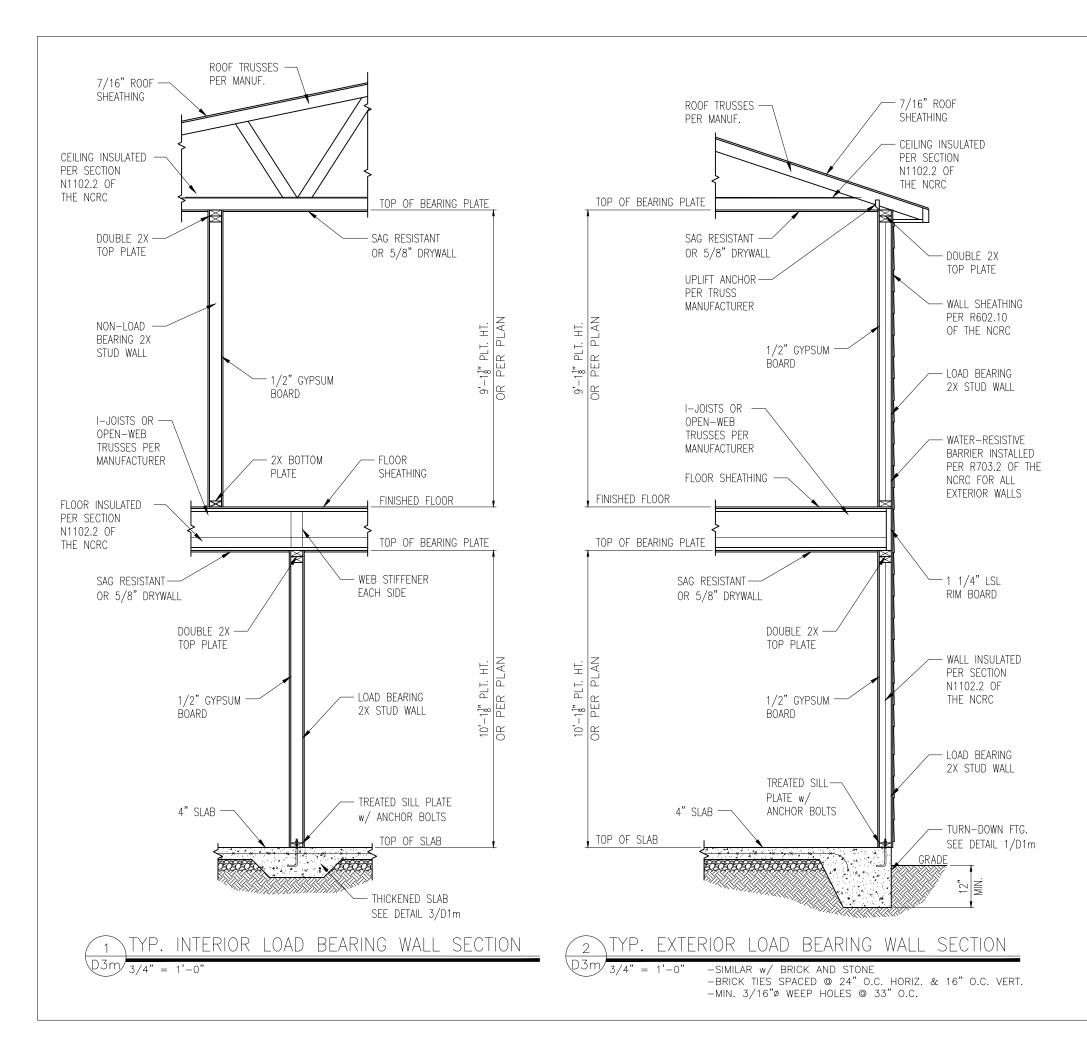
REFER TO COVER SHEET FOR A

PROJECT #

24512

COMPLETE LIST OF REVISIONS

D<sub>2</sub>m

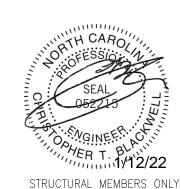




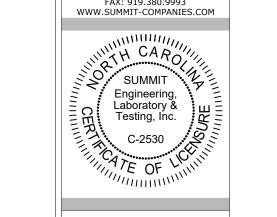
NOTES:
1. REFER TO GENERAL NOTES &

2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.

3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.



