CAROLINA

AT ATHERSTONE ANGIER, NORTH

●8 FEBRUARY 2023

COVER SHEET

A1.0



THE MACON

AT ATHERSTONE COMMUNITY

SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 1182 sf

GARAGE = 413 sf

FRONT PORCH = 19 sf

= 1614 sf

TOTAL

INDEX OF SHEETS

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A2.0 FIRST FLOOR PLAN & NOTES A3.0 EXTERIOR ELEVATIONS & NOTES

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CS2 COVER SHEET (CONTINUED) S1.0m MONO SLAB FOUNDATION

S3.0 FIRST FLOOR FRAMING PLAN S7.0 FIRST FLOOR 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
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GENERAL CONTRACTOR

LGI HOMES

SCOTT STERLING

V.P. OF CONSTRUCTION FOR NC / SC

704-953-3824

CAROLINA

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PERMIT SET FOR CONSTRUCTION

● 8 FEBRUARY 2023

GENERAL NOTES

A1.1

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 DRAWINGS.

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

DESIGN SPECIFICATIONS

USE GROUP: (IBC 310)

"R-3" ONE & TWO FAMILY DWELLING

CONSTRUCTION CLASS: (IBC 601)

"TYPE V-B" UNPROTECTED

HEIGHT & AREA LIMIT: (LOCAL ZONING)

35' MAXIMUM 2 STORY HEIGHT

EMERGENCY ESCAPE: (IRC 310-311)

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: (IRC 702)

½" GYPSUM WALL BOARD

 $\ensuremath{^{5}\!\!\!/}\text{"}$ TYPE "X" GYPSUM BOARD CEILING WHERE LIVING IS ABOVE

20 MINUTE RATED GARAGE / HOUSE DOOR

ATTIC VENTILATION: (IRC 806)

[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: (IRC 408)

[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

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 $\ensuremath{@}$ 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 SUBFLOOR 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 IRC (R807.1) 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 IRC (N1102.2.4). 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 BIBB(S) TO BE LOCATED 24" ABOVE FIRST FLOOR FINISHED FLOOR

WINDOW NOTES

-ALL WINDOW DIMENSIONS ARE BASED ON M.I. 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 IRC. 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

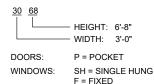
DOOR NOTES

-ATTIC ACCESS DOORS TO INCLUDE WEATHER STRIPPING & INSULATION

-TOP OF INTERIOR CASING $\ensuremath{\text{@}}$ 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.

DOOR & WINDOW LEGEND



INSULATION NOTES

INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

CLIMATE ZONE 4A

TABLE N1102.1.2

CEILING: R-38 FLOOR: R-19 WALL: R-15 SLAB: R-10

SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 1182 sf

GARAGE = 413 sf FRONT PORCH = 19 sf

TOTAL = 1614 sf

FLOOR PLAN LEGEND

5S	5 SHELVES
1R 2S	1 ROD, 2 SHELVES
2R 2S	2 ROD, 2 SHELVES
HR	HANGING ROD
CO	CASED OPENING
W D	WASHER, DRYER
D/W	DISH WASHER
FRIG	REFRIGERATOR
LS	LAZY SUSAN
M	MIRROR
<u></u>	SHOWER HEAD
(RH)	RAIN HEAD
Ō	TEMPERED GLASS

WALL SCHEDULE

FRAMED WALLS
OVERHEAD/BELOW

ALL WALLS ARE 2x4 WOOD STUD WALLS, UNO 5 1/2" DIMENSION INDICATES 2x6 WOOD STUD WALL

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

CEILING HEIGHT NOTES

8' - 1 $\frac{1}{2}$ " CEILING HEIGHTS ON FIRST FLOOR

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

COLUMN NOTES

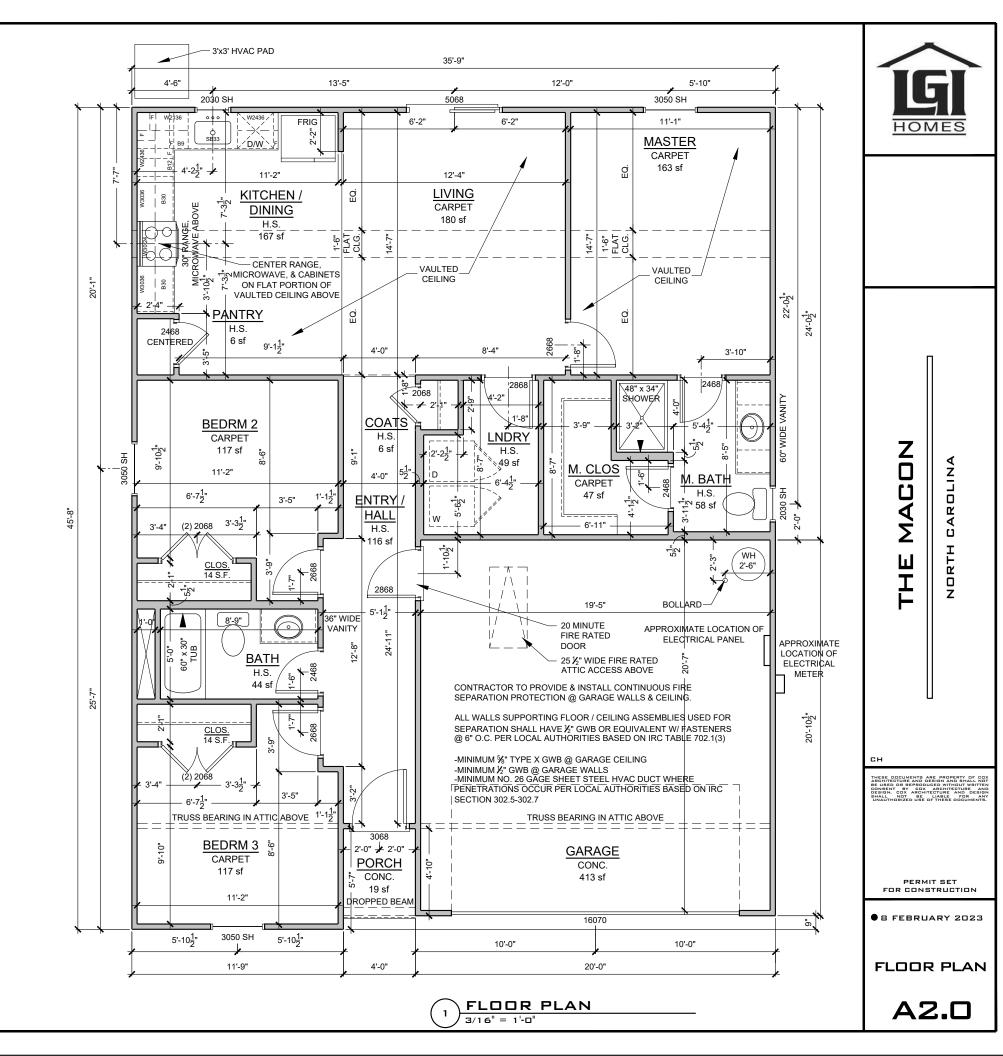
COLUMNS TO BE: AFCO OR COLUMN OF EQUAL BEARING CAPACITY. (6000 # MINIMUM)

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 ½" CONCRETE SCREWS THROUGH FASTENER INTO CONCRETE

ELECTRICAL PANEL/METER

MAXIMUM DISTANCE BETWEEN ELECTRICAL PANEL & ELECTRICAL METER (NEC 230.70) TO BE DETERMINED BY LOCAL AUTHORITY.



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 $\frac{1}{2}$ " 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 IRC

INSULATION NOTES

INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

CLIMATE ZONE 4A

TABLE N1102.1.2

CEILING: R-38 FLOOR: R-19 WALL: R-15 SLAB: R-10

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 IRC (R302.1.1):

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 SECTION R806.2 BY MORE THAN 50 PERCENT. TOWNHOME CONSTRUCTION SHALL MEET ADDITIONAL REQUIREMENTS OF SECTIONS R302.2.5 AND R302.2.6.

CEILING HEIGHT NOTES

8' - 1 $\frac{1}{2}$ " CEILING HEIGHTS ON FIRST FLOOR

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

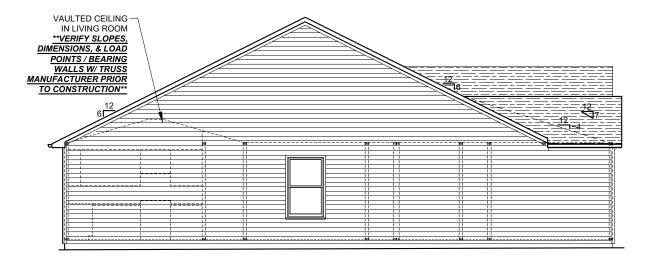
COLUMN NOTES

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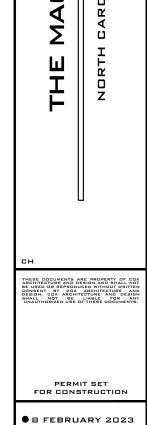
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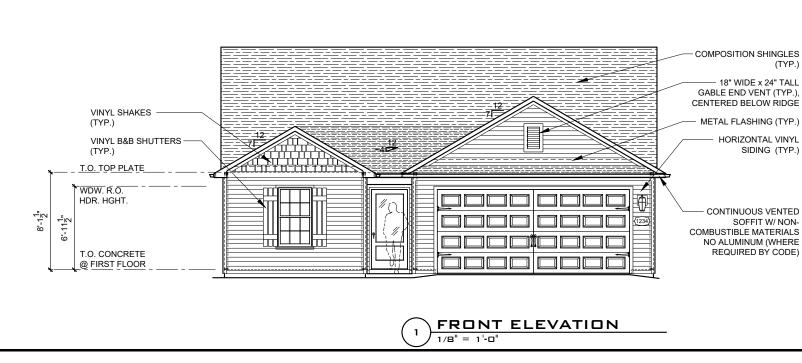


