# VININGS



# DUNCANS CROSSING LOT 0064

PLAN ID: 020123.1001

# 110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

	DRAWING INDEX	
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	

AREA TABULATIO	N
FIRST FLOOR	1819
TOTAL	1819
GARAGE	411
FRONT PORCH ELEVATION A (COVERED)	33
REAR PATIO	120

## **GOVERNMENTAL CODES & STANDARDS**

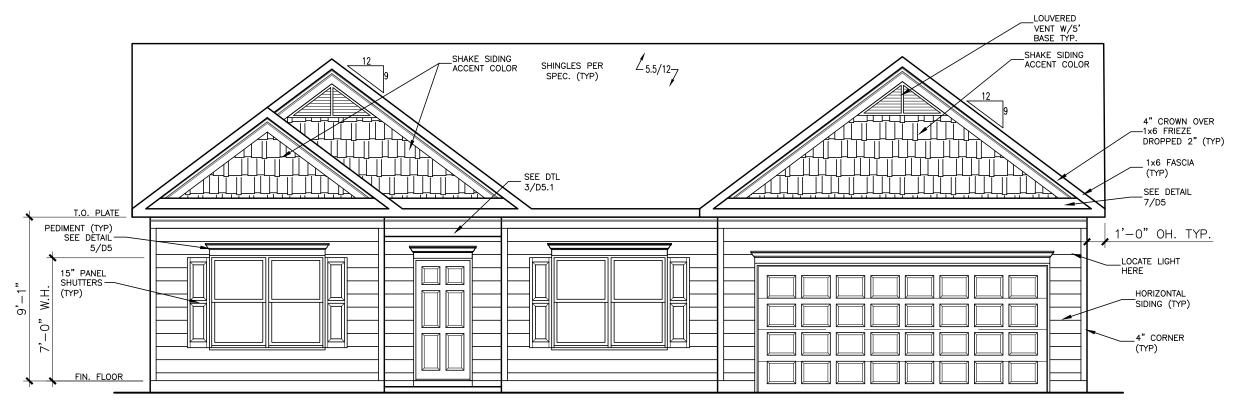
HOME TO BE BUILT TO CONFORM TO ALL APPLICABLE LOCAL CODES, PRACTICES AND STANDARDS

## 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, A5.1.2, A7.2, 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, A5.4.1, A7.2, 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, 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, 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, A5.1-A5.1.2, 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 AND ALL ELEVATIONS OF RANCH PLAN	A1.19, A2.1-A2.3 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

# DUNCANS CROSSING LOT 0064



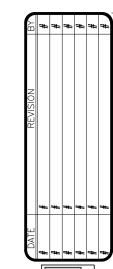
FRONT ELEVATION "A"

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

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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

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ELEVATIONS FRONT ELEVATION VININGS

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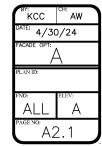


# LOT 0064 SHINGLES PER SPEC (TYP) 9/12 -1X6 FASCIA (TYP) 1'-0" O.H. : TYP. : 5.5/12 LEFT ELEVATION "A" SCALE : 1/8" = 1'-0" 1X6 FASCIA (TYP) — HORIZONTAL SIDING — (TYP) 4" CORNER\_/ (TYP) 9/12 ---REAR ELEVATION "A" HORIZONTAL SIDING -(TYP) 1X6 FASCIA (TYP) 1'-0" 0.H. T<u>YP.</u> RIGHT ELEVATION "A" SCALE : 1/8" = 1'-0"

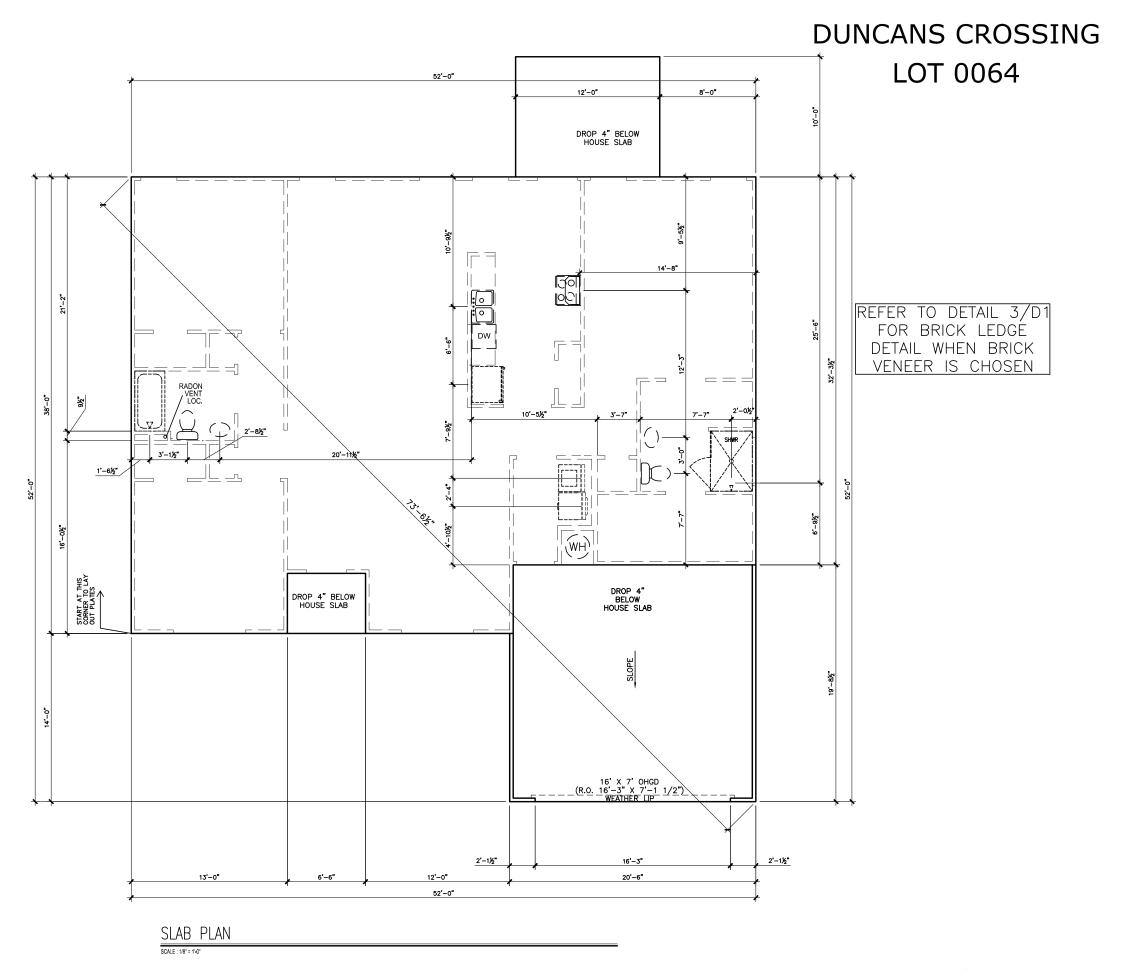


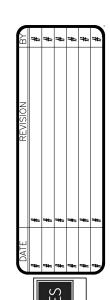
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**DUNCANS CROSSING** 





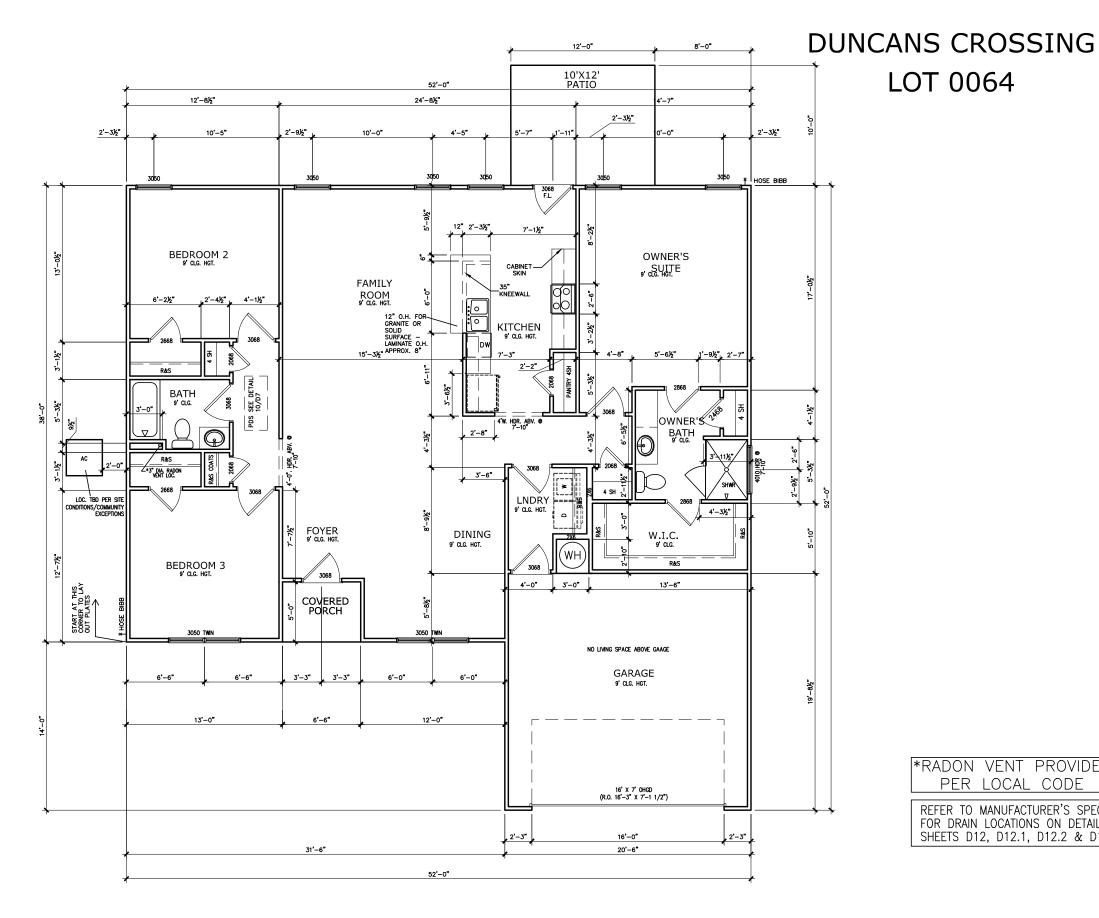
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FOUNDATION PLAN SLAB PLAN VININGS

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BY: KCC	CH:
	0/24
FACADE OPT:	4
PLAN ID:	
FND:	ELEV:
PAGE NO:	3.1



\*RADON VENT PROVIDED PER LOCAL CODE

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

FIRST FLOOR PLAN

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



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FLOOR VININGS FLOOR PLAN FIRST

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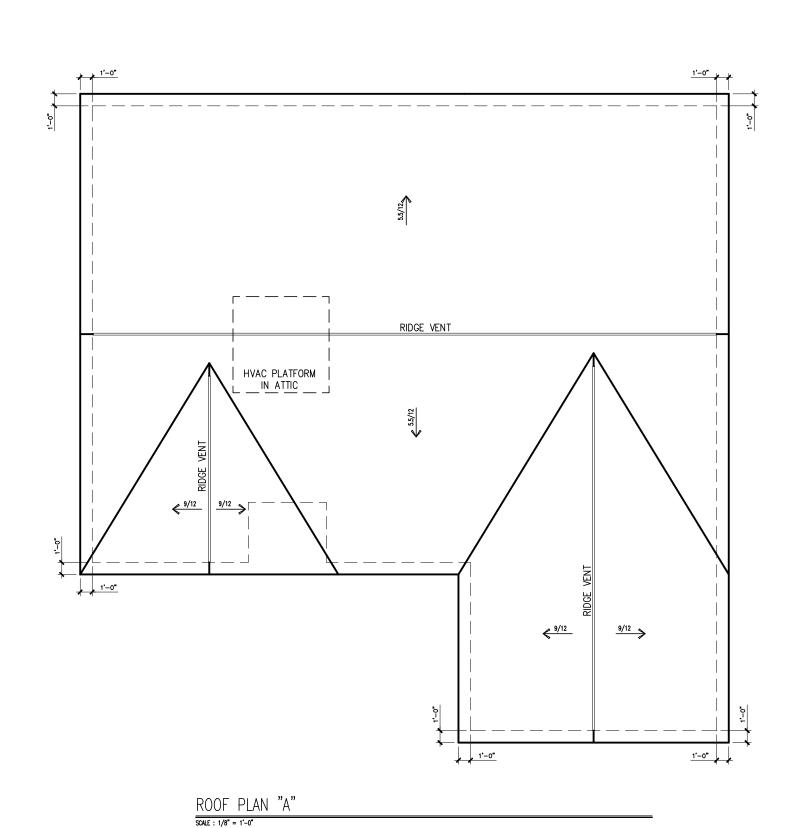
1	KCC KCC	CH: AW
ı	DATE: 4/30	)/24
	FACADE OPT:	7
	PLAN ID:	
	ALL	A
-	PAGE NO:	5.1

# **DUNCANS CROSSING** LOT 0064



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# 10'X12' PATIO DO NOT INSTALL DISPOSAL SWITCH AND OUTLET FOR SEPTIC COMMUNITIES BEDROOM 2 9'-0" OWNER'S FAMILY SUITE ROOM BATH OWNER'S BATH **FOYER** LNDRY! w.I.C. O-DINING BEDROOM 3 GARAGE 7'-8½"

# DUNCANS CROSSING LOT 0064

ELE	ECTRICAL L	LEGE	ND
\$	SWITCH	TV.	TV
\$3	3 WAY SWITCH	φ	120V RECEPTACLE
\$4	4 WAY SWITCH	•	120V SWITCHED RECEPTACLE
Ø	CEILING FIXTURE	•	220V RECEPTACLE
$ \varphi_{\bar{K}}$	KEYLESS	P <sub>GFCI</sub>	GFCI OUTLET
Ą	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCU INTERRUPTER
0	CEILING FIXTURE	† <sub>GL</sub>	GAS LINE
•	FLEX CONDUIT	T <sub>WL</sub>	WATER LINE
СН	CHIMES	¥	HOSE BIBB
± <b>▼</b>	TELEPHONE	B	FLOOD LIGHT
SD/Cd ₩	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET		OFILINO FAN
	GARAGE DOOR OPENER		CEILING FAN
	EXHAUST FAN		ELECTRICAL WIRING
	FAN/LIGHT		CEILING FIXTURE
ELEC.	TRICAL PLANS TO FOLLOW	ALL LOCAL	CODES
APPRO	X. FIXTURE HGTS (MEASUR	ED FROM B	OTTOM OF FIXTURE)
BREA	KFAST/DINING ROOM	63" ABO	VE FINISHED FLOOR
KITCH	IEN PENDANT LIGHTS	33" ABO	VE COUNTER TOP
TWO	STORY FOYER FIXTURE	96" ABO	VE FINISHED FLOOR
CEILI	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