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Details LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Slab Standard Details Monolithic

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DATE: 10/05/21

SCALE: NTS

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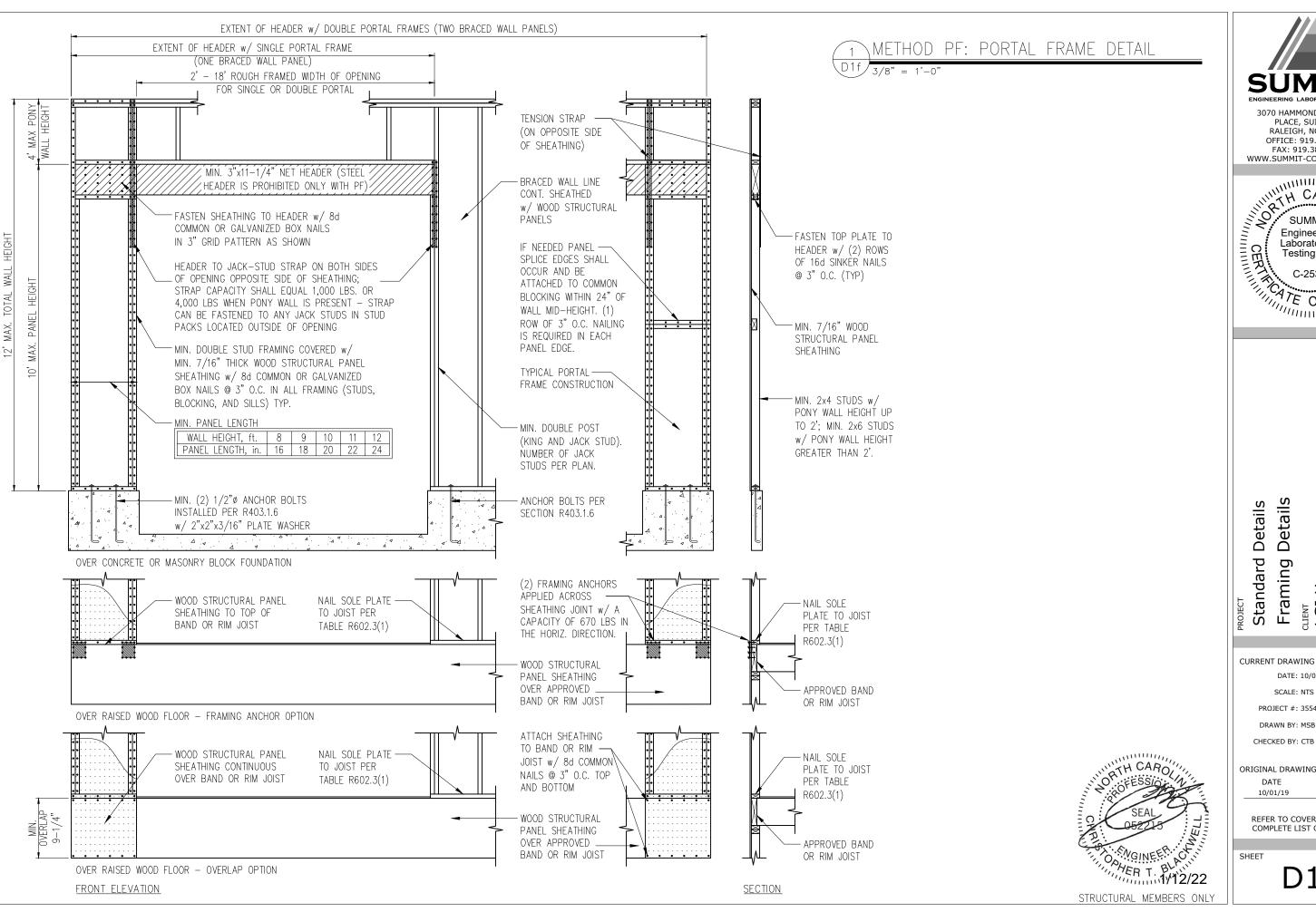
DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D<sub>3</sub>m

SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.





