





110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

DRAWING INDEX

COVER SHEET
FRONT ELEVATION
SIDE & REAR ELEVATIONS
SLAB FOUNDATION
FIRST FLOOR PLAN
ROOF PLAN
ELECTRICAL PLAN

AREA TABULATION			
FIRST FLOOR	2015		
TOTAL	2015		
GARAGE	402		
REAR PATIO (COVERED)	112		
FRONT PORCH (COVERED)	105		

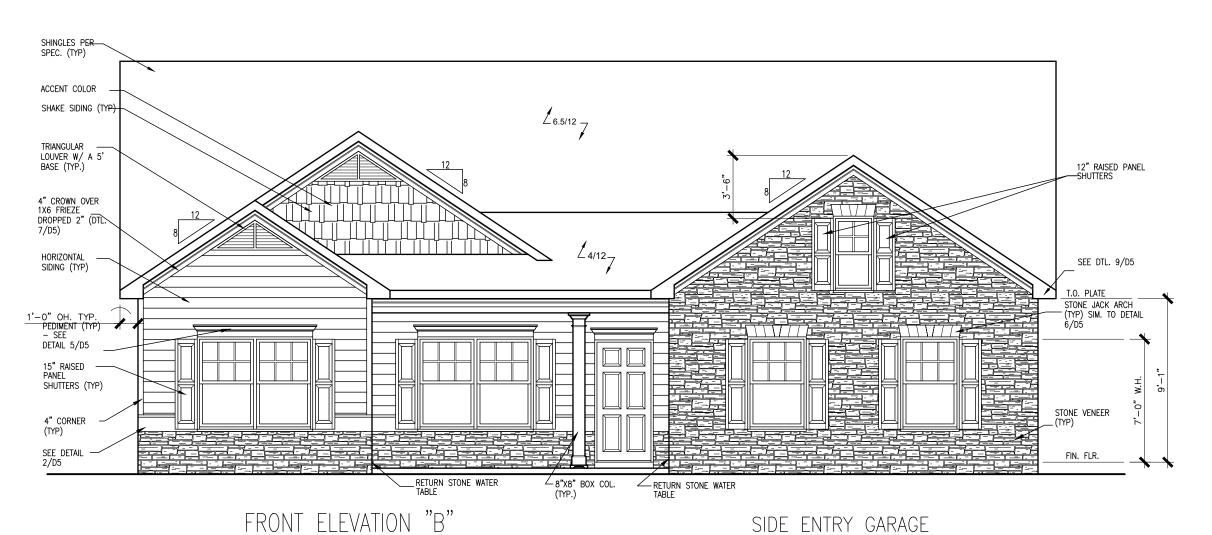
GOVERNMENTAL CODES & STANDARDS

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 #		
11/27/2018	AW	PCR #2694 To comply with electrical code, changed 12" o.h. on one side of kitchen island to 6" o.h. on both sides of island	A3.1, A5.1, A7.2		
12/7/2018	AW	Option for patio door from Owner's was removed	A5.1		
2/27/2019	AW	PCR #2843 when HVAC platform is above Pwdr Rm added note to furr down ceiling as needed for insulation above	A5.1.1		
3/27/2019	MM	Added callout for detail 3/D5.1 on C Mass	A1.3-A1.9.1		
6/3/2019	MM	Added coffered clg. option to Living/Dining/Study	A5.1, A7.2		
6/5/2019	AW	PCR #3029 swing door to HVAC platform on second floor into landing	A5.2, A5.2.1, A7.3, A7.3.1		
10/3/2019	AW	Revised Ranch plan version to relocate PDS to hall and scuttle hole to Owner's W.I.C. and removed header & wall adjacent to the Family Rm and hall to Mud Room and header in hall by Pwdr. Changed wall behind water heater to 2x6.	A5.2, A6.1, A6.2, A6.3, A7.2, A8.1		
9/1/2020	MM	PCR #3865 Removed HVAC platform and access door on optional 2nd floor. Relocated AC pad to left side of house.	A5.1, A5.2, A5.2.1, A6.1-A6.3.1, A7.3, A7.4, A7.4.1		
11/1/2020	MM	Removed decorative corbels from elevations A, D, & G elevations when second floor is chosen.	A1.1.1, A1.4.1, A1.7.1		
5/1/2021	MM	Removed unfinished 2nd flr option	A5.2.1, A7.5.1		

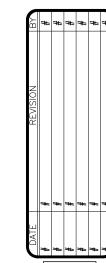


SCALE: 3/16" = 1'-0"

ALL NON — MASONRY RETURN

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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



SMITH DOUGLAS HOMES

ELEVATIONS FRONT ELEVATION LANCASTER

SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without writter consent from SMITH DOUGLAS HOMES.



