# VININGS



### DUNCANS CROSSING LOT 51

PLAN ID: 020123.1001

# 110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

# A0.0 COVER SHEET A1.1 FRONT ELEVATIONS A2.1 SIDE & REAR ELEVATIONS A3.1 SLAB FOUNDATIONS A5.1 FIRST FLOOR PLAN A6.1 ROOF PLANS A7.2 ELECTRICAL PLANS

TRIM LOCATION LAYOUT

A8.1

| AREA TABULATION       |      |  |  |  |
|-----------------------|------|--|--|--|
| FIRST FLOOR           | 1819 |  |  |  |
| TOTAL                 | 1819 |  |  |  |
| GARAGE                | 411  |  |  |  |
| FRONT PORCH ELEVATION | 33   |  |  |  |
| A D G (COVERED)       | 33   |  |  |  |
| REAR PATIO            | 120  |  |  |  |

#### GOVERNMENTAL CODES & STANDARDS

HOME TO BE BUILT TO CONFORM TO ALL APPLICABLE LOCAL CODES, PRACTICES AND STANDARDS

#### BUILDING CODE ANALYSIS / DESIGN CRITERIA

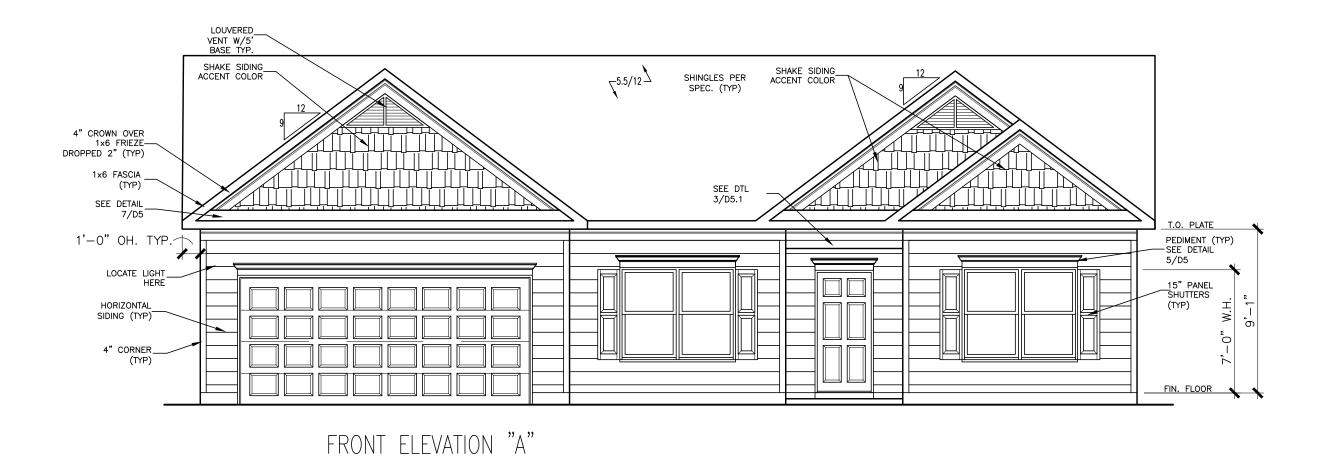
HOME TO BE BUILT TO MEET OR EXCEED ALL LOCAL CODES AND DESIGN CRITERIA

| PLAN REVISIONS |    |   |   |  |
|----------------|----|---|---|--|
| DATE           | BY | REVISION  | PAGE #                                      |  |
| 3/27/2019      | MM | Added callout for detail 3/D5.1 for A massing   | A1.1-A1.9.1                                 |  |
| 8/2/2019       | AW | PCR # 3105 Removed column at Foyer/Dining   | A5.1, A5.1.1,<br>A5.1.2, A7.2,<br>A8.1      |  |
| 10/11/2019     | AW | PCR #3301 Relocated door for optional 2nd flr to the top of the stairs (see revision sht.)                      | A5.1.1, A5.3,<br>A5.4.1, A7.2,<br>A7.3      |  |
| 12/18/2019     | AW | PCR #3464 Remove outlet on knee wall behind kitchen sink and reduce overhang at end of peninsula to 6" per code | A5.1-A5.1.2,<br>A7.2                        |  |
| 2/19/2020      | AW | PCR #3621 Remove hdr. between Dining & Lndry Hall and reduce length of wall next to refrig. 12"                 | A5.1-A5.1.2,<br>A7.2, A8.1                  |  |
| 2/20/2020      | AW | Added new Obath configuration to allow for separate tub and shower and created basement plan only Obath options | A3.1, A3.1.1,<br>A5.1-A5.1.2,<br>A7.2, A8.1 |  |
| 11/1/2020      | MM | PCR #4201 Relocated pendant lights  | A7.2  |  |
| 5/1/2021       | MM | Removed unfinished 2nd flr option   | A5.3,A7.3                                   |  |
| 9/20/2021      | AW | Added dim to wall next to refrig. and shifted opening over 4"   | A5.1-A5.1.2                                 |  |
| 12/1/2021      | AW | Noted applicable walls on opt. room over garage to be 2x6 and built into the attic truss                        | A5.3  |  |
| 12/5/2022      | BB | REVISED ROOF PITCHES ON A, B AND C MASSING<br>AND ALL ELEVATIONS OF RANCH PLAN                                  | A1.19,<br>A2.1-A2.3<br>A6.1-A6.3            |  |
| 10/1/2023      | AW | PCR #5379 changed Obath vanity 2x6 wall to 2x4 wall and relocated radon vent                                    | A3.1-A8.1                                   |  |

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

SEE SHEET D3 OF SDH TYPICAL DETAILS FOR SOFFIT DETAILS PER SOFFIT MATERIAL

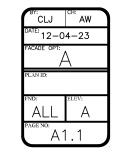
### DUNCANS CROSSING LOT 51



 $\frac{}{\text{SCALE}: 3/16"} = 1'-0"$ 

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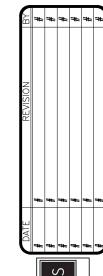
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# SHINGLES PER SPEC (TYP) 12 15 SHINGLES PER SPEC (TYP) 9/12 LEFT ELEVATION "A" SOME: 1/8" = 1"-0"

RIGHT ELEVATION "A"

# DUNCANS CROSSING LOT 51

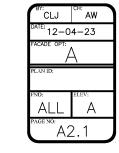


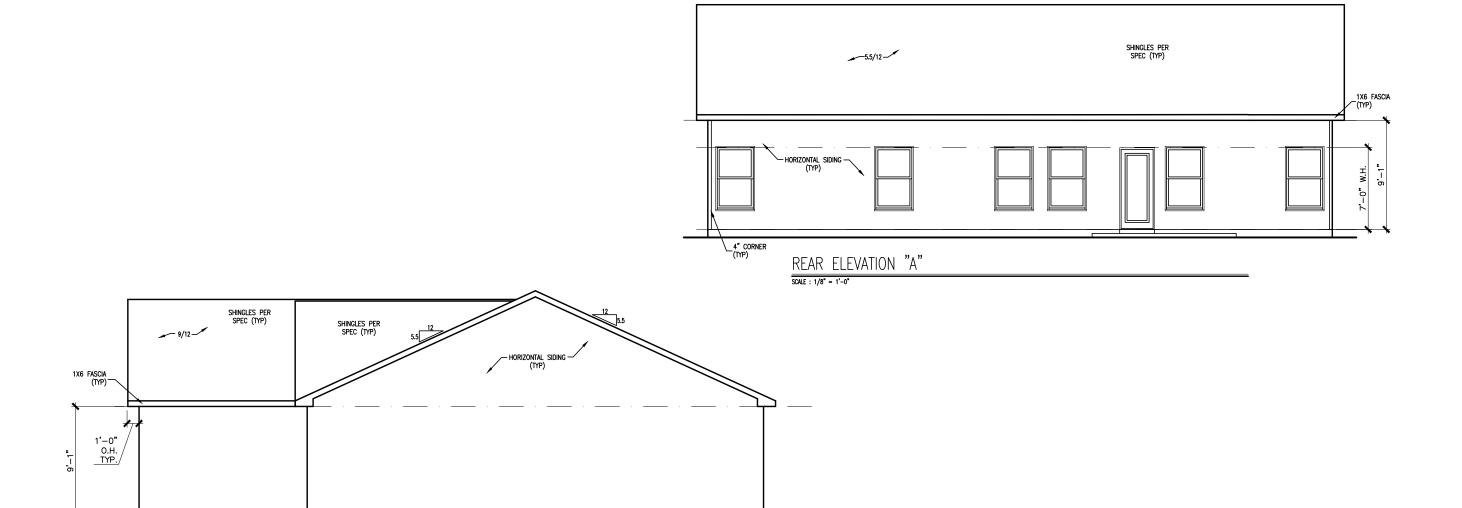
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ELEVATIONS
SIDES & REAR
VININGS

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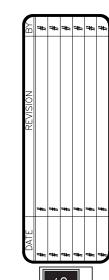


# DROP 4" BELOW HOUSE SLAB START AT THIS CORNER TO LAY OUT PLATES DROP 4" BELOW HOUSE SLAB DROP 4" BELOW HOUSE SLAB 2'-112" 2'-1½"

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

# DUNCANS CROSSING LOT 51

REFER TO DETAIL 3/D1 FOR BRICK LEDGE DETAIL WHEN BRICK VENEER IS CHOSEN

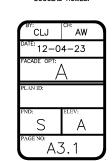




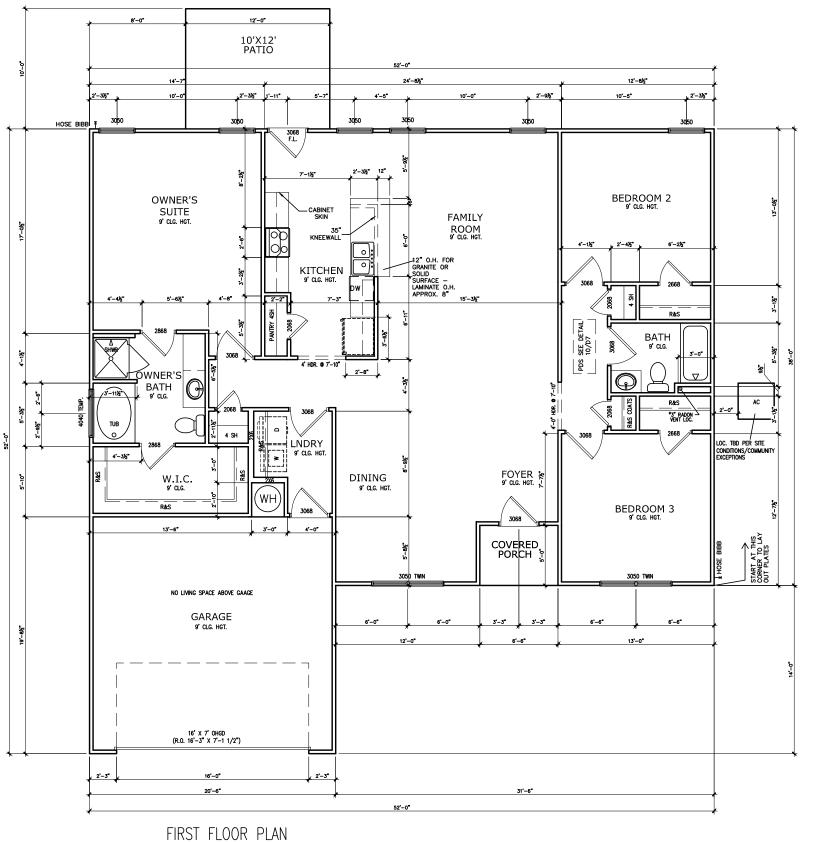
FOUNDATION PLAN SLAB PLAN VININGS

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## DUNCANS CROSSING LOT 51



\*RADON VENT PROVIDED PER LOCAL CODE

REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12, D12.1, D12.2 & D12.3

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FLOOR

FIRST

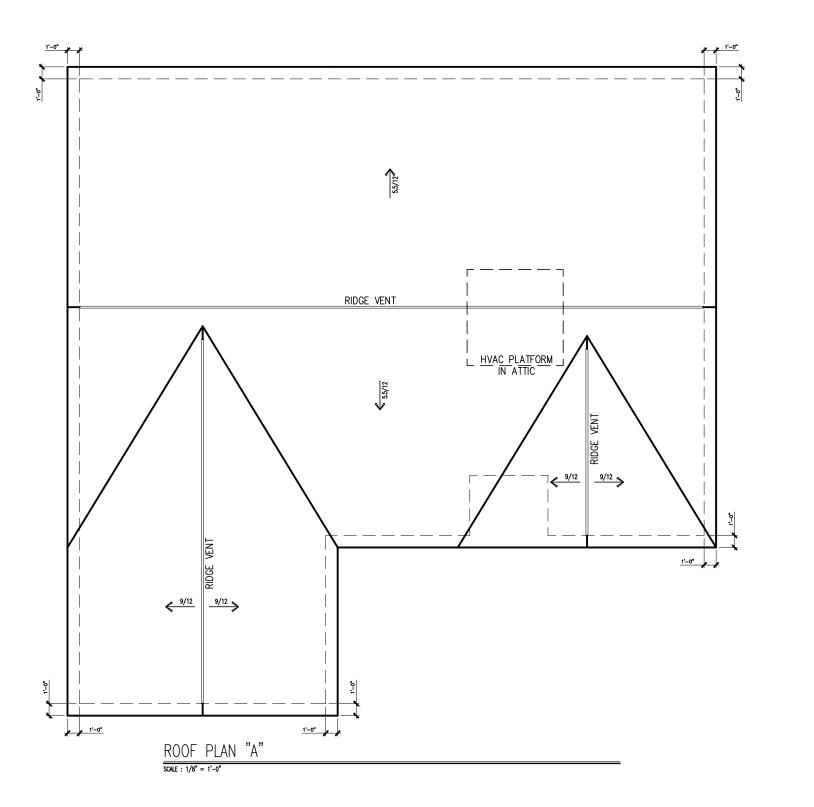
FLOOR PLAN

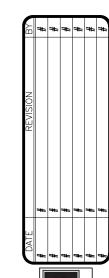
VININGS

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# DUNCANS CROSSING LOT 51



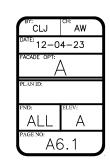




ROOF PLAN
ROOF LAYOUT
VININGS

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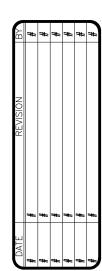
# 10'X12' PATIO DO NOT INSTALL 220V OUTLET UNLESS ELEC.\ RANGE SELECTED BEDROOM 2 OWNER'S SUITE **FAMILY** ROOM KITCHEN\_ OWNER'S BATH LNDRY **FOYER** .\_○ w.i.c. WH Ø DINING BEDROOM 3 GARAGE FIRST FLOOR ELECTRICAL PLAN

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

# DUNCANS CROSSING LOT 51

| ELECTRICAL LEGEND                                      |                                  |                   |                                   |  |  |
|--|----------------------------------|-------------------|-----------------------------------|--|--|
| \$   | SWITCH                           |                   | TV                                |  |  |
| \$3  | 3 WAY SWITCH                     | Ф                 | 120V RECEPTACLE                   |  |  |
| \$4  | 4 WAY SWITCH                     | •                 | 120V SWITCHED<br>RECEPTACLE       |  |  |
| Ø  | CEILING FIXTURE                  | •                 | 220V RECEPTACLE                   |  |  |
| - <b>∳</b> <sub>K</sub>                                | KEYLESS                          | P <sub>GFCI</sub> | GFCI OUTLET                       |  |  |
| Ą  | WALL MOUNT FIXTURE               | PAFCI             | ARCH FAULT CIRCUIT<br>INTERRUPTER |  |  |
| 0  | CEILING FIXTURE                  | † <sub>GL</sub>   | GAS LINE                          |  |  |
| •  | FLEX CONDUIT                     | † <sub>wL</sub>   | WATER LINE                        |  |  |
| СН   | CHIMES                           | 1                 | HOSE BIBB                         |  |  |
| PH   | TELEPHONE                        | \$                | FLOOD LIGHT                       |  |  |
| SD/Co  | SMOKE DETECTOR & CARBON MONOXIDE |                   | 1x4 LUMINOUS<br>FIXTURE           |  |  |
| so   | SECURITY OUTLET                  |                   | OFILINO FIN                       |  |  |
|  | GARAGE DOOR<br>OPENER            |                   | CEILING FAN                       |  |  |
| ■  | EXHAUST FAN                      |                   | ELECTRICAL<br>WIRING              |  |  |
| OIII   | FAN/LIGHT                        | <del>-</del>      | CEILING FIXTURE                   |  |  |
| ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES             |                                  |                   |                                   |  |  |
| APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE) |                                  |                   |                                   |  |  |
| BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR         |                                  |                   |                                   |  |  |
| KITCHEN PENDANT LIGHTS 33" ABOVE COUNTER TOP           |                                  |                   |                                   |  |  |
| TWO STORY FOYER FIXTURE 96" ABOVE FINISHED FLOOR       |                                  |                   |                                   |  |  |
| CEILIN   | NG FAN                           | 96" ABO           | VE FINISHED FLOOR                 |  |  |

NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER



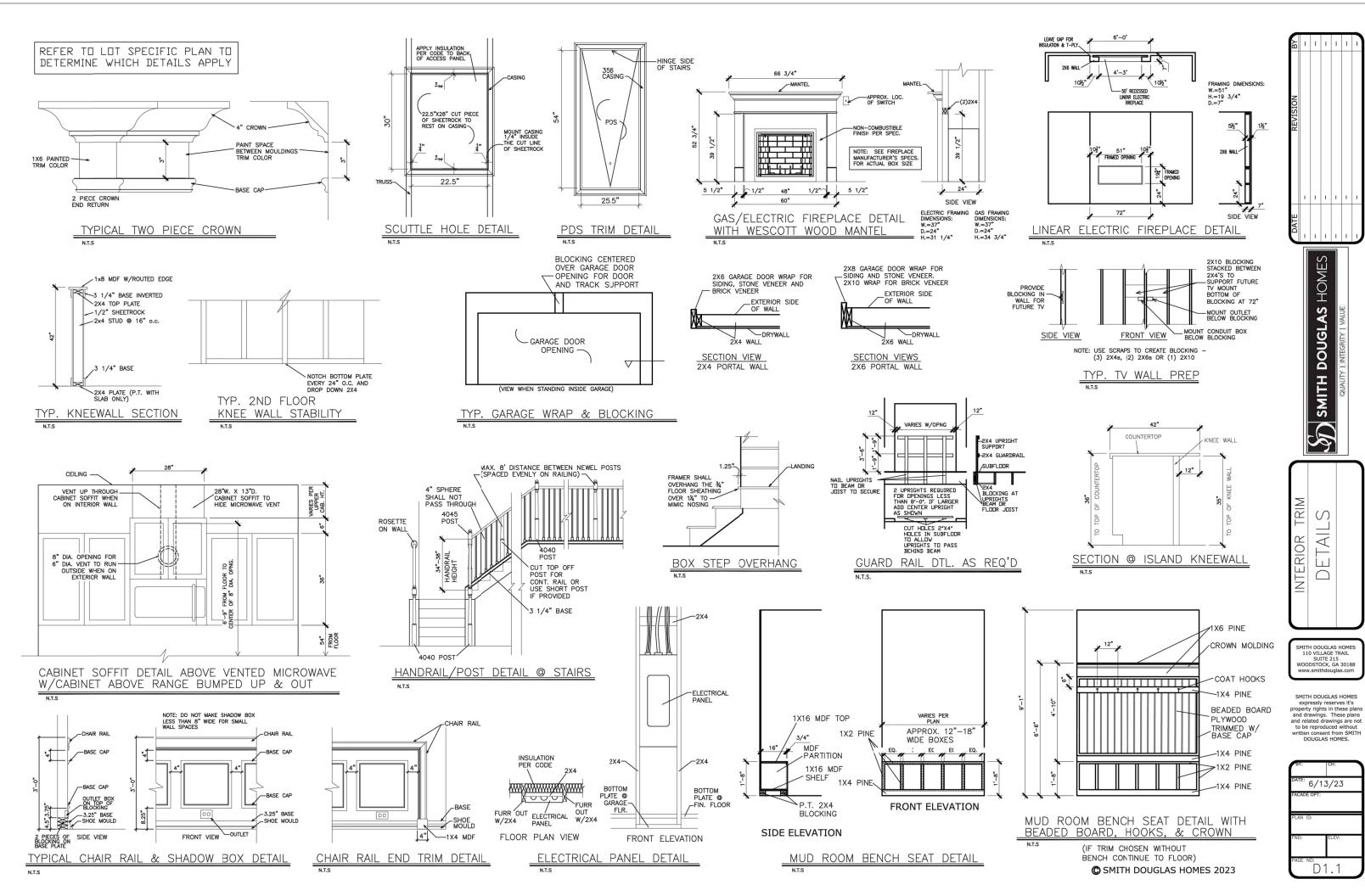
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ELECTRICAL PLAN FIRST FLOOR VININGS

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#### DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ Residential ☒

#### Applicable Building Codes:

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

#### Design Loads:

| $\sim$ |      |
|--------|------|
| 1.     | Roof |
|        |      |

| I.I LIVE                             |         |
|--------------------------------------|---------|
| 1.2 Dead                             | 10 PSF  |
| 1.3 Snow                             | 15 PSF  |
| 1.3.1 Importance Factor              | 1.0     |
| 2. Floor Live Loads                  |         |
| 2.1 Typ. Dwelling                    | 40 PSF  |
| 2.2 Šleeping Areas                   | 30 PSF  |
| 2.3 Balconies (exterior) and Decks   | 40 PSF  |
| 2.4 Garage Parking                   | 50 PSF  |
| 3. Floor Dead Loads                  |         |
| 3.1 Conventional 2x                  | 10 PSF  |
| 3.2  -Joist                          |         |
| 3.3 Floor Truss                      | 15 PSF  |
| 4. Ultimate Wind Speed (3 sec. gust) | 130 MPH |
| 4.1 Exposure                         | В       |
| 4.2 Importance Factor                | 1.0     |
| 4.3 Wind Base Shear                  |         |

| 4.3.2 Vy =                       |    |
|----------------------------------|----|
| 5. Component and Čladding (in PS | F. |

4.3.1 Vx =

| MEAN<br>ROOF HT. | UP TO 30'  | 3Ø'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. Seismic

| 6.1 Site Class        | $\cup$ |
|-----------------------|--------|
| 6.2 Design Category   | C      |
| 6.3 Importance Factor | 1.0    |
| 64 Seismic Use Group  | 1      |

6.5 Spectral Response Acceleration

6.5.1 Sms = 8q 6.5.2 Sml = %q

6.6 Seismic Base Shear

6.6.1 Vx =

6.6.2 Vy =

6.7 Basic Structural System (check one)

■ Bearing Wall

☐ Building Frame ☐ Moment Frame

☐ Dual w/ Special Moment Frame

☐ Dual w/ Intermediate R/C or Special Steel

☐ Inverted Pendulum

6.8 Arch/Mech Components Anchored?...

6.9 Lateral Design Control: Seismic Wind 🛛 7. Assumed Soil Bearing Capacity......

2000bsf

20 065



STRUCTURAL PLANS PREPARED FOR:

#### VININGS LH

PROJECT ADDRESS:

TBD

OWNER:

Smith Douglas Homes - Raleigh 2520 Reliance Ave Apex, NC 27539

#### ARCHITECT/DESIGNER:

Smith Douglas Homes 110 Village Trail, Suite 215 Woodstock, GA 30188

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineer of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory & Testing, P.C. 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   |
| ΕW  | EACH WAY               | ŤJ  | 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, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by SMITH DOUGLAS 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.

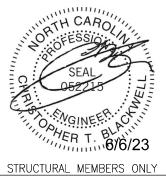
#### SHEET LIST:

| Sheet No. | Description                            |  |  |
|-----------|--|--|--|
| CSI       | Cover Sheet, Specifications, Revisions |  |  |
| CS2       | Specifications Continued               |  |  |
| S1.Øm     | Monolithic Slab Foundation             |  |  |
| S1.Øs     | Stem Wall Foundation                   |  |  |
| SI.Øc     | Crawl Space Foundation                 |  |  |
| S1.0b     | Basement Foundation                    |  |  |
| S2.Ø      | Basement Framing Plan                  |  |  |
| \$3.Ø     | First Floor Framing Plan               |  |  |
| S4.Ø      | Second Floor Framing Plan              |  |  |
| S5.Ø      | Roof Framing Plan                      |  |  |
| S6.0      | Basement Bracing Plan                  |  |  |
| ST.Ø      | First Floor Bracing Plan               |  |  |
| 58.Ø      | Second Floor Bracing Plan              |  |  |

#### REVISION LIST:

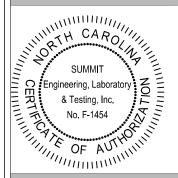
| Revision<br>No. | Date     | Project<br>No. | Description                                 |
|-----------------|----------|----------------|---|
| 1               | 10.29.18 | 3832.154R      | Added optional bonus room.                  |
| 2               | 2.21.19  | 3832.226       | Added optional unfinished basement.         |
| 3               | 3/5/19   | 3832.226R      | Made corrections to header sizes            |
| 4               | 10/17/19 | 3832.226R2     | Moved door to second floor to top of stairs |
| 5               | 7/7/2Ø21 |                | Added LIB Option                            |
| 6               | 5.17.23  | 3832.TØ859     | Updated the owner's bath                    |
|                 |          |                |   |
|                 |          |                |   |
|                 |          |                |   |
|                 |          |                |   |
|                 |          |                |   |
|                 |          |                |   |
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|                 |          |                |   |
|                 |          |                |   |

Duncans Lot 51





Suite 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



Douglas Homes . Reliance Ave x, NC 21539 Coversheet

CURRENT DRAWING

Vinings LH

DATE: Ø5/17/2@23

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

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT \* 08/07/2018 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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, P.C. (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.
- 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 SFR or SUMMIT
- 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 the 2018 North Carolina Residential Code (NCRC) and any local codes or restrictions

#### FOUNDATIONS:

- Foundations shall be constructed in accordance with chapter 4 of the 2018 NC Residential Building Code (Special consideration shall be given to Chapter 45 in wind zones above 130mph)
- Footing sizes based on a presumptive soil bearing capacity of 2000 PSF. Contractor is solely responsible for verifying the suitability of the site soil conditions at the time of construction
- Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCRC
- 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.
- 6. Any fill shall be placed under the direction or recommendation of a licensed professional engineer. 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.
- 8. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bearing in the middle third of the piers. Pilasters to be bonded to perimeter foundation wall
- 10. Crawl spaced to be graded level and clear of all debris
- Provide foundation waterproofing and drain with positive slope to outlet as required by site conditions
- 12. Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2018 NCRC

- 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".
- 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 SER
- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction"
- 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.
- 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.
- 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 (WWF.) 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. Fibermesh may be used in lieu of W.W.F.

#### 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 CIII6, 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.
- 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. Lab 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 footing.
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

#### WOOD FRAMING:

- 1. 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 Spruce-Pine-Fir (SPF) #2.
- 2. LyL or PSL engineered wood shall have the following minimum design values:
  - E = 1,900,000 bsi
  - Fb = 2600 psi
  - Fv = 285 psi 23
- 24 Fc = 700 psi
- 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.
- 5. Lag screws shall conform to ANSI/ASME standard B18.2.1-19.81. 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 SPF#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.
- 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 fully blocked at all floor levels to ensure proper load transfer.
- 9. Multi-ply beams shall have each ply attached wth (3) 10d nails @ 24" OC.
- 10. Flitch beams and four and five ply beams shall be boited together with (2) rows of 1/2" dia. through bolts staggered @24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, 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
- 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.
- 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
- 5. 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.

#### 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  $\Delta P \Delta$
- 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 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.
- 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.

#### EXTERIOR WOOD FRAMED DECKS:

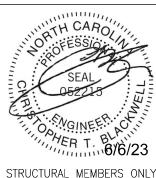
Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

#### STRUCTURAL STEEL:

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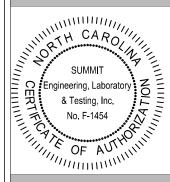
- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and of the manual of Steel Construction "Load Resistance" Factor Design" latest editions.
- All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted.
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS DI.I. Electrodes for shopt and field welding shall be class ETOXX. All welding shall be performed by a certified welder per the above standards







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Raleigh Homes iglas l ance 27539 Coversheet Dougle Relian S Smith Smith 520

CURRENT DRAWING

Vinings LH

DATE: 05/17/2023

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

PROJECT \*: 3832,TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT \* 08/07/2018 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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#### FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL

- LEONDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL APENDMENTS.

  STRUCTURAL CONCRETE TO BE Fs. ± 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.

  FOOTINGS TO BE PLACED ON INDISTRIBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BEFORECHMENT OFFICIAL.

  FROOTINGS SIZES BASED ON A PRESIDENTIVE SOIL BEARING CAPACITY OF 2000 PSE. CONTRACTOR 15 SOLELY RESPONSIBLE FOR VERFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.

  FROOTINGS AND PIERS SHALL BE CONTERED UNDER THEIR RESPECTIVE ELIPENTS, PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONEY.

  MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONEY WALLS TO BE AS SPECIFIED IN SECTION ROUGH FOR THE 2008 NORTH CAROLINA RESIDENTIAL BILLIANG CODE.

  BILLIANGS CODE BONDED TO PERIFETER FOUNDATION WALL.

  FROVIDER FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO CONTRACTORY.

  PROVIDED FOR PERIFETER IN SILE TO PROPER ALL FOUNDATIONS PER 20'98 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

  PROVIDED FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO CONTRACTORY.

  CAROLINA RESIDENTIAL BUILDING CODE.

  CORRELE FOUNDATION WALLS REQUIRED TO ACCOMMODATE BRICK VENEERS.

  CAMBLE SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DETERS.

  FRONDATION ANCHORAGE SHALL BE CONSTRUCTED FER THE 20'98 NORTH CAROLINA RESIDENTIAL CODE SECTION REASILS, MINIMUM IN TO INAGONEY OR CONCRETE. ANCHOR MEASILS MINIMUM IN DIRECTION ANCHORAGE PICKLY SHOULD BE THE THE THE BOD OF EACH PLATE SECTION, MICHOR BOLTS SHALL BE IT "FROM THE BOD OF EACH PLATE SECTION, MICHOR BOLTS SHALL BE IT "FROM THE BOD OF EACH PLATE SECTION, MICHOR BOLTS SHALL BE IT "FROM THE BOD OF EACH PLATE SECTION, MICHOR BOLTS SHALL BE IT FROM THE BOD OF EACH PLATE SECTION, MICHOR BOLTS SHALL BE IT FROM THE BOD OF EACH PLATE SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS 9C = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST CL = CENTER LINE 9J = 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"
- ALL PIERO TO DE IO" IN" IN "MASONEY AND ALL PILASTERS TO DE 8" IN" IN MASONEY, THORAL (UND)

  WALL PROTINGO TO DE CONTINUOS CONCRETE, SIZES PER STRUCTURAL PLAN, A FOUNDATION EXCAVATION DESCRIVATION SHOULD BE CONDUCTED BY A PROFESSIONAL, GEOTECHNICAL ENSINEER, OR HIS QUALIFIED REPRESENTATIVE FI ISOLATED AREAS OF VILLDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOLLS ARE OBSERVED IN THE POTING EXCAVATIONS AT THE TIPE OF CONSTRUCTION, SUPPRIT ENSINEERING, LABORATORY (1 ESTING, P.C. MUST DE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACETIMIT.

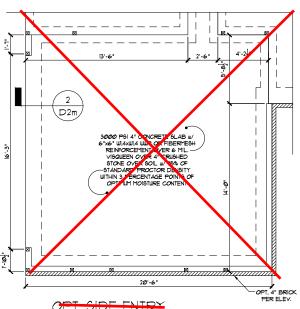
  ALL ROOTINGS 1 SLABS ARE TO BEAR ON MOISTURBED SOLL OR 5% COMPACTED FILL, VERTIFED BY ENGINEER OR CODE OFFICIAL.

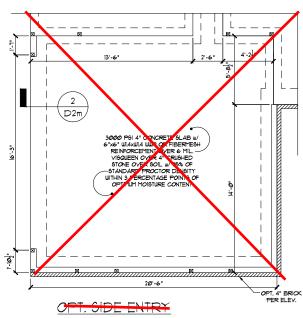
REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLDOWNS, ADDITIONAL INFO, PER SECTION R60210.4 AND FIGURE R60210.3(4) OF THE 2018 NCRC.