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> Details Details CLEI Homes 3037 Sherma Lancaster, SC Framing Standard

ian Drive C 29720

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

ORIGINAL DRAWING DATE

10/01/19

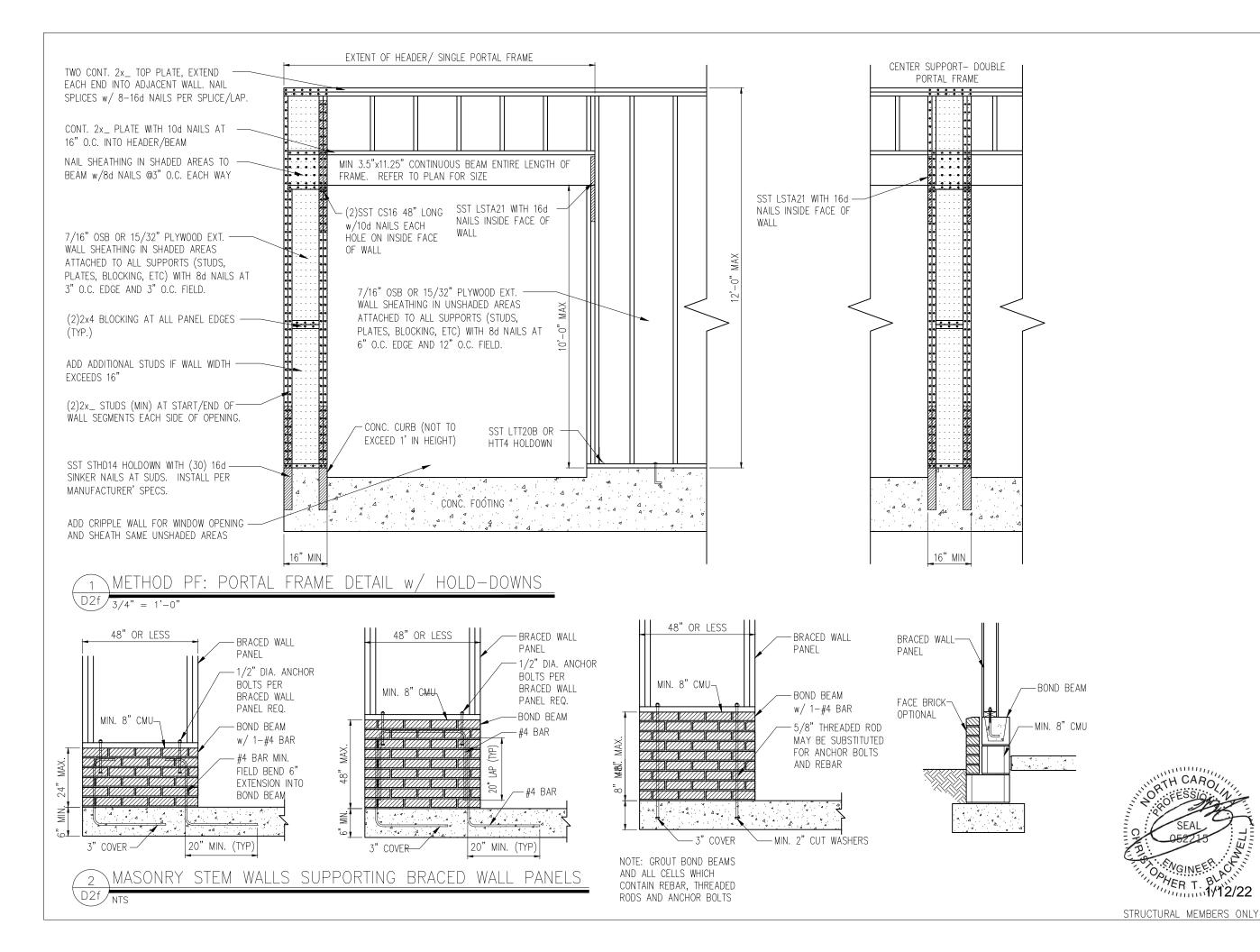
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PROJECT #

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

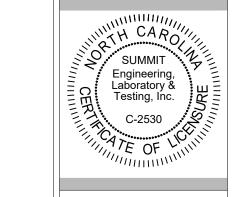
SHEET

D1f





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Standard Details
Framing Details - Bracing
LGI Homes
3037 Sherman Drive
Lancaster, SC 29720