FLOOR

FIRST

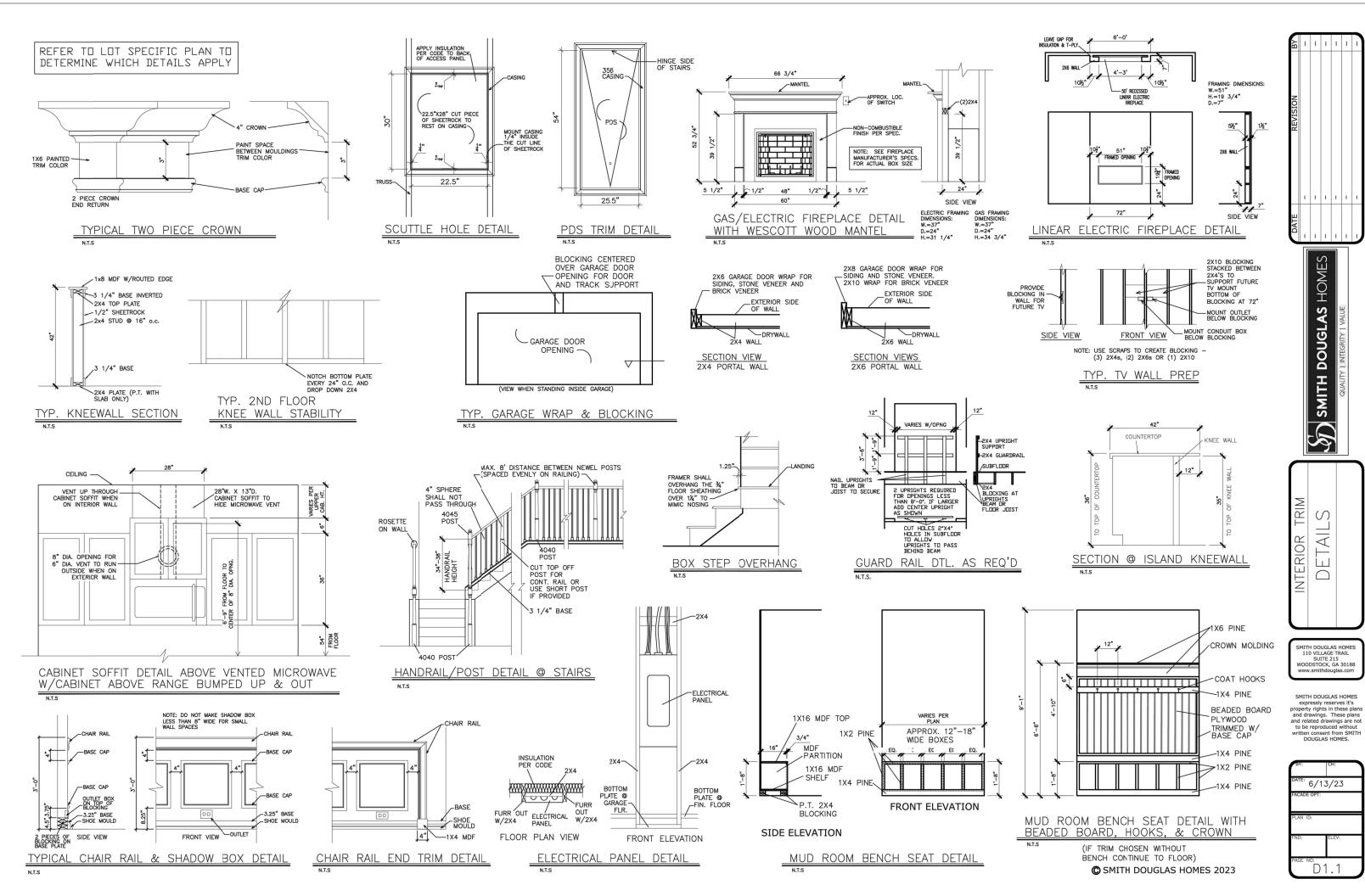
VININGS

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FIRST FLOOR ELECTRICAL PLAN



### 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:

1.	Roof

1.1 Live	. 20 PSF
12 Dead	
1.3 Snow	. 15 PSF
1.3.1 Importance Factor	. 1.0
2. Floor Live Loads	
2.1 Typ. Dwelling	. 40 PSF
2.2 Sleeping 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	15 PSF
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	

# 4.3.1 Vx = 4.3.2 Vy = 5. Component and Cladding (in PSF)

MEAN 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	D
62 Design Category	С
6.3 Importance Factor	
64 Seismic Use Group	1

6.5 Spectral Response Acceleration

6.5.1 Sms = %g

6.5.2 Sml = %g 66 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 ☒

SUMMIT ENGINEERING LABORATORY TESTING

STRUCTURAL PLANS PREPARED FOR:

## VININGS RH

OWNER:

PROJECT ADDRESS:

TBD

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	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
OC.	ON CENTER	TYP	TYPICAL
PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, 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	
C52	Specifications Continued	
S1.Øm	Monolithic Slab Foundation	
S1.Øs	Stem Wall Foundation	
SI.0c	Crawl Space Foundation	
S1.0b	Basement Foundation	
S2.Ø	Basement Framing Plan	
S3.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	
58.0	Second Floor Bracing Plan	

### REVISION LIST:

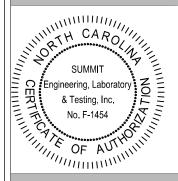
Revision No.	Date	Project No.	Description
1	10.29.18	3832.154R	Added optional bonus room.
2	2.21.19	3832.226	Added optional unfinished basement.
3	3/5/19	3832.226R	Made corrections to header sizes
4	10/17/19	3832.226R2	Moved door to second floor to top of stairs
5	7/7/2 <i>Ø</i> 21		Added LIB Option
6	5.17.23	3832.TØ859	Updated the owner's bath

Duncans Lot 64





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



Coversheet
client
Smith Douglas Homes - Raleig
2520 Reliance Ave
Apex, NC 21539

CURRENT DRAWING

PROJECT Vinings RH

DATE: Ø5/17/2Ø23

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

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

SHEET

CS1

### GENERAL STRUCTURAL NOTES:

- The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entitu.
- The structure is only stable in its completed form. The
  contractor shall provide all required temporary bracing
  during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities 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.
- 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 (30mph)
- 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.
- 5. 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
- II. 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 II of the 2018 NCRC

### CONCRETE

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 3/8: "Building Code Requirements for Reinforced Concrete" and ACI 3/01: "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 42% 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.IR-96: "Guide for Concrete Slab and Slab Construction"
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 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.
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint.
   Reinforcing steel may extend through a saw cut joint.
- 10. All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF. shall be securely supported during the concrete pour. Fibermesh may be used in lieu of WWF.

### 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.
- 3. 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 Řeinforcing 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
- 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 B182.1-1981.
   Lead holes for lag screws shall be in accordance with NDS specifications.
- 6. All beams shall have full bearing on supporting framing members unless otherwise noted.
- T. Exterior and load bearing stud walls are to be 2x4 SPF? @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 IØd 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
- 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.
- The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
- 4. The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.
- Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacturer.

### 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.
- 2. 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.
- 6. Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- 5. Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T4G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

### STRUCTURAL FIBERBOARD PANELS:

- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- 2. 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:

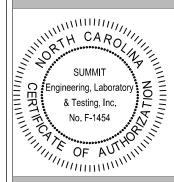
- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and of the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- All steel shall have a minimum yield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







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Coversheet clent Smith Douglas Homes - Raleigh 2520 Reliance Ave Apex, NC 21539

CURRENT DRAWING

PROJECT Vinings RH

DATE: Ø5/17/2Ø23

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

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

**DATE PROJECT •**08/01/2018 3832.154

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SHEET

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### FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2016 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- 20/8 NORTH CARCLINA REDUCETION. AND APPLACED AND PLACED IN ATREDITENT.
  5TRICTURAL CONCRETE TO BE F<sub>6</sub> = 30/00 P9I, PREPARED AND PLACED IN ACCORDANCE MITH ACI STANDARD 3/8.
  FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12\*
  BELOW ADJACENT PRISHED GRADE, OR AS OTHERWISE DIRECTED BY THE

- 3. FOOTMAS TO BE PLACED ON UNDISTURBED EARTH, BEARNIA A MINITUM OF IP
  BELOW ADJACENT PINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE
  CODE ENFORCEMENT CHICIAL.

  1. FOOTMAS (1925 BASED ON A PRESUPPTIVE SOIL) BEARNIA CAPACITY OF 2000
  PSF. CONTRACTOR 16 SOLELY RESPONSIBLE FOR YERRYING THE SUITABILITY
  OF THE SITE SOIL CONDITIONS AT THE TIPE OF CONSTRUCTION,

  5. FOOTMAS FROUDE 2° MINITUM FOOTMAS PROJECTION FROM THE FACE OF
  MASCORY.

  6. MAXIMUM DEPTH OF INBAL MACED FILL AGAINST MASCINEY WALLS TO BE AS
  SPECIFIED IN SECTION RADA! OF THE 2018 NORTH CAROLINA RESIDENTIAL
  BUILDING CODE.

  1. PILASTERS TO BE BONDED TO PERIFIETER FOUNDATION WALL.

  6. PROVIDED FORMINATION WAILLATION FOR ALL FOUNDATIONS PER 2018 NORTH
  CAROLINA RESIDENTIAL BUILDING CODE

  7. PROVIDED PERIPITETE IN BUILLATION FOR ALL FOUNDATIONS PER 2018 NORTH
  CAROLINA RESIDENTIAL BUILLATION FOR MASSILE OF THE 2018 NORTH
  CAROLINA RESIDENTIAL BUILLATION FOR MASSILE OF THE 2018 NORTH
  CAROLINA RESIDENTIAL CODE

  1. CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.

  1. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH
  CAROLINA RESIDENTIAL CODE SECTION RASIS MINIMIN MY DID BOLTS

  9PACED AT 6 0° ON CENTER WITH A THINNING PREDIPTION INTO MASONEY
  OR CONCRETE. ACCORDER COLTS SHALL BE 2° PROVIDED THE DID OF EACH PLATE

  9PACED AT 6 0° ON CENTER WITH A THINNING PREDIPTION INTO MASONEY
  OR CONCRETE. ANCHOR BOLTS SHALL BE 2° PROVIDED THE DID OF EACH PLATE

  9PACED AT INTO MASONEY
  OR CONCRETE. ANCHOR BOLTS SHALL BE 2° PROVIDED THE DID OF EACH PLATE

  9PACED AT INTO MASONEY

  18. ABBREVIATIONS.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS SC = STUD COLUMN EE = EACH END 9J = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER OC = ON CENTER PL = POINT LOAD TJ = TRIPLE JOIST CL = CENTER LINE
- 14. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16"
- ALL PIERS TO BE IS "16" MASONRY AND ALL PILASTERS TO BE 8"XIS" MASONRY, TPICAL, (IMO)

  WALL PROTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN

  A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A

  PROFESSIONAL GEOTECHNICAL ENGINEER OR HIS GUAL-IFIED

  REPRESENTATIVE E ISOLATED AREAS OF YELDIONS HATERIALS AND/OR

  POTENTIALLY EXPANSIVE SOLIS ARE DISSERVED IN THE POOTING

  EXCAVATIONS AT THE THE OF CONSTRUCTION, SIMPHIT BUSINEERING,

  LAEDRATORY & TESTING, P.C. HIST BE PROVIDED THE OPPORTUNITY TO

  REVIEW THE FOOTING DESIGN PROOR TO CONCRETE PLACEMENT.

  1. ALL FOOTINGS & SLABS ARE TO BEAR ON WINDISTURBED SOLI OR 95%

  COMPACTED FILL, VERRIED 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 NEVISED ON 100/12018. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWITHIN THE RESPONSIBILITY OF THE CLIENT TO NOTIFY WITHIN A PROPERTING, LADORATORY & TESTING, P.C. RANY CHANGES ARE HADE TO THE RECHITECTURAL PLANS PRIOR TO CONSTRUCTION SWITHIN ENGINEERING, LADORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WENDER WITHIN THE ACHITECTURAL PLANS WENDER WITHIN THE DATE LISTED ABOVE.