LEFT SIDE ELEVATION

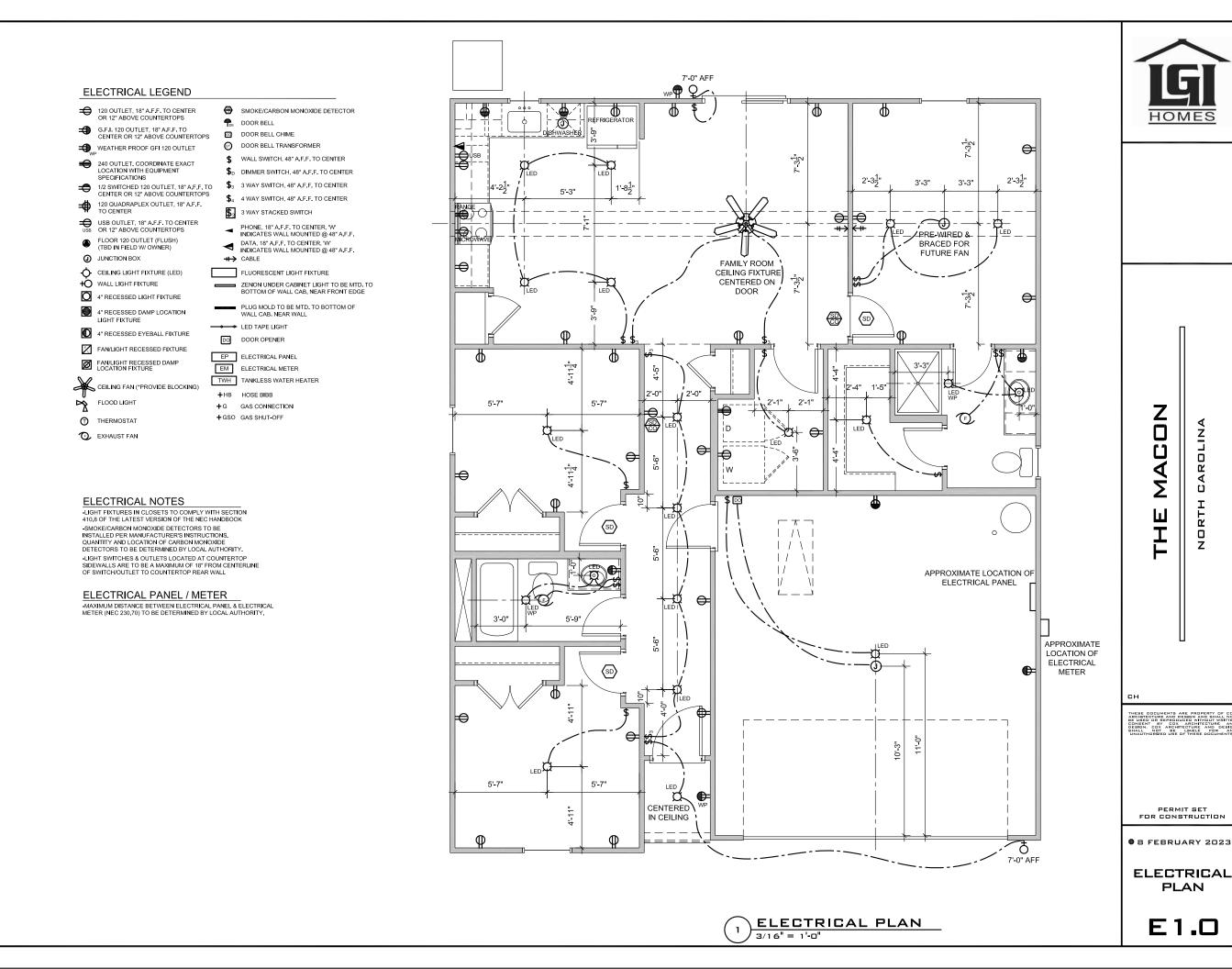


ELEVATIONS

A3.0







DESIGN SPECIFICATIONS:

Construction Type: Commerical \square Residential \boxtimes

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:

١.	ROOT LIVE LOODS	
	1.1. Conventional 2x	PSF
	1.2. Truss	PSF
	1.2.1. Attic Truss60	
2.	Roof Dead Loads	
	2.1. Conventional 2x	PSF
	2.2. Truss	PSF
3.	Snow	
	3.1. Importance Factor	
4.	Floor Live Loads	
	4.1. Typ. Dwelling	PSF
	4.2. Sleeping Areas	PSF
	4.3. Decks	PSF
	4.4. Passenger Garage 50	PSF
5.	Floor Dead Loads	
	5.1. Conventional 2x	PSF
	5.2. I-Joist	PSF
	5.3. Floor Truss	PSF

6.3.2. Vy = 7. Component and Cladding (in PSF)

6.3.1. Vx =

6.3. Wind Base Shear

6.2. Importance Factor.....

6.1. Exposure

		, ,		
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,-20.7	20.4,-21.3
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

6. Ultimate Design Wind Speed (3 sec. gust)

8. Seismic
8.1. Site Class D
8.2. Design Category C
8.3. Importance Factor
8.4. Seismic Use Group
8.5. Spectral Response Acceleration
8.5.1. Sms = %q
8.5.2. Sm1 = $%$ q
8.6. Seismic Base Shear
8.6.1. Vx =
$8.6.2. \forall x = 0.01$
· · · · · · · · · · · · · · · · · · ·
8.7. Basic Structural System (check one)
Bearing Wall Duitting Forms
☐ Building Frame
☐ Moment Frame
□ Dual w/ Special Moment Frame
□ Dual w/ Intermediate R/C or Special Steel
☐ Inverted Pendulum
8.8. Arch/Mech Components Anchored No
8.9. Lateral Design Control: Seismic □ Wind ⊠
9. Assumed Soil Bearing Capacity



STRUCTURAL PLANS PREPARED FOR:

MACON RH

PROJECT ADDRESS: TBD

OWNER: LGI Homes 7201 Creedmoor Road, Suite 147 Raleigh, NC 27613

ARCHITECT/DESIGNER:

.130 MPH

COX Architecture & Design, PLLC 1310 South Tryon Street, Suite 111 Charlotte. NC 28203

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
EW	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 <u>LGI HOMES</u>. 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 LIST:

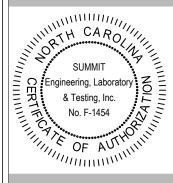
Sheet No.	Description	
CS1	Cover Sheet, Specifications, Revisions	
CS2	Specifications Continued	
S1.0m	Monolithic Slab Foundation	
S1.0s	Stem Wall Foundation	
S1.0c	Crawl Space Foundation	
S1.0.4b	4-Sides Brick Crawl Space Foundation	
S1.0b	Basement Foundation	
S2.0	Basement Framing Plan	
S3.0	First Floor Framing Plan	
S4.0	Second Floor Framing Plan	
S5.0	Roof Framing Plan	
S6.0	Basement Bracing Plan	
S7.0	First Floor Bracing Plan	
S8.0	Second Floor Bracing Plan	

Revision No.	Date	Project No.	Description
1	10.17.22	T0508	Original Engineering
2	01.24.23	T0508	Updated Per New Architectural Plan



STRUCTURAL MEMBERS ONLY





LGI Homes 7201 Creedmoor Road, Suite 147 Raleigh, NC 27613

CURRENT DRAWING

Coversheet

Macon RH

DATE: 01/24/2023 SCALE: 1/8"=1'-0"

PROJECT #: 3554.T0508

DRAWN BY: EO
CHECKED BY: JCEF

ORIGINAL DRAWING

DATE PROJECT # 10.17.2022 T0508

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

CHE

CS

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 SFR and SUMMIT shall be considered the same entity
- 2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure
- 3. 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
- 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.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- 7. This structure and all construction shall conform to all applicable sections of the international residential code.
- 8. This structure and all construction shall conform to all applicable sections of local building codes.
- 9. All structural assemblies are to meet or exceed to requirements of the current local building code.

- 1. 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.
- 2. 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.
- 3. 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
- 5. 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
- 6. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

STRUCTURAL STEEL:

- 1. 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.
- 2. Structural steel shall receive one coat of shop applied rust-inhibitive paint.
- 3. All steel shall have a minimum yield stress (F_v) of 36 ksi unless otherwise noted.
- 4. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D1.1. Electrodes for shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.

- 1. 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.
- 2. 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 Buildinas"
- 3. 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:
 - Footings: 5%
 - Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SFR
- 5. Concrete slabs-on-grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction"
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci 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
- 7. 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. 10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour.

CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-arade 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 strenath.
- 2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- 3. Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- 4. Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard
- 5. Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- 6. 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"
- 7. 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.
- 8. 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.
- 9. 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
- 10. 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.
- 2. LVL or PSL engineered wood shall have the following minimum design values:
 - E = 1.900.000 psi
 - Fb = 2600 psi2.3.
 - Fv = 285 psi
 - Fc = 700 psi 2.4.
- 3. 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
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications
- All beams shall have full bearing on supporting framing members unless otherwise noted
- Exterior and load bearing stud walls are to be 2x4 SYP #2 @ 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.
- 8. 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.
- 9. Multi-ply beams shall have each ply attached with (3) 10d nails @ 24" O.C.
- 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:

- 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.
- 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.

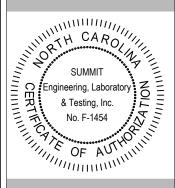
WOOD STRUCTURAL PANELS:

- 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
- 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.
- 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.
- 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 T&G 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
- 6. 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
- Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.