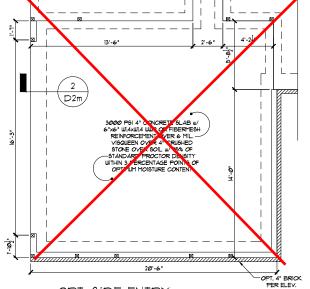
NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER, UNO

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED REVISED ON 10/11/2015. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWITHIN TENERRING, LABORATORY I TESTING, P.C. PANY CHANGES ARE HADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SWITHIN TENERRING, LABORATORY I TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WEND WESD WITH ARCHITECTURAL PLANS WEND WESD WITH ARCHITECTURAL PLANS WEND WESD WITH ARCHITECTURAL PLANS OF THE ADEQUACY OF THESE STRUCTURAL PLANS WEND WESD WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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 I PER TABLE R405.1





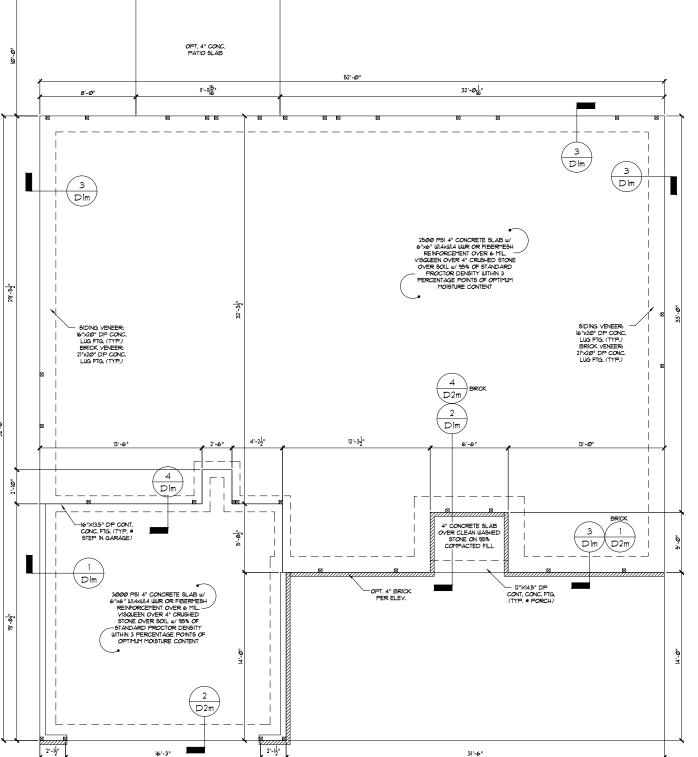




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Regineering, Laboratory

No. F-1454

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क् <u>Ø</u> <u>8</u> Fnd Homes Ave Slab Douglas F Reliance ( ), NC 21535 Monolithic PROJECT Vinings Дрех, CLIENT Smith 1 2520 1

CURRENT DRAWING

DATE: Ø5/17/2@23

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

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT \* Ø8/Ø1/2Ø18 3832.l54

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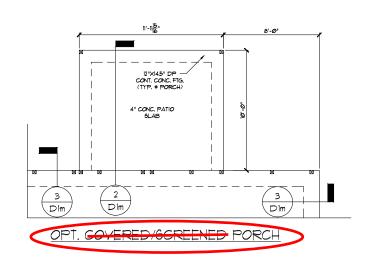
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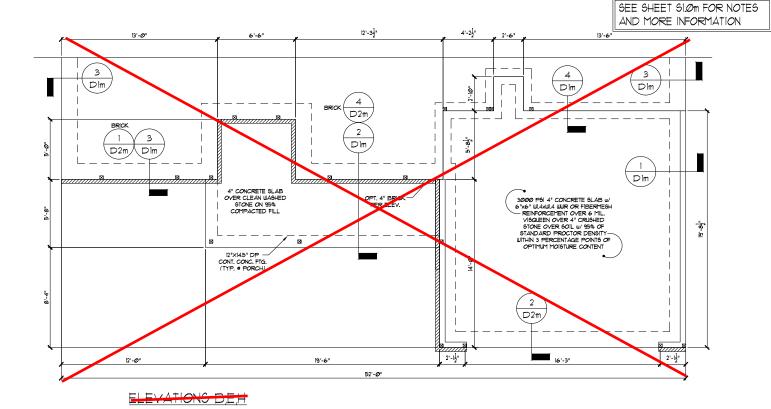
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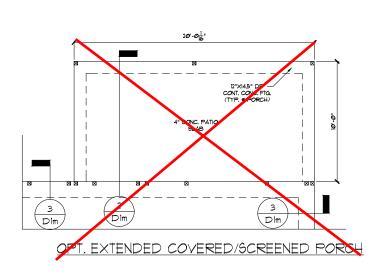
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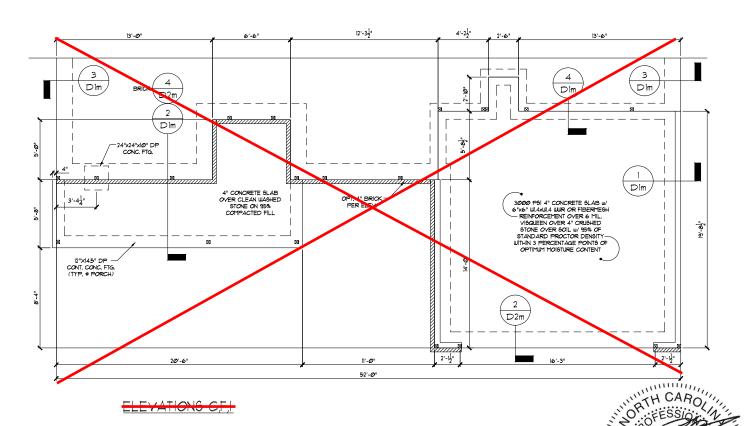
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION









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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION

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No. F-1454
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PROJECT
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Monolithic Slab Fnd.

CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave

Apex, NC 27539

CURRENT DRAWING

DATE: Ø5/17/2Ø23

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

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

 DATE
 PROJECT \*

 08/01/2018
 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

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#### GENERAL STRUCTURAL NOTES:

- SJ = SINGLE JOIST F1 = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER OC = ON CENTER PL = POINT LOAD DJ = DOUBLE JOIST GT = GIRDER TRUSS SC = STUD COLUMN
  EE = EACH END
  TJ = TRIPLE JOIST
  CL = CENTER LINE
- NOTE:

NOTE: SHADED WALLS INDICATE LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

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

[](WH)[ (2)S.C. L (2)5,C, \_ THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SHITT POIGLAS HOTELS CONTINETED PREVISED ON <u>POILORS</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWITHIT ENGINEERING, LADORATORY I TESTING, P.C. FANY CHANGES ARE HADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SWITHIT ENGINEERING, LADORATORY I TESTING, P.C. CANNOT GLIRANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WEN USED WITH ACHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED AROVE. A A

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

GENERAL STRUCTURAL NOTES:

1. CONSTRUCTURAL NOTES:

1. CONSTRUCTURAL NOTES:

2. CONSTRUCTURAL CONFORT TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL APPENDENTS.

2. CONTRACTOR STRUCTURE AND STRUCTURE OF CONTRACTORS SHALL COMEY WITH THE CONTRINIS OF THE PRABUNES FOR THIS SPECTION PROCEST. BISINEER IS NOT RESPONSIBLE FOR PROPULING TENEFORCHT PRACENTS REQUIRED TO RESIST ALL PORCES ENCONTREED DURING ERECTION.

3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TENEFORCHT PRACENTS REQUIRED TO RESIST ALL PORCES ENCONTREED DURING ERECTION.

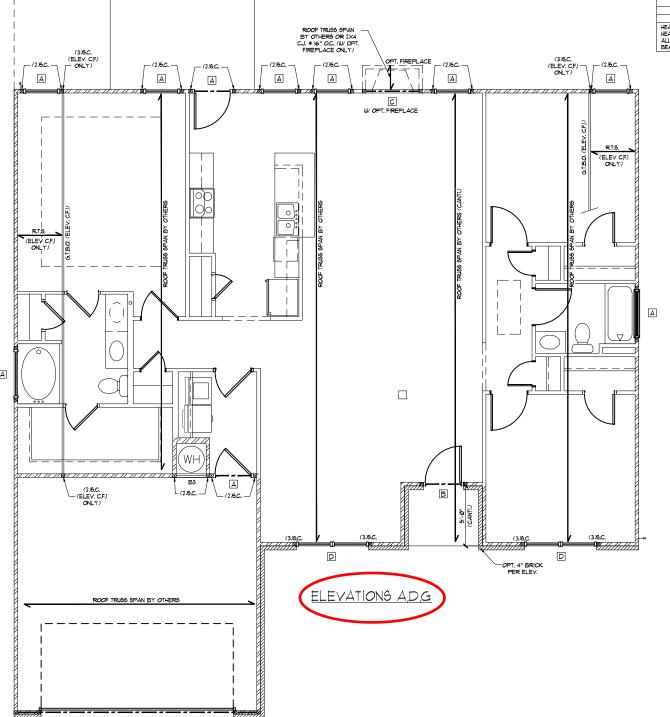
4. FROPERIES USED IN THE DESIGN ARE AS FOLLOUS.

5. ALL BUOCH STRUCTURE SPACE OF SPILE 19,100° PSI PSI PARALLAM (FSL) FS. 2,200 PSI, F. 1,200 PSI, F. 1,2 KINGS (EACH END) 16" O.C. 24" O.C. LESS THAN (1) 3'-0" 3'-0 TO 4'-0" 4'-0" TO 8'-0" 8'-0" TO 12'-0" KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

> CONT. (STD. 4 OPT. STONE) FOR D CONT. (W/ OPT, BRICK) G

PORTAL FRAME PER DETAIL 1/D66

ATTACH LINTEL TO HEADER W/ (1) ROW OF 1/2" # LAG SCREWS \* 12" O.C. (OPT. BRICK)



HEADER/BEAM SCHEDULE HEADER TAG BEAM TAG SIZE JACKS (EACH END) " FLOOR JOI (2) II-7/8" LVL M Bl6 (3) ¼" LVL N Bl7 (3) 16" LVL O Bl8 (3) 18" LVL P Bl9 (3) 24" LVL

KING STUD REQUIREMENTS

(1)

HEADER/BEAM SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER HEADER/BEAM SIZES MAY BE USED FOR EASE OF CONSTRUCTION
ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE. ALL
BEAMS TO BE FLUSH UNLESS NOTED OTHERWISE.

| LINT | LINTEL SCHEDULE                        |                        |  |  |  |  |
|------|--|------------------------|--|--|--|--|
| TAG  | SIZE                                   | OPENING SIZE           |  |  |  |  |
| 0    | L3x3x1/4"                              | LESS THAN<br>6'-0"     |  |  |  |  |
| 2    | L5x3x1/4"                              | 6'-0" TO 10'-0"        |  |  |  |  |
| 3    | L5X5-1/2"X5/16"                        | GREATER THAN<br>10'-0" |  |  |  |  |
| 4    | L5x3-1/2"x5/16"<br>ROLLED OR<br>EQUIV. | ALL ARCHED<br>OPENINGS |  |  |  |  |

SECURE LINTEL TO HEADER w/ (2) 1/2"
DIAMETER LAG SCREWS STAGGERED . 16"
O.C. (TYP FOR 3)

ALL HEADERS WITH BRICK ABOVE: ()(UNO)

WALL STUD SCHEDULE BY 1 XND FLOOR LOAD BEARING WALLS:

2x6 STUDS • 24" OC. OR 2x4 STUDS • 16" OC.

IST FLOOR LOAD BEARING WALLS SUPPORTING
XND FLOOR WALK-UP ATTIC.

2x6 STUDS • 16" OC. OR 2x4 STUDS • 12" OC. BASEMENT LOAD BEARING WALLS: 2x6 STUDS # 16" O.C. OR 2x4 STUDS # 12" O.C. NON-LOAD BEARING WALLS (ALL FLOORS): 2x4 STUDS @ 24" O.C. TILO STORY WALLS:

2x4 STUDS • 12" O.C. OR 2X6 STUDS • 16" O.C.

W/ 2X BRACING • 6'-0" O.C. VERTICALLY

(AKA "BALLOON FRAMING")

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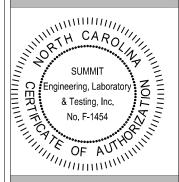
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क्र <u>ø</u> <u>8</u> Homes Ave Framing Douglas F Reliance ( ), NC 21535 Floor Vinings Дрех, Smith 1 2520 First

CURRENT DRAWING

DATE: Ø5/17/2@23

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

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT \* Ø8/Ø7/2Ø18 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

| TRUSS UPLIFT CONNECTOR SCHEDULE                                   |                                   |                      |               |
|---|-----------------------------------|----------------------|---------------|
| MAX. UPLIFT   | ROOF TO WALL FLOOR TO FLOOR FLO   |                      | FLOOR TO FND  |
| 535 LB6   | 6 H2.5A PER WALL SHEATHING & FAST |                      | G 4 FASTENERS |
| 1070 LBS  | (2) H2.5A                         | CSI6 (END = 13")     | DTT2Z         |
| 1245 LB6  | HT52Ø                             | C5I6 (END = 13")     | DTT2Z         |
| 112Ø LB6  | (2) MTS2Ø                         | (2) CSI6 (END = 13") | DTT2Z         |
| 249Ø LB6  | (2) HT52Ø                         | (2) C6l6 (END = 13") | HTT4          |
| 2365 LBS  | LGT3-9D52.5                       | (2) CSI6 (END = 13") | HTT4          |
| L ALL PRODUCTS LISTED ARE SIMPSON STRONG, TIE EQUIVALENT PRODUCTS |                                   |                      |               |

I. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANIFACTURER'S SPECIFICATIONS.

2. UP-LIFT VALUES LISTED ARE FOR SPET 2 GRADE HEMBERS.

3. REFER TO TRISE LAYOUT PER MANUF FOR UP-LIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTIONS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.

4. CONTACT SIMPHIT FOR REQUIRED CONNECTIONS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: IST 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)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION REQUII. WALL SHEATHING AND FASTENES HAVE BEEN DESIGNED TO RESIST THE WIDD UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION REQUISS OF THE 2018 NOCE, RETER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENT.

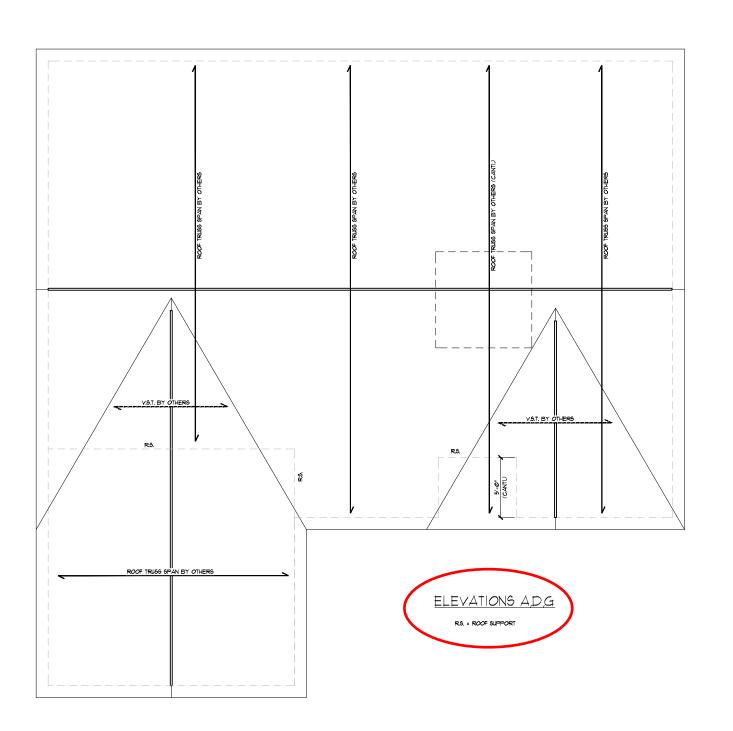
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SYITH DOUGLAS HOTES COMPLETED/REVISED ON 10/11/203, IT IS THE RESPONSIBILITY OF THE CLENT TO NOTIFY SYITHIT TRANSPERRIS, LAPORATIONY 1 TESTING, P.C. FANY CHANGES ARE HADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SUMMIT ENGRERISH, LAPORATIONY 1 TESTING, P.C. 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.