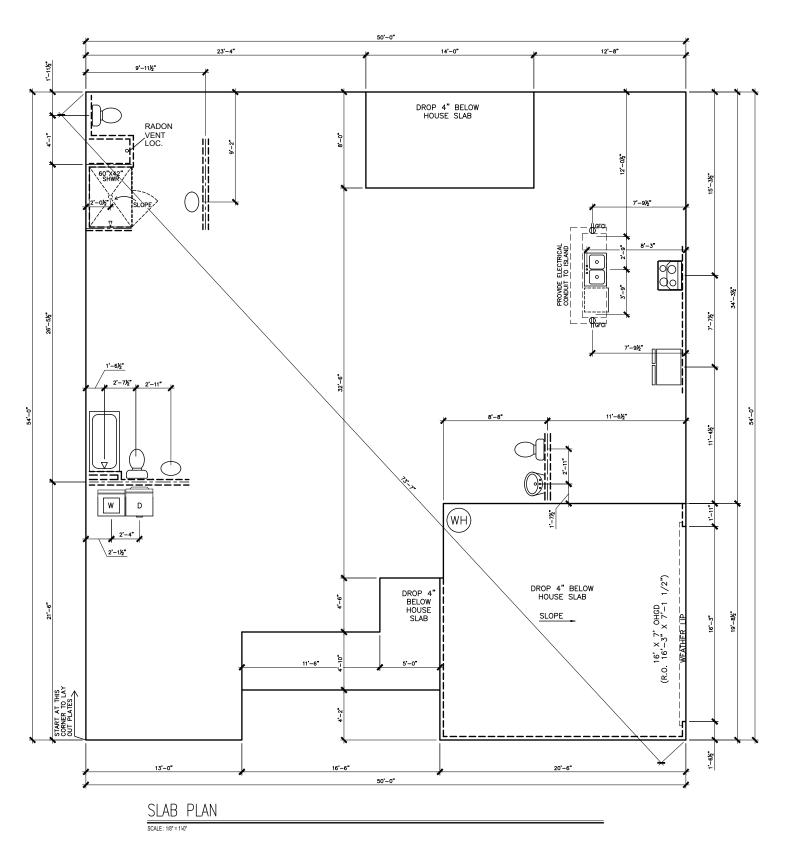
CANE MILL ESTATES LOT 19 Z_{8/12</sup>7} _ HORIZONTAL SIDING — (TYP) L_{8/12}7 SHINGLES PER SPEC. (TYP) FINISHED FLR LEFT ELEVATION "B" SHINGLES PER SPEC. (TYP) _ HORIZONTAL SIDING —/ (TYP) FINISHED FLR Z8/127 REAR ELEVATION "B" HORIZONTAL SIDING — (TYP) RIGHT ELEVATION "B"



SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115

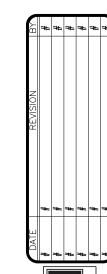
SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without writter consent from SMITH DOUGLAS HOMES

BY: CLJ	CH: AW
	7-21
FACADE OPT:	3
PLAN ID:	
FND: ALL PAGE NO:	elev:



ROLL IN SHOWER SECTIONS *RADON VENT PROVIDED PER LOCAL CODE

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



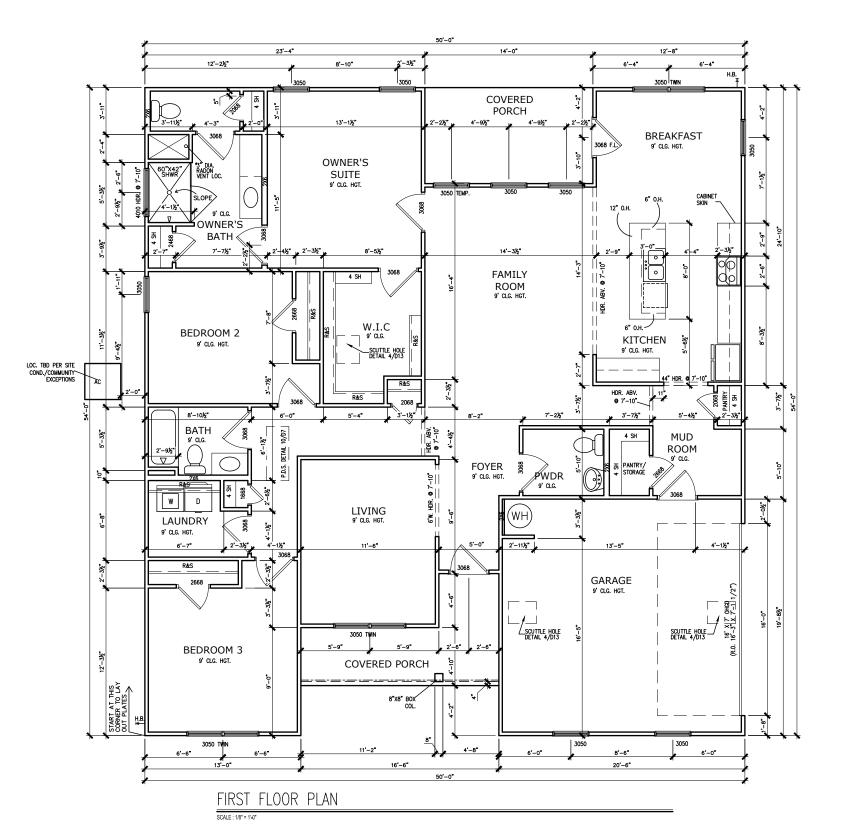
SMITH DOUGLAS HOMES

SLAB PLAN LANCASTER

SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without writte consent from SMITH DOUGLAS HOMES.