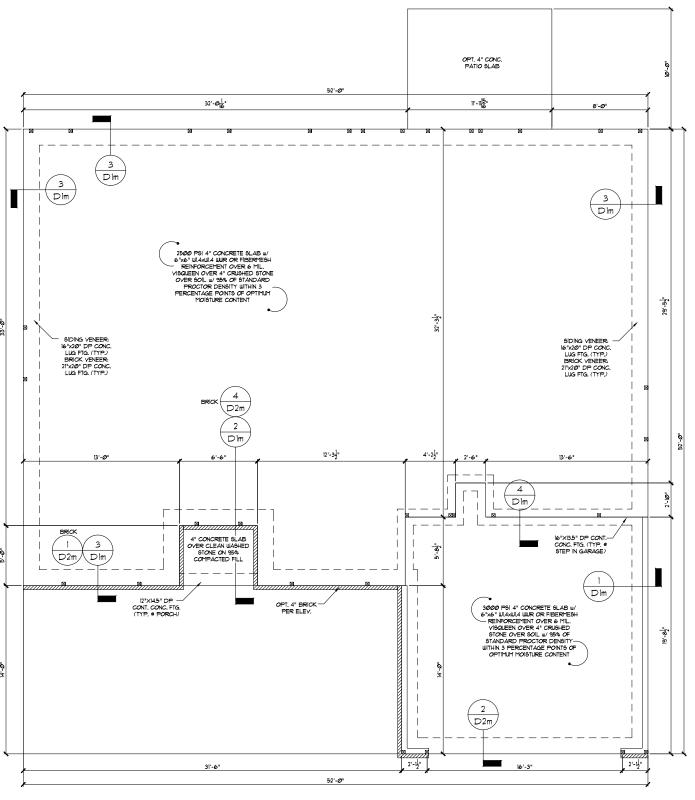
NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REGUIRED UHEN SLAB IS INSTALLED ON UELL-DRAINED OR SAUD-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R405.1

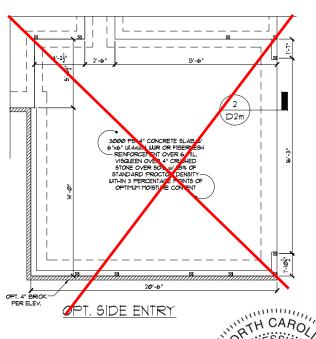
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION







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PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

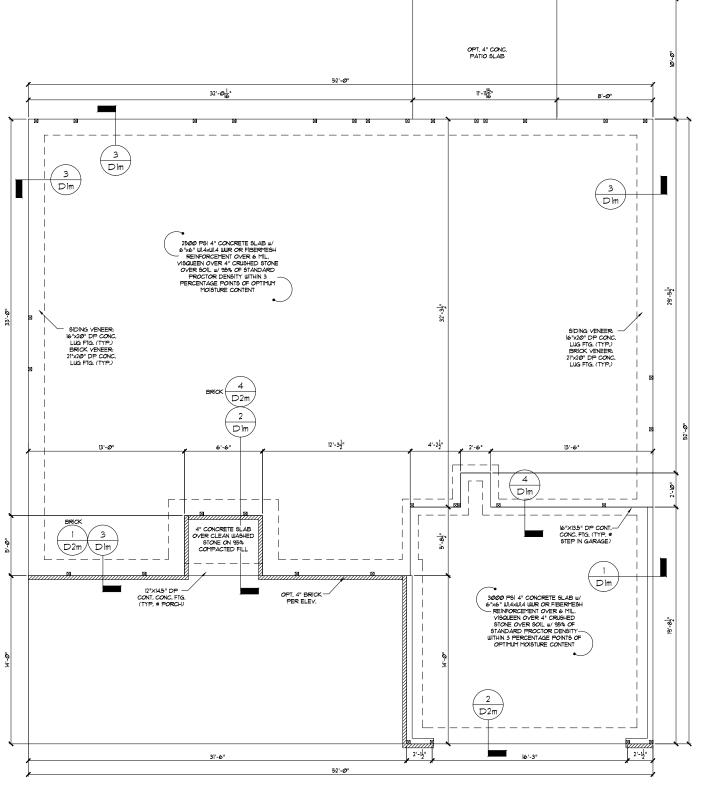
ORIGINAL DRAWING

DATE PROJECT \*

Ø8/Ø7/2Ø18 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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ELEVATIONS ADG

### GENERAL STRUCTURAL NOTES:

- GENERAL STRUCTURAL NOTES:

  1. CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING COOPE WITH ALL LOCAL APPENDMENTS.

  2. CONTRACTOR SHALL VERRIY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH THE CONTRINS OF THE DRIVING FROM THE SPECIFIC PROJECT, ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAY.

  3. CONTRACTOR IS RESPONSIBLE FOR REPOYDING IETHOCARY BRACKING REGUIRED TO RESIST ALL FORCES SHOCANIFISED DURING ERECTION.

  3. CONTRACTOR IS RESPONSIBLE FOR REPOYDING IETHOCARY BRACKING REGUIRED TO RESIST ALL FORCES SHOCANIFISED DURING ERECTION.

  4. PROPERTIES USED IN THE DESIGN AREA SO ALLOUS.

  5. ALL BOOKES SHOCANIFISED DURING ERECTION.

  6. ALL BEANS SHALL BE SHEPONTED WITH A (2) 2x4 \*2 SFF STUD COLUMN AT EACH END MLESS HOTED OTHERS SHALL BE "APPENDED ON PLAY ALL STUD COLUMN AND JORIST SHALL BE "A SFF INLESS NOTED ON PLAY ALL STUD COLUMN AND JORIST SHALL BE "A SFF INLESS NOTED ON PLAY ALL STUD COLUMN AND JORIST SHALL BE "A SFF STUD COLUMN AT EACH END MLESS HOTED OTHERS HALL BE GRADE 60 BARS CONFORTING TO ASTM AGIS AND SHALL HAVE A NINIMIMIT COYER OF ST.

  3. FORDDATION ANCHORAGE SHALL BE CONSTRUCTED FER THE 2018 NORTH CAROLINA RESIDENTIAL COORS SHALL BE USED THEN TO THE AUTO THE SECTION. MINIMIM 10/12 AND COOR SHALL BE USED THE TABLE SECTION. MINIMIM 10/12 AND COOR SHALL BE USED THE TABLE.

  2. CONTRACTOR TO PROVIDED LOCKOUTS WHEN CELLING JOISTS SPAN PERFENDICLIAL AT TO ASTMIL BOOK THE PLATE.

- PERFENDICUL AR TO RAFTERD.

  9. FLITCH BEA\*16, 4-FLY LV, 5 AND 3-FLY 91DE LOADED LV, 5 SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS 9PACED AT 24" OC. (\*MAX) 5TAGGERED O'R EGUIVALENT COMECTIONS PER DETAIL (\*D3); MIX EDGE DISTANCE SHALL BE 2" AND (?) BOLTS SHALL BE LOCATED MIXIM 6" FROM EACH END 0" THE BEA\*1.

  11. ALL NON-LOAD BEARING HEADERS SHALL BE (\*) FLAT 7x4 95F\* 9, DROPPED, FOR NON-LOAD BEARING HEADERS SHALL BE (\*) FLAT 2x4 95F\* 9, DROPPED, FOR CHAN 2"-0" OF CRIPPLE WALL ABOVE, SHALL BE (?) FLAT 2x4 95F\* 9, DROPPED, (\*ULESS NOTED OTHERWISE)

  12. ABBREVIATIONS:

NOTE:

- SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER OC = ON CENTER PL = POINT LOAD DJ = DOUBLE JOIST GT = GIRDER TRUSS 9C = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST
- CL = CENTER LINE

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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SHITH DOLLALS A HOTEL COMPLETED PREVISED ON <u>MUTURE</u>, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWITHIT ENGINEERING, LADRONTORY I TESTING, P.C. FANY CHANGES ARE HADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SWITHIT ENGINEERING, LADRONTORY I TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WEN USED WITH ACCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

KING STUD REQUIREMENTS KINGS (EACH END) OPENING WIDTH 16" O.C. 24" O.C. LESS THAN (1) (1) 3'-@" 3'-@ TO 4'-@" 4'-@" TO 8'-@" 8'-@" TO 12'-@" KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

HEADER TAG	BEAM TAG	SIZE	JACKS (EACH END
-	ы	(1) 14" FLOOR JOIST	(2)
-	B2	(2) 14" FLOOR JOIST	(2)
Α	B3	(2) 2x6	(1)
В	B4	(2) 2x8	(2)
С	B5	(2) 2xlØ	(2)
D	B6	(2) 2x12	(2)
E	вт	(2) 9-1/4" LVL	(3)
F	B8	(2) II-7/8" LVL	(3)
G	B9	(2) I4" LVL	(3)
н	BIØ	(2) 16" LVL	(3)
T.	BII	(2) IS" LVL	(3)
J	B12	(2) 24" LVL	(4)
K	BI3	(3) 9-1/4" LVL	(3)
L	B14	(3) II-7/8" LVL	(3)
М	Bl6	(3) 14" LVL	(3)
N	ВΠ	(3) 16" LVL	(3)
0	BIS	(3) 18" LVL	(3)
P	BI9	(3) 24" LVL	(4)

HEADER/BEAM SCHEDULE

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.

LINTEL SCHEDULE				
TAG	SIZE	OPENING SIZE		
0	L3×3×1/4"	LESS THAN 6'-0"		
2	L5x3x1/4"	6'-0" TO 10'-0"		
3	L5X5-1/2"X5/16"	GREATER THAN 10'-0"		
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS		

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

ALL HEADERS WITH BRICK ABOVE: (1)(UNO)

WALL STUD SCHEDULE IST 4 2ND FLOOR LOAD BEARING WALLS: 2% STUDS © 24" O.C. OR 2%4 STUDS © 16" O.C. IST FLOOR LOAD BEARING WALLS SUPPORTING 2ND FLOOR • WALK-UP ATTIC: 2%6 STUDS © 16" O.C. OR 2%4 STUDS © 12" O.C. 26 STUDS # 16" OC. OR 2x4 STUDS # 12" OC.
NON-LOAD BEARING WALLS (ALL FLOORS).
2x6 STUDS # 14" OC.
NON-LOAD BEARING WALLS (ALL FLOORS).
2x4 STUDS # 24" OC. 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")

(2)S.C. -(2)S.C. ONLY 7777 G \ WAH CARO ON FESSION SIDE ENTRY OFESSION NGINEER T. BYB/23 Duncans \_ot 64

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6 <u>@</u> <u>8</u> Homes Ave Framing Douglas H Reliance Floor PROJECT Vinings Дрех, CLIENT Smith 1 2520 First

CURRENT DRAWING

DATE: Ø5/17/2Ø23

5CALE: 1/8"=1'-@"

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

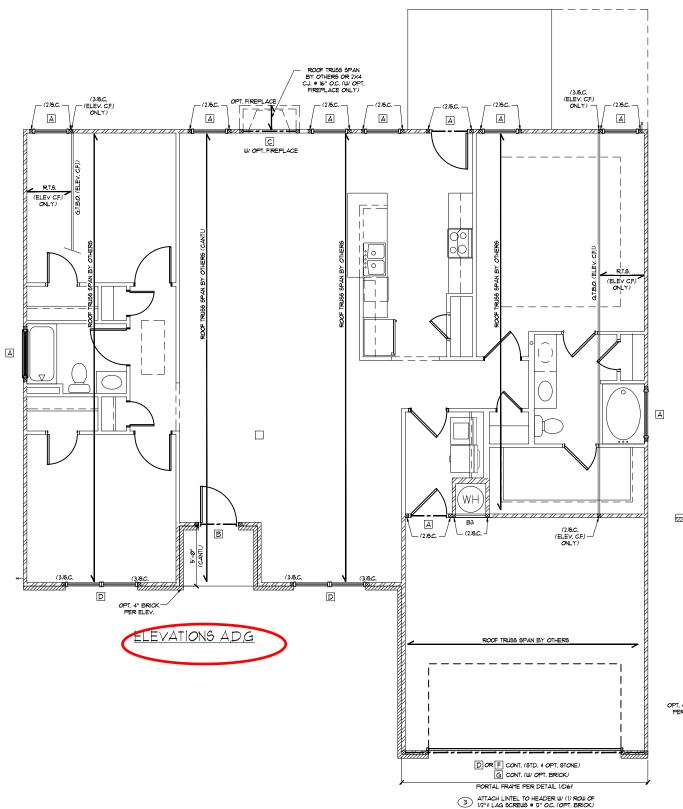
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TRUSS UPLIFT CONNECTOR SCHEDULE				
MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND	
535 LB6	H2.5A	PER WALL SHEATHIN	G 4 FASTENERS	
1070 LBS	(2) H2.5A	CSI6 (END = 13")	DTT2Z	
1245 LBS	HT52Ø	CSI6 (END = 13")	DTT2Z	
172Ø LBS	(2) MTS2Ø	(2) CSI6 (END = 13")	DŤŤ2Z	
249Ø LB6	(2) HT52Ø	(2) C6l6 (END = 13")	HTT4	
2365 LBS	LGT3-9D52.5	(2) CSI6 (END = 13")	HTT4	
I ALL PRODUCTS LISTED ARE SIMPSON STRONG, TIE EQUIVALENT PRODUCTS				

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

2. UPLIET VALUES LISTED ARE POR SPF 9 GRADE MEMBERS.

3. REFER TO TRUSS LAYOUT PER MANUF FOR UPLIET VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTIONS OF SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.

4. CONTACT SIMMIT 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 FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIDD UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION RE40135 OF THE 2018 NOCE, REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENT.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SHITH DOUGLAS HOMES COMPLETED/REVISED ON LONGLASS HOMES COMPLETED/REVISED ON LONGLASS HOMES COMPLETED/REVISED SHITH TO REPORT AND THE CLEEN TO NOTIFY SHITH THE CLEEN TO NOTIFY ARE HADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SHITH TENDERRYS, LABORATION 1 TESTING, P.C. CANNOT GLIARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

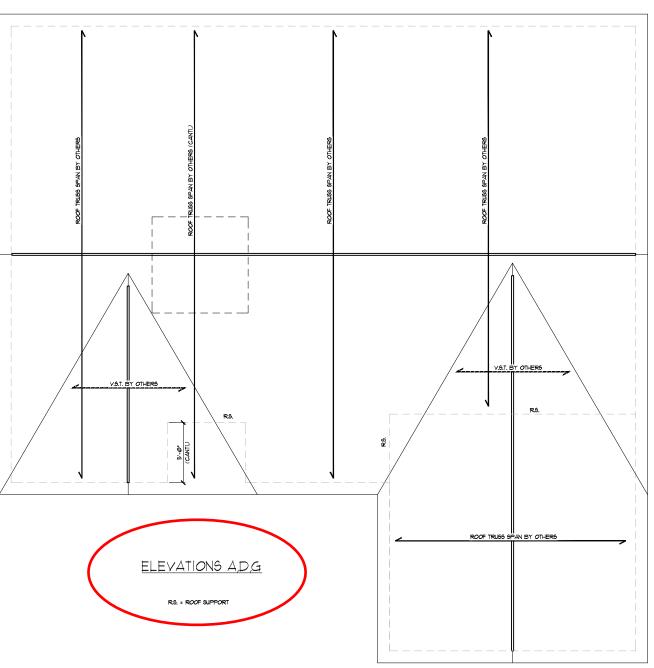
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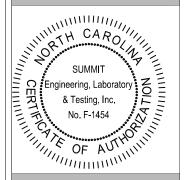
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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





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

### CURRENT DRAWING

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DATE: Ø5/17/2Ø23

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

PROJECT \*: 3832.TØ859

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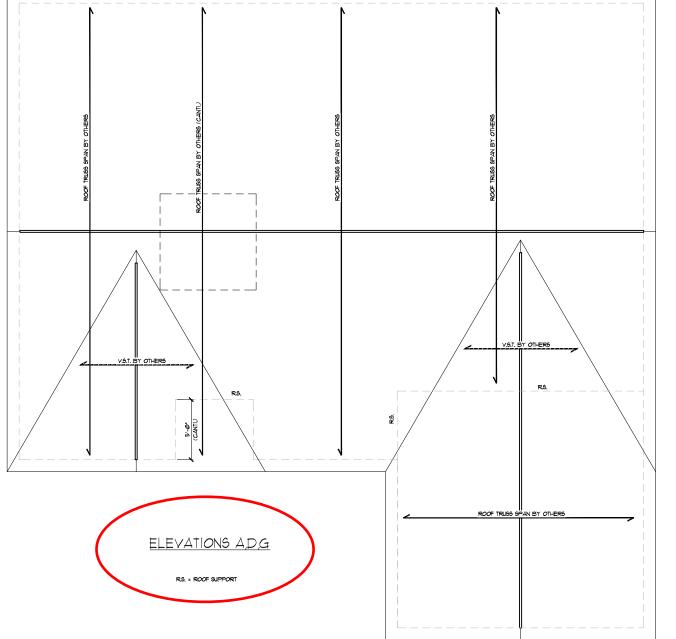
DATE PROJECT \*

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REQUIRED BRACED WALL PANEL CONNECTIONS				
		MIN.	REQUIRED (	CONNECTION
METHOD	MATERIAL	THICKNESS	# PANEL EDGES	# INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 6 ° O.C.	6d COMMON NAILS © 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL6** # 7" O.C.	5d COOLER NAILS** # 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS # 12" O.C.
PF	IIOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1
"OR EQUIVALENT PER TABLE R1023.5				

### BRACED WALL NOTES:

- UMALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6/07/10
  FROM THE 2009 NORTH CARPOLINA RESIDENTIAL CODE.
  UMALLS ARED ESIGNED FOR SEISPING ZONES A-C AND ULTMATE WIND SHEEDS UP TO 18/0 MPH.
  SHEER TO ARCHITECTIRAL PILAN FOR DOORWINDOW OPENING SIZES.
  BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R6/07/10.
  ALL DRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED WALL PER FOR ISOLATED PANEL INSTRUCT AND INTEREST OR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  MINIMM PAKEL LENGTH SHALL BE PER TABLE REQUIZOL.

  THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH HINMING 12" GYPSUM BOARD (IND).

  FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- BETIJEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OFFENNAS, AND ON GABLE END WALL S.

  9. FLOORS SHALL NOT BE CANTILLEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL BY SHEET OF EACH BY A BRACED WALL LINE.

  1. AL BRACED WALL ATAMS.

  1. THE MACHINE FORCE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 HEET.

  1. THAS ONE OF THE TOTAL SHALL SHITLA BY THAN IN FRET OF EACH SHALL BY DEVELOPED AND A BRACED WALL PANELS SHALL BE DESIGNED IN ACCORDANCE WITH FROM THE DESIGNED IN ACCORDANCE WITH FROM THE RESOLUTION STO RESOLUTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION RESOLUTION SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RESOLUTION WALL SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RESOLUTION WALL SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RESOLUTION RES

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

GB = GYP9UM BOARD
C9-XXX = CONT. 9HEATHED
FF = PORTAL FRAME
W9P = WOOD STRUCTURAL PANEL
ENG = ENGINEERED SOLUTION
FF-ENG = ENG. PORTAL FRAME

THESE FLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH POAGLAS HOMES COMPLETED REVISED ON SOLIZONS. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWIMIN FOR THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SWIMIN TENDER ARE CHITECTURAL PLANS PRIOR TO CONSTRUCTION SWIMIN TENDERS ARE CHARTORY I TENDER, PLA CANNO CALARYTEE THE ADEQUIACY OF THESE STRUCTURAL PLANS WEN USED WITH ARCHITECTURAL PLANS WEN DESCRIPTION THE ACCURACY CHARTES THE ADEQUIACY OF THESE STRUCTURAL PLANS WEN DATE LISTED ABOVE.

FIRST FLOOR BRACING (FT)					
CONTINUOUS	CONTINUOUS SHEATHING METHOD: RECTANGLE 1				
	REQUIRED PROVIDED				
FRONT	5.8	IT.Ø			
LEFT	LEFT 7.4 13.1				
REAR 5.8 34.0					
RIGHT	RIGHT 7.4 32.3				

FIRST FLOOR BRACING (FT)				
CONTINUOUS	CONTINUOUS SHEATHING METHOD: RECTANGLE 2			
	REQUIRED PROVIDED			
FRONT	3.0	Π.Ø		
LEFT 3,1 13,1				
REAR 3.0 34.0				
RIGHT	3.1	32.3		

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

### STRUCTURAL MEMBERS ONLY

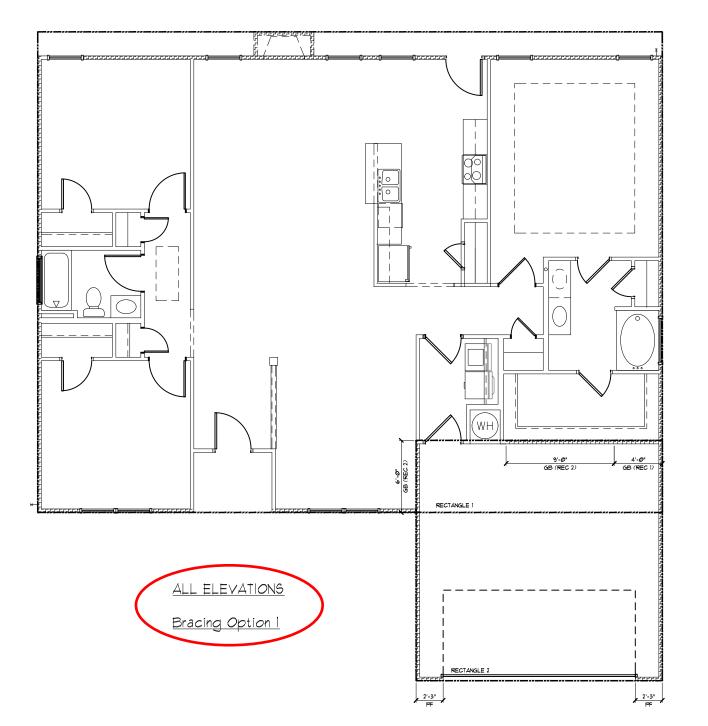
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

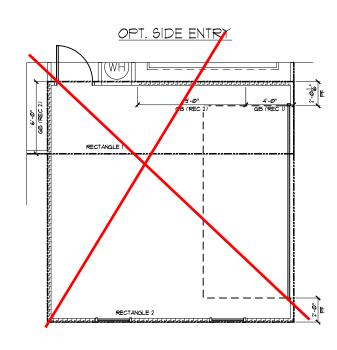
REAR

HOUSE 古 FRONT



FIRST FLOOR BRACING (FT)				
CONTINUOUS SHEAT	CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE I			
	REQUIRED PROVIDED			
FRONT	5.8	15.Ø		
LEFT	7.4	34.Ø		
REAR	5.8	24,6		
RIGHT	7.4	28.3		

FIRST FLOOR BRACING (FT)			
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2			
	REQUIRED PROVIDED		
FRONT	3.0	14.5	
LEFT	3.1	Π.Ø	
REAR	3.0	4.5	
RIGHT	3.1	6.0	



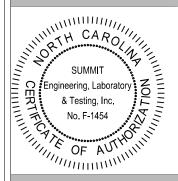
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6 <u>@</u> Homes Ave Bracing Douglas H Reliance , Floor PROJECT Vinings CLIENT Smith 1 2520 1 First

CURRENT DRAWING

DATE: Ø5/17/2Ø23

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

PROJECT \*: 3832.TØ859

DRAWN BY: EO

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT \* 08/07/2018 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S7.0

REQUIRED BRACED WALL PANEL CONNECTIONS				
	MIN		REQUIRED C	ONNECTION
METHOD	MATERIAL	THICKNESS	# PANEL EDGES	<ul> <li>INTERMEDIATE</li> <li>SUPPORTS</li> </ul>
C5-W5P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS © 6" O.C.	6d COMMON NAILS 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS # 7" O.C.	5d COOLER NAILS** * 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS © 6" O.C.	6d COMMON NAILS © 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1
"OR EQUIVALENT PER TABLE RT02.3.5				

### 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 URLET PANELS SHALL BE TO CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING
- COT EXCEED IN FIET FOR ISOLATED PANEL METILOD AND IS THEIR FLAN CONTINUOUS SHEATHING METILOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  CALCULATIONS.

  MINIMUM PANEL LENGTH SHALL BE FER TABLE REGISSON.

  IT HE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM IS' GYPSIM BOARD (IND.)

  FOR CONTINUOUS SHEATHING METILOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHARD ESCHALLS SHOULDING INFILL AREAS BETWEEN BRACED WALL PANELS SHOULDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE BID WALLS.

  FOR COST SHALL NOT BE CANTILEVERED MORE THAN 24' BEYOND THE FORDOTTON OR BEARING WALL BELOW WITHOUT ADDITIONAL BENERING CALCULATIONS.

  A BRACED WALL PANEL SHALL BE LOCATED WITHIN IZ FEET OF EACH BID OF A BRACED WALL LINE.

  IT THE MAXIMM BOGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.

  MASONRY OR CONCRETE STEM WALLS WHAT A LENGTH OF AS' OR LESS SUPPORTING A BRACED WALL PANELS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGISSANCE.

  BRACED WALL PANEL CONNECTIONS TO FLOORS/CHILL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGISSANG.

  BRACED WALL PANEL CONNECTIONS TO PROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGISSANG.

  CRIPPLE WALLS AND WALK OUT BASETIENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGISSANG.

  CRIPPLE WALLS AND WALK OUT BASETIENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGISSANG.

  CRIPPLE WALLS AND WALK OUT BASETIENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGISSANG.

  REGISSAL WALLS PANEL BE DESIGNED IN ACCORDANCE WITH FIGURE REGISSAL HALL BE DESIGNED IN ACCORDANCE WITH SECTION REGISSANG.

  CRIPPLE WALLS AND WALK OUT BASETIENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGISSANG.

  REGISSAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGISSAL SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGISSANG.

GB = GYPSUM BOARD USP = WOOD STRUCTURAL PANEL CS-XXX = CONT. SHEATHED BNG = BNG.NEERED SOLUTION PF-ENG = ENG. PORTAL FRAME

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED REVISED ON 18/1/16/19. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY I TESTING, P.C., F.ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY I TESTING, P.C., CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS UNEN USED WITH ARCHITECTURAL, PLANS UNEN USED WITH ARCHITECTURAL, PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

FIRST FLOOR BRACING (FT)				
CONTINUOUS SHEATHING METHOD: RECTANGLE 1				
	REQUIRED PROVIDED			
FRONT	5.8	IT.Ø		
LEFT	1,4	13.1		
REAR 5.8 34.0				
RIGHT	7.4	32.3		

FIRST FLOOR BRACING (FT)				
CONTINUOUS	CONTINUOUS SHEATHING METHOD: RECTANGLE 2			
	REQUIRED PROVIDED			
FRONT	3.0	I7.Ø		
LEFT	3.1 13.1			
REAR	3.0 34.0			
RIGHT	3.1 32.3			

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

### STRUCTURAL MEMBERS ONLY

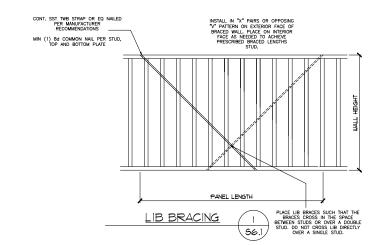
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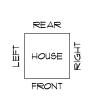
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

### FIRST FLOOR BRACING PLAN

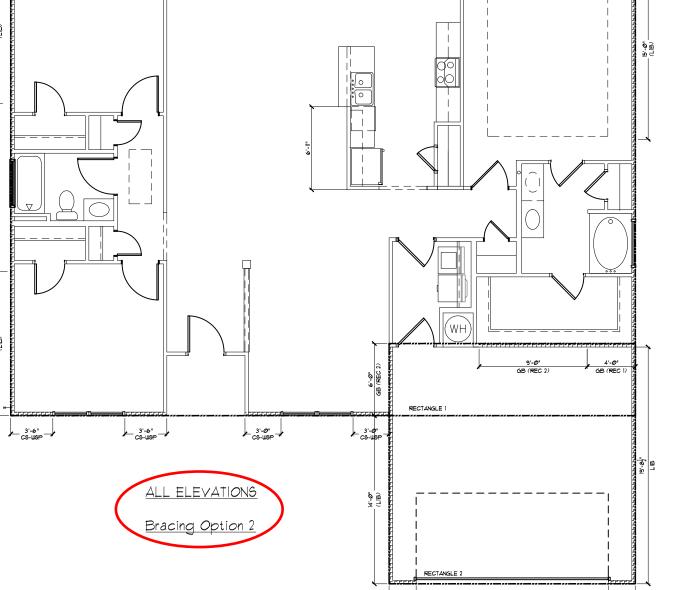
SCALE: 1/8"=1"

INSTALL HOLD-DOWNS PER SECTION R602.10.4 AND FIGURE





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		eel (carifed assessment address) (care) (carefully)	
(FIB)			
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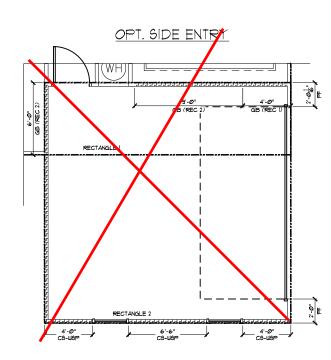
2'-3"

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 1						
REQUIRED PROVIDED						
FRONT	5.8	19.7				
LEFT	7,4	12.00				
REAR	5.8	13.6				
RIGHT 1.4 IT.3						

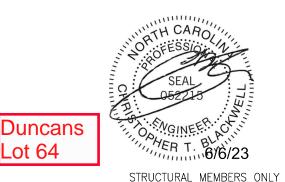
SEE SHEET STO FOR NOTES

AND MORE INFORMATION

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2						
REQUIRED PROVIDED						
3.0	14.5					
3.1	12.0					
3.0	13.6					
3.1	13.5					
	HING METHOD: SIDE EN REQUIRED 3,0 3,1 3,0					

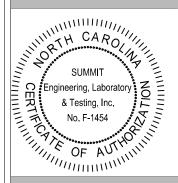


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### CURRENT DRAWING

DATE: Ø5/17/2Ø23

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

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

SHEET

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.
- 3. The SER is not responsible for construction sequences. methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.
- 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.
- 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.
- 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:

- 1. 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)
- 2. 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.
- 7. 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.
- 9. 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

- 1. Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- 2. Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for 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: 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
- 5. Concrete slabs—on—grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction".
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions
- 7. Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
- 10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour. Fibermesh may be used in lieu of W.W.F.