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





Lot 51



Raleigh Douglas Homes . Reliance Ave x, NC 21539 Roof Framing Plan PROJECT Vinings LH CLIENT Smith 1 2520 1

#### CURRENT DRAWING

DATE: Ø5/17/2Ø23

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

PROJECT \*: 3832,TØ859

DRAWN BY: EO

CHECKED BY: CTB

#### ORIGINAL DRAWING

DATE PROJECT \* Ø8/Ø7/2Ø18 3832.154

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SHEET

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| REQUIRED BRACED WALL PANEL CONNECTIONS |                             |           |                                |                                |
|--|-----------------------------|-----------|--------------------------------|--------------------------------|
|  |                             | MIN.      | REQUIRED (                     | CONNECTION                     |
| METHOD                                 | MATERIAL                    | THICKNESS | # PANEL EDGES                  | # INTERMEDIATE<br>SUPPORTS     |
| CS-WSP                                 | STRUCTURAL<br>PANEL         | 3/8"      | 6d COMMON NAILS<br>© 6" O.C.   | 6d COMMON NAILS                |
| GB                                     | GYPSUM<br>BOARD             | 1/2"      | 5d COOLER NAILS**<br># T" O.C. | 5d COOLER NAILS**<br>9 7" O.C. |
| WSP                                    | WOOD<br>STRUCTURAL<br>PANEL | 3/8"      | 6d COMMON NAILS<br># 6" O.C.   | 6d COMMON NAILS<br>\$ 12" O.C. |
| PF                                     | STRUCTURAL<br>PANEL         | 7/16"     | PER FIGURE R602.10.1           | PER FIGURE R602.10.1           |
| "OR EQUIVALENT PER TABLE RT02.3.5      |                             |           |                                |                                |

#### BRACED WALL NOTES:

- UALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6/07/10
  PROOf THE 2009 NORTH CAROLINA RESIDENTIAL CODE.
  UALLS ARE DESIGNED POR SEISMIC ZONES A-C AND ULTIMATE WIND SHEEDS UP TO 180 MPH.
  SHEER TO ARCHITECTURAL PLAN FOR DOORWINDOW OFFNING SIZES.
  BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R6/07/20.
  LL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 PEET FOR ISOLATED PAREL METHOD AND IF PEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- NOT EXCEED 10 PEET FOR IGALATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  IN MINITH PANEL LENGTH SHALL BE FER TABLE REGULES.

  IN THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHAD BOTH SIDES OF INTERIOR WALLS SHAD BOTH SIDES OF INTERIOR WALLS SHALL BE SHATHED CONTINUOUS! WITH MINIMIM 12" GYPSUM BOARD (UNO).

  FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED REACED WALL PANELS, ADD'S AND ON GABLE RNO WALL. PANELS, SHALL BE LOCATED WITHIN 12 FEET OF EACH POINDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL PRINTERING CALCULATIONS.

  IN A BRACED WALL FANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH RND OF A BRACED WALL LINE.

  IN THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 17 FEET.

  MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPOSITION A BRACED WALL PANELS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGULES OF FLOOR SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGULES AND ASSOCIATED WALL SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGULES AND ASSOCIATED WALL SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGULES AND ASSOCIATED WALL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGULES OF THE SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGULES OF THE FIGURE REGULES OF THE SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGULES OF THE FIGURE REGULES OF THE FIGURE REGULES OF THE SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGULES OF THE SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGULES OF THE FIGURE.

- II. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
  18. ABBREVIATIONS:

GB = GYPSUM BOARD
CS-XXX = CONT. SHEATHED
FF = PORTAL FRAME
USP = WOOD STRUCTURAL PANEL
ENG = ENGINEERED SOLUTION
FF-ENG = ENG. PORTAL FRAME

THESE FLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH POLICIAS HOMES COMPLETED REVISED ON SMITHERS. THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWIMIT ENGINERING, LABORATORY I TESTING, P.C. FANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SWIMIT ENGINERING, LABORATORY I TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WEN USED WITH ARCHITECTURAL PLANS WEN DEST WITH DESIGNATION OF THESE STRUCTURAL PLANS WEN DEST WITH ARCHITECTURAL PLANS OF THE ADEQUACY OF THESE STRUCTURAL PLANS WEN DATE LISTED ABOVE.

| FIRST FLOOR BRACING (FT)                 |     |      |  |  |
|--|-----|------|--|--|
| CONTINUOUS SHEATHING METHOD: RECTANGLE I |     |      |  |  |
| REQUIRED PROVIDED                        |     |      |  |  |
| FRONT                                    | 5.8 | I7.Ø |  |  |
| LEFT                                     | 7,4 | 32.3 |  |  |
| REAR 5.8 34.0                            |     |      |  |  |
| RIGHT 7,4 13,1                           |     |      |  |  |

| FIRST FLOOR BRACING (FT)                 |                   |      |  |  |
|--|-------------------|------|--|--|
| CONTINUOUS SHEATHING METHOD: RECTANGLE 2 |                   |      |  |  |
|  | REQUIRED PROVIDED |      |  |  |
| FRONT                                    | 3.0               | 17.0 |  |  |
| LEFT                                     | 3.1               | 32.3 |  |  |
| REAR                                     | 3.0               | 34.0 |  |  |
| RIGHT                                    | 3.1               | 13.1 |  |  |

INSTALL HOLD-DOWNS PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCRC.

#### STRUCTURAL MEMBERS ONLY

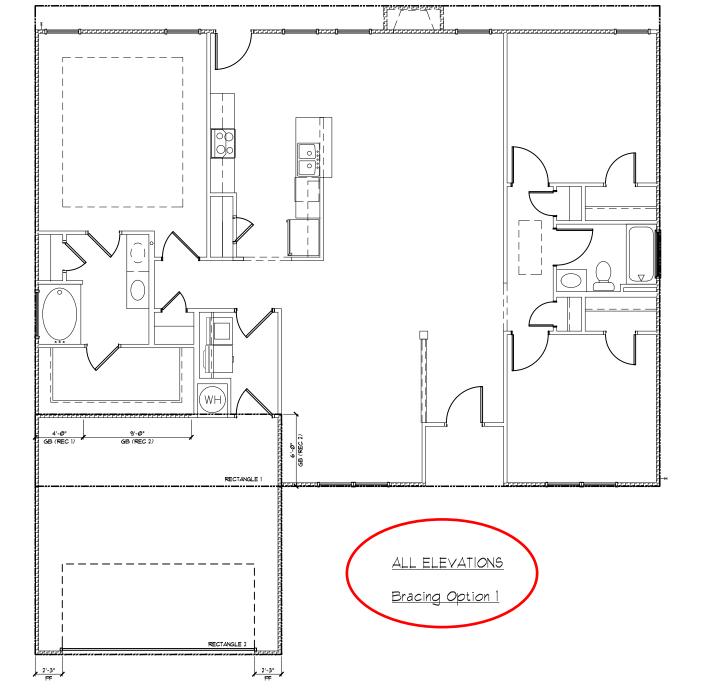
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

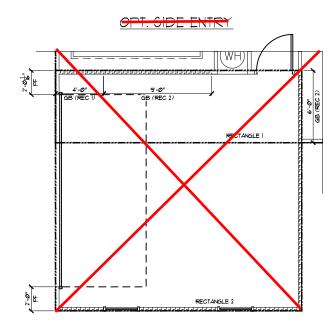
FIRST FLOOR BRACING PLAN SCALE: 1/8"=1"



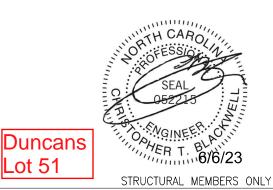


| FIRST FLOOR BRACING (FT)                            |     |      |  |  |
|---|-----|------|--|--|
| CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE I |     |      |  |  |
| REQUIRED PROVIDED                                   |     |      |  |  |
| FRONT   | 5.8 | 15.0 |  |  |
| LEFT  | 1,4 | 283  |  |  |
| REAR  | 5.8 | 24.6 |  |  |
| RIGHT 1,4 34,0                                      |     |      |  |  |
|   |     |      |  |  |

| FIRST FLOOR BRACING (FT)                            |     |      |  |  |
|---|-----|------|--|--|
| CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2 |     |      |  |  |
| REQUIRED PROVIDED                                   |     |      |  |  |
| FRONT   | 3.0 | 14.5 |  |  |
| LEFT  | 3.1 | 6.0  |  |  |
| REAR  | 3.0 | 4.5  |  |  |
| RIGHT 3,1 17,0                                      |     |      |  |  |
|   |     |      |  |  |

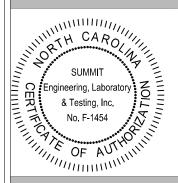


Lot 51





3070 Hammond Business Place Suite 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



कु Ralei Douglas Homes . Reliance Ave x, NC 21539 Bracing First Floor PROJECT Vinings CLIENT Smith 1 2520 1

CURRENT DRAWING

DATE: Ø5/17/2Ø23

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

PROJECT \*: 3832,TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT \* Ø8/Ø7/2Ø18 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S7.0

| REQUIRED BRACED WALL PANEL CONNECTIONS |                             |           |                                |  |
|--|-----------------------------|-----------|--------------------------------|--|
|  |                             | MIN.      | REQUIRED CONNECTION            |  |
| METHOD                                 | MATERIAL                    | THICKNESS | # PANEL EDGES                  | <ul> <li>INTERMEDIATE</li> <li>SUPPORTS</li> </ul> |
| CS-WSP                                 | WOOD<br>STRUCTURAL<br>PANEL | 3/8"      | 6d COMMON NAILS<br>© 6" O.C.   | 6d COMMON NAILS<br>9 12" O.C.                      |
| GB                                     | GYPSUM<br>BOARD             | 1/2"      | 5d COOLER NAILS**<br># 7" O.C. | 5d COOLER NAILS**<br>* 7" O.C.                     |
| WSP                                    | WOOD<br>STRUCTURAL<br>PANEL | 3/8"      | 6d COMMON NAILS<br>© 6" O.C.   | 6d COMMON NAILS<br># 12" O.C.                      |
| PF                                     | WOOD<br>STRUCTURAL<br>PANEL | 7/16"     | PER FIGURE R602.10.1           | PER FIGURE R602.10.1                               |
| "OR EQUIVALENT PER TABLE R102.3.5      |                             |           |                                |  |

#### BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R603/0 FROM THE 2008 NORTH CAROLINA RESIDENTIAL CODE.

  WALLS ARE DESIGNED FOR SEISMIC ZONES A.C. AND ULTIMATE WIND SPEEDS UP TO 30 MPH.

  REFER TO ACCHITECTURAL PLAN FOR DOORWINDOW OPENING SIZES.

  BRACINS MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R603/01.

  ALL BRACED WALL PANELS SHALL BE RILL WALL HEIGHT AND SHALL NOT EXCEED UP FEET FOR ISOLATED PANEL METHOD AND IS REET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING
- MOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS HEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  MINIMIM PANEL LENGTH 9HALL BE FEET TABLE REGULDS.

  THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUS. WITH MINIMIM 12" GYPSUM BOARD (INO).

  FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INTILL AREAS BETWEEN BRACED WALL PARELS, ARDO AND BELOW WALL OPENINGS, AND ON GABLE END WALLS, AND MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL BNANESHING CALCULATIONS.

  A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH BND OF A BRACED WALL PANEL SHALL BLOCATED WITHIN 12 FEET OF EACH SID OF A BRACED WALL PANEL SHALL BLOCATED WITHIN 12 FEET OF EACH SID OF A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FEITER REGULDS, AND ON A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FEITER REGULDS, AS THE 20'B NORCE.

  SHACED WALL PANEL CONNECTIONS TO FLOOR/CELING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGULDS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGULDS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGULDS, SHALL BE DESIGNED IN A

RFAR

HOUSE

FRONT

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED REVISED ON IQUIZION, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY I TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY I TESTING, P.C. CANNOT GUIRACHITE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL, PLANS DATED DIFFERENTLY THAN THE DATE LIBERT ABOVE.

| FIRST FLOOR BRACING (FT)                 |                   |      |  |  |
|--|-------------------|------|--|--|
| CONTINUOUS SHEATHING METHOD: RECTANGLE 1 |                   |      |  |  |
|  | REQUIRED PROVIDED |      |  |  |
| FRONT                                    | 5.8               | I7.Ø |  |  |
| LEFT                                     | 7,4               | 32.3 |  |  |
| REAR                                     | 5.8               | 34.0 |  |  |
| PIGUT 14                                 |                   | 12.1 |  |  |

| FIRST FLOOR BRACING (FT)                 |                   |      |  |  |
|--|-------------------|------|--|--|
| CONTINUOUS SHEATHING METHOD: RECTANGLE 2 |                   |      |  |  |
|  | REQUIRED PROVIDED |      |  |  |
| FRONT                                    | 3.0               | 17.0 |  |  |
| LEFT                                     | 3.i 32.3          |      |  |  |
| REAR                                     | 3.0               | 34.0 |  |  |
| RIGHT                                    | 3.1               | 13.1 |  |  |

INSTALL HOLD-DOWNS PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCRC.

#### STRUCTURAL MEMBERS ONLY

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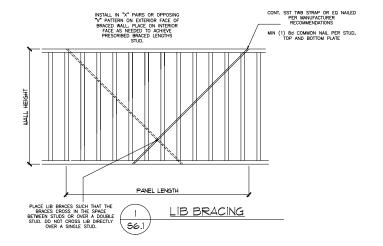
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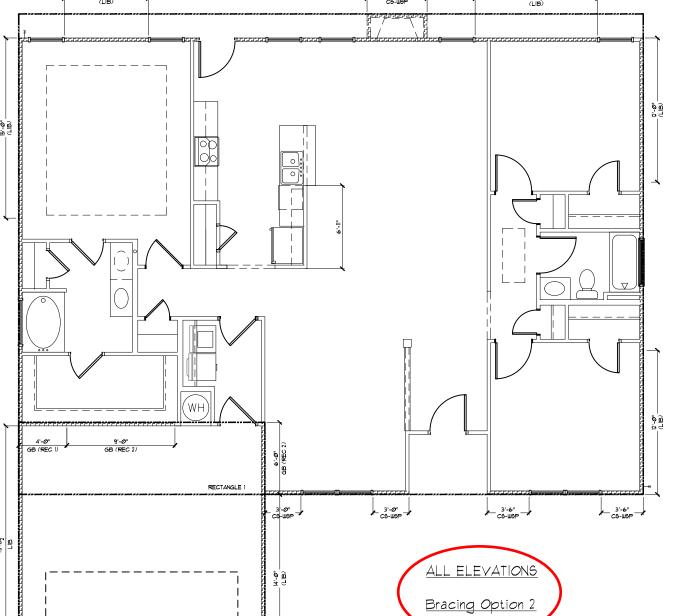
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

#### FIRST FLOOR BRACING PLAN

SCALE: 1/8"=1"

NSTALL HOLD-DOWNS PER SECTION R602 IO 4 AND FIGURE

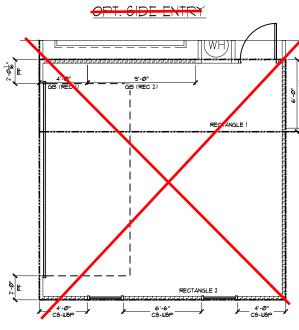




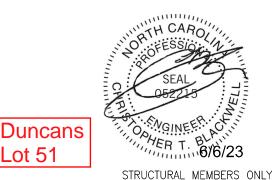
| FIRST FLOOR BRACING (FT)                            |     |      |  |
|---|-----|------|--|
| CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE I |     |      |  |
| REQUIRED PROVIDED                                   |     |      |  |
| FRONT   | 5.8 | T.el |  |
| LEFT  | 1,4 | 17.3 |  |
| REAR  | 5.8 | 13.6 |  |
| RIGHT 1.4 12.0                                      |     |      |  |
|   |     |      |  |

SEE SHEET ST.Ø FOR NOTES AND MORE INFORMATION

| FIRST FLOOR BRACING (FT)                            |     |       |  |  |
|---|-----|-------|--|--|
| CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2 |     |       |  |  |
| REQUIRED PROVIDED                                   |     |       |  |  |
| FRONT   | 3.0 | 14,5  |  |  |
| LEFT  | 3.1 | 13.5  |  |  |
| REAR  | 3.0 | 13.6  |  |  |
| RIGHT   | 3.1 | 12.00 |  |  |

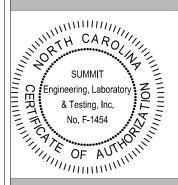


Lot 51





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क् Ralei Homes Ave Bracing Douglas F Reliance , , NC 27539 Floor PROJECT Vinings Дрех, CLIENT Smith 1 2520 1 First

#### CURRENT DRAWING

DATE: Ø5/17/2Ø23

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

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

#### ORIGINAL DRAWING

DATE PROJECT \* <u>08/07/2018</u> 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S7.1

#### GENERAL STRUCTURAL NOTES:

- 1. 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, P.C. (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 ŠER 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.
- 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
- This structure and all construction shall conform to all applicable sections of the 2018 North Carolina Residential Code (NCRC) and any local codes or restrictions

#### FOUNDATIONS:

- Foundations shall be constructed in accordance with chapter 4 of the 2018 NC Residential Building Code (Special consideration shall be given to Chapter 45 in wind zones above 130mph)
- Footing sizes based on a presumptive soil bearing capacity
  of 2000 PSF. Contractor is solely responsible for verifying
  the suitability of the site soil conditions at the time of
  construction
- 3. Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCRC
- 4. 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. 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.
- 8. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bearing in the middle third of the piers. Pilasters to be bonded to perimeter foundation wall
- 10. Crawl spaced to be graded level and clear of all debris
- 11. Provide foundation waterproofing and drain with positive slope to outlet as required by site conditions
- 12. Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2018 NCRC

#### CONCRETE

- 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.
- 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%
  - 3.2. Exterior Slabs: 5%
- 4. 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 302.1R—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.
- 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. Fibermesh may be used in lieu of W.W.F.