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

PROJECT #: 3554.T0508 DRAWN RY. FO CHECKED BY: JCEF

ORIGINAL DRAWING

DATE 10.17.2022

T0508

PROJECT #

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FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE w/ CHAPTER 4 OF THE 2018

- 1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE w/ CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE w/ ALL LOCAL AMENDMENTS.
 2. STRUCTURAL CONCRETE TO BE F. = 3000 PSI, PEFRAER DAM PLACED IN ACCORDANCE WITH ACI STANDARD 318.
 3. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BENORCHMENT OFFICIAL.
 4. FOOTING SIZES BASED ON A PRESUMETIVE SOIL BEARING CAPACITY OF 2000 PSF, CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFINIO THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
 5. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FRACE OF MACONITY.
 6. MAXIMUM DEPTH OF UNBRANCED FILL ARBIST MASONITY WALLS TO BE AS SPECIFIED IN SECTION RAD4.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
 7. PLASTERS TO BE BONDED TO PERMETER FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
 7. PLASTERS TO BE BONDED TO PERMETER FOUNDATIONS PER 2018 NORTH CAROLINA FROM THE AS REQUIRED BY SITE CONTIONS. AND DRAIN WITH POSTIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONTIONS.
 7. PROVIDED PERMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA PERSONNAL CODE SECTION RAD4.1.6. MINIMUM 1/2" DIA BOLTS SPACED AT 6"-0" ON THE CONTION AND CHARGE SHALL BE CONSTITUCTED PER THE 2018 NORTH CAROLINA PRESIDENTIAL CODE SECTION RAD4.1.6. MINIMUM 1/2" DIA BOLTS SPACED AT 6"-0" ON THE CONTINUE WITH A 7" MINIMUM 1/2" DIA BOLTS SPACED AT 6"-0" ON THE CONTINUE WITH A 7" MINIMUM 1/2" DIA BOLTS SPACED AT 6"-0" ON THE CONTINUE OF THE SECTION RAD (1) LOCATED NOT MORE THAN 12" FROM THE CORNER. ANCHOR BOLTS SHALL BE CONTICUTED PER THE 2018 NORTH CAROLINA PIECE SECTION RAD4 IS, MINIMUM 1/2" DIA BOLTS SPACED AT 6"-0" ON THE CONTINUE OF THE SECTION RAD (1) LOCATED NOT MORE THAN 12" FROM THE CORNER. ANCHOR BOLTS SHALL BE CONTINUED PER 100 ORDERED THAN 12" FROM THE CORNER. ANCHOR BOLTS SHALL BE CONTINUED TO THE CENTER THIRD OF THE PLATE SECTION AND (1) LOCATED NOT

- 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

- 14. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICIAL (UNO)

 15. WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.

 16. A FOUNDAMION EXCAMATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS or YELDING MATERIALS AND/OR POTENTIALLY EXPANSES SOLIS, ARE OBSERVED IN THE FOOTING EXCAMATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY & ESTIMIN, BUT, WIST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.

 ALL PROTINGS & SIAMS ARETO DEAD ON INDICTIORS TO UN DR GRY COMPANYED.
- ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS. ADDITIONAL INFORMATION PER SECTION R602.10.8 AND FIGURE R602.10.7 OF THE 2015 IRC.

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

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP PER TABLE R405.1

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO ROTE: FUORIDATION ANOTOFRAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCRC.

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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>LGI HOMES</u> COMPLETED/REVISED ON $\underline{09/30/22}$. 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 GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED

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STRUCTURAL.ANALYSIS BASED ON 2018 NCRC.

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

WALL ANCHOR OPTION SCHEDULE FOR MONO				IO SLAB	
	ANCHORS	MIN. CONC. EMBEDMENT	SPACING	INTERIOR WALL	EXTERIOR WALL
	1/2" A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
	1/2" HILTI KWIK BOLT, SST WEDGE-ALL, OR EQUIVALENT WEDGE ANCHOR	4"	6'-0"	YES	YES ³
	1/2"¢ THREADED ROD w/ SST SET EPOXY	4"	6'-0"	YES	YES

1. INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM WALL PLATE ENDS &

- JOINTS.

 JOINTS.

 JOHNIMA CONCRETE EMBEDMENT AND SPACINGS SHOWN ARE TYPICAL. IF DIFFERENT EMBEDMENTS OR SPACINGS ARE EXPLICITLY CALLED FOR ON THE PLAN OR DETAILS, DEFER TO THOSE.

 3. EXPANSION ANCHORS MAY BE INSTALLED ONLY AS ALLOWED PER MANUFACTURE SPECIFICATIONS.

FOUNDATION SCHEDULE			
TAG	DESCRIPTION	REBAR REQ'D	
1	16"W x 20"D MONO	(2) #3 CONT.	
2	24"SQ x 10"D	NONE	
3	16"W x 10"D LUG (13.5"D @ GARAGE INTERIOR)	(2) #3 CONT.	
4	30"SQ x 10"D	NONE	
5	36"SQ x 12"D	NONE	
6	16"SQ x10"D	NONE	
7	PLAN SPECIFIC	NONE	
♠	THICK POURED CONCRETE SLAB W FIBER MESH ON 6 MIL POLY ON COMPACTED SOIL		
4" THICK POURED CONCRETE SLAB O COMPACTED SOIL			

ABBREVIATIONS: W = WIDTH, D = DEPTH, SQ =SQUARE,
B.D. = BOTH DIRECTIONS, CONT. = CONTINUOUS,
MONO = MONOLITHIC SLAB FOOTING



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Engineering, Laboratory

Testing, Inc.

No. F-1454

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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-companies.com

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DATE: 01/24/2023

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

PROJECT #: 3554.T0508

DRAWN BY: EO

CHECKED BY: JCEF

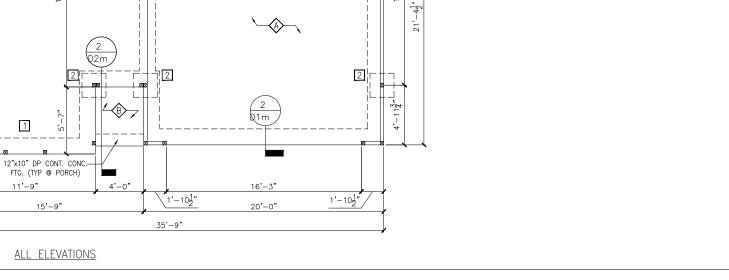
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PROJECT # 10.17.2022 T0508

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3

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Q2m

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3

 $16'-0\frac{1}{2}"$

¦ 1

Q1m

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11'-9"

GENERAL STRUCTURAL NOTES:

- ENERAL STRUCTURAL NOTES:

 1. CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.

 2. CONTRACTOR SHALL VERRY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWNOF FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES SHALLDOWNS:

 AMERICIAN (LSL): F₀ = 2320 PSI, F₁ = 310 PSI, E = 1.9510⁶ PSI IMMERSTRAND (LSL): F₀ = 2320 PSI, F₁ = 310 PSI, E = 1.5510⁶ PSI IMMERSTRAND (LSL): F₀ = 2320 PSI, F₁ = 310 PSI, E = 1.5510⁶ PSI ALL WOOD MEMBERS SHALL BE #2 SYP UNILESS NOTED ON PLAN. ALL STUD COLUMNS AND JOSTS SHALL BE #2 SYP UNILESS NOTED ON PLAN. ALL STUD COLUMNS AND JOSTS SHALL BE #2 SYP UNILESS NOTED ON PLAN. ALL STUD COLUMNS AND JOSTS SHALL BE #2 SYP UNILESS NOTED ON PLAN. ALL STUD COLUMNS AND JOSTS SHALL BE #2 SYP UNILESS NOTED ON PLAN. ALL STUD COLUMNS AND JOSTS SHALL BE #2 SYP UNILESS NOTED ON PLAN. ALL STUD COLUMN AT EACH BUD INLESS NOTED DIHERMISS.

 ALL REANS SHALL BE #2 SYP UNILESS NOTED ON PLAN. ALL STUD COLUMN AT EACH BUD INLESS NOTED DIHERMISS.

 ALL REANS SHALL BE #2 SYP UNILESS NOTED FOR THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION RADIO. IS MINIMUM 1/2" DIA. BOLTS SPACED AT 6"—0" ON CENTER WITH A 7" MINIMUM EMBEDIMENT INTO MESONEY OR CONNECTE. MINIMUM (2) ANCIOR BOLTS FER PLATE SECTION AND (1) LOCATED NOT MORE THAN 12" FROM THE CORNER, ANCHORS BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.

 2. CONTRACTOR TO PROVIDED LOCKOUTS WHEN CELLING JOISTS SPAN PERPENDICULAR TO
- CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO
- RAFTERS.

 10. FUTCH BEAMS, 4—PLY LVLS AND 3—PLY SIDE LOADED LVLS SHALL BE BOLIED TOGETHER WITH 1/2" DIA. THRU BOLITS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIPALENT CONNECTIONS PER DETAIL 1/D/T. MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLITS SHALL BE LOCATED MINIMUM 6" FROM ELCH END OF THE BEAM.

 11. ALL NON—LOAD BEARING HEADERS SHALL BE (1) FLAT 2×4 SYP #2, DROPPED. FOR NON—LOAD BEARING HEADERS SHALL BE (2) FLAT 2×4 SYP #2, DROPPED. (UNLESS MOTED OUTERWESE). NOTED OTHERWISE)
- 12. ABBREVIATIONS:
- DJ = DOUBLE JOIST GT = GIRDER TRUSS SC = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER OC = ON CENTER PL = POINT LOAD
- CL = CENTER LINE

WALL STUD SCHEDULE (10 FT HEIGHT)				
STUD SIZE		STUD SPACING (O.C.)		
	ROOF ONLY	R00F & 1 FL00R	ROOF & 2 FLOORS	NON-LOAD BEARING
2x4	24"	16"	12"	24"
2x6	24**	24*	16"	24"

- NOTES:

 1. BRACED 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. TWO STORY WALLS SHALL BE FRAMED w/ 2x4 STUDS @ 12"
 O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED w/
 HORIZONTAL BLOCKING @ 6"-0" O.C. VERTICALLY.

LINTEL SCHEDULE			
TAG	SIZE	OPENING SIZE	
①	L3x3x1/4*	LESS THAN 6'-0"	
2	L5x3x1/4*	6'-0" TO 10'-0"	
3	L5x3-1/2x5/16"	GREATER THAN 10'-0"	
4	L5x3-1/2x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS	

1. SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED AT 16" O.C. (TYP FOR OPENINGS GREATER THAN 10'-0". 2. ALL HEADERS WHERE BRICK IS PRESENT, TO BE

SHADED WALLS INDICATED LOAD BEARING WALLS

GRANITE COUNTERTOPS AND/OR ISLANDS.