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

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ORIGINAL DRAWING
DATE

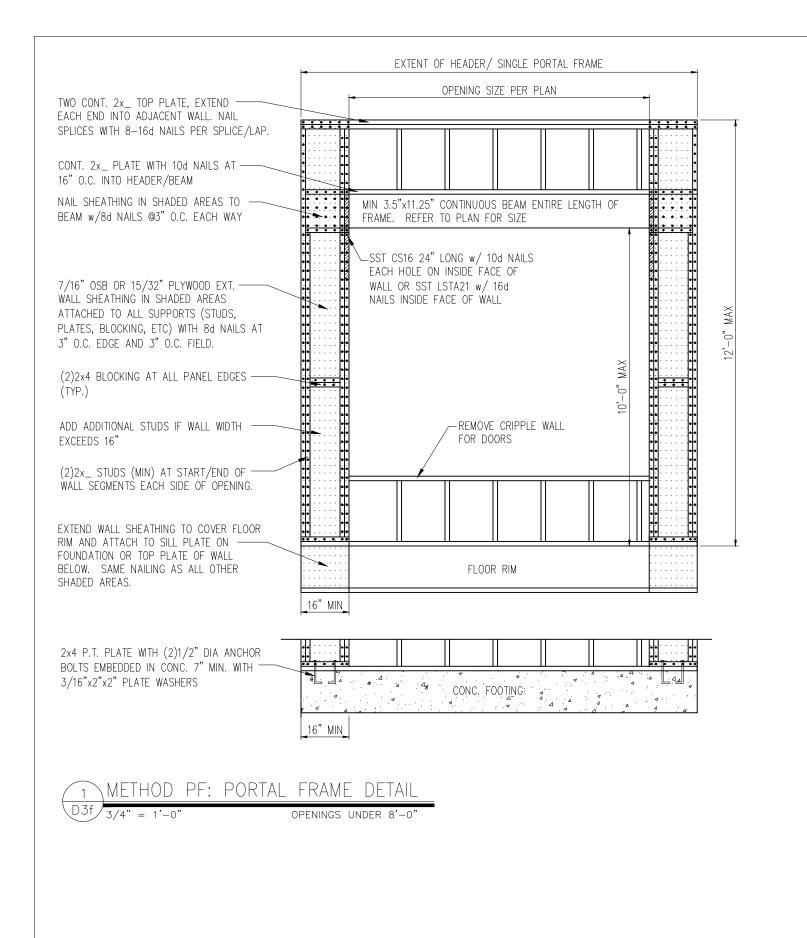
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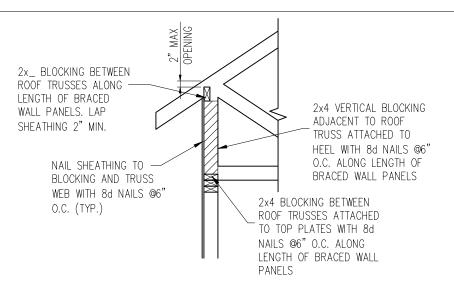
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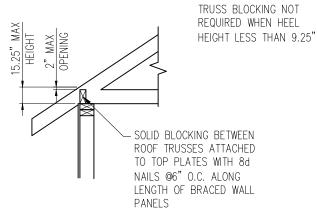
SHEET

D2f





HEEL HEIGHT BETWEEN 15.25" AND 48"



HEEL HEIGHT BETWEEN 9.25" AND 15.25"