#### 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 strenath.
- 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 C1116, 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.
- 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"
- 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.
- 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 Spruce-Pine-Fir (SPF) #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
  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

- 4. 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.
- 7. Exterior and load bearing stud walls are to be 2x4 SPF#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.
- 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 fully blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached wth (3)10d nails @ 24" O.C.
- 10. Flitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered @24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, 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.
- 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.
- 5. 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.

#### 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.
- . 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.
- 4. 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 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 Code.
- 6. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

#### STRUCTURAL FIBERBOARD PANELS:

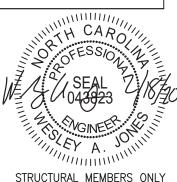
- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan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

#### 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.

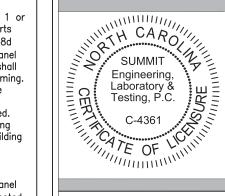
#### STRUCTURAL STEEL:

- 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 of the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted.
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D1.1. Electrodes for shopt and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.





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Notes and Specifications
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

CURRENT DRAWING

Details

Standard

DATE: 2/18/20

SCALE: NTS
PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

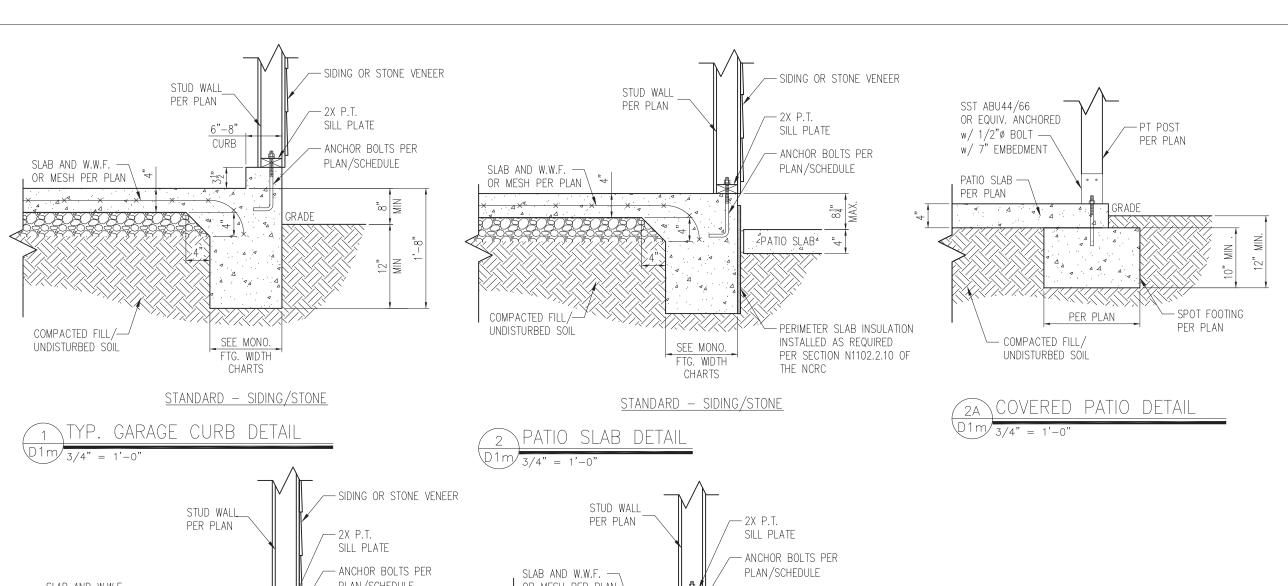
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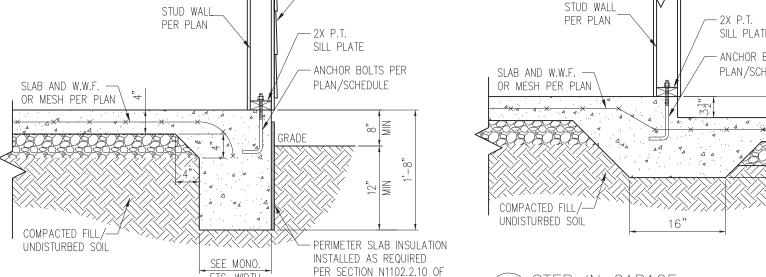
NO. DATE PROJECT # 0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS2





CHARTS STANDARD - SIDING/STONE

THE NCRC

| TVD CLAD DETAIL          | WALL ANCHOR SCHEDULE |
|--------------------------|----------------------|
| 3 TYP. SLAB DETAIL       | TYPE OF ANCHOR       |
| $01m\sqrt{3/4"} = 1'-0"$ |                      |
|                          | 1/2"ø A307 BOLTS w/  |
| TES:                     | STD. 90° BEND        |
|                          | II                   |

FTG. WIDTH

- 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.

| 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 - MAS                     | 4"         | 5'-0"     | NO       | YES      |
| HILTI KWIK BOLT KBI 1/2-2-3/4 | 2-1/4"     | 6'-0"     | YES      | NO       |
| 1/2"ø HILTI THREADED ROD      | 7"         | 6'-0"     | YES      | YES      |
| w/ HIT HY150 ADHESIVE         |            |           |          |          |

NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

#### MONOLITHIC FOOTING WIDTH

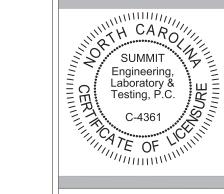
| # OF STORIES               | WIDTH BASED  | ON SOIL BEARIN | IG CAPACITY |  |  |  |
|----------------------------|--------------|----------------|-------------|--|--|--|
|                            | 1500 PSF     | 2000 PSF       | 2500 PSF    |  |  |  |
| 1 STORY - STD.             | 16"          | 16"            | 16"         |  |  |  |
| 1 STORY - BRICK VENEER     | 21"*         | 21"*           | 21"*        |  |  |  |
| 2 STORY - STD.             | 20"          | 16"            | 16"         |  |  |  |
| 2 STORY - BRICK VENEER     | 25"*         | 21"*           | 21"*        |  |  |  |
| *5" BRICK LEDGE HAS BEEN A | ADDED TO THE | MONOLITHIC     |             |  |  |  |
|                            |              |                |             |  |  |  |

FOOTING WIDTH FOR BRICK SUPPORT





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2 21 Slab Details Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Standard Details Monolithic

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1ECT # · 3832

DRAWN BY: LBV

CHECKED BY: WAJ

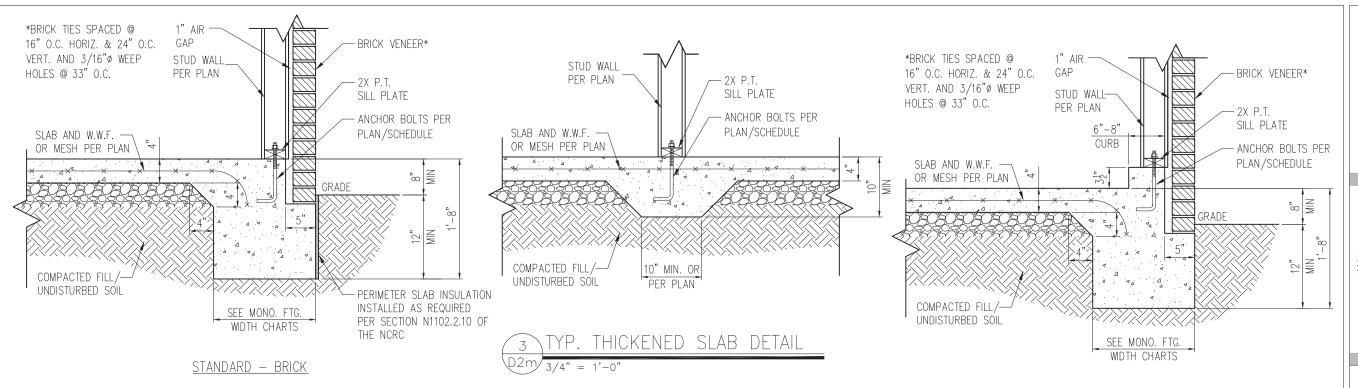
ORIGINAL DRAWING

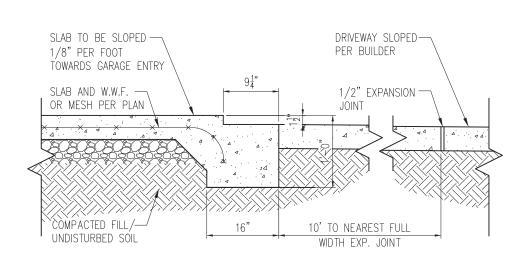
DATE PROJECT # 1/7/16

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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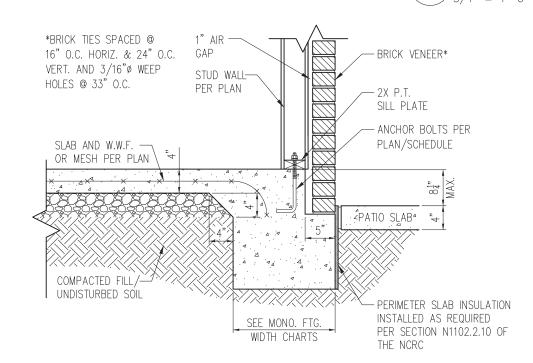
D<sub>1</sub>m





YP. SLAB DETAIL W/ BRICK VENEER



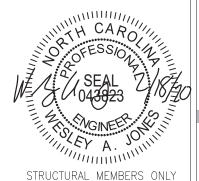


STANDARD - BRICK

PATIO SLAB DETAIL W/BRICK VENEER

#### 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.



STANDARD - BRICK

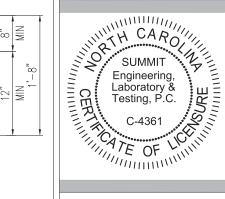
TYP. GARAGE CURB DETAIL

W/ BRICK VENEER

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# Standard Details Monolithic Slab Details Smith Douglas Homes 110 Village Trail, Suite 215 Woodstock, GA 30188

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

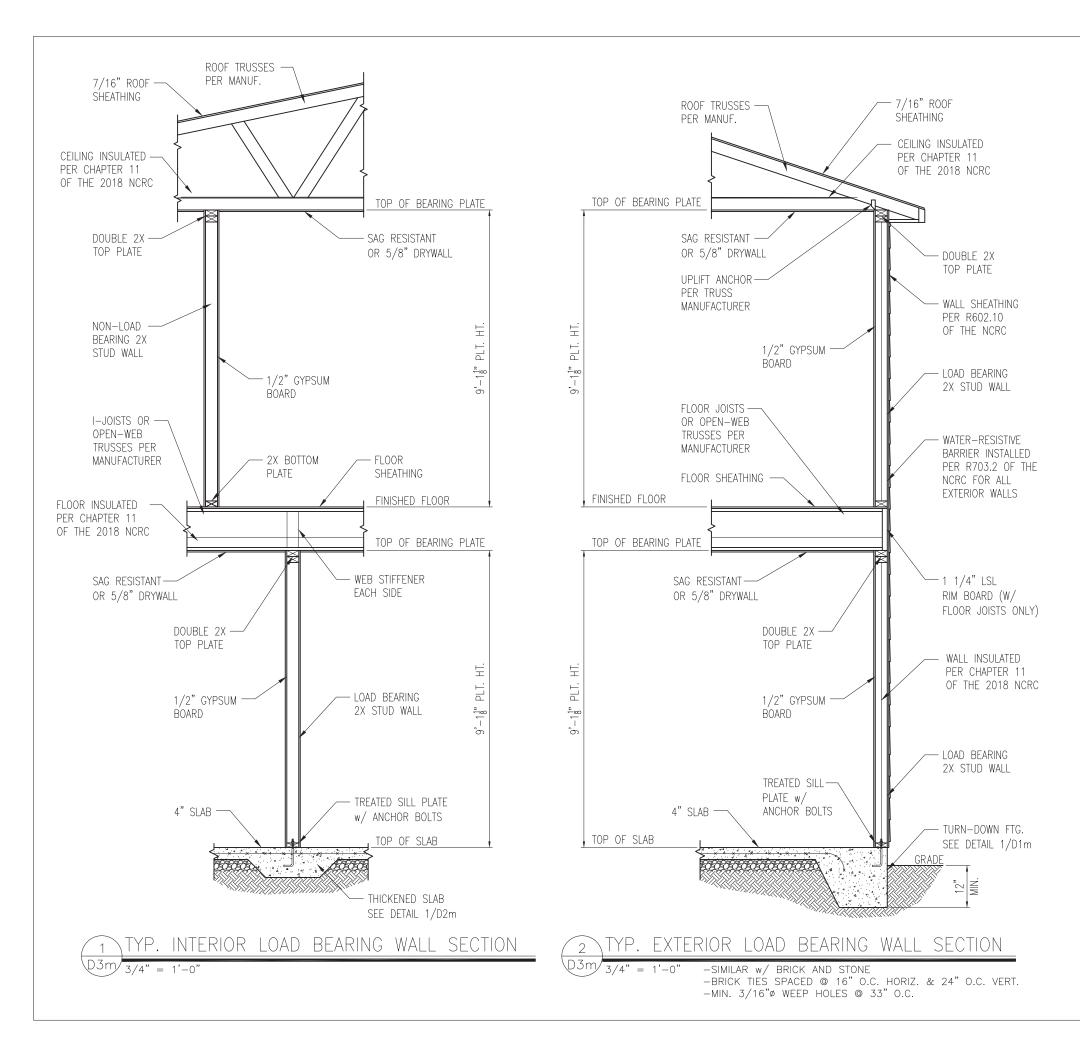
ORIGINAL DRAWING

NO. DATE PROJECT # 0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D<sub>2</sub>m





Slab Details Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Standard Details Monolithic

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DATE: 2/18/20

SCALE: NTS

PRO1FCT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE PROJECT # 1/7/16

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

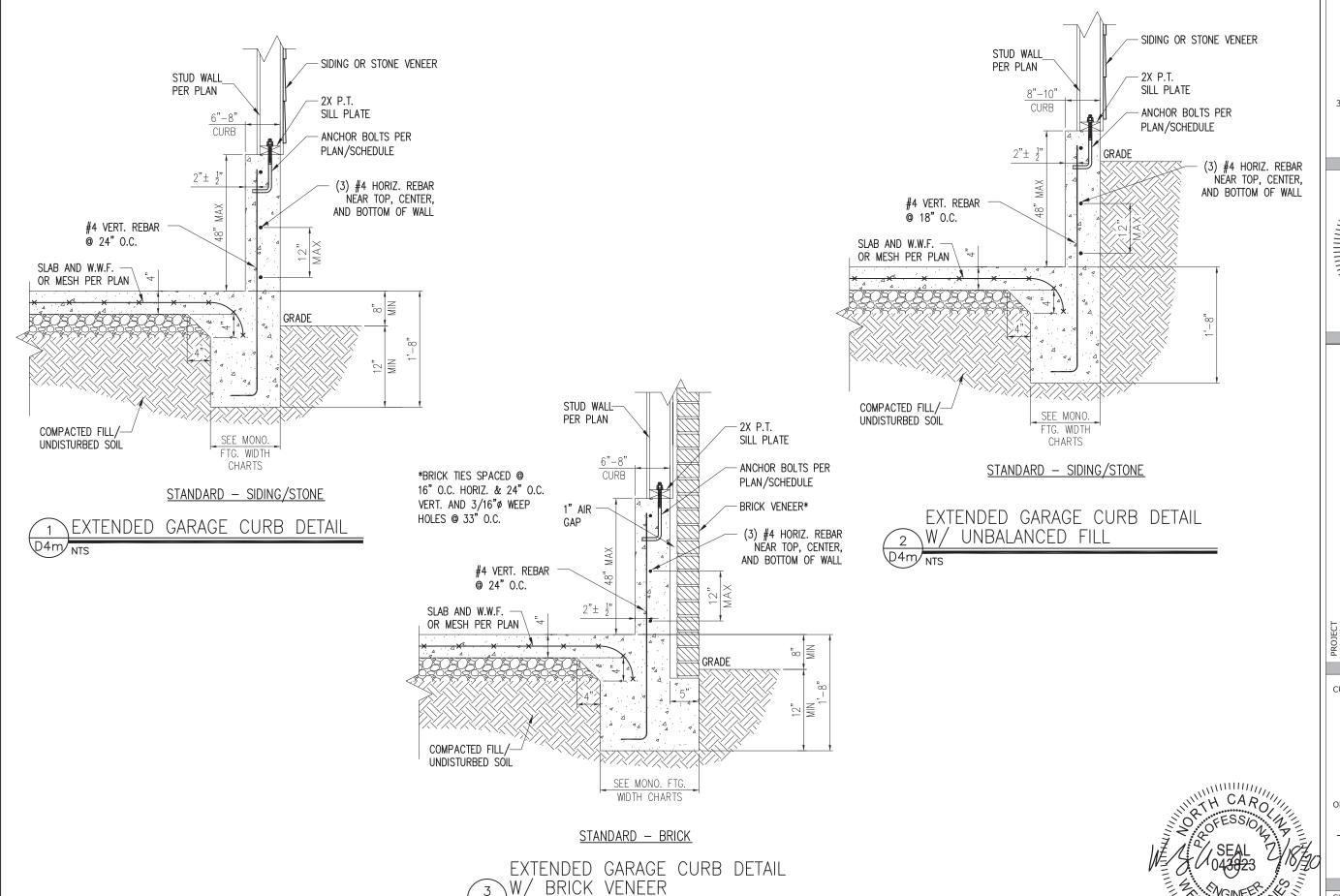
D<sub>3</sub>m

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.