BY:	TCH:
°CLJ	AW
DATE: 09-1	17-21
FACADE OPT:	3
PLAN ID:	
PLAN ID: FND:	ELEV:
	ELEV:



REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS

*RADON VENT PROVIDED PER LOCAL CODE

D12,D12.1,D12.2 & D12.3

SMITH DOUGLAS HOMES

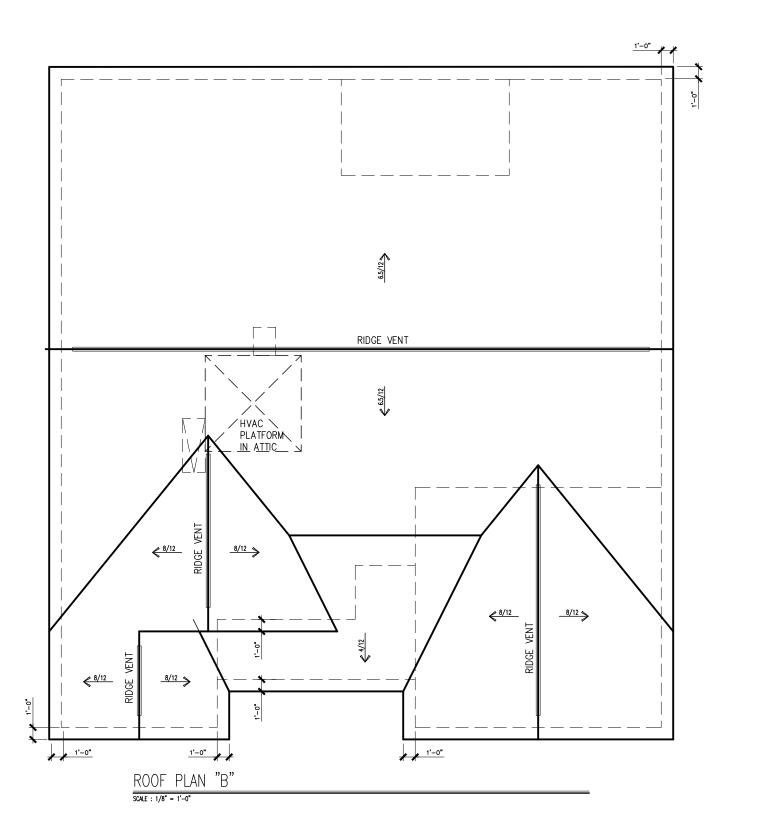
FLOOR PLAN FIRST FLOOR LANCASTER

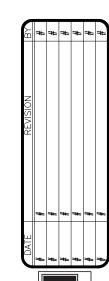
SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
10 VILLAGE TRAIL
10 VIET 115
WOODSTOCK, GA 30188
www.smithdouglas.com

SMITH DOUGLAS HOMES
expressly reserves it's
property rights in thes

expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without written consent from SMITH DOUGLAS HOMES.







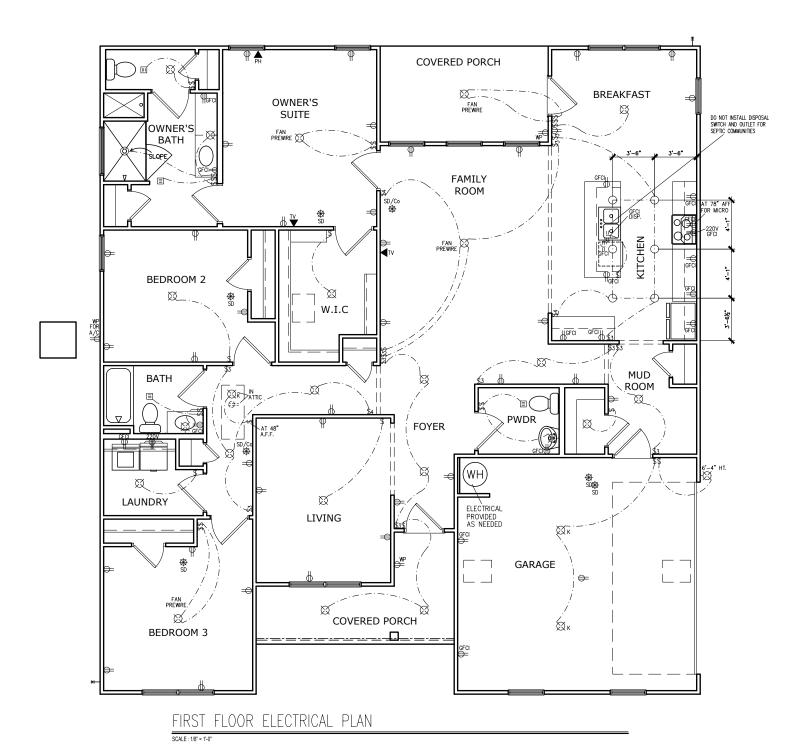


ROOF PLAN LANCASTER

SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without writter consent from SMITH DOUGLAS HOMES.