NOTE:

_____ DESIGNATES JOIST SUPPORTED LOAD
BEARING WALL ABOVE. PROVIDE BLOCKING UNDER 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 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.

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STRUCTURAL.ANALYSIS BASED ON 2018 NCRC.

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



NOTES:

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

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

	HEADER SCHEDUL	E
TAG	SIZE	JACKS (EACH END
A	(2) 2x6	(1)
В	(2) 2x8	(2)
С	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LSL/LVL	(3)
F	(2) 11-7/8* LSL/LVL	(3)
G	(3) 2x8	(2)
Н	(3) 2x10	(2)
T	(3) 2x12	(2)

NOTES:

1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER
11. HEADERS SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

2. ALL HEADERS TO BE DROPPED (U.N.O.).

3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS USTED ABOVE (U.N.O.).

KING STUD	SCHEDULE	
MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.	
3'-0"	(1)	
4'-0"	(2)	
8'-0"	(3)	
12'-0"	(5)	
16'-0"	(6)	
KING STUD REQUIREMENT LISTED ABOVE DO NOT APPLY TO OPENING WHERE PORTAL FRAME IS SPECIFIED		

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Engineering, Laboratory

Testing, Inc.

No. F-1454

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Charlotte, NC 28273

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CURRENT DRAWING

Framing

Floor

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DATE: 01/24/2023

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

PROJECT #: 3554.T0508

DRAWN BY: EO

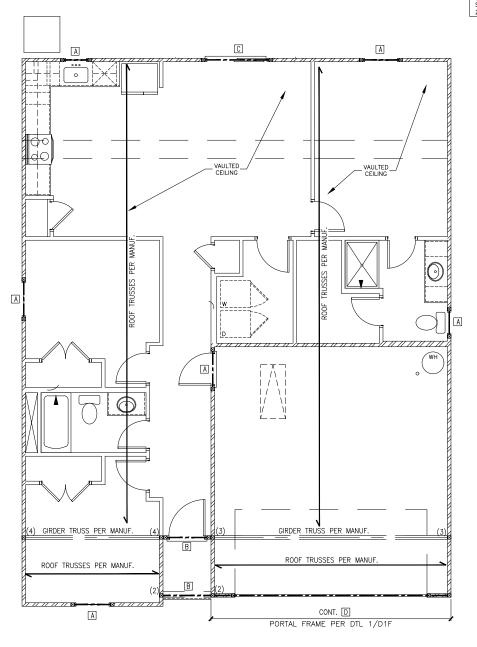
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DATE PROJECT # 10.17.2022 T0508

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REQUIRED BRACED WALL PANEL CONNECTIONS					
		MIN.	REQUIRED CONNECTION		
METHOD	MATERIAL	THICKNESS	@ PANEL EDGES	@ INTERMEDIATE SUPPORTS	
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS* @ 6" O.C.	6d COMMON NAILS* @ 12" O.C.	
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 7" O.C.	5d COOLER NAILS** @ 7" O.C.	
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS* @ 6" O.C.	6d COMMON NAILS* @ 12" O.C.	
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4	
*RASED ON 16" O.C. STUD SPACING **OR FOLUVALENT PER TABLE R702.3.5					

BRACED WALL NOTES:

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS OF 130 MPH.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE
- 4) REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

 6) MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.5.
- 7) THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).

 8) FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL
- SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- 10) A BRACED WALL PANEL SHALL BEGIN WITHIN 10 FEET FROM EACH END OF A BRACED WALL
- THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A BRACED WALL LINE SHALL BE NO GREATER THAN 20 FEET.
- ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY WITH IRC SECTION R602.3.5.
- 13) MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 46" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.9.
- 14) BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8 (SEE DETAIL 1/D5f FROM DETAIL PACKAGE).
- 15) BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8.2 AND FIGURES R602.10.8(1)&(2)&(3).
- 16) CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.11
- 17) PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.6.4 (UNO)
- 18) ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.

19) ABBREVIATIONS:

GB = GYPSUM BOARD CS-XXX = CONT, SHEATHED PF = PORTAL FRAME

WSP = WOOD STRUCTURAL PANEL ENG = ENGINEERED SOLUTION ENG-PF = ENGINEERED PORTAL FRAME

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.8 AND FIGURE R602.10.7 OF THE 2015 IRC.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 09/30/22. 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 GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED

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STRUCTURAL.ANALYSIS BASED ON 2018 NCRC.

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

FIRST FI	LOOR BRACI	NG (FT)		
CONT	CONTINUOUS SHEATHING METHOD			
	REQUIRED	PROVIDED		
FRONT SIDE	6.4	14.3		
RIGHT SIDE	5.0	42.9		
REAR SIDE	6.4	25.4		
LEFT SIDE	5.0	42.6		





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Testing, Inc.

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Suite Road, 27613 Bracing omes Creedmoor Raleigh, NC Floor Home Ř 0 / LGI 720 147

CURRENT DRAWING

RH

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DATE: 01/24/2023

First

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

PROJECT #: 3554.T0508

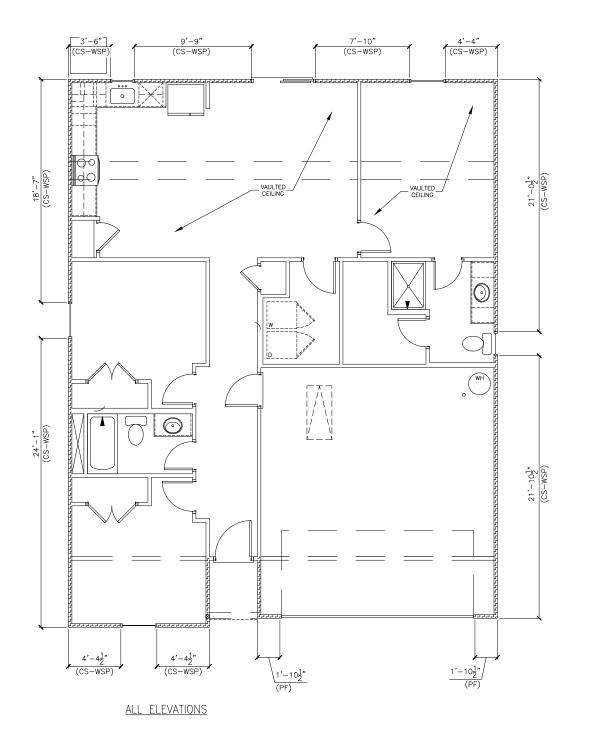
DRAWN BY: EO CHECKED BY: JCEF

ORIGINAL DRAWING

DATE PROJECT # 10.17.2022 T0508

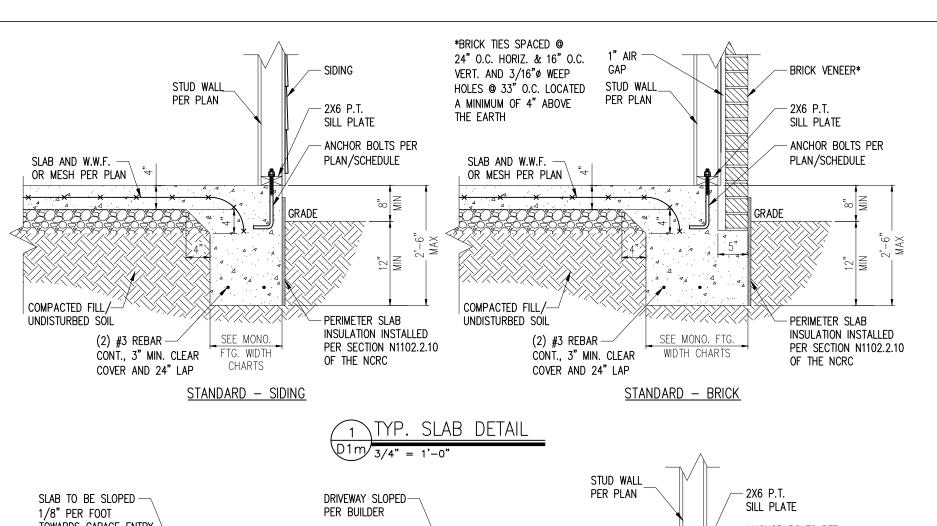
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

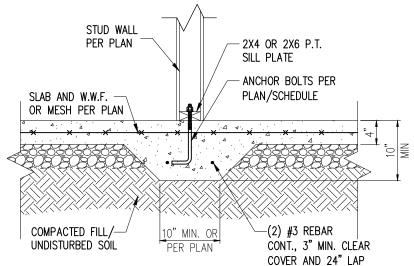
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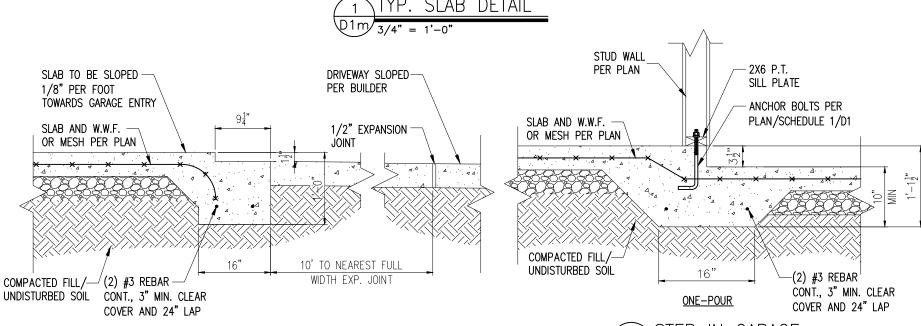
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TYP. THICKENED SLAB DETAIL

1 1 3 4" = 1'-0"



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

NOTE

AB AT GARAGE DOOR

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2

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

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

FOR ADDITIONAL INFORMATION.