### CONCRETE REINFORCEMENT:

- 1. 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.
- 2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement
- 3. Application of fibermesh per cubic yard of concrete shall egual a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- 4. Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard.
- 5. Steel Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- 6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- 8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- 9. Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the 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. 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. Fy = 285 psi
- 2.4. Fc = 700 psi3. Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15.

accordance with AWPA standard C-2

- All other moisture exposed wood shall be treated in 4. Nails shall be common wire nails unless otherwise noted.
- 5. Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- 6. 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 he continuous
- 8. Individual studs forming a column shall be attached with one 10d nail @6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be 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" 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.

- 1. 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:

- 1. 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.
- Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building
- 6. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

### STRUCTURAL FIBERBOARD PANELS:

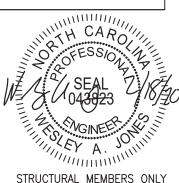
- 1. Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards
- 2. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in 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:

1. 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.

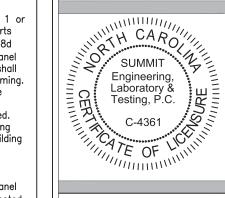
### STRUCTURAL STEEL:

- 1. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and 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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2 Specifications 21. glas Homes Trail, Suite , GA 30188 110 Village T Woodstock, ( Dougl and Notes Smith |

CURRENT DRAWING

Details

Standard

DATE: 2/18/20

SCALE: NTS PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAI

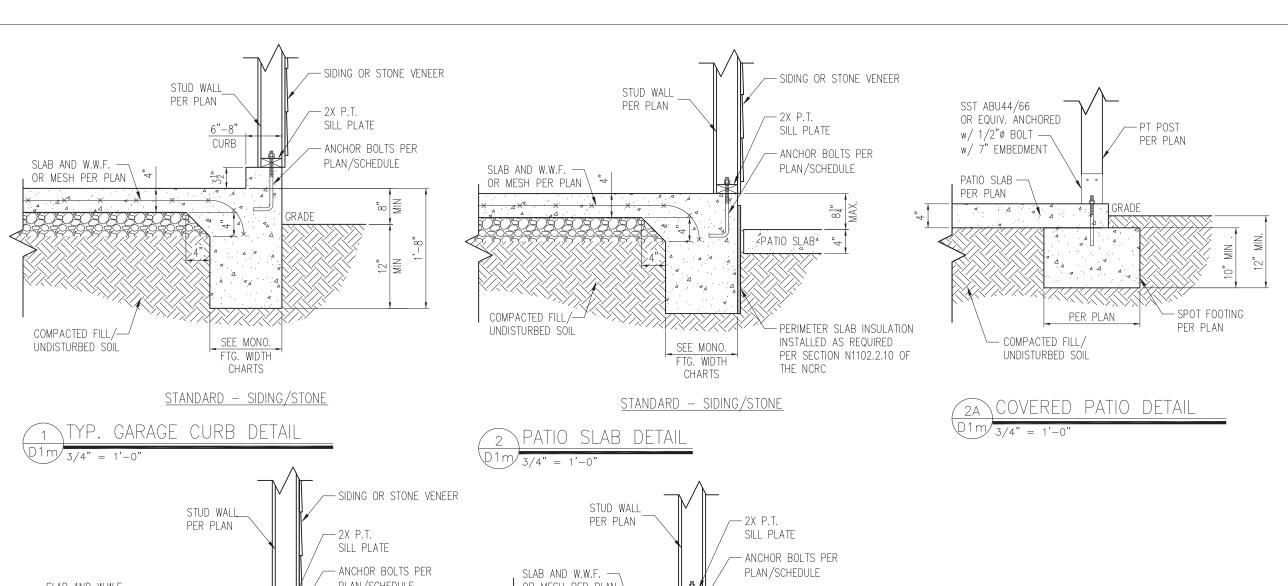
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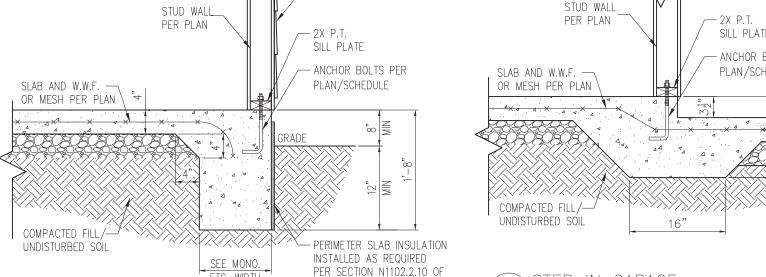
DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS<sub>2</sub>





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

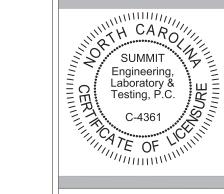
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY				
	1500 PSF	2000 PSF	2500 PSF		
1 STORY - STD.	16"	16"	16"		
1 STORY - BRICK VENEER	21"*	21"*	21"*		
2 STORY - STD.	20"	16"	16"		
2 STORY - BRICK VENEER	25"*	21"*	21"*		
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC					

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

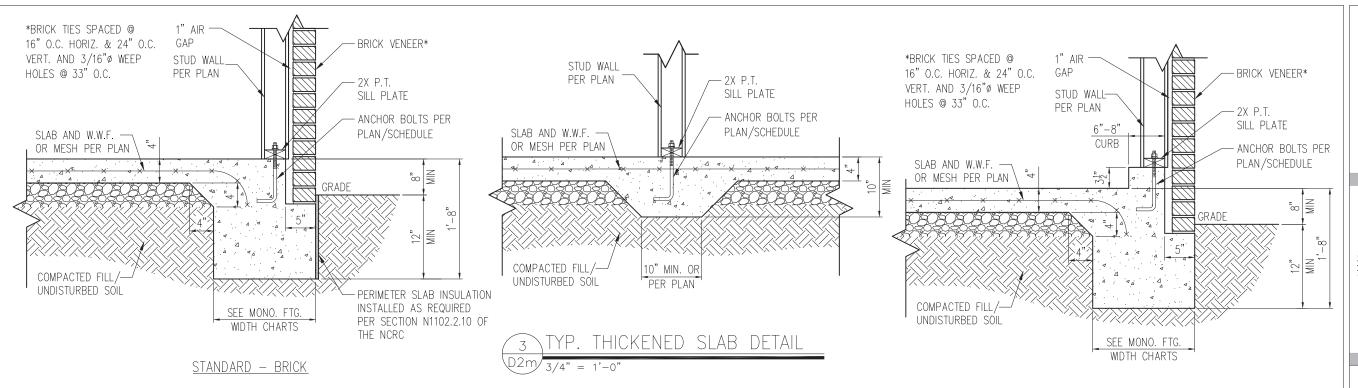
ORIGINAL DRAWING

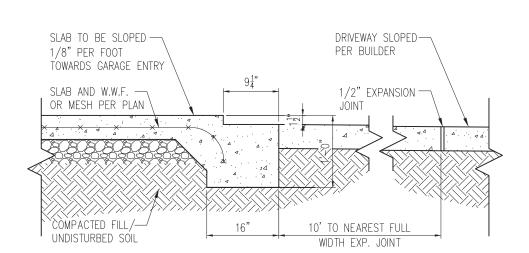
DATE PROJECT # 1/7/16

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SHEET

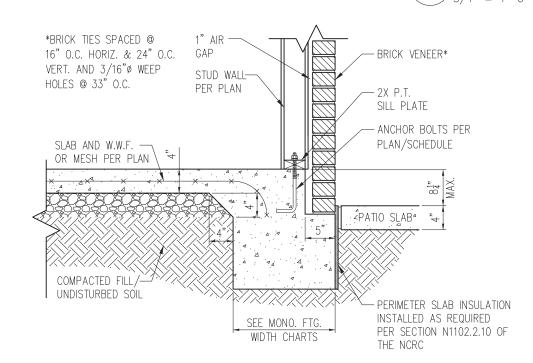
D<sub>1</sub>m





YP. SLAB DETAIL W/ BRICK VENEER



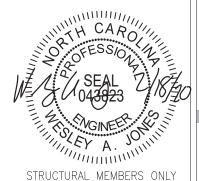


STANDARD - BRICK

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

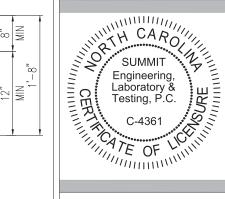
TYP. GARAGE CURB DETAIL

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

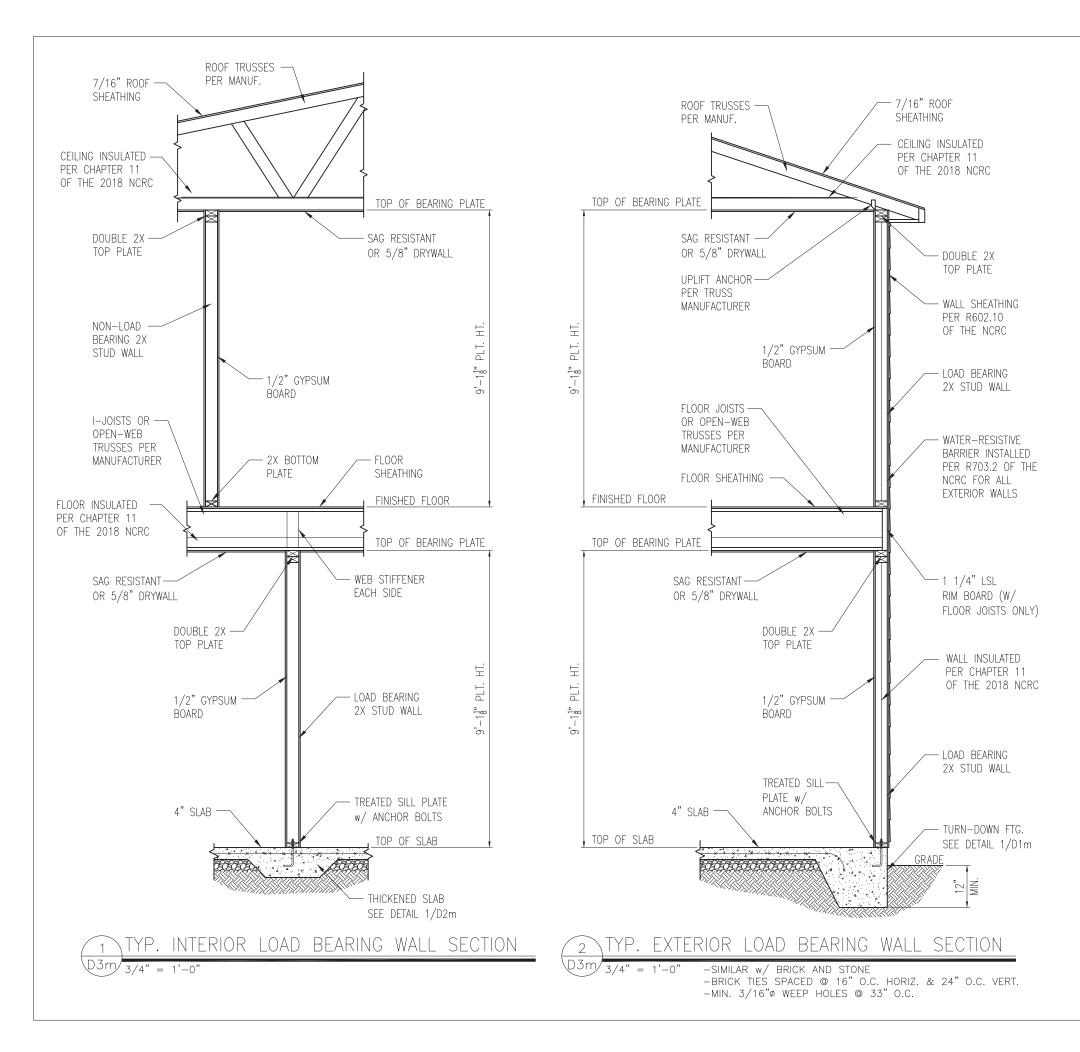
ORIGINAL DRAWING

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

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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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THE CAROLLING

2

21

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PRO1FCT #: 3832

DRAWN BY: LBV

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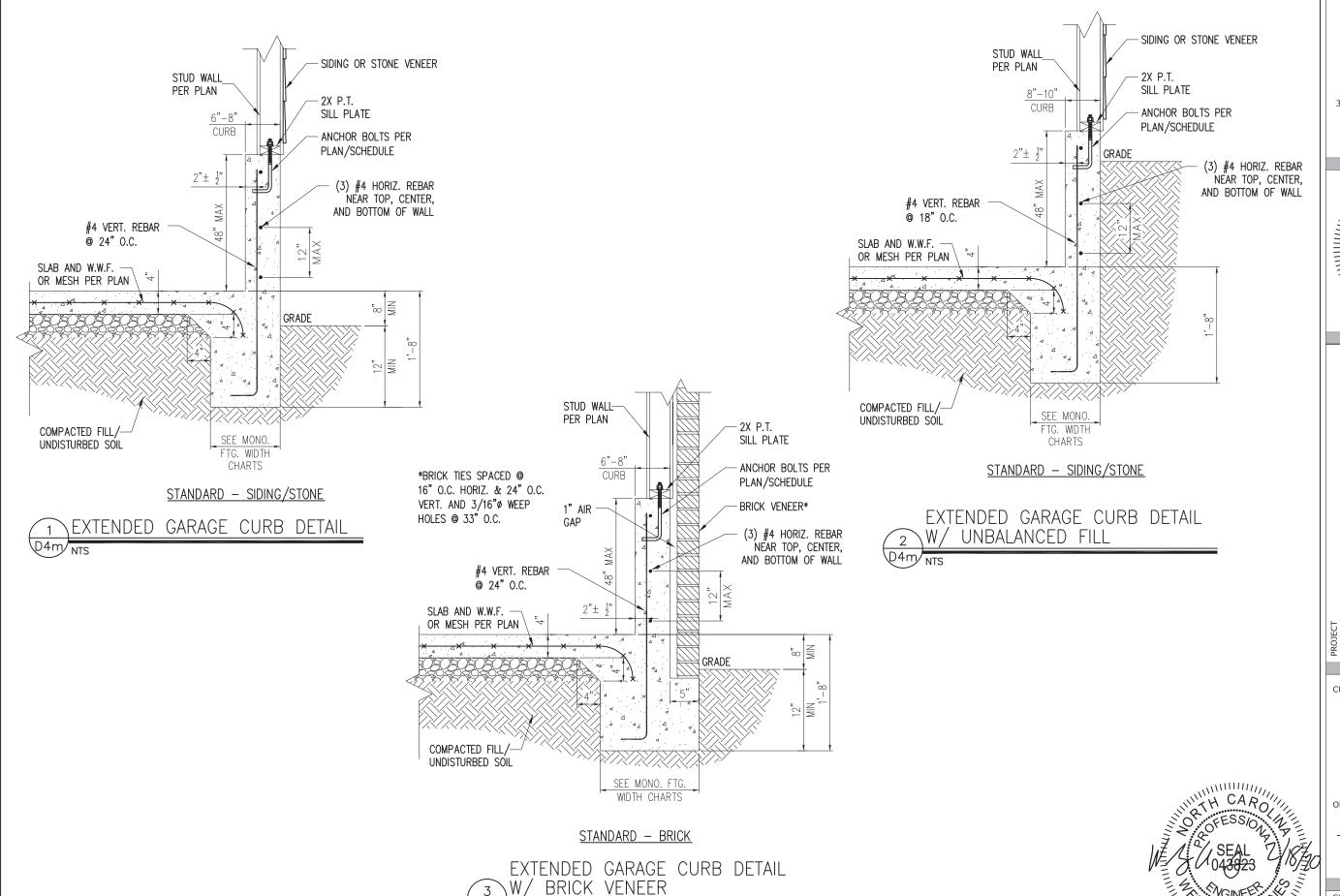
D<sub>3</sub>m