ELE	ECTRICAL L	_EGE	ND	
\$	SWITCH	ŢV	TV	
\$3	3 WAY SWITCH	φ	120V RECEPTACLE	
\$4	4 WAY SWITCH	•	120V SWITCHED RECEPTACLE	
Ø	CEILING FIXTURE	Φ	220V RECEPTACLE	
- ф _к	KEYLESS	P _{GFCI}	GFCI OUTLET	
ΨØ	WALL MOUNT FIXTURE	Pafci	ARCH FAULT CIRCUI INTERRUPTER	
0	CEILING FIXTURE	† _{GL}	GAS LINE	
•	FLEX CONDUIT	† _{wL}	WATER LINE	
СН	CHIMES	¥	HOSE BIBB	
PH	TELEPHONE	8	FLOOD LIGHT	
SD/Co	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE	
SO	SECURITY OUTLET			
	GARAGE DOOR OPENER		CEILING FAN	
≡	EXHAUST FAN		ELECTRICAL WIRING	
	FAN/LIGHT		CEILING FIXTURE	
ELEC ⁻	FRICAL PLANS TO FOLLOW	ALL LOCAL	CODES	
APPRO	X. FIXTURE HGTS (MEASUR	ED FROM B	OTTOM OF FIXTURE)	
BREAKFAST/DINING ROOM 63" ABOVE FINISHED FLOOR				
KITCH	EN PENDANT LIGHTS	33" ABO	VE COUNTER TOP	
TWO	STORY FOYER FIXTURE	96" ABO	VE FINISHED FLOOR	
CEILING FAN 96" ABOVE FINISHED FLOOR				

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



SMITH DOUGLAS HOME

ELECTRICAL PLAN FIRST FLOOR LANCASTER

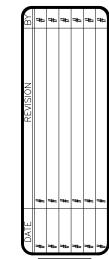
SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and relate drawings are not to breproduced without writt consent from SMITH DOUGLAS HOMES



Project: Cane Mill Estates	Co	ommunity: Cane Mill Estates		
Building: 000		Builder: Thomas Kenneth Barlow		
Unit: 0019		Status: Sold		
Plan: Lancaster B Ranch Side Entry		RTeam: Raleigh West		
Orientation: Garage Right Sq. Ft: 2,015	•	Slot: 1512		
Bedrooms: 3 Bathrooms: 2.5		Permit:		
Address: 142 Planters Lane Coats		Notes:		
Coats NC 27521				
		2.		
Sales Data		Dates		
Contract: 93597		Ratified: 08/31/2021		
Buyer: Emmanuel McNeill		Original Start: 09/29/2021		
Sales Agent: Sam Fulmer		Start: 09/29/2021		
		Scheduled Complete: 01/28/2022		
ption	Description		Quantity	
Ceiling Fixture Light Wet or Dry	Switch. This Locations to	r Profile Flush Mount LED Light on One Single Option can be used in a Wet or Dry Location. be noted on exhibit for Electrician. NOTE: Option ed to replace light fixtures at a specific location.	1	
36" Cabinet [0] Standard	Note: Bath ca	Note: Bath cabinets to match		
utomatic Garage Door Opener	Garage Door Opener - Per Door			
lind for Rear/Back Door	Blinds - Additional blind to cover rear/back door.			
llind per Optional 3050 Single Window		nd. For use when you've added a 3050 optional optional Windows Sales Guide on the Process sistance.	1	
Blinds for Base House	that are oper	ds for all standard windows on front, sides, and rear ational and accessible. Does not include blinds for windows, including windows for optional second	1	
Chrome Interior Finish Color Package	nickel door h Pkg1 (bn) lig Separate opt	me kitchen faucet, bath faucets, & fixtures, brushed ardware (hinges, bumps, knobs/levers, deadbolts), hiting fixtures, & pewter oval mirror. ions also affected: shower door, bath hardware g, tp holder), shower grab bar, cabinet hardware (to	1	
	Flooring Pac	kage 4AA - Floorte Pro, Standard Carpet (from SPC (solid polymer core) 0.5 mm vinyl top layer	1	
FIPkg 4AA-Floorte Pro, StdCpt (f/Pkg1)				
FIPkg 4AA-Floorte Pro, StdCpt (I/Pkg1) FIPkg W2-AllStdBaths/Laundry Tile 1	Package 1). plank Flooring Pac not include p	xage - All Standard Baths and Laundry - Tile 1. Does owder room or bathrooms which are parts of globally se. See Flooring Package Layouts for details.	1	
	Package 1). plank Flooring Pac not include p optional space Flooring Pace	kage - All Standard Baths and Laundry - Tile 1. Does	1	