SLOPES AND DEPRESSIONS.

- 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

# 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"*	
*E" PRIOR LEDGE HAS BEEN ARRED TO THE MONOLITHIS				

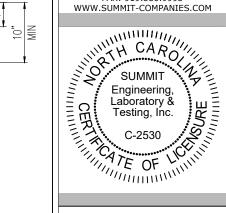
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC FOOTING WIDTH FOR BRICK SUPPORT



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

CURRENT DRAWING

DATE: 09.30.22

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

CHECKED BY: JCEF

ORIGINAL DRAWING

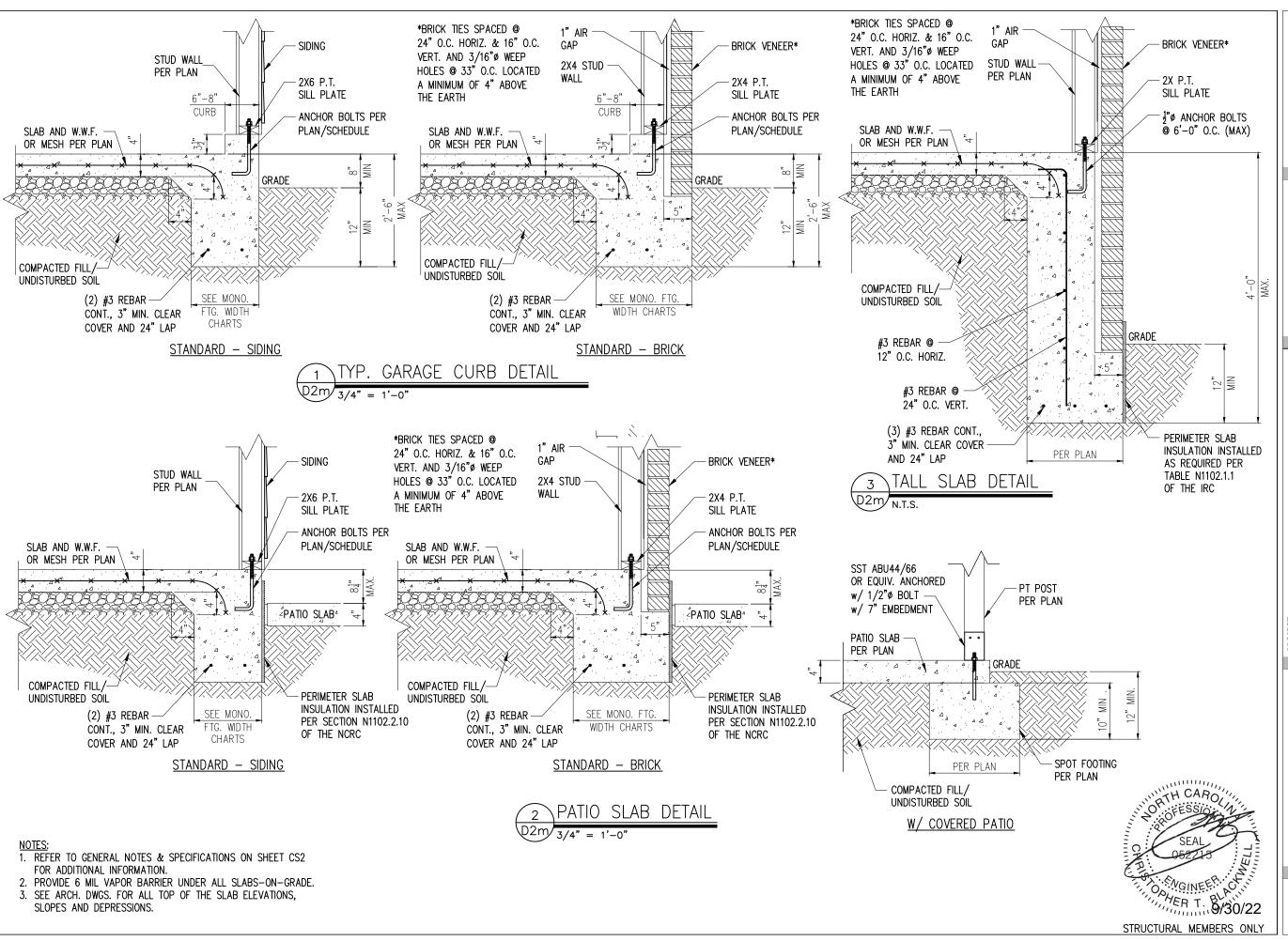
DATE 10/01/19

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24512

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

CURRENT DRAWING

DATE: 09.30.22

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB
CHECKED BY: JCEF

ORIGINAL DRAWING

DATE 10/01/19

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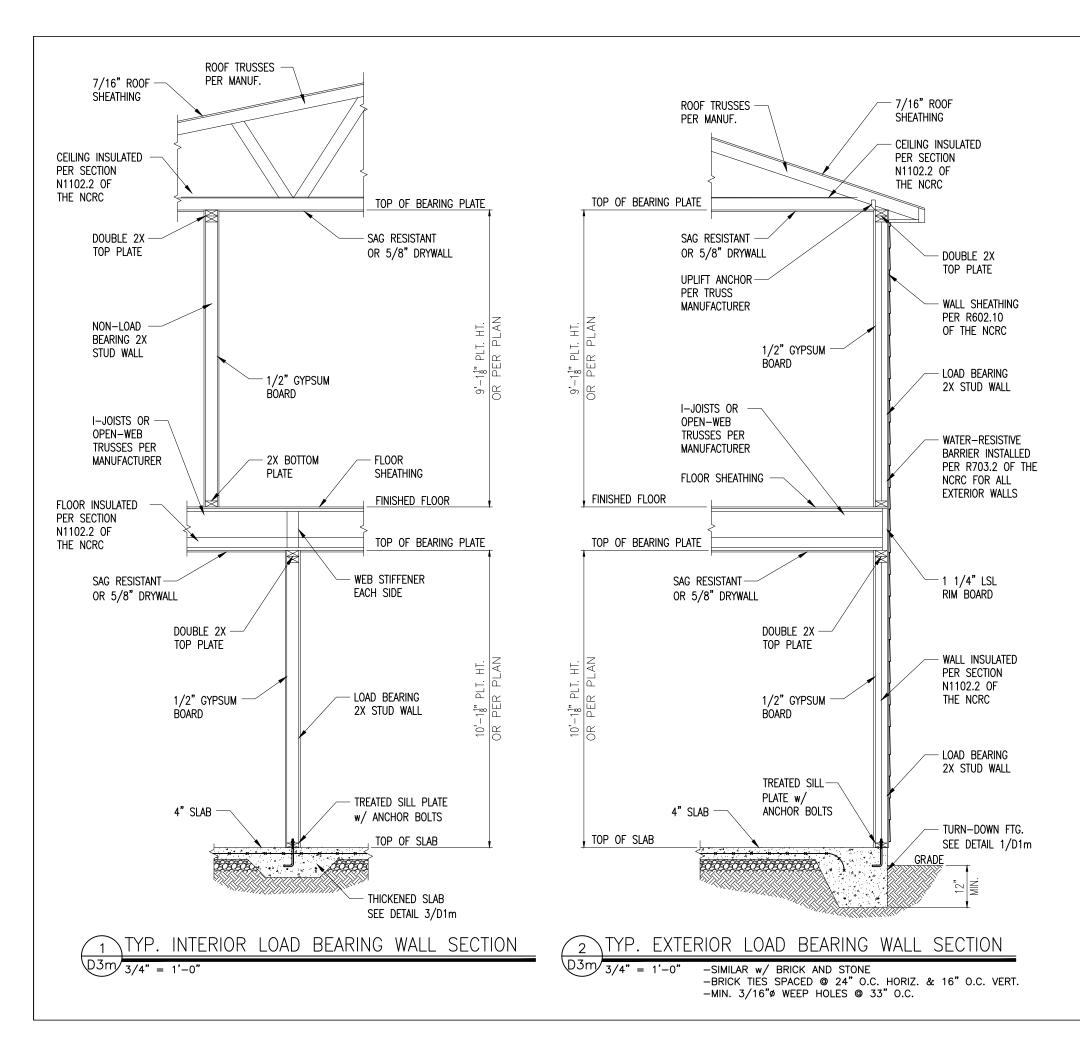
PROJECT #

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COMPLETE LIST OF REVISIONS

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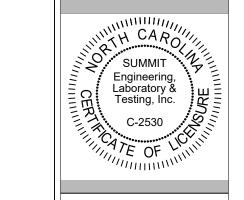
- NOTES: 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
- 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.