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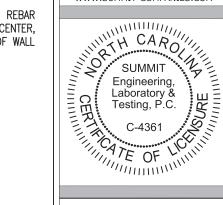




D4m/NTS



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Standard Details

Monolithic Slab Details

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

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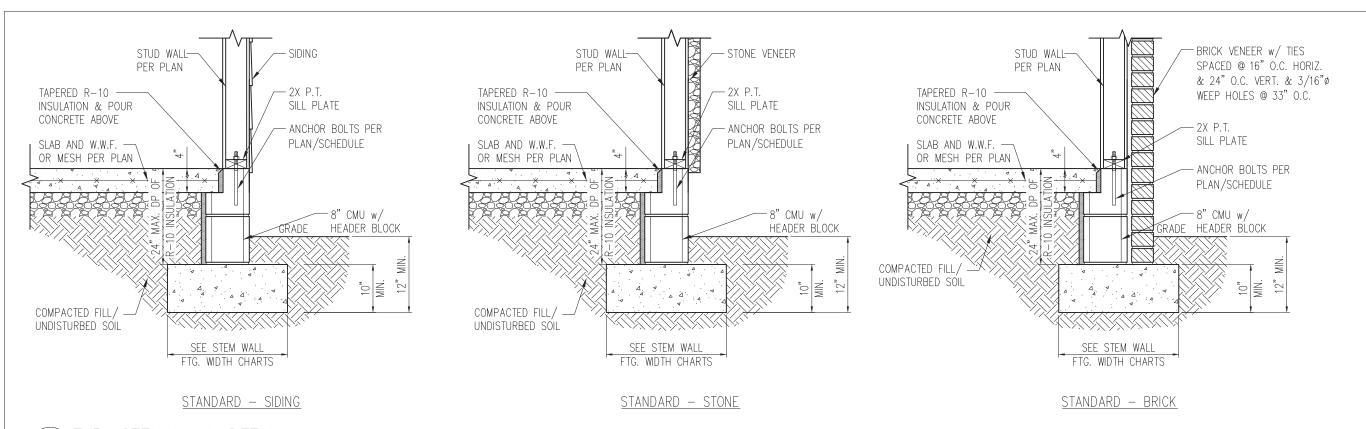
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SHEET

THEY A. JOHN

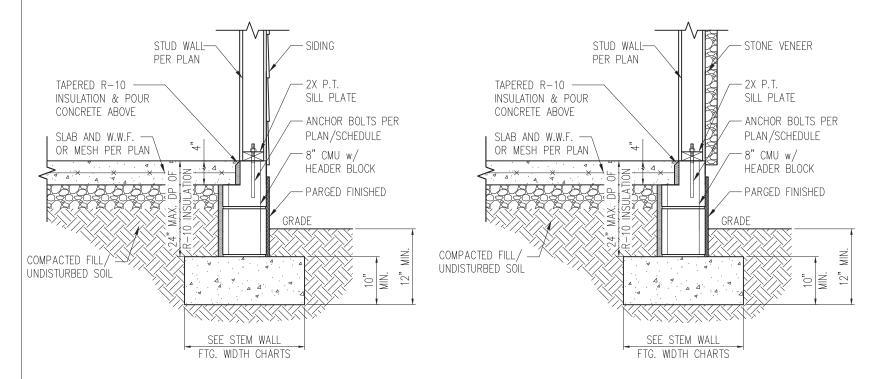
STRUCTURAL MEMBERS ONLY

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	S 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							

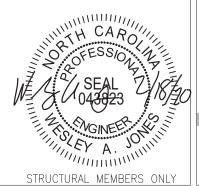
### WALL ANCHOR SCHEDULE

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

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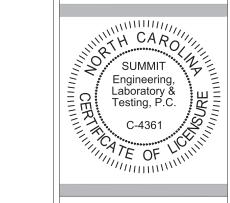


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Standard Details
Stemwall Details
Smith Douglas Homes
110 Village Trail, Suite 21!
Woodstock, GA 30188

2

CURRENT DRAWING

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PROJECT #: 3832

DRAWN BY: LBV

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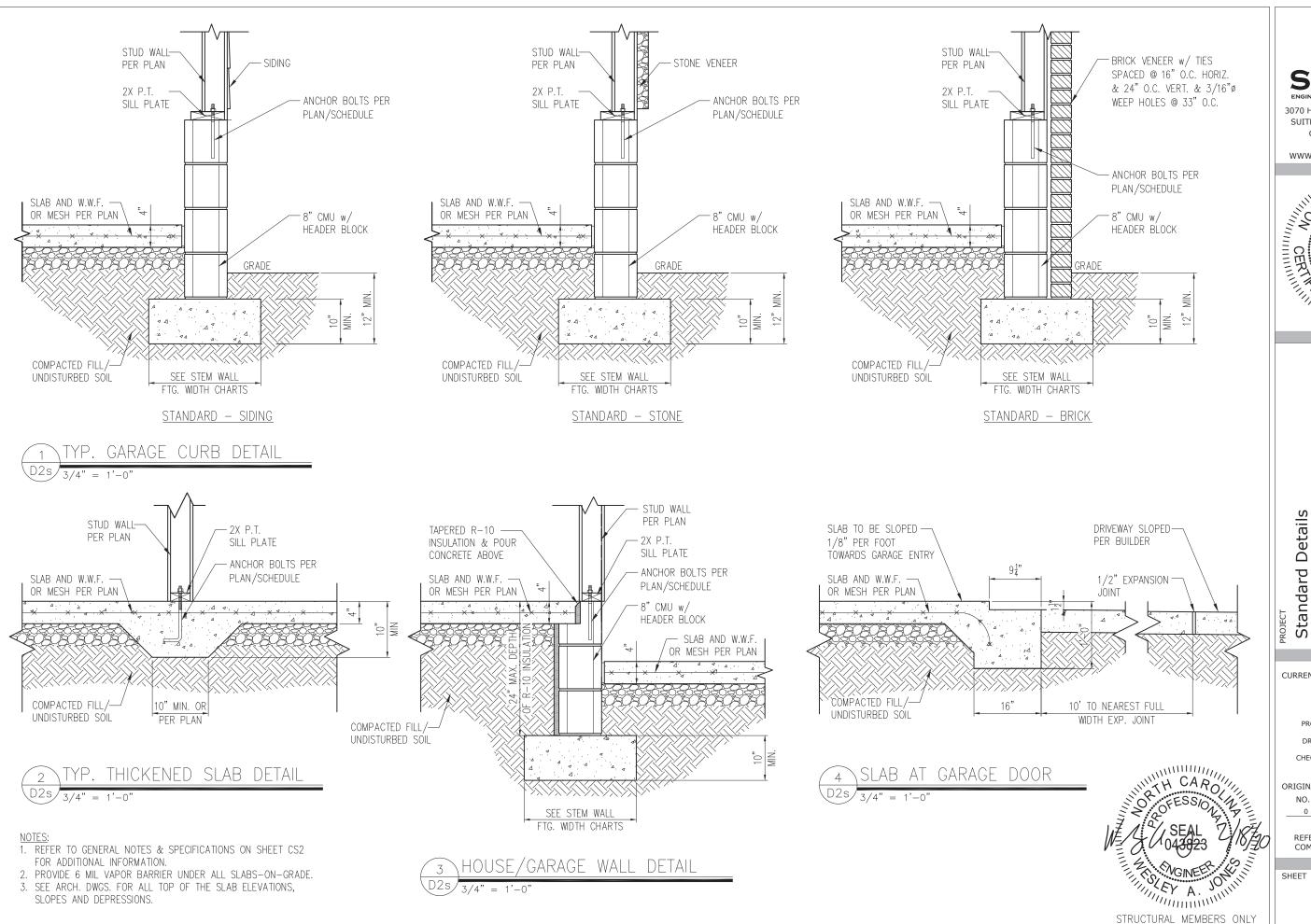
ORIGINAL DRAWING

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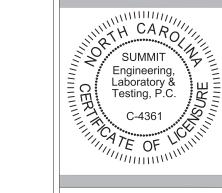
SHEET

D1s





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

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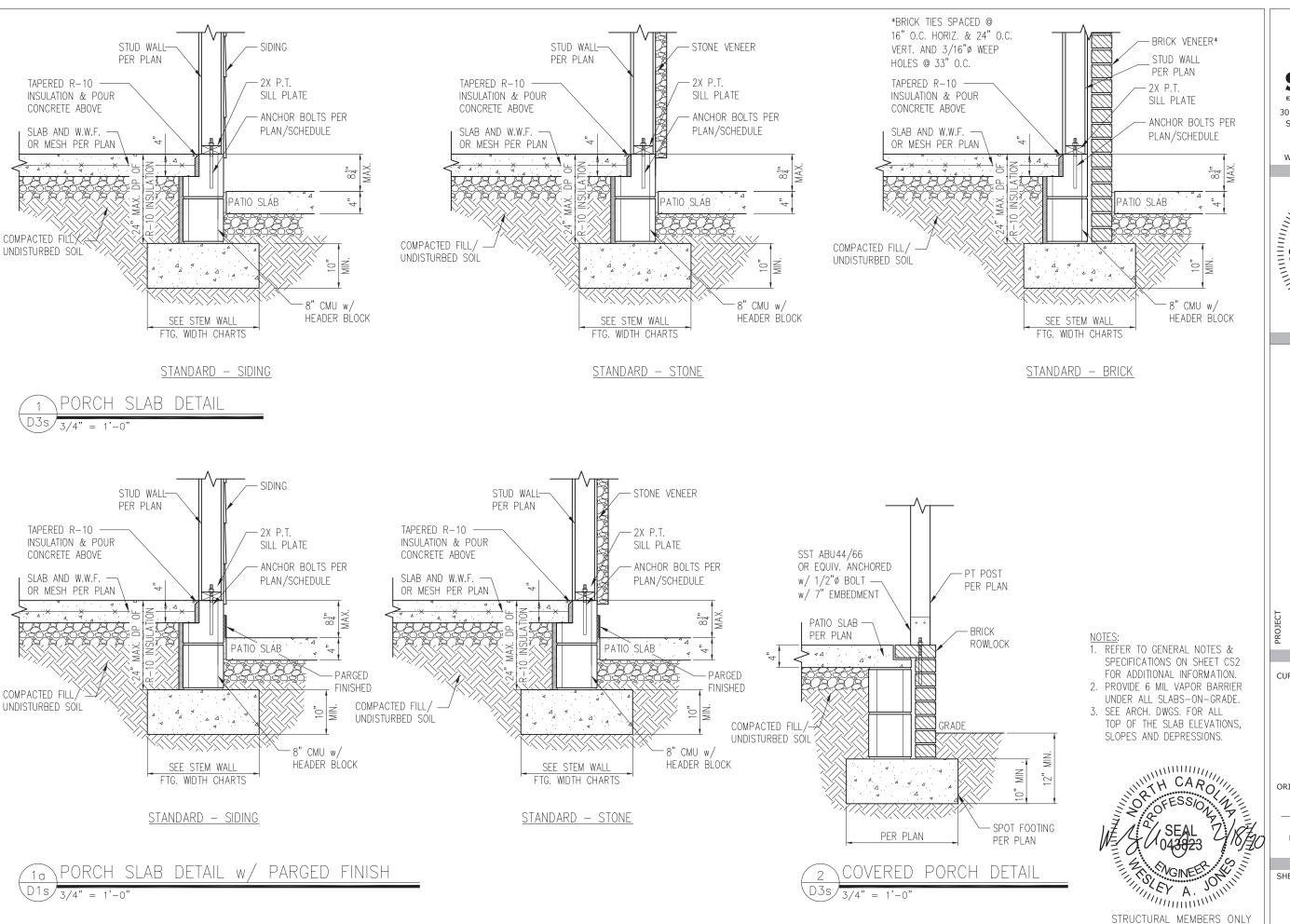
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DATE PROJECT # 1/7/16 3832

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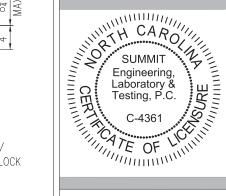
SHEET