TYP. WALL PANEL TO ROOF TRUSS CONNECTION





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ORIGINAL DRAWING

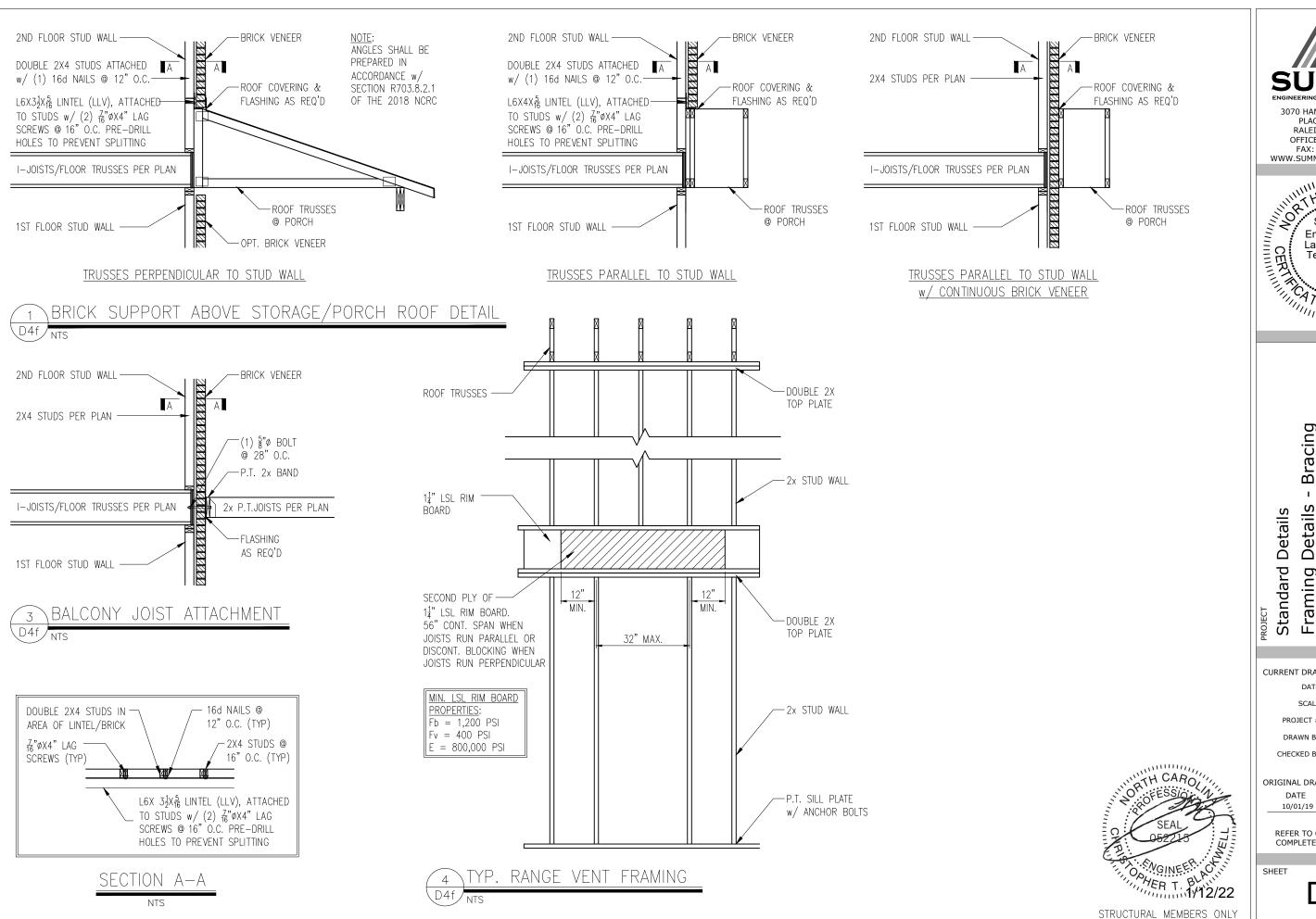
DATE 10/01/19

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SHEET

D3f





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CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

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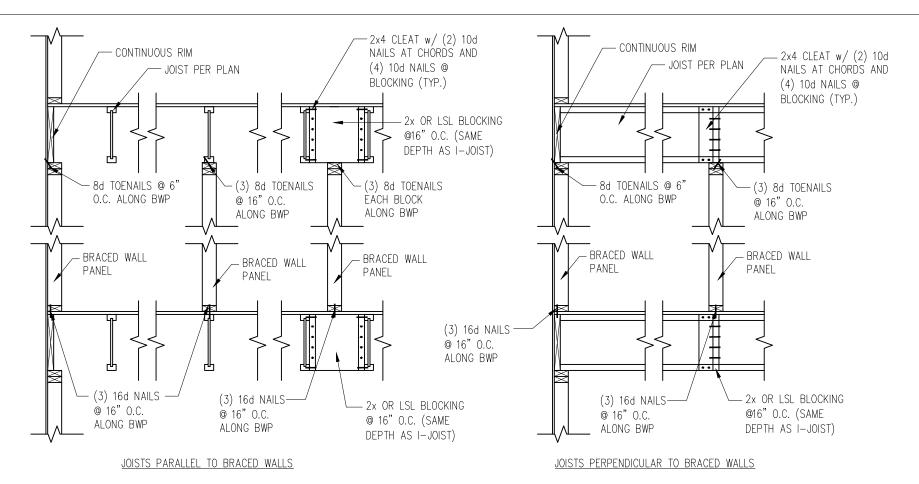
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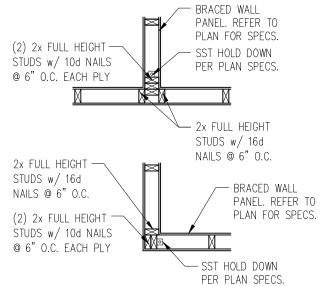
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PROJECT # 24512

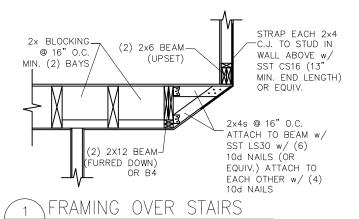
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D4f