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

CURRENT DRAWING

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SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

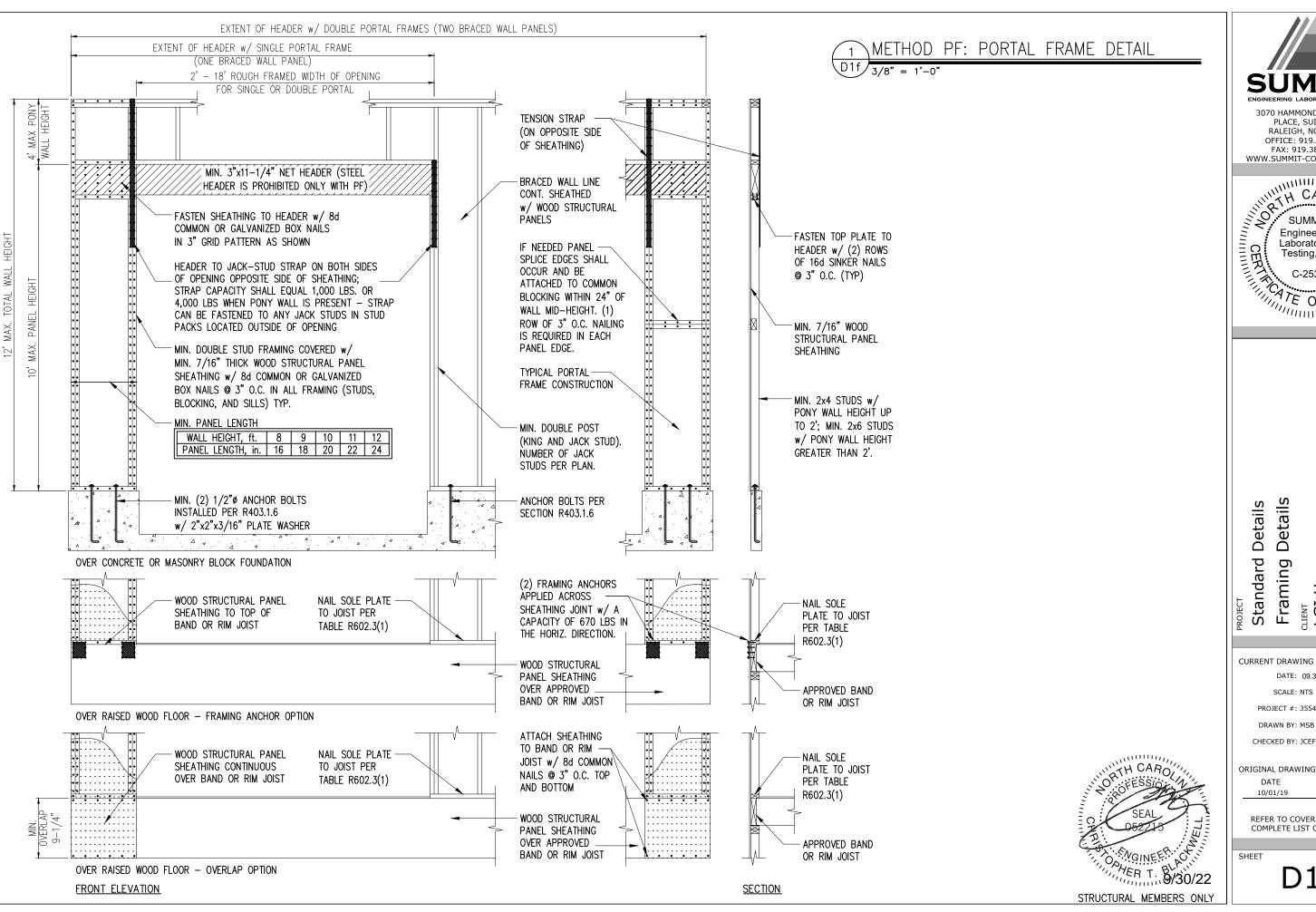
CHECKED BY: JCEF

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

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

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PRO1ECT #: 3554 T0040

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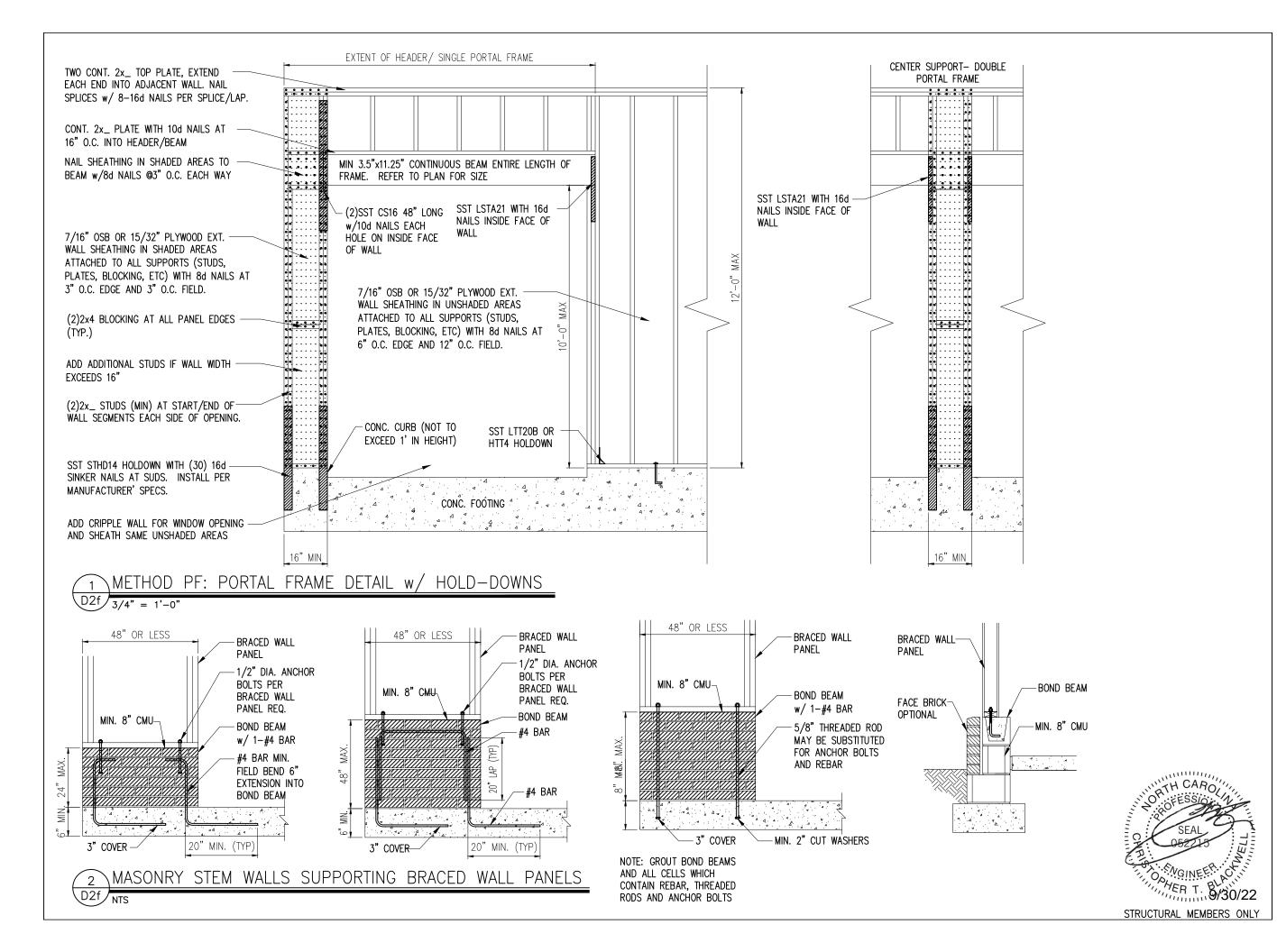
PROJECT # 24512

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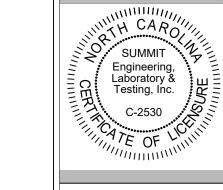
SHEET

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SCALE: NTS

PROJECT #: 3554.T0040

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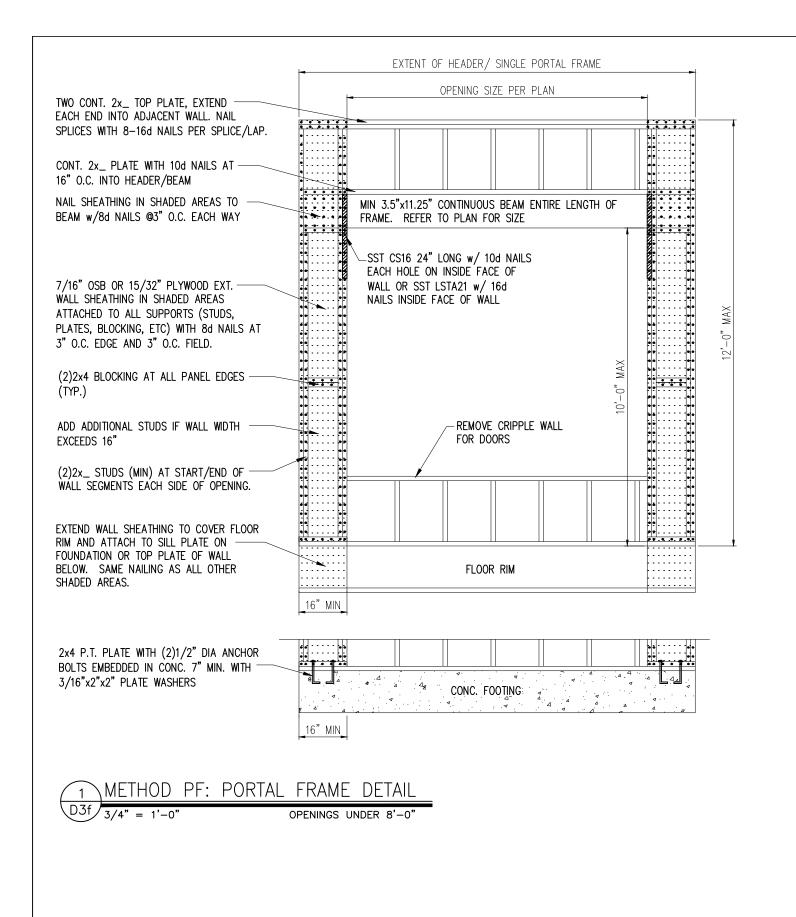
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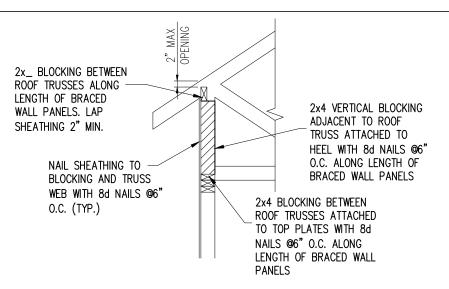
DATE 10/01/19 PROJECT # 24512

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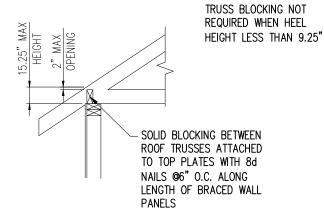
SHEET

D2f





HEEL HEIGHT BETWEEN 15.25" AND 48"