D2s





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2

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PRO1FCT #: 3832

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CHECKED BY: WAJ

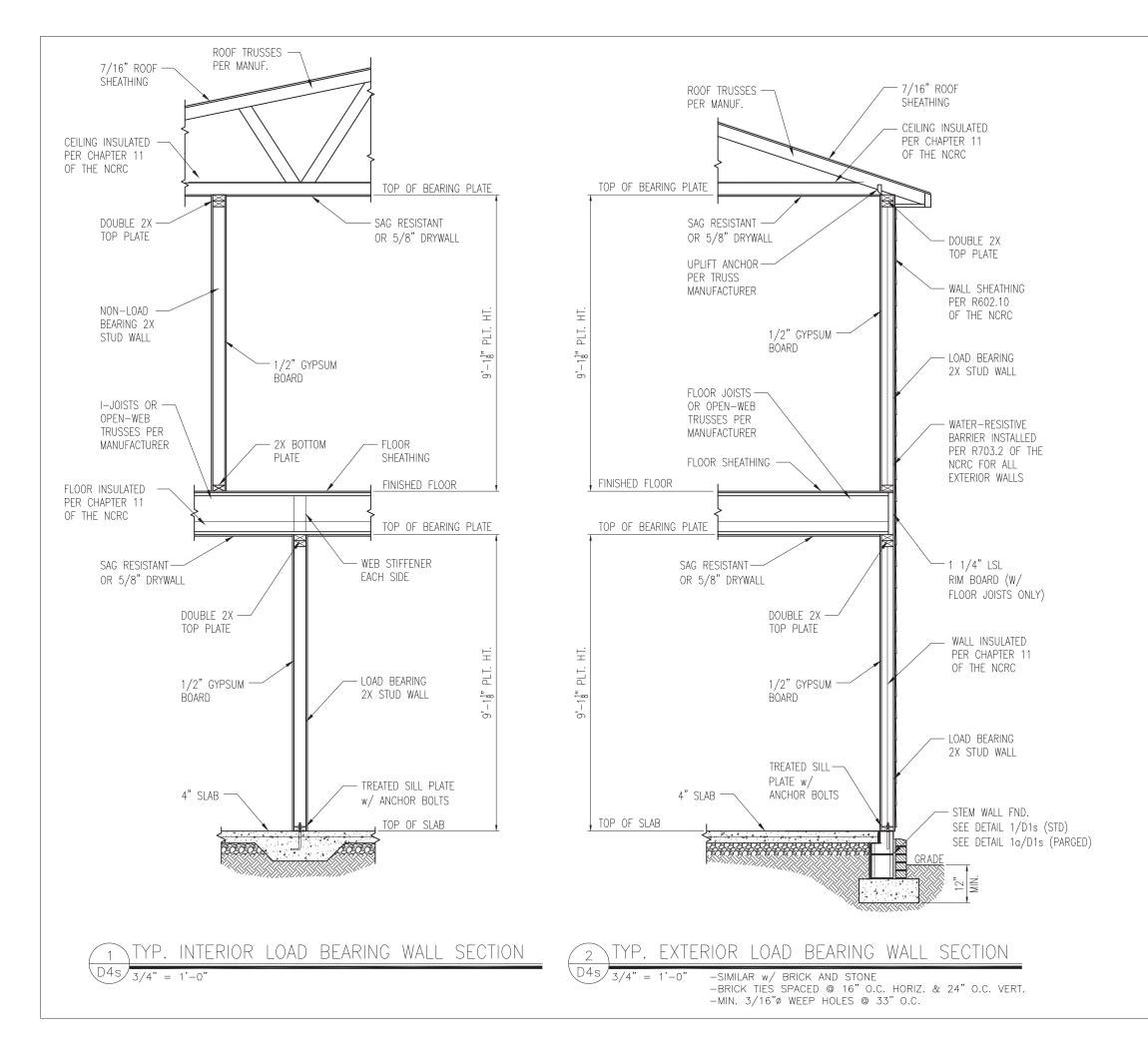
ORIGINAL DRAWING

DATE PROJECT # 1/7/16

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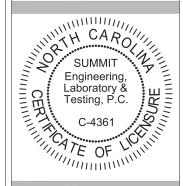
SHEET

D3s





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CURRENT DRAWING

Standard Details

DATE: 2/18/20

SCALE: NTS

PRO1ECT #: 3832

DRAWN BY: LBV

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ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

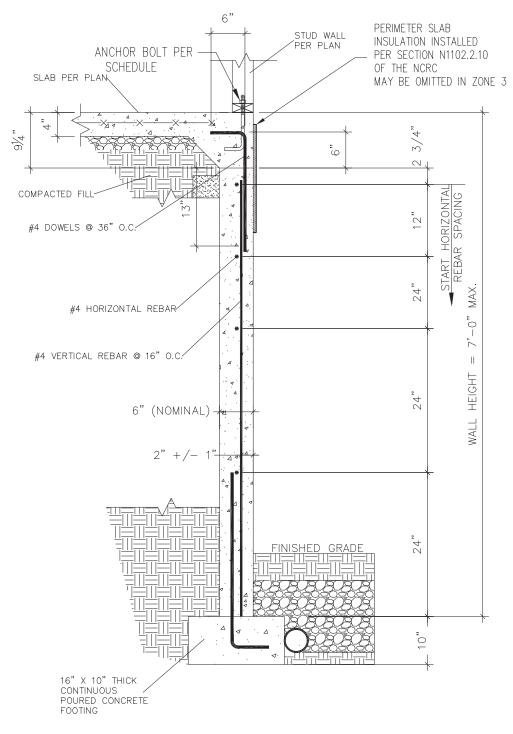
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

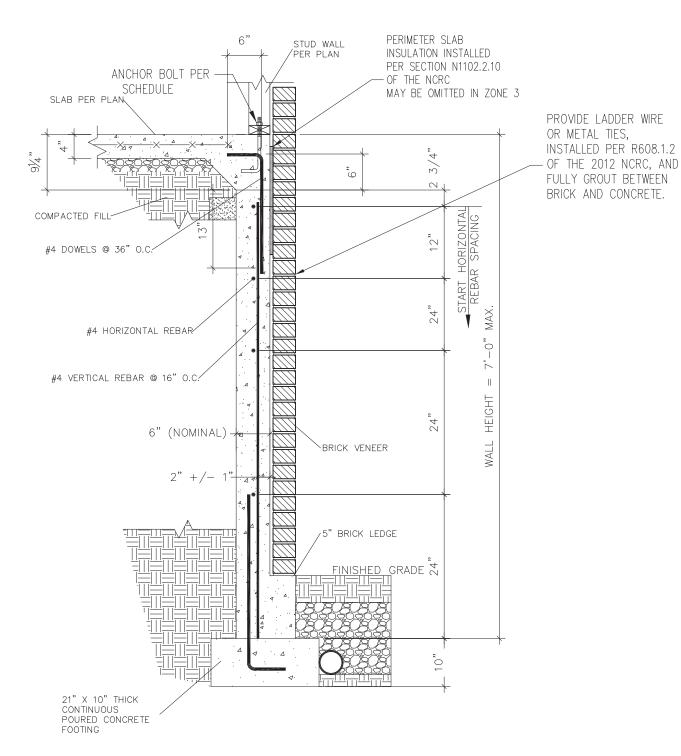
D4s

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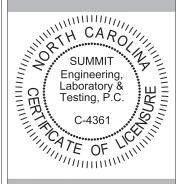
SUBWALL FOUNDATION W/ BRICK VENEER

3/4" = 1'-0"





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Stemwall Details

Smith Douglas Homes
110 Village Trail, Suite 2
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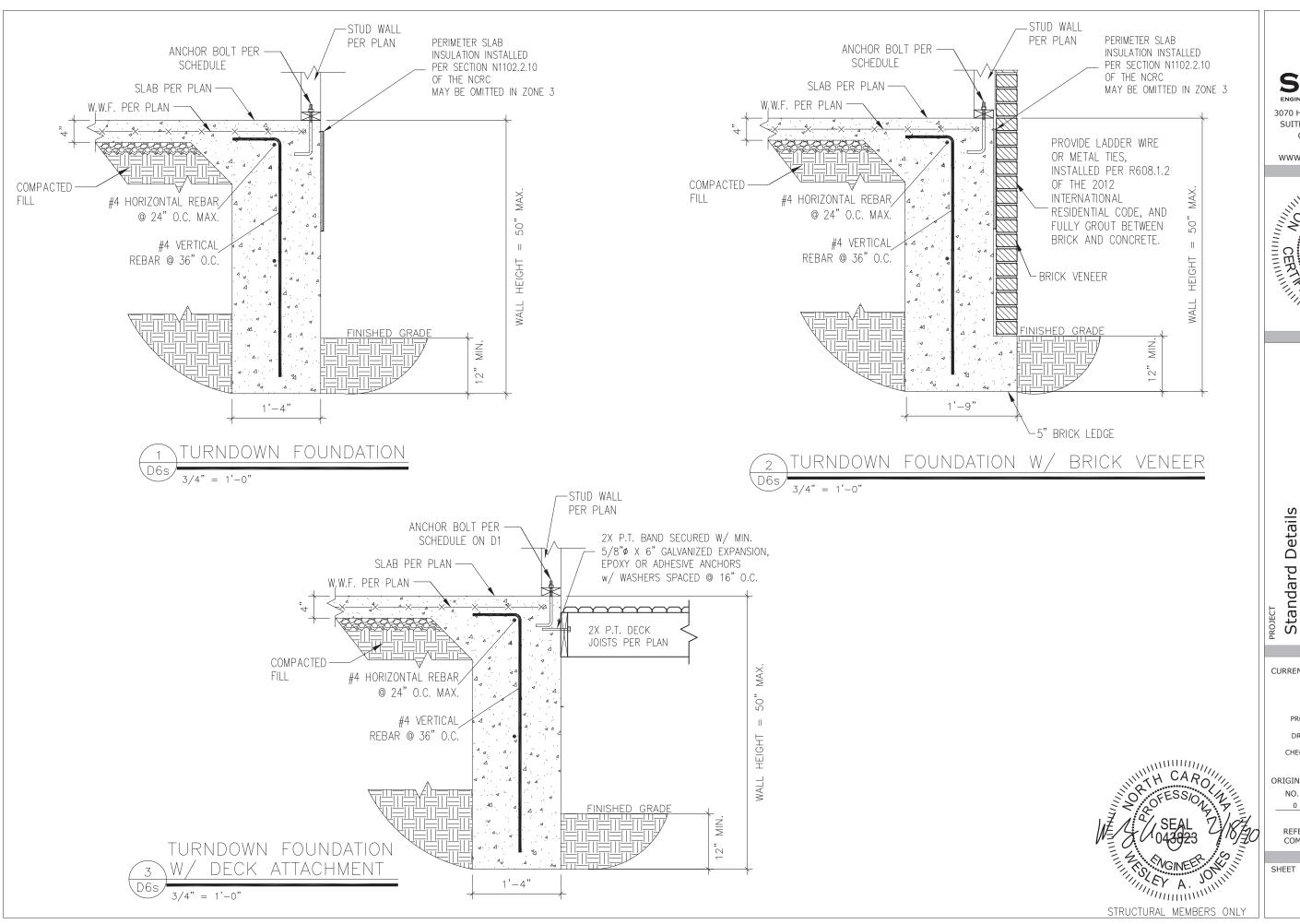
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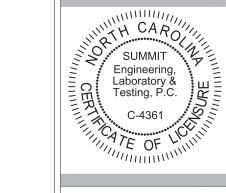
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D5s





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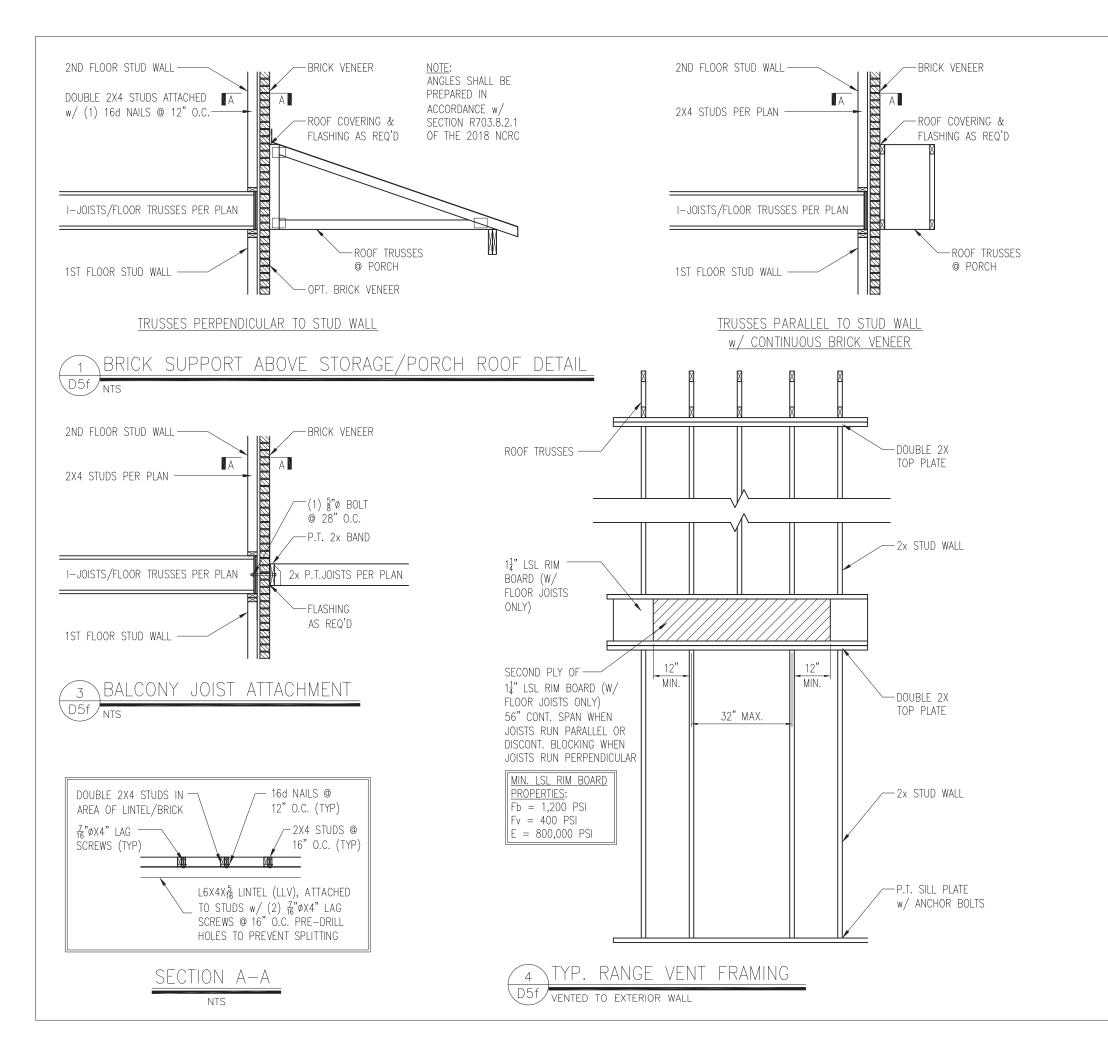
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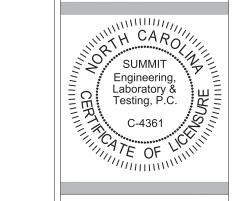
SHEET