		Lot Definition		
Kitchen Ceiling Fixture Lights ILO Sto	ı	Kitchen Lights - Low Profil Standard Light.	e Flush Mount LED Lights per Plan ILO	1
Level 2 - Package Electric (from E1)		Frigidaire SS 24' Dishwasl Frigidaire SS 1.6 Cu. Ft. N Frigidaire SS 30' Elec Ran	licro	1
PreWire for Ceiling Fan		Pre-wire a light location for	r a future ceiling fan.	2
Screen Per Optional 3050 Window		Note: If the optional windo	w is a 3050 twin, it needs two screens.	1
Screens Base House Single Family		family home. NOTE: Does optional-2nd-floors, side e changed from structural op	operable standard windows on single not include screens for windows for ntry garage, or windows added or otions, optional windows, or basement ptions to complete screens.	1
SS 25.5 cu.ft. Std Depth Side-by-Side		Multi-Level LED Lighting; I 2 Fixed Flat Glass Shelves Door Bins;	th Side-by-Side Refrigerator PureSource 3® Ice & Water Filtration; s; 2 Store-More™ Adjustable Gallon rgy Saver Plus Technology	1
Stone 14 C ExtColPkg(f)				1
T1 ZeroEntry Large Shwr FL OBATHC		Large Zero Entry Tile Level 1 Shower w/Frameless clear glass door ILO Large prefab shower. Per Plan. NOTE: Slab only. Not available on Basement builds. (obathc)		1
Window(s) in Breakfast Nook		Add window(s) to Breakfas plan for details. Does not	st Nook per plan option. See specific include blind.	1
Activity	Description		Selection Description	
Ceramic Tile Set - Bath	TILEZeroEn	tryShwrWall/FI1stALL	Milan Cafe 700/TumbleWeed00025	
Del&Install AppliancePkg	Appliance P	ackage Select - All	Appliance Package Selected	
Deliver & Install Blinds	Blind Color		White	
Install Cabinets Complet	Cabinet Fini	sh - Standard Aris	Standard-Sinclair Birch- Saddle	
Install Cabinets Complet		nter Tops - All	5010K-07 Drama Marble	
Install Cabinets Complet		Vanity Tops - All	5010K-07 Drama Marble	
Install Cabinets Complet		Bath Vanity Tops-All	5010K-07 Drama Marble	
Install Carpet	Carpet - Sta		Smith Grove III Mocha 704	
Install Floorte Pro (LP)	Floorte Pro		Simonton Plus - 709 Modeled Oak	
Paint Interior Complete	Interior Pain	. ,	SW 7006 Extra White	
Paint Interior Complete	_	t (Walls) - Base	SW 6105 Divine White	
PM - Tile Floor Complete	TILE Floor-1		Milan Cafe 700(13x13)/TumbleWeed	100025
PM Install Vinyl Floor	VinylPkg-Co	mmon Areas	Selection not needed	
User Name: Victoria Wicker		2 of 2		09/15/2021
	ities	2012		0:56:10 AM







SMITH DOUGLAS HOMES 110 VILLAGE TRAIL SUITE 115 WOODSTOCK, GA 30188 www.smithdouglas.com

SMITH DOUGLAS HOMES expressly reserves it's property rights in these plans and drawings. These plans and related drawings are not to be reproduced without write consent from SMITH DOUGLAS HOMES



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.	Roo	f	
		1	1

1.1 Live	20 PSF
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 -Joiet	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 Vu =

(1 Ct) = Class

SF.
S

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	\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 = %q

6.5.2 Sml = %q 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 🗆

2000psf 7. Assumed Soil Bearing Capacity......



STRUCTURAL PLANS PREPARED FOR:

LANCASTER

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
ΕE	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
CS1	Cover Sheet, Specifications, Revisions
CS2	Specifications Continued
S1.Øm	Monolithic Slab Foundation
S1.Øs	Stem Wall Foundation
S1.0c	Crawl Space Foundation
S1.0b	Basement Foundation
S2.Ø	Basement Framing Plan
S 3.Ø	First Floor Framing Plan
S4.Ø	Second Floor Framing Plan
S5.Ø	Roof Framing Plan
S6.0	Basement Bracing Plan
S7.Ø	First Floor Bracing Plan
58.Ø	Second Floor Bracing Plan

REVISION LIST:

Revision No.	Date	Project No.	Description
1	2.25.19	3832.236	Revised per 2018 NCRC
2	11.27.19	3832.236R	Removed truss bearing at rear porch bear w/non-bonus option
3	1.6.19	20222	Revised per new architectural files and truss layouts
4	8.28.20	3832.3Ø9R	Update HVAC and pull down stair location
5	6.29.21		Added LIB Bracing option to first floor

Cane Mill

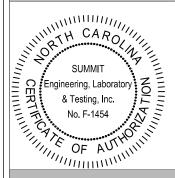
Lot 19

OPHER T. 07/07/21

STRUCTURAL MEMBERS ONLY



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



Douglas F Reliance , , NC 21539 Coversheet 2520

CURRENT DRAWING

Lancaster (RH)

DATE: 1/6/2021

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

PROJECT *: 3832.309R

DRAWN BY: JY

CHECKED BY: BCP

ORIGINAL DRAWING

DATE PROJECT * 11/16/2018 3832,175

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.
- 2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities 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.
- 8. 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 13@mph)
- 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
- 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:

- 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: Footings: 5%
- 3.2. Exterior Slabs: 5%
- No admixtures shall be added to any structural concrete without written permission of the SER
- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction".
- 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 (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 he used in lieu of IIIIIIE

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"
- 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:

- 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:
- led 000,000 = 3
- 2.2. Fb = 2600 psi
- 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. Al , other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard BI8.2.1-19.81. Lead holes for lag screws shall be in accordance with NDS
- 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. Kina 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 a 24" OC
- 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.

- 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.
- 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.
- 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 bu 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.

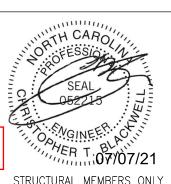
EXTERIOR WOOD FRAMED DECKS:

Cane Mill

_ot 19

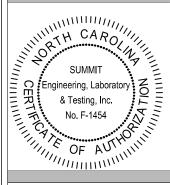
Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details. STRUCTURAL STEEL:

- 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 Dl.l. Electrodes for shopt and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above standards.