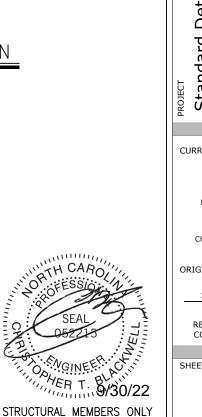


HEEL HEIGHT BETWEEN 9.25" AND 15.25"

TYP. WALL PANEL TO

2 ROOF TRUSS CONNECTION

D3f 1" = 1'-0"





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

CURRENT DRAWING

DATE: 09.30.22

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

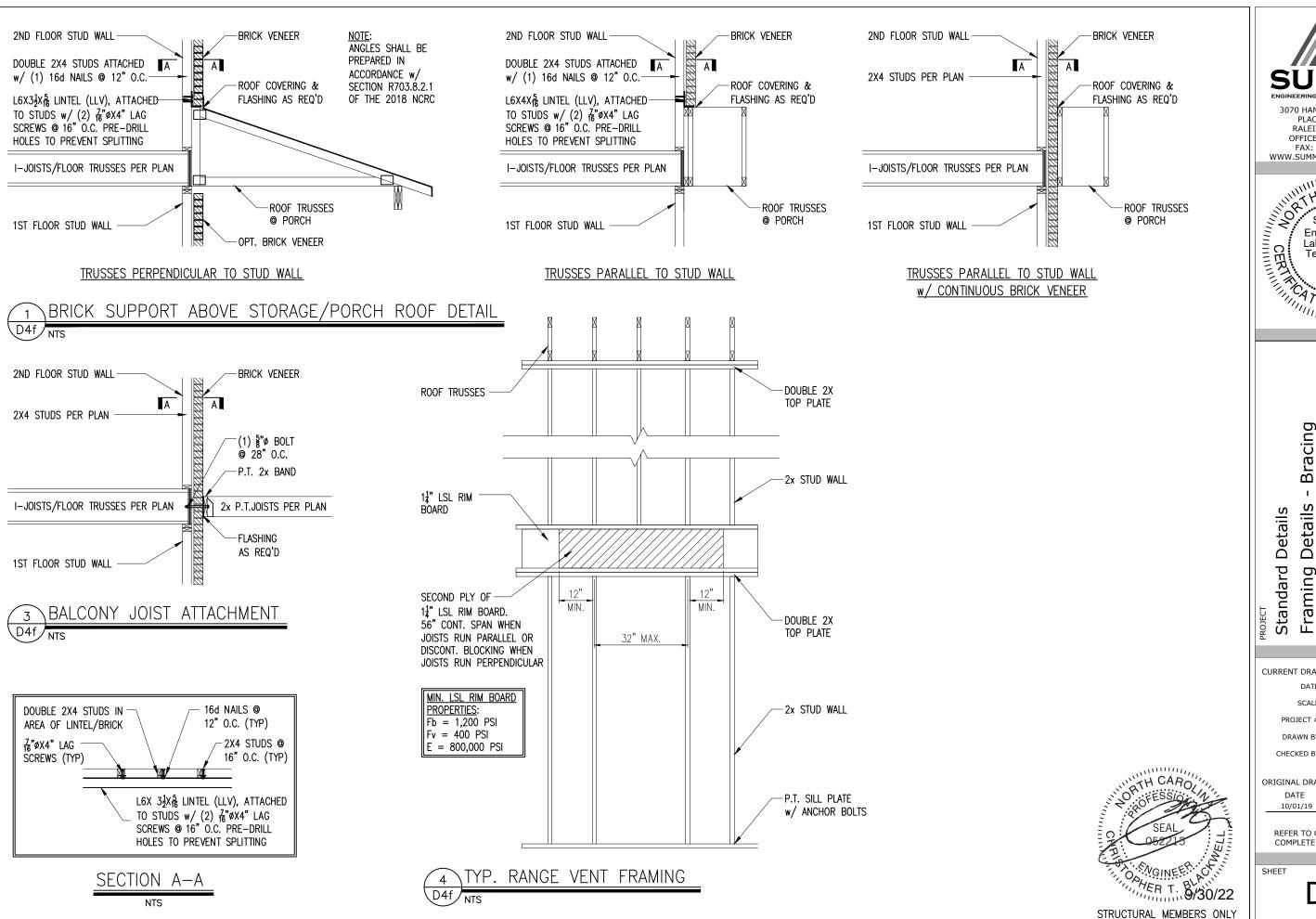
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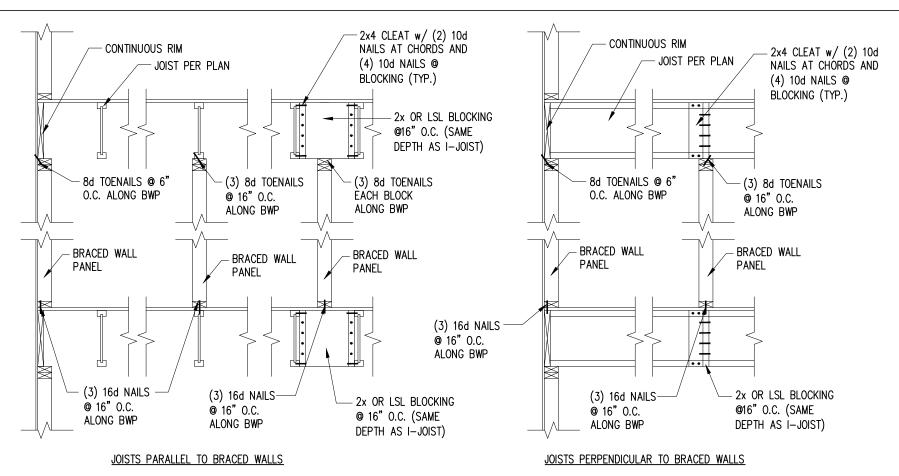
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D4f



PER PLAN SPECS. TYP. HOLD DOWN DETAIL

BRACED WALL

PANEL. REFER TO

PLAN FOR SPECS.

SST HOLD DOWN

PER PLAN SPECS.

2x FULL HEIGHT

STUDS w/ 16d

NAILS @ 6" O.C.

SST HOLD DOWN

BRACED WALL

PANEL. REFER TO PLAN FOR SPECS.

2x BLOCKING (2) 2x6 BEAM-@ 16" O.C. (UPSET) MIN. (2) BAYS

(2) 2x FULL HEIGHT

STUDS w/ 10d NAILS

@ 6" O.C. EACH PLY

2x FULL HEIGHT

STUDS w/ 16d

NAILS @ 6" O.C.

(2) 2x FULL HEIGHT

STUDS w/ 10d NAILS

@ 6" O.C. EACH PLY

STRAP EACH 2x4 C.J. TO STUD IN WALL ABOVE w/ SST CS16 (13" MIN. END LENGTH) OR EQUIV.

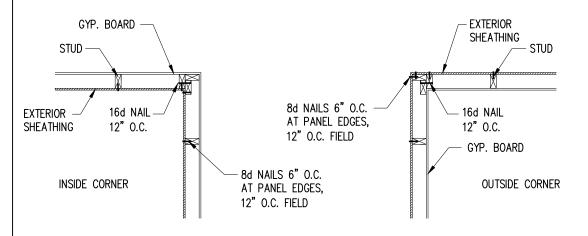
2x4s @ 16" O.C. ATTACH TO BEAM w/ SST LS30 w/ (6) 10d NAILS (OR EQUIV.) ATTACH TO EACH OTHER w/(4)10d NAILS

FRAMING OVER STAIRS

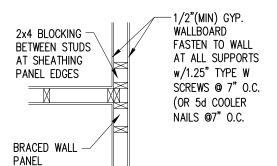
(2) 2X12 BEAM-

(FURRED DOWN)

TYP. WALL PANEL TO FLOOR/CEILING CONNECTION D5f



TYP. EXTERIOR CORNER FRAMING





D5f





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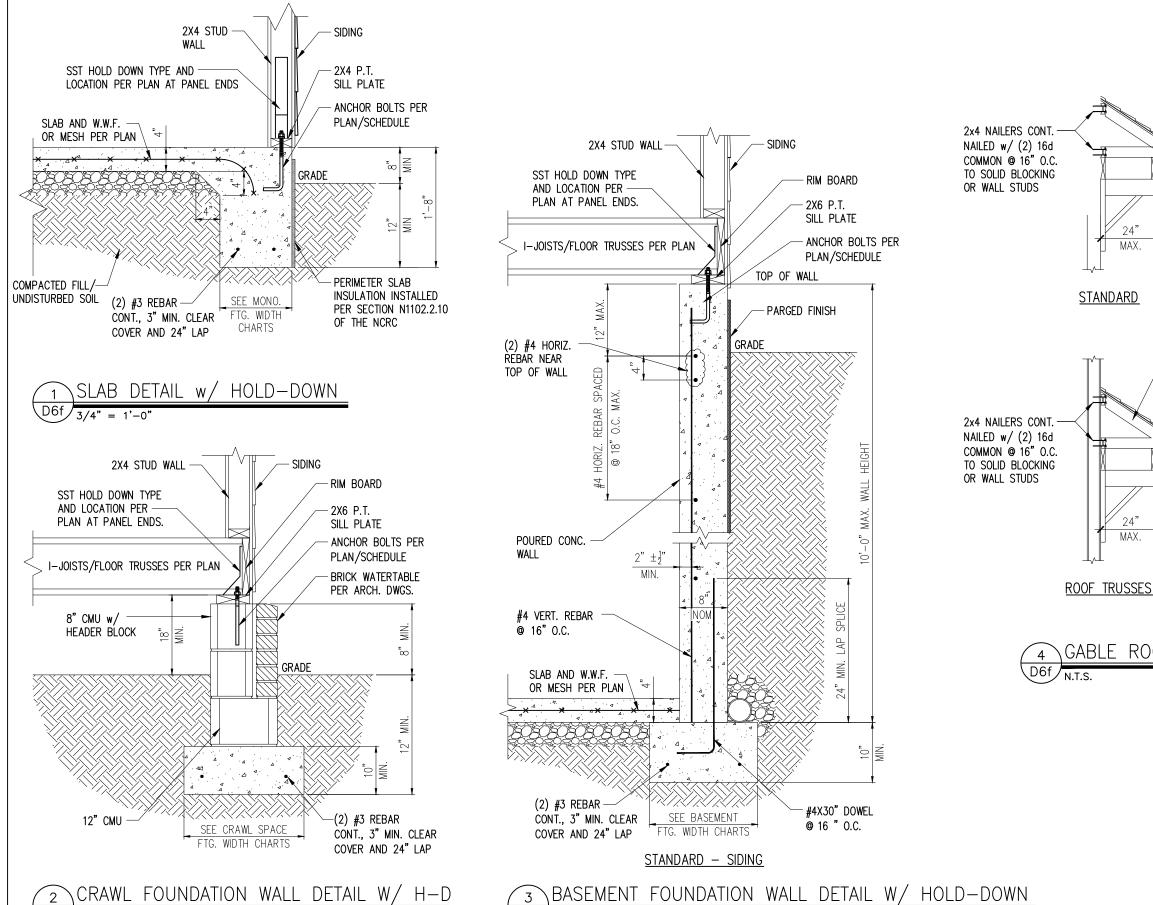
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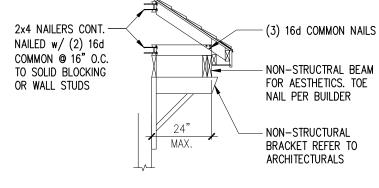
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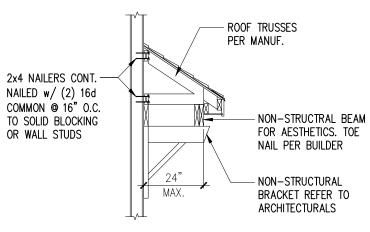
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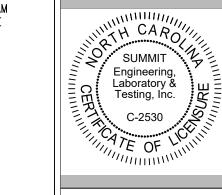