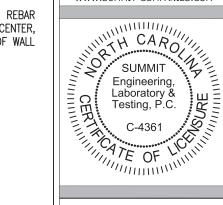




D4m/NTS



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Standard Details

Monolithic Slab Details

Smith Douglas Homes
110 Village Trail, Suite 21!
Woodstock, GA 30188

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

O. DATE PROJECT # 0 1/7/16 3832

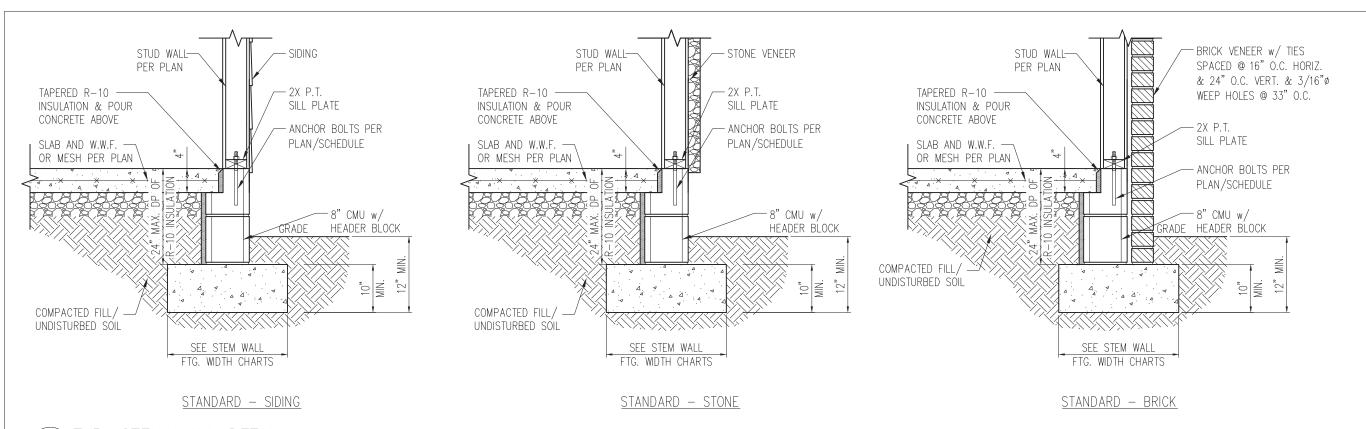
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

THEY A. JOHN

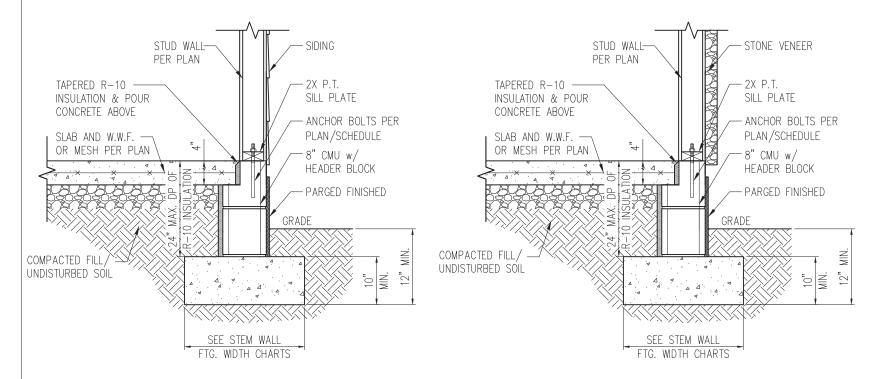
STRUCTURAL MEMBERS ONLY

D4m



STANDARD - STONE

# TYP. STEM WALL DETAIL D1s 3/4" = 1'-0"



STANDARD - SIDING

1a STEM WALL DETAIL W/ PARGED FINISH

3/4" = 1'-0"

#### STEM WALL 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.                                  | 20"         | 16"                      | 16"      |  |  |  |
| 2 STORY - BRICK VENEER                          | 25"*        | 21"*                     | 21"*     |  |  |  |
| *5" BRICK LEDGE HAS BEEN ADDED TO THE STEM WALL |             |                          |          |  |  |  |
| FOOTING WIDTH FOR BRICK SUPPORT                 |             |                          |          |  |  |  |

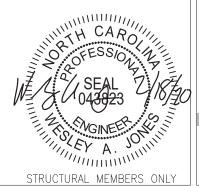
#### WALL ANCHOR SCHEDULE

| 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 - MAS                     | 4"         | 5'-0"     | NO       | YES      |
| HILTI KWIK BOLT KBI 1/2-2-3/4 | 2-1/4"     | 6'-0"     | YES      | NO       |
| 1/2"ø HILTI THREADED ROD      | 7"         | 6'-0"     | YES      | YES      |
| w/ HIT HY150 ADHESIVE         |            |           |          |          |

NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

#### 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, SLOPS AND DEPRESSIONS.

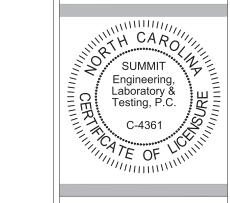


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Standard Details
Stemwall Details
Smith Douglas Homes
110 Village Trail, Suite 21!
Woodstock, GA 30188

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

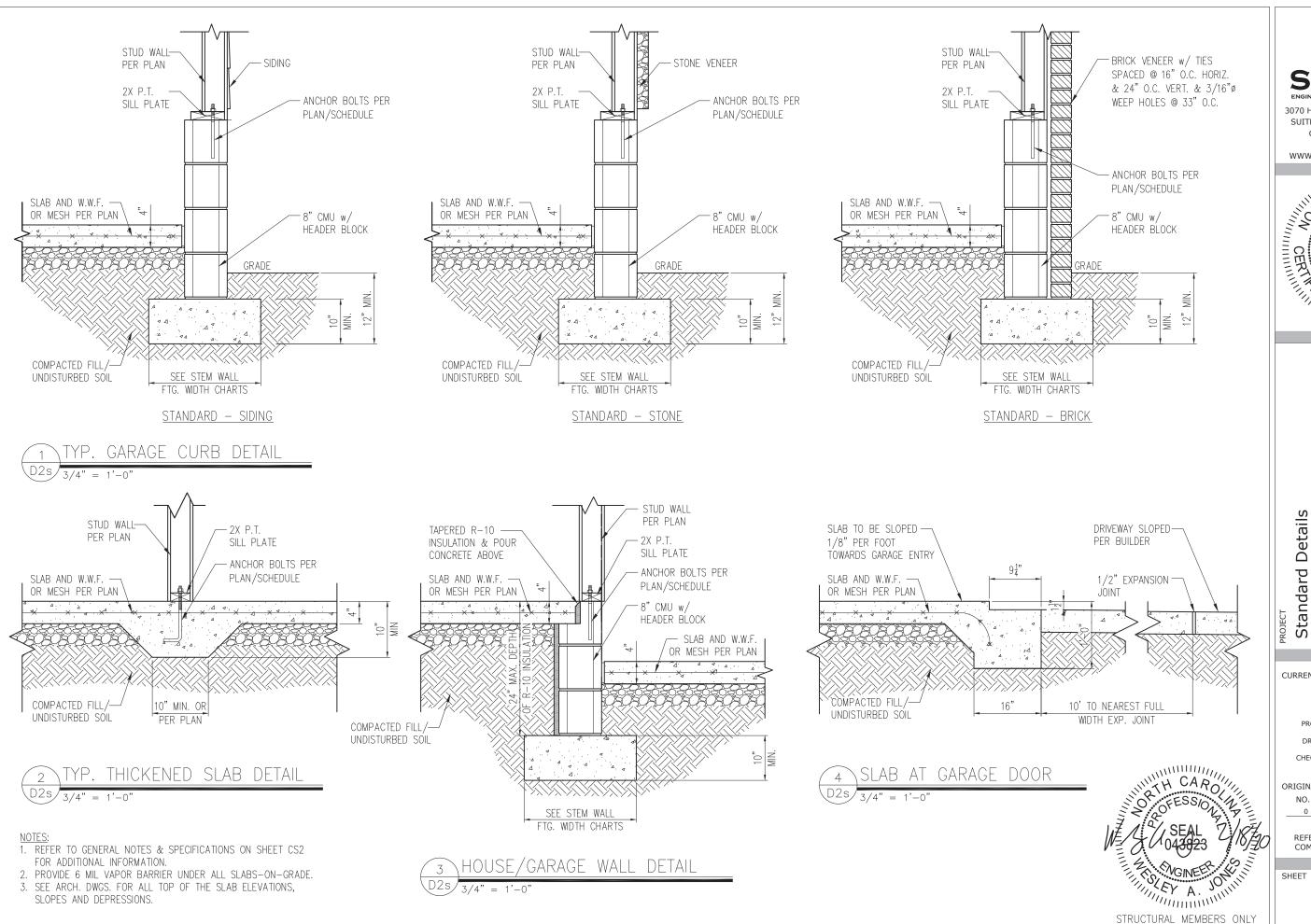
ORIGINAL DRAWING

NO. DATE PROJECT # 0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

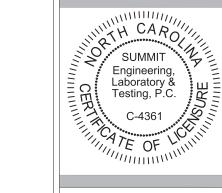
SHEET

D1s





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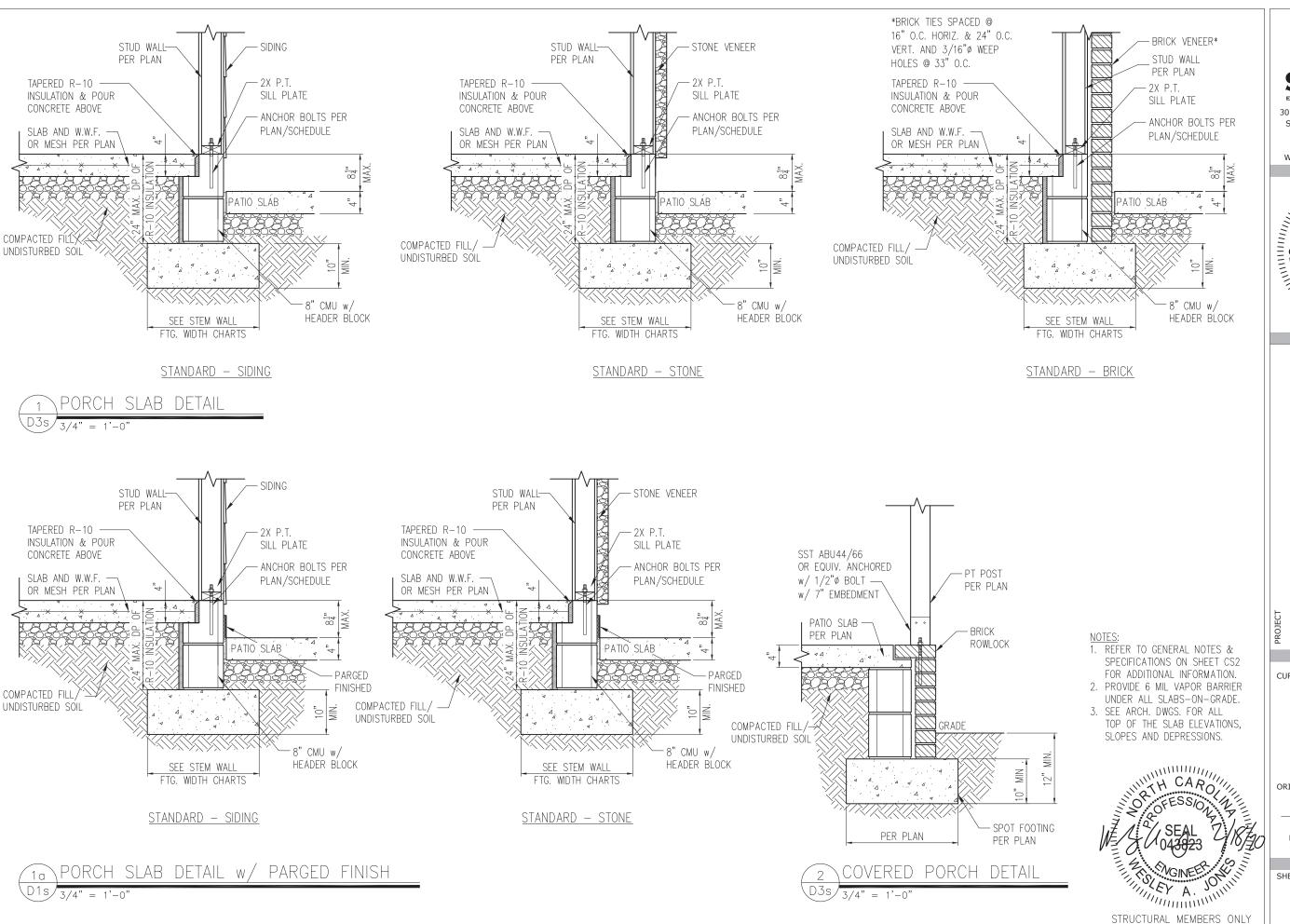
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DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

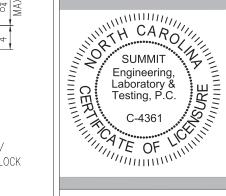
SHEET

D2s





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21 Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Stemwall Details Standard Details