3070 Hammond Business Place Suite 171, RALEIGH, NC 27603 OFFICE: 919 380 9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



<u>6</u> <u>8</u> Homes Douglas Homes Reliance Ave x, NC 21539 Coversheet CLIENT Smith 2520

CURRENT DRAWING

.ancaster (RH)

DATE: 7/6/2021

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

PROJECT *: 3832.309R

DRAWN BY: JY

CHECKED BY: BCP

ORIGINAL DRAILING

DATE PROJECT * 11/16/2018 3832.175

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

FOUNDATION NOTES:

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

- BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BEPORCEPTION OF CIPICIAL.

 4. FOOTING SYZES BASED ON A PRESIMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERRITING THE SUITABILITY OF THE SITE SOIL CANDITIONS AT THE TIME OF CONSTRUCTION.

 5. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS, PROVIDE 2" WINNINGT FORDITION FROOTING FROM THE FACE OF MASCARY.

 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASCARY WALLS TO BE AS SPECIFIED IN SECTION RADAL OF THE 2018 NORTH CAROLINA RESIDENTIAL BILLIONS CODE
- SPECIFIED IN SECTION RADAL OF THE 2008 NORTH CAPOLINA RESIDENTIAL BUILDING CODE.

 PILASTERS TO BE BONDED TO PERINETER FOUNDATION WALL.

 PROVIDE FOADDATION WINEPROCOPING, AND DRAIN WITH POSITIVE SLOPE TO
 OUTLET AS REQUIRED BY SITE CONDITIONS.

 PROVIDED FERMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH
 CAROLINA RESIDENTIAL BUILDING CODE.

 CORREL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
 VENERS.

- VENETES.

 VENETES.

 1. CRAIL 9FACE TO BE GRADED LEVEL AND CLEARED OF ALL DERRIS.

 12. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 20% NORTH CAROLINA RESIDENTIAL CODE SECTION Register INTERM 19° DIA BOLTS 9FACED AT 6-0° ON CENTER WITH A 1" MINIMAN EMBEDMENT INTO MASOARY OR CONCRETE. ANCHOR BOLTS 9HALL BE 10" PROOT THE BOLD OF EACH PLATE SECTION NINIMAN (2) ANCHOR BOLTS 15 HALL BE 10" PROOT THE BOLD OF EACH PLATE SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.

 13. ABBREVIATIONS.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS 9C = 9TUD COLUMN EE = EACH END SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER OC = ON CENTER PL = POINT LOAD CL = CENTER LINE
- ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x6" MASONRY TYPICAL (INKO)

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

 6. A FOUNDATION EXCANATION OSSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS GUALIFIED

 REPRESENTATIVE. FIREOLATED AREA OF YIELDING MATERIALIS AND/OR POTENTIALLY EXPANSIVE SOLIS ARE OBSERVED IN THE FOOTING EXCANATIONS AT THE TITLE OF CONSTRUCTION SHOPINE TEMPLETING, LABORATORY A TESTING, P.C. MUST BE PROVIDED THE OPPORTINITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.

 11. ALL FOOTINGS 6 SLABS ARE TO BEAR ON UNDISTURBED SOLI OR 95% COMPACTED FILL, VERTIFIED BY ENGINEER OR CODE OFFICIAL.

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 80x01/2010. IT IS THE RESPONSIBILITY OF THE CLENT TO NOTIFY SUMMIT RENAMERING, LABORATORY 4 TESTING, PC. F ANY CHANGES ARE HADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SUMMIT EXCHANGE HOLD FOR THE ARCHITECTURAL PLANS PRIOR F.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS HEN USED WITH ACKITECTURAL PLANS HEN USED WITH ACKITECTURAL PLANS HEN DESIGNATION THE DESTRUCTURAL PLANS HEN DESTRUCTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

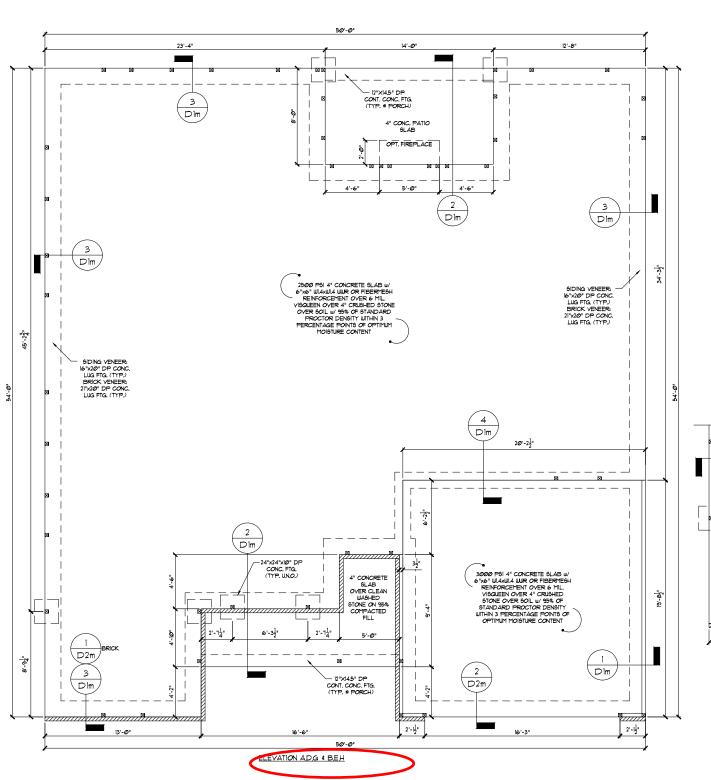
NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R405.