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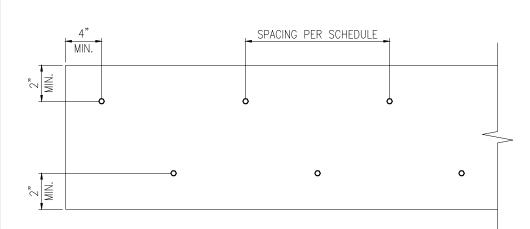
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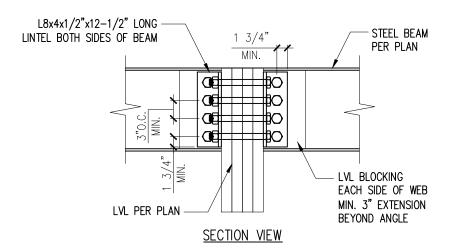
D6f

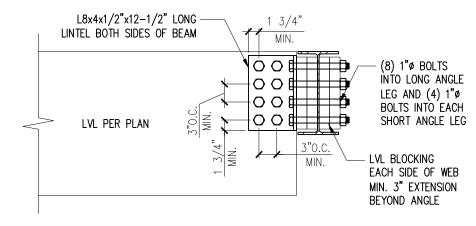
BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN



ELEVATION VIEW

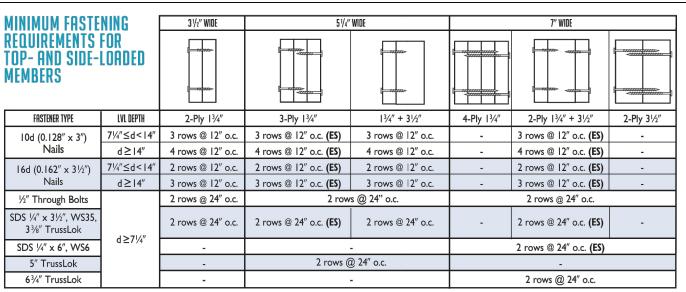
MULTI-PLY BEAM CONNECTION DETAIL





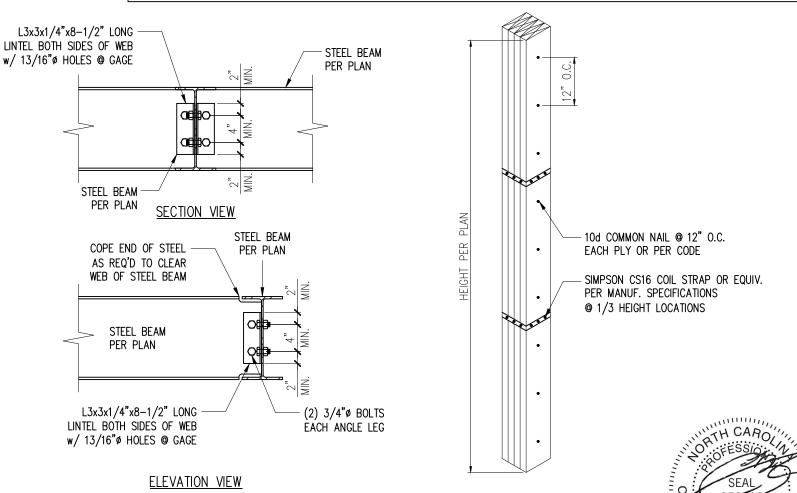
ELEVATION VIEW

TO STEEL DETAIL



STEEL TO STEEL DETAIL

- 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: (1) 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).

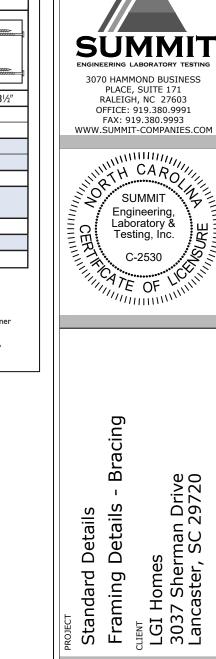


MULTI-PLY STUD

N.T.S

CONNECTION DETAIL

4+ PLIES



Details Details Standard Framing

CURRENT DRAWING

DATE: 09.30.22

SCALE: NTS

PRO1ECT #: 3554 T0040

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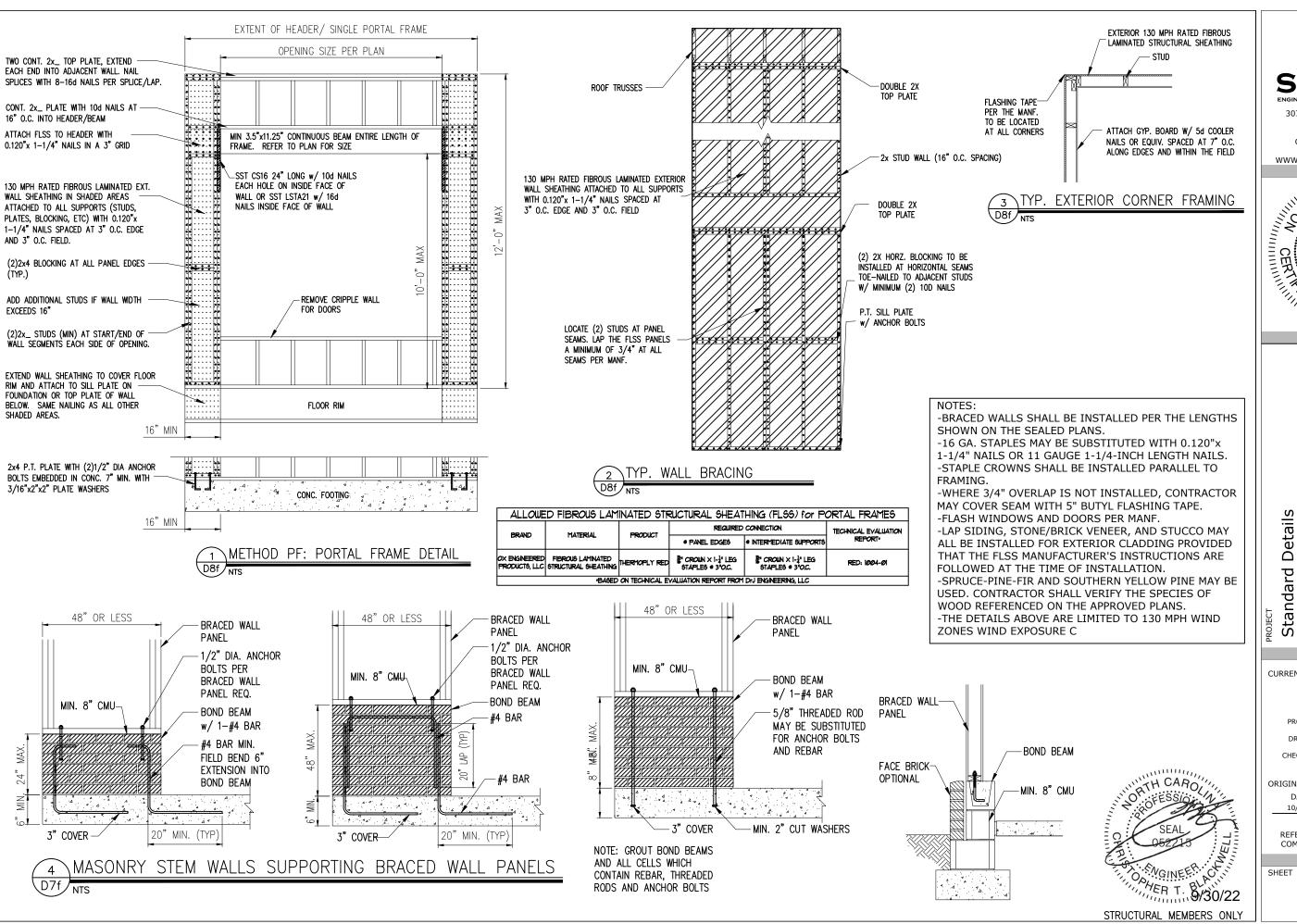
DATE 10/01/19 PROJECT # 24512

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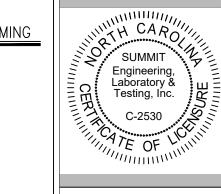
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