2

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SCALE: NTS

PRO1FCT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

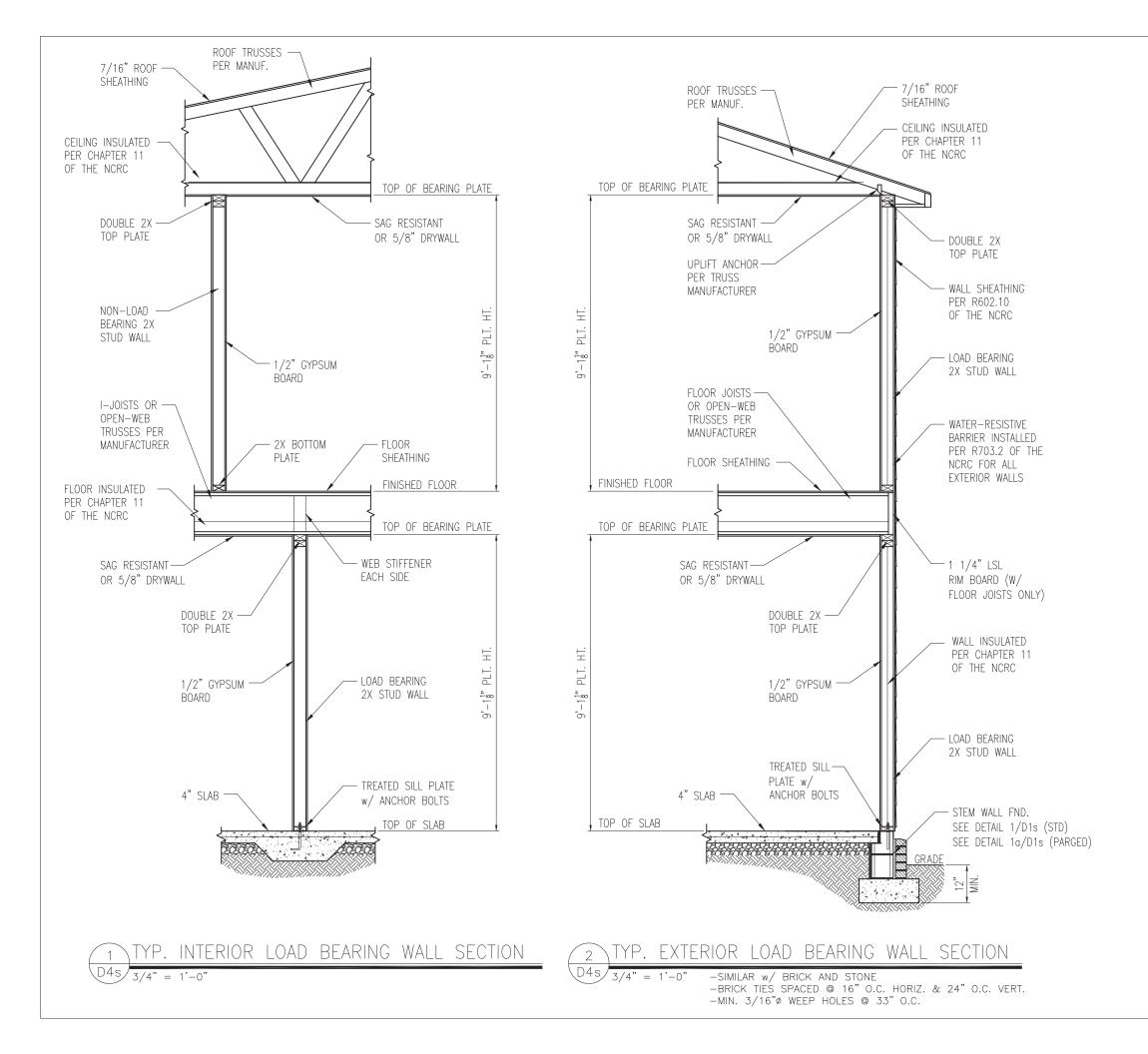
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DATE PROJECT # 1/7/16

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

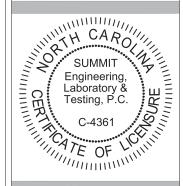
SHEET

D3s





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21 Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Stemwall Details

2

CURRENT DRAWING

Standard Details

DATE: 2/18/20

SCALE: NTS

PRO1ECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

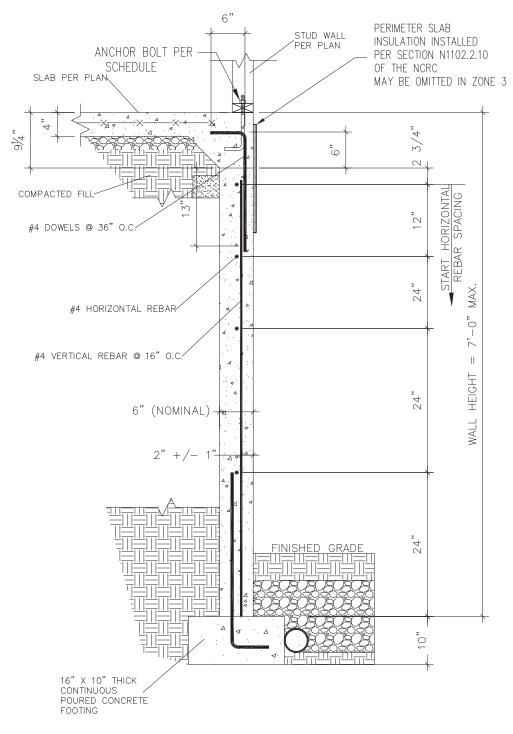
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

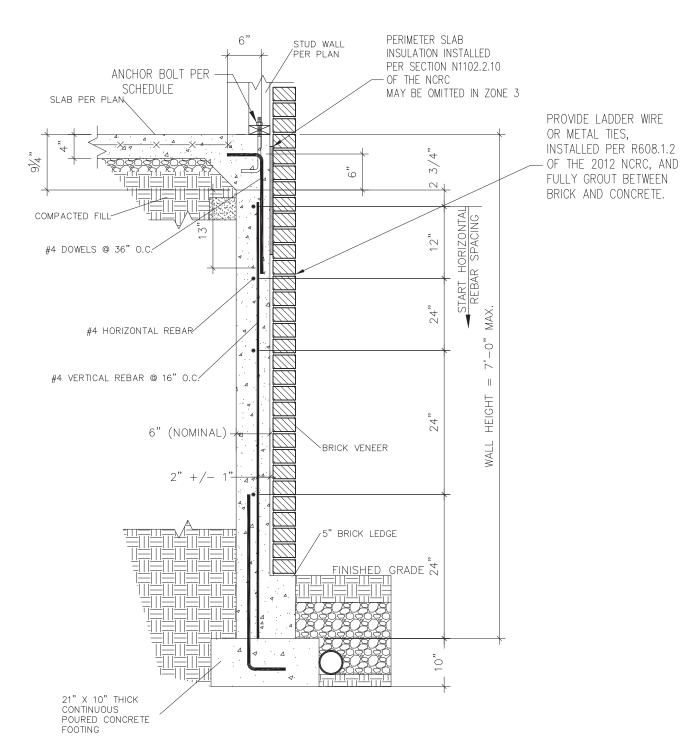
D4s

- 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.









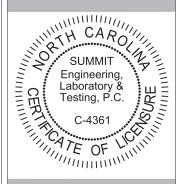
SUBWALL FOUNDATION W/ BRICK VENEER

3/4" = 1'-0"





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Stemwall Details

Smith Douglas Homes
110 Village Trail, Suite 2
Woodstock, GA 30188

2

21

#### CURRENT DRAWING

Standard Details

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

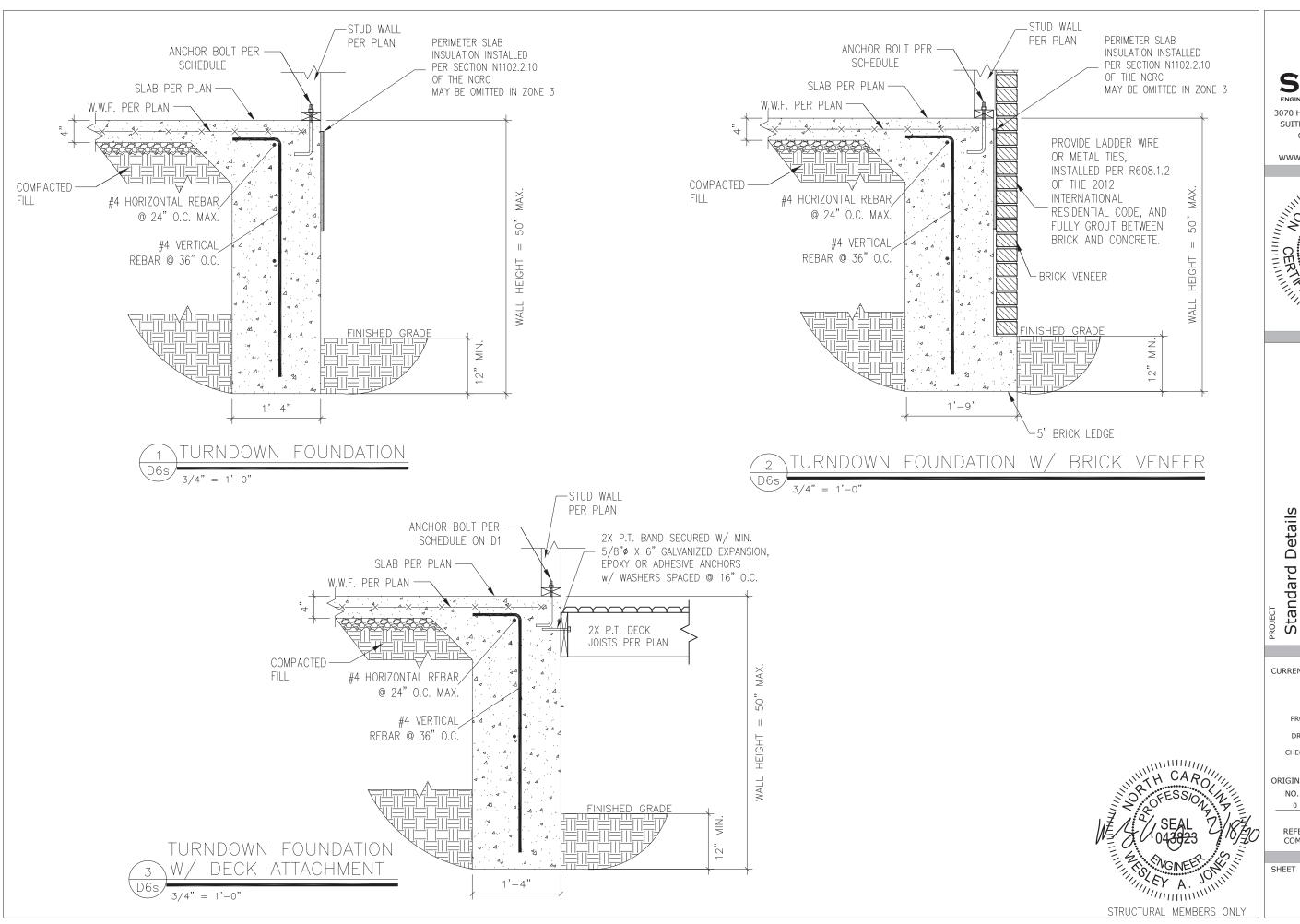
#### ORIGINAL DRAWING

NO. DATE PROJECT #
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

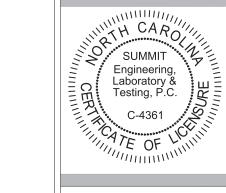
SHEET

D5s





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21 Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Stemwall Details

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1FCT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

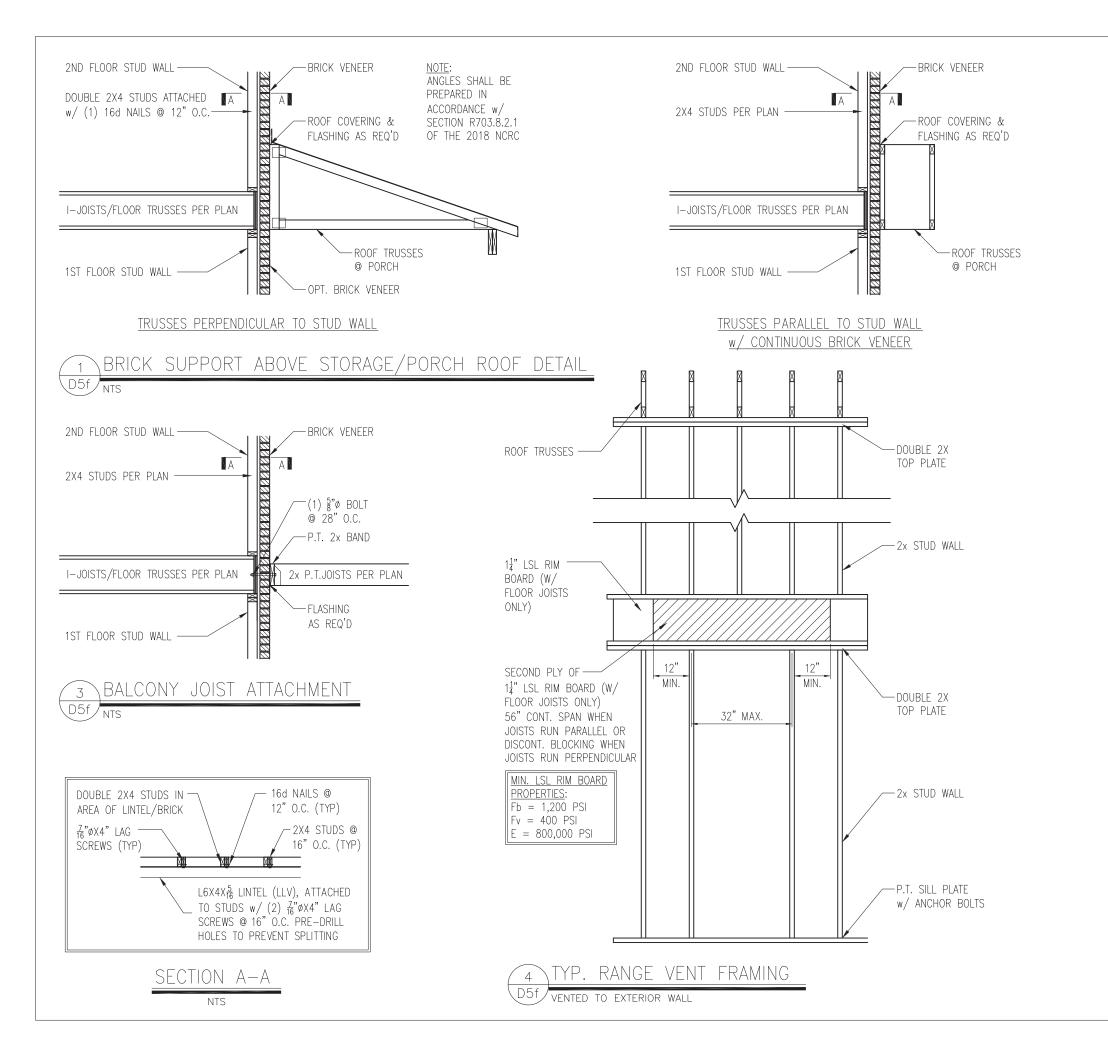
ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

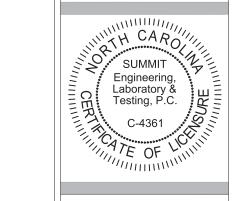
SHEET

D6s





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Standard Details
Framing Details
Smith Douglas Homes
110 Village Trail, Suite 21:
Woodstock, GA 30188

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS
PROJECT #: 3832

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DRAWN BY: LBV
CHECKED BY: WAJ

ORIGINAL DRAWING

NO. DATE PROJECT # 0 1/7/16 3832

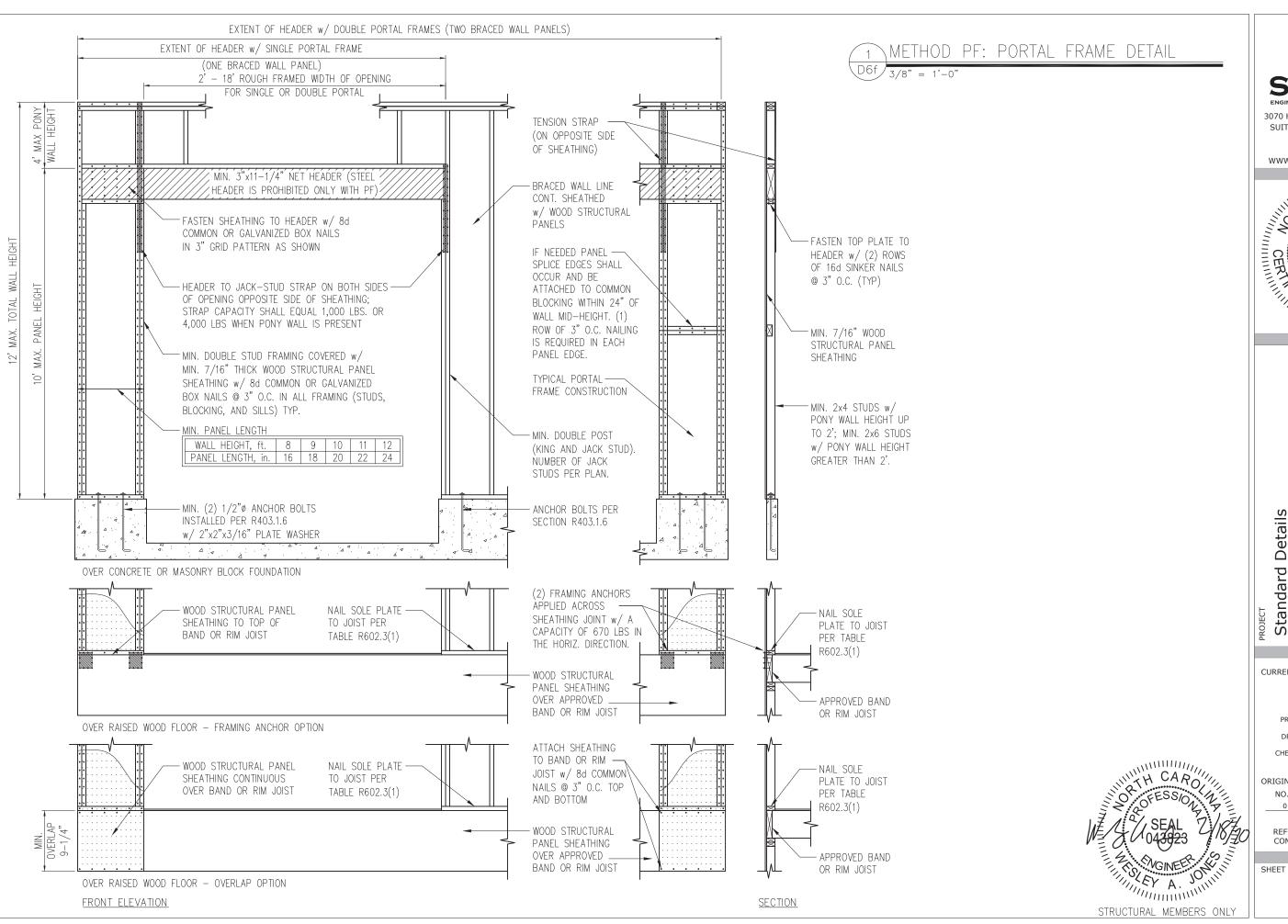
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