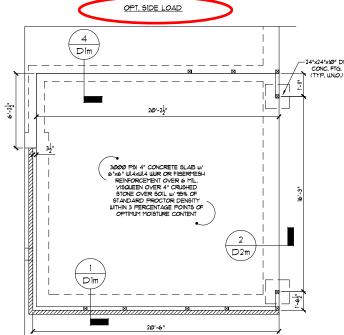
STRUCTURAL MEMBERS ONLY

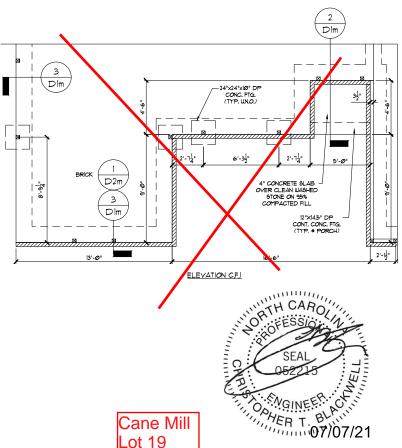
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION









3070 Hammond Business Place Suite 171, RALEIGH, NC 27603 OFFICE: 919 380 9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM

SUMMIT

Summit H CAROL

Summit

<u>g</u> <u>o</u> 0<u>7</u> Douglas Homes . Reliance Ave x, NC 21539 Fnd Р σ S Monolithic Lancaster Дрех, Smith 1 2520

CURRENT DRAWING

DATE: 1/6/2021

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

PROJECT *: 3832.309R

DRAWN BY: JY

CHECKED BY: BCP

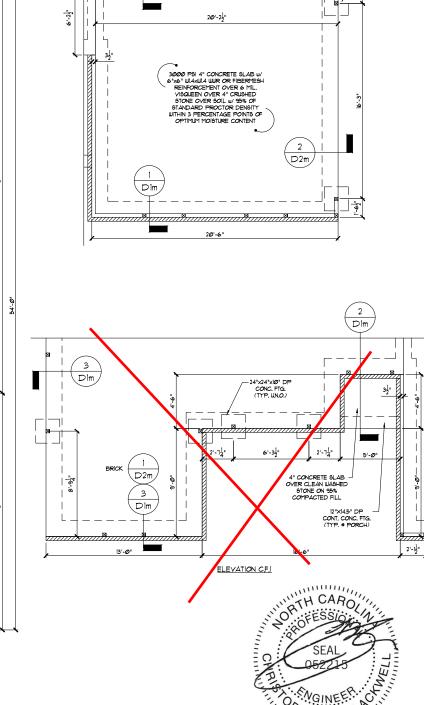
ORIGINAL DRAWING

DATE PROJECT * 11/16/2018 3832,175

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

STRUCTURAL MEMBERS ONLY

S1.0m



GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2000 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENOMENTS. CONTRACTOR SHALL VERBY ALL SIMENS HOS CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWNS FOR THIS SPECIFIC PROJECT, ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIDENT IN EXPERTS MENTINEERT IN ISSUE RESPONSIBLE.

- RESPONDED E FOR ANY DEVIALIDAD HOUT HIS PLAN RESPONDED E FOR ANY DEVIALIDAD HOUT HIS PLAN RESPONDED TO RESIST ALL PORCES INCOMINEED DURING ERECTION.

 10 RESIST ALL PORCES INCOMINEED DURING ERECTION.

 11 PROPERTIES USED IN THE DESIGN AND AS POLLOUS.

 12 MICROLLAT (LV.). Fig. 12 600 PS (F). 12 200 PS (F). 12 1500 PS (F). 13 150 PS (F).
- 9. CONTRACTOR TO PROVIDED LOXICATS WHEN CELLING JOISTS SPAN
 FERFENDICILAR TO RAFTERS.

 10. FLITCH BEAYS, 4-FLY I.V.I.S. AND 3-FLY SIDE LOADED L.V.I.S. SHALL BE BOLTED
 TOSETHER WITH I/F I.V.I.S. AND 3-FLY SIDE LOADED L.V.I.S. SHALL BE BOLTED
 TOSETHER WITH I/F I.V.I.S. AND 3-FLY SIDE DISTANCE SHALL BE 2'
 AND (2) BOLTE SHALL THAT BOLTED SHEED AND THE BOLTED SHALL BE 2'
 AND (2) BOLTES SHALL BE LOCATED MINITHM 6' FROM EACH BND OF THE BEAM
 II. ALL NON-LOAD BEARNA'S HEADERS SHEEDING 3-6' N INDICA MODIONE WITH MORE
 THAN 2'-0' OF CRIPTLE WALL ABOVE, SHALL BE (2) FLAT 2x4 STP 9, DROPPED. (WLESS NOTED OTHERWISE)

 12. ARDREWLATIONS.

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

NOTE: NOTE:

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

NOTE: SHADED WALLS INDICATE LOAD BEARING WALLS

JOIST 4 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 HESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SHITLD DOME, AS HOTHER COPPLETED PREVISED ON 20/01/20/20. IT IS THE RESPONDEDLITY OF THE CLENT TO NOTIFICATION OF THE CLENT TO NOTIFICATION OF THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION UNTIL TRANSPERING, LEARNATORY I TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS OF THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

STUD COLUMN (S.C.) CALLOUTS ON PLAN OVERRIDE JACK STUD COUNT SHOUN IN BEAM/HEADER SCHEDULE, KING STUDS TO BE INSTALLED PER APPLICABLE BUILDING CODE.