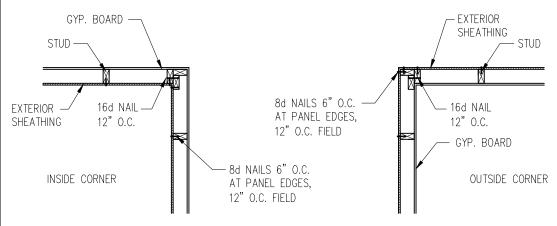


# TYP. HOLD DOWN DETAIL D5f 1" = 1'-0"

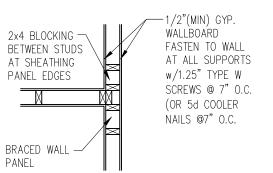


TYP. WALL PANEL TO FLOOR/CEILING CONNECTION

D5f 1" = 1'-0"







3 INTERIOR 3-STUD WALL INTERSECTION



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LGI Homes
3037 Sherman Drive
Lancaster, SC 29720

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

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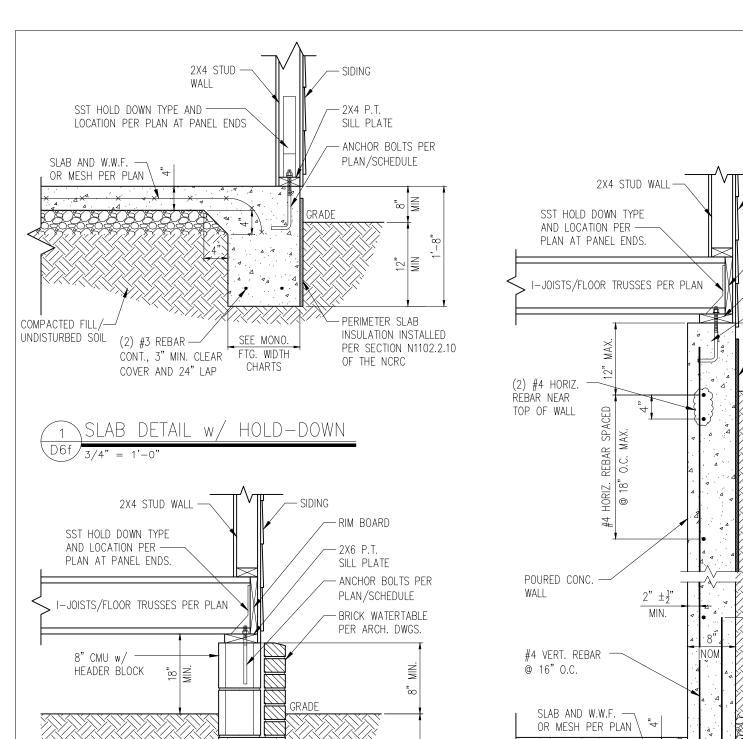
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REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D5f



(2) #3 REBAR

CONT., 3" MIN. CLEAR

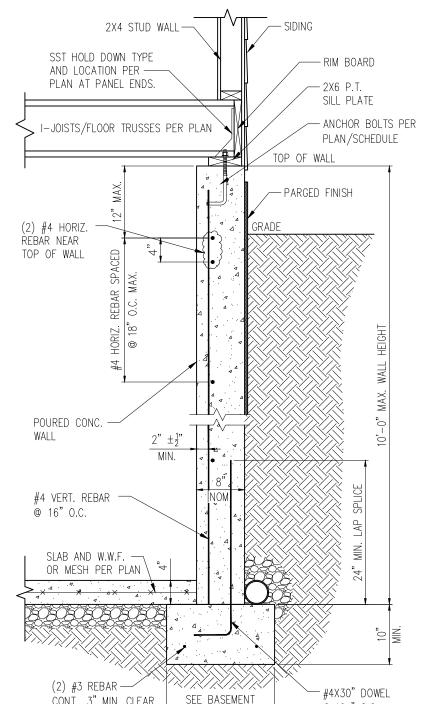
COVER AND 24" LAP

SEE CRAWL SPACE

FTG. WIDTH CHARTS

CRAWL FOUNDATION WALL DETAIL W/ H-D

12" CMU



FTG. WIDTH CHARTS

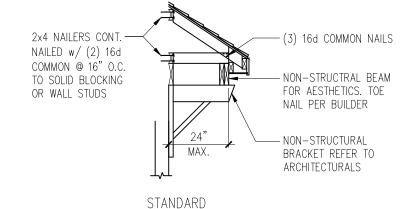
STANDARD - SIDING

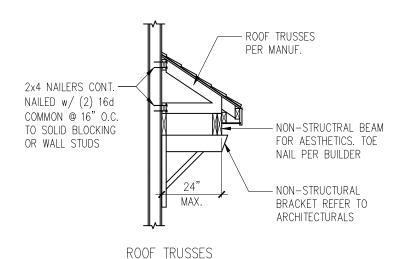
@ 16 " O.C.

BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN

CONT., 3" MIN. CLEAR

COVER AND 24" LAP







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CURRENT DRAWING

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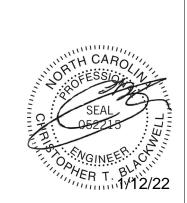
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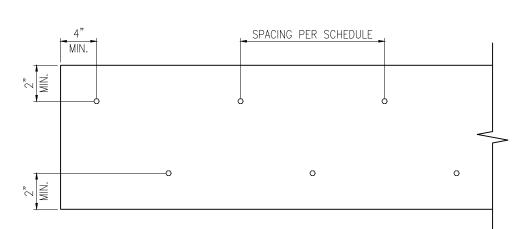
DATE 10/01/19 PROJECT # 24512

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SHEET

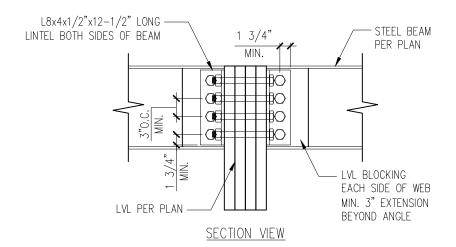
D6f

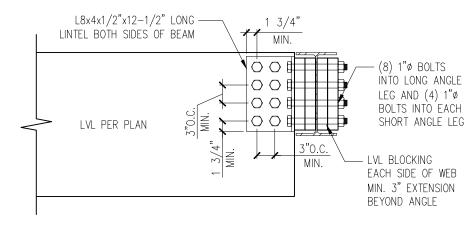




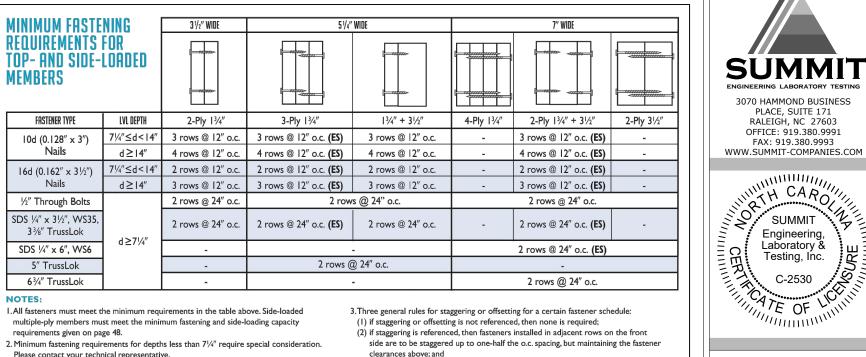
**ELEVATION VIEW** 

# MULTI-PLY BEAM CONNECTION DETAIL

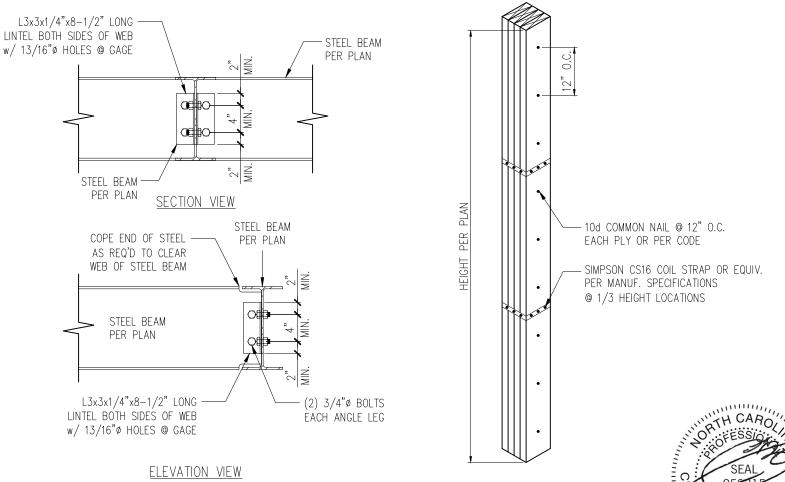




ELEVATION VIEW



- multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.
- 2. Minimum fastening requirements for depths less than  $7\frac{1}{4}$  require special consideration. Please contact your technical representative
- 3. Three general rules for staggering or offsetting for a certain fastener schedule: (I) if staggering or offsetting is not referenced, then none is required;
- (2) if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener clearances above; and
- (3) if "ES" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).