THEY A. JOHN

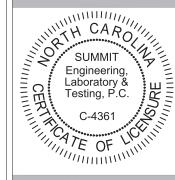
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D5f





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### Bracing 2 21 glas Homes Trail, Suite 7, GA 30188 Details Details Smith Dougla 110 Village T Woodstock, C Framing Standard

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1ECT # · 3832

DRAWN BY: LBV

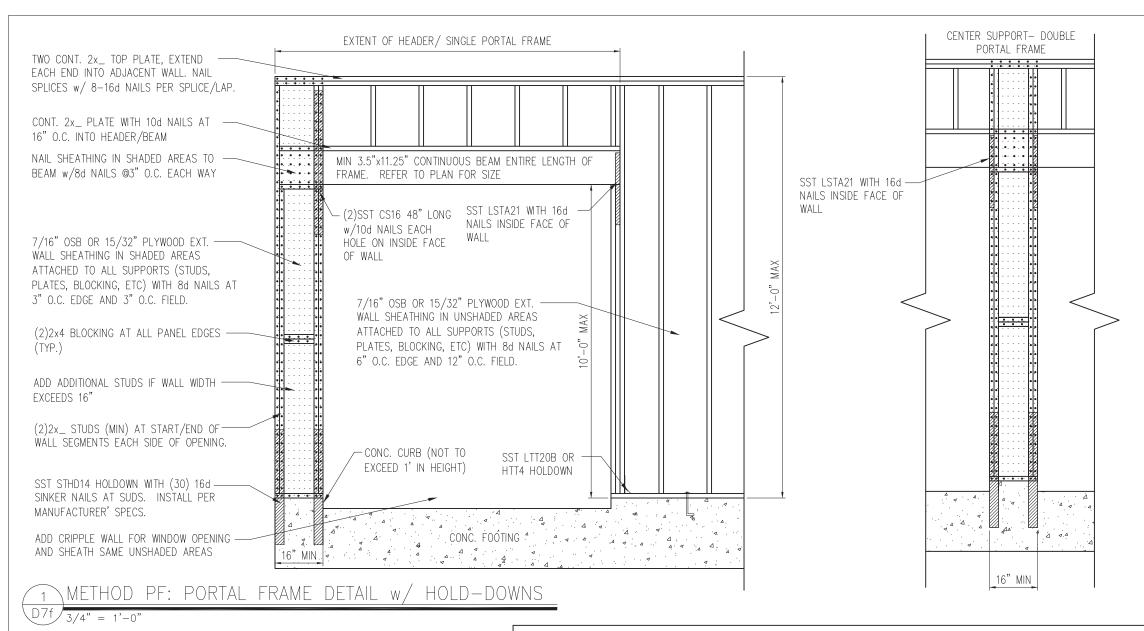
CHECKED BY: WAJ

ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D6f



**ELEVATION VIEW** 

MULTI-PLY BEAM CONNECTION DETAIL

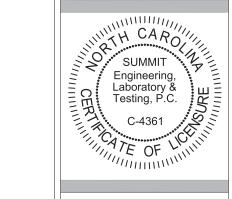
| MINIMUM FASTE                                       | NING                        | 31/2" WIDE             | 51/4" WIDE             |                   | 7" WIDE                |                        |             |
|---|-----------------------------|------------------------|------------------------|-------------------|------------------------|------------------------|-------------|
| REQUIREMENTS FOR<br>TOP- AND SIDE-LOADED<br>MEMBERS |                             |                        |                        |                   |                        |                        |             |
| FASTENER TYPE                                       | LVLDEPTH                    | 2-Ply 13/4"            | 3-Ply 13/4"            | 13/4" + 31/2"     | 4-Ply 13/4"            | 2-Ply 13/4" + 31/2"    | 2-Ply 31/2" |
| 10d (0.128" x 3")                                   | 10d (0.128" x 3") 7¼"≤d<14" | 3 rows @ 12" o.c.      | 3 rows @ 12" o.c. (ES) | 3 rows @ 12" o.c. |                        | 3 rows @ 12" o.c. (ES) | -           |
| Nails d≥14″   | 4 rows @ 12" o.c.           | 4 rows @ 12" o.c. (ES) | 4 rows @ 12" o.c.      |                   | 4 rows @ 12" o.c. (ES) | -                      |             |
| 16d (0.162" x 31/2")                                | 7¼"≤d<14"                   | 2 rows @ 12" o.c.      | 2 rows @ 12" o.c. (ES) | 2 rows @ 12" o.c. | -                      | 2 rows @ 12" o.c. (ES) | -           |
| Nails   | d≥14″                       | 3 rows @ 12" o.c.      | 3 rows @ 12" o.c. (ES) | 3 rows @ 12" o.c. | -                      | 3 rows @ 12" o.c. (ES) | -           |
| ½" Through Bolts                                    |                             | 2 rows @ 24" o.c.      | 2 rows @ 24" o.c.      |                   |                        | 2 rows @ 24" o.c.      |             |
| SDS ¼" x 3½", WS35,<br>3¾" TrussLok                 | 3.71//                      | 2 rows @ 24" o.c.      | 2 rows @ 24" o.c. (ES) | 2 rows @ 24" o.c. | •                      | 2 rows @ 24" o.c. (ES) | -           |
| SDS 1/4" x 6", WS6                                  | d≥7¼″                       | -                      | :-                     |                   | 2 rows @ 24" o.c. (ES) |                        |             |
| 5" TrussLok   |                             | -                      | 2 rows @ 24" o.c.      |                   |                        | -                      |             |
| 6¾" TrussLok  |                             |                        |                        |                   | 2 rows @ 24" o.c.      |                        |             |

#### NOTES:

- 1. All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.
- . Minimum fastening requirements for depths less than  $7\frac{1}{4}$ " require special consideration. Please contact your technical representative.
- Three general rules for staggering or offsetting for a certain fastener schedule:
   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).



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Standard Details
Framing Details - Bracing
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS
PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

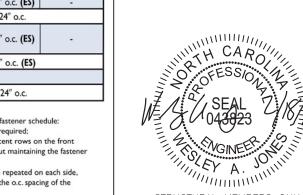
ORIGINAL DRAWING

NO. DATE PROJECT # 0 1/7/16 3832

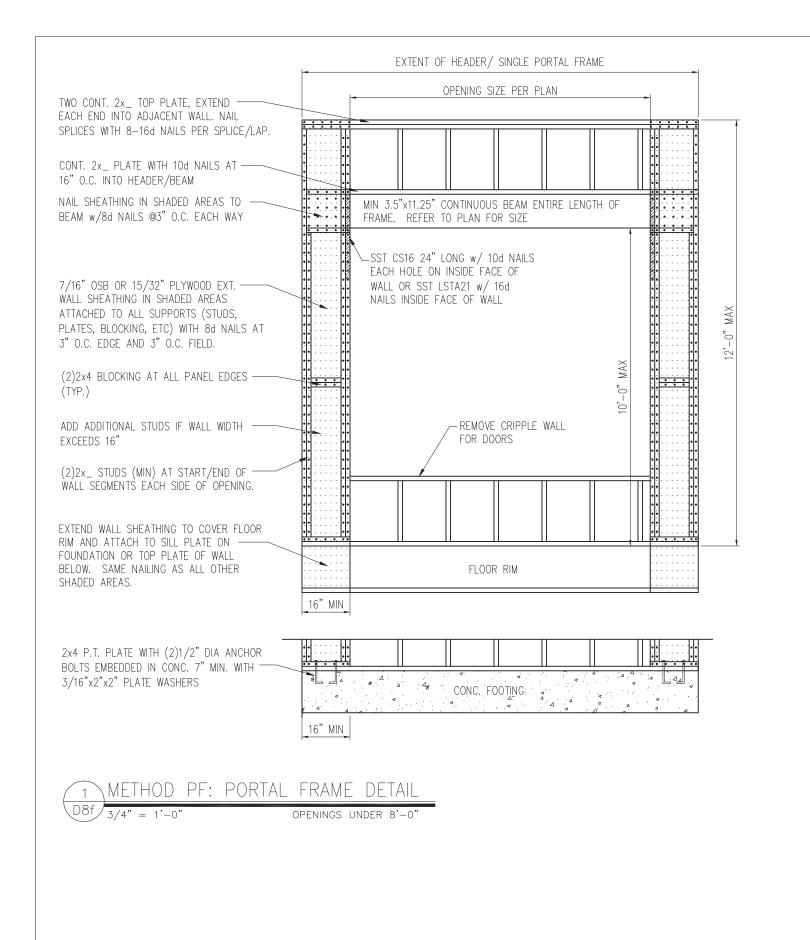
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

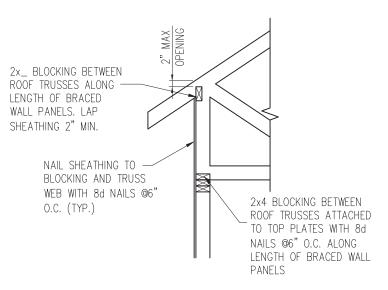
SHEET

D7f

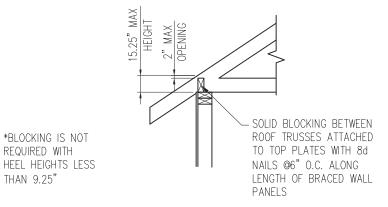


STRUCTURAL MEMBERS ONLY





#### HEEL HEIGHT GREATER THAN 15.25"

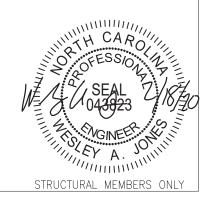


HEEL HEIGHT LESS THAN 15.25" \*

YP. WALL PANEL TO ROOF TRUSS CONNECTION

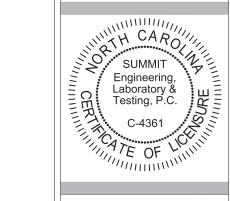
REQUIRED WITH

THAN 9.25"





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- Bracing 2 21 Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Details Standard Details Framing

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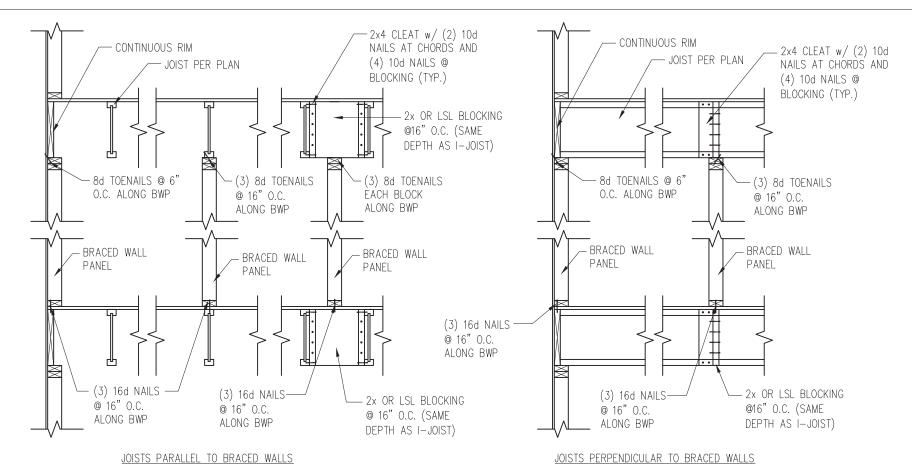
DATE PROJECT #

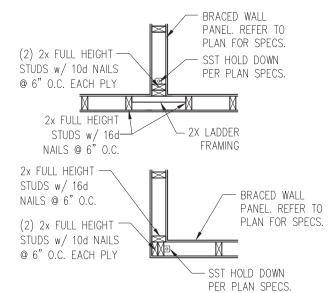
1/7/16 3832

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SHEET

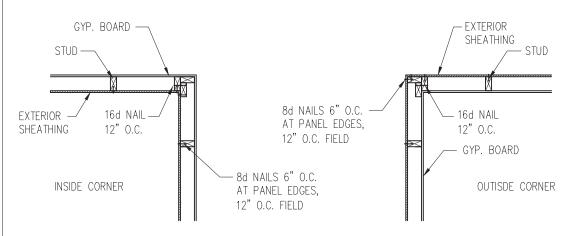
D8f

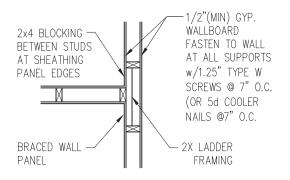




TYP. HOLD DOWN DETAIL
D9f 1" - 1' 0"

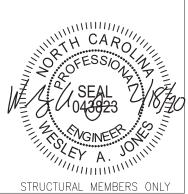
# 1 TYP. WALL PANEL TO FLOOR/CEILING CONNECTION D9f/1" = 1'-0"





TYP. EXTERIOR CORNER FRAMING

3 INTERIOR 3-STUD WALL INTERSECTION
D9f 1" = 1'-0"





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# Standard Details Framing Details - Bracing Smith Douglas Homes 110 Village Trail, Suite 215 Woodstock, GA 30188

CURRENT DRAWING

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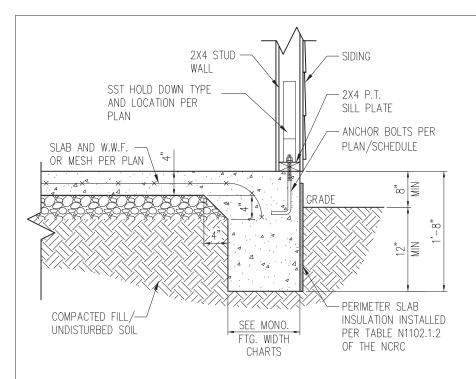
ORIGINAL DRAWING

NO. DATE PROJECT # 0 1/7/16 3832

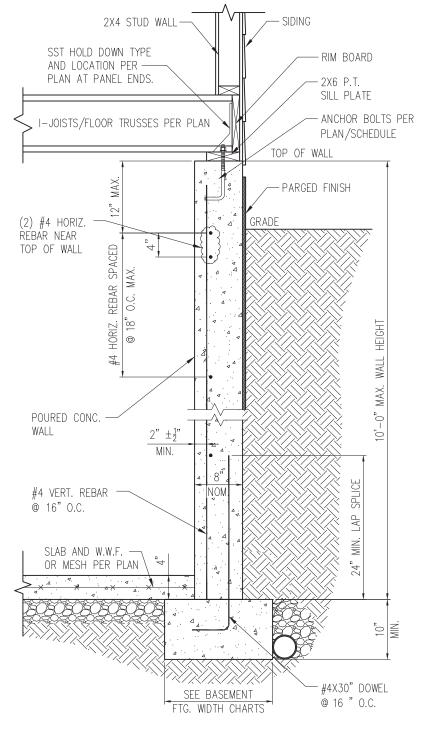
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D9f

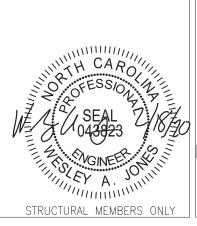


SLAB DETAIL w/ HOLD-DOWN



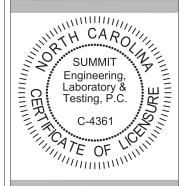
STANDARD - SIDING

BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN





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2

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SHEET

D10f