D6s





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

2

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

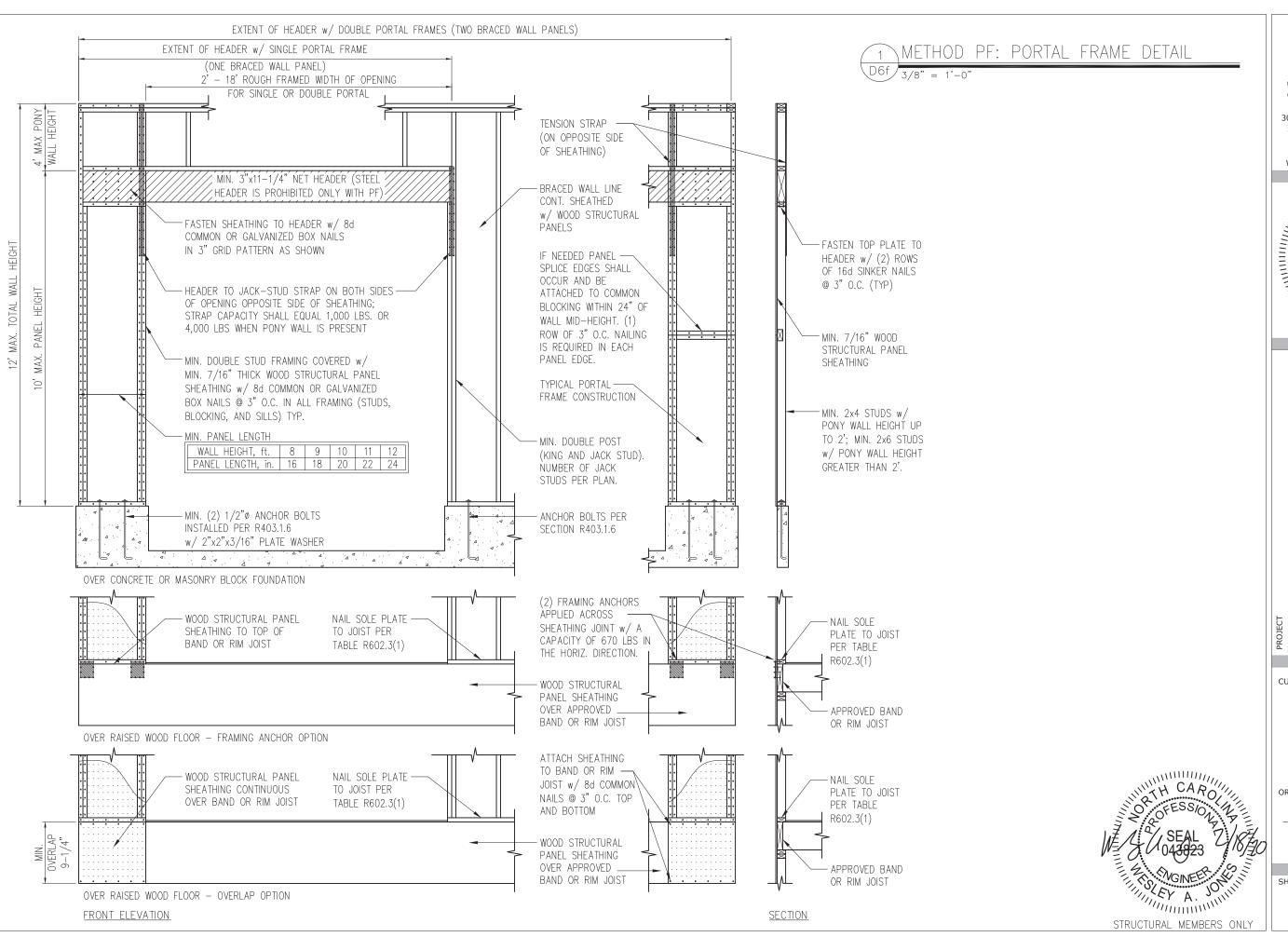
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SHEET

THEY A. JOHN

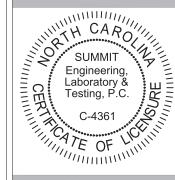
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D5f





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

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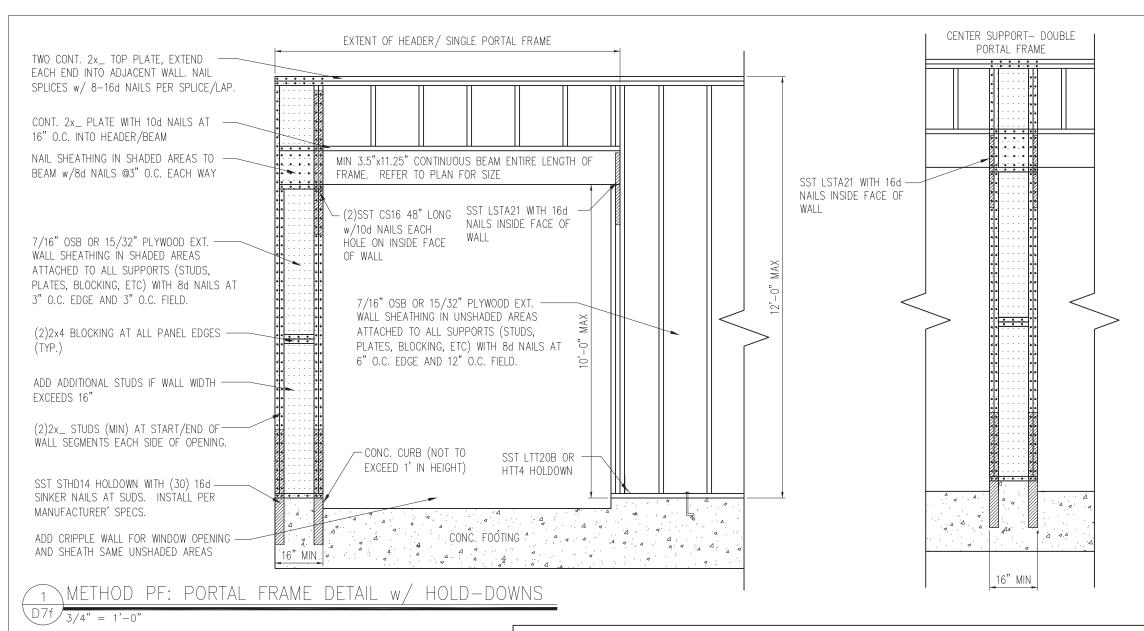
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SHEET

D6f



SPACING PER SCHEDULE MIN. 2... MIN.

**ELEVATION VIEW** 

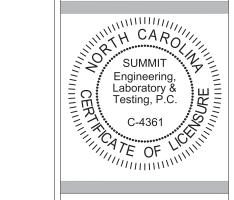
MULTI-PLY BEAM CONNECTION DETAIL

MINIMUM FASTENING REQUIREMENTS FOR TOP- AND SIDE-LOADED MEMBERS		31/2" WIDE	51/4" WIDE		7" WIDE		
FASTENER TYPE	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")	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 row	s @ 24" o.c.	2 rows @ 24" o.c.		
SDS ¼" x 3½", WS35, 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.		2 rows @ 24" o.c. (ES)		
5" TrussLok		-			-		
6¾" TrussLok					2 rows @ 24" o.c.		

- 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
- 3. Three general rules for staggering or offsetting for a certain fastener schedule: (1) if staggering or offsetting is not referenced, then none is required;
- (2) if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener clearances above; and
- (3) if "ES" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).



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

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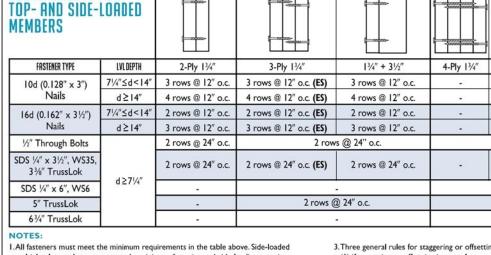
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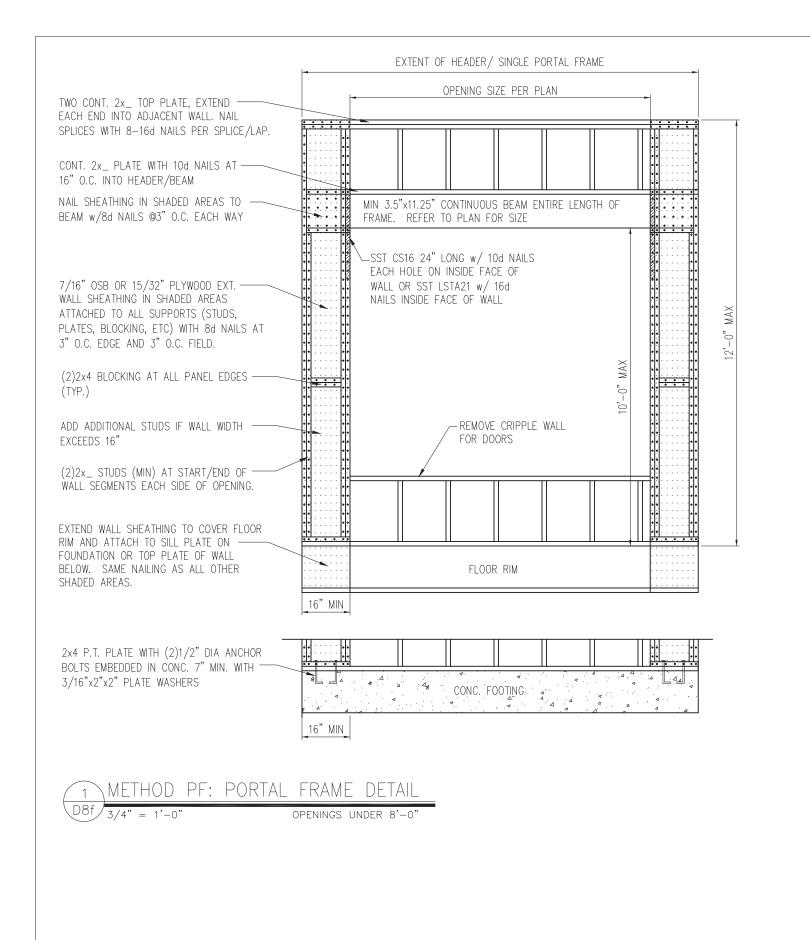
SHEET

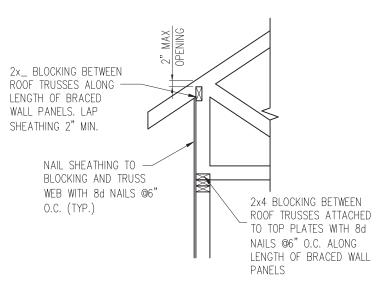
THEY A. JOHN

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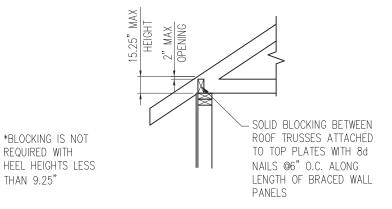
D7f







### HEEL HEIGHT GREATER THAN 15.25"



HEEL HEIGHT LESS THAN 15.25" \*

YP. WALL PANEL TO ROOF TRUSS CONNECTION

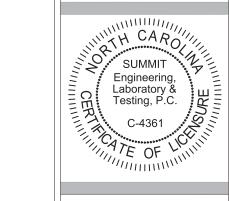
REQUIRED WITH

THAN 9.25"





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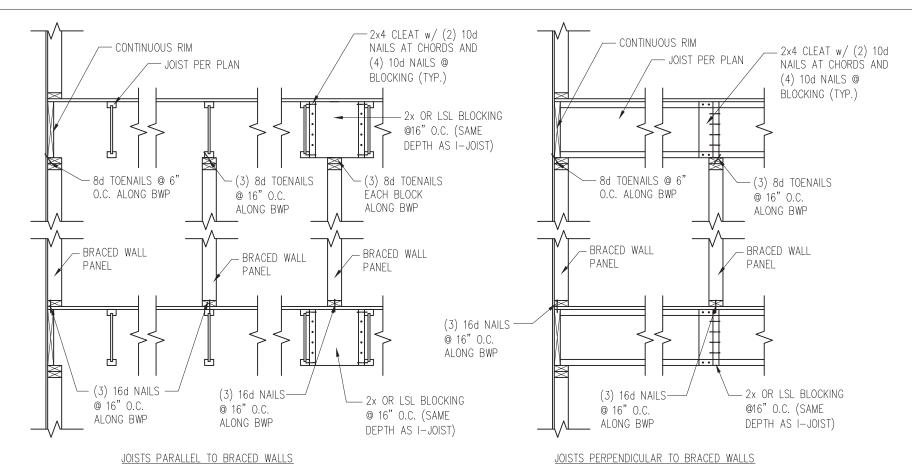
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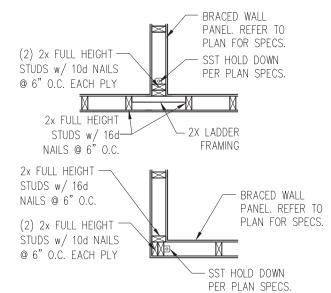
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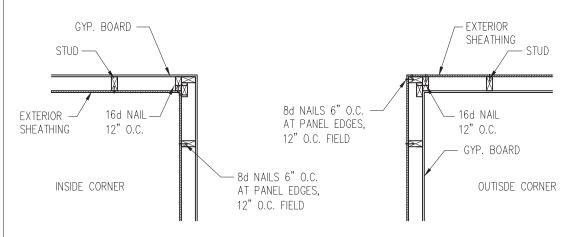
D8f

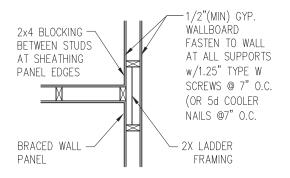




TYP. HOLD DOWN DETAIL
D9f

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

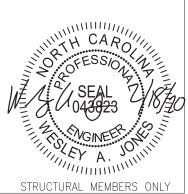




2 TYP. EXTERIOR CORNER FRAMING

3 INTERIOR 3-STUD WALL INTERSECTION

D9f 1" = 1'-0"





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C-4361

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

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D9f