MULTI-PLY STUD NGINEER OF 4+ PLIES

STRUCTURAL MEMBERS ONLY

LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Details Details Standard Framing

Bracing

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Operation CARO

CURRENT DRAWING

DATE: 10/05/21 SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19

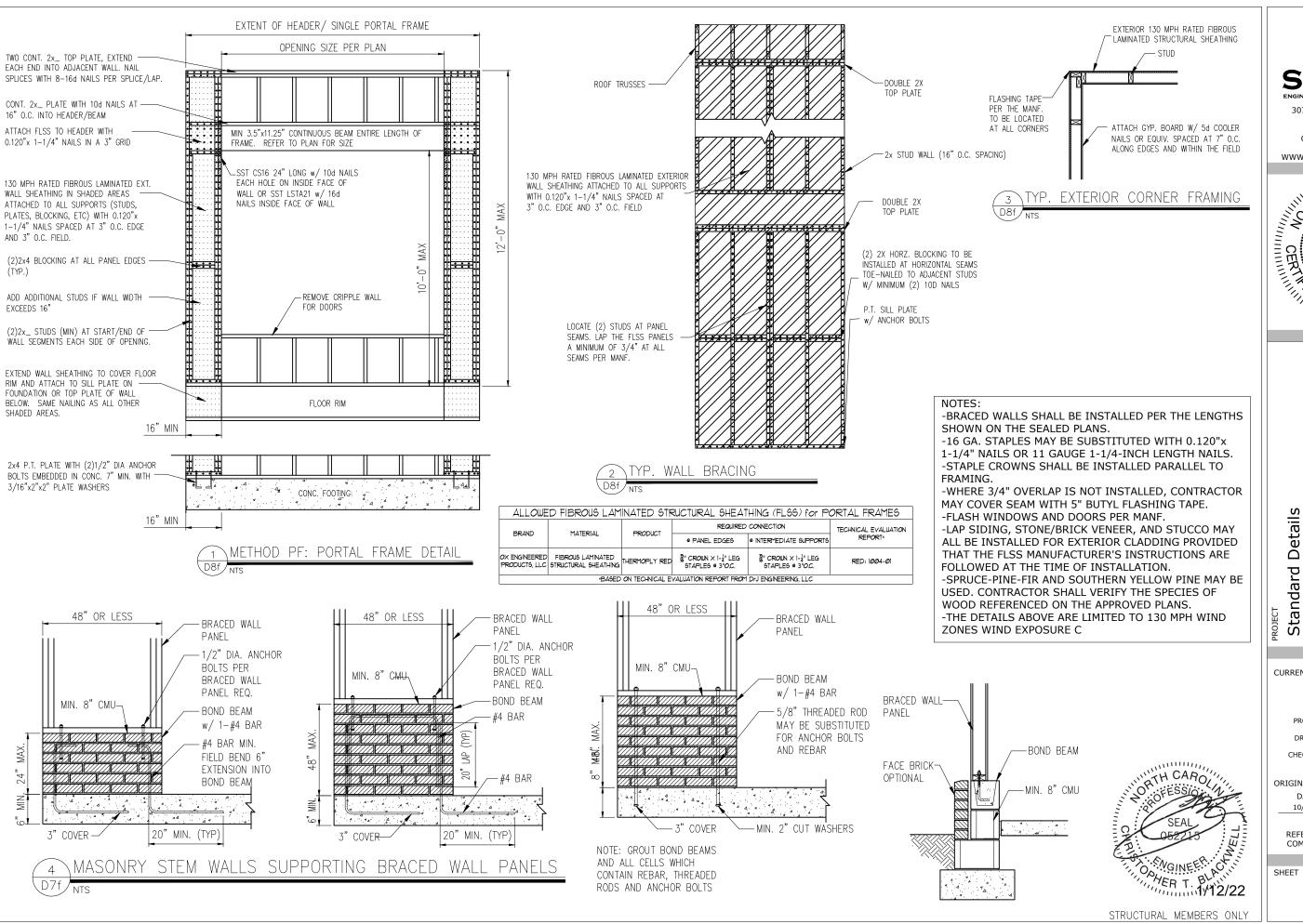
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PROJECT #

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CHECKED BY: CTB

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