В

② B W OPT. BRICK

ELEVATION BEH

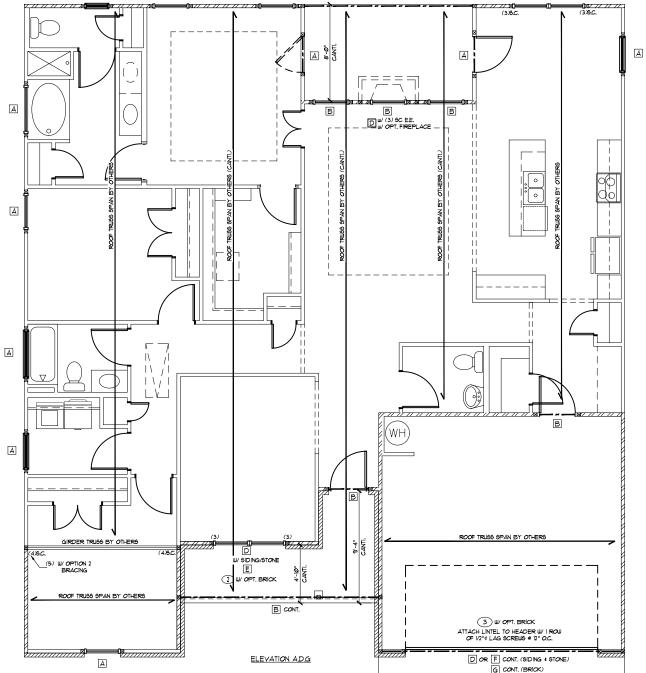
В

В

В

D

PORTAL FRAME PER DETAIL 1/D6





HEADER/BEAM SCHEDULE

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

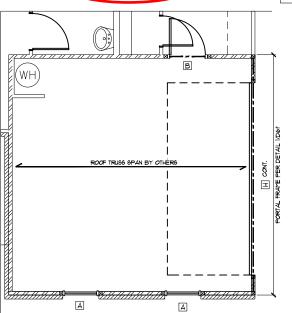
SECURE LINTEL TO HEADER W/ (2) 1/2"
DIAMETER LAG SCREWS STAGGERED @ 16"
O.C. (TYP FOR ③)

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

WALL STUD SCHEDULE

|ST | 2ND FLOOR LOAD BEARING STUDS; 2x4 STUDS = 16" OC. OR 2x6 STUDS = 24" OC. |ST FLOOR LOAD BEARING STUDS = W WALK-UP ATTIC. 2x4 STUDS = 12" OC. OR 2x6 STUDS = 16" OC. 2x4 STUD6 = 12" OC. OR 7x6 STUD6 = 16" OC.
BASEMENT LOAD EBLARING STUD6:
2x4 STUD6 = 12" OC. OR 7x6 STUD6 = 16" OC.
NON-LOAD BEARING STUD6 (ALL FLOORS):
2x4 STUD6 = 24" OC.
TWO STORY WALLS:
2x4 STUD6 = 12" OC. OR 7x6 STUD6 = 16" OC. BALLOON
FRAMED W CROSS BRACING = 6"-0" OC. VERTICALLY

KING STUD REQUIREMENTS				
OPENING WIDTH	KINGS (EACH END)			
LESS THAN 3'-Ø"	(1)			
3'-0 †O 4'-0"	(2)			
4'-0" TO 8'-0"	(3)			
8'-0" TO 12'-0"	(5)			
12'-0" TO 16'-0"	(6)			
KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS				



OR LEESSION ONGINEER OF 77,74ER T. 07/07/21

STRUCTURAL MEMBERS ONLY

Cane Mill

Lot 19

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

SUMMIT

SUMMIT

Engineering, Laboratory

& Testing, Inc.

No. F-1454

OF AUTIMITIAL No. F-1454

OF AUTHORITIN

> <u>g</u> <u>o</u> 0<u>7</u> Douglas Homes . Reliance Ave x, NC 21539 Framing (T) Floor ancaster. Дрех, Smith 2520 First

CURRENT DRAWING

DATE: 1/6/2021

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

PROJECT *: 3832.309R

DRAWN BY: JY

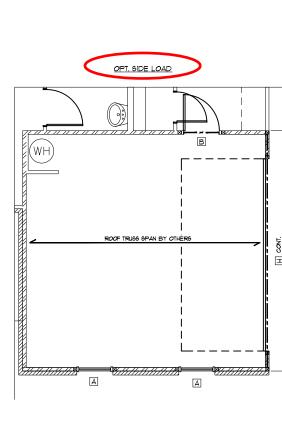
CHECKED BY: BCP

ORIGINAL DRAWING

DATE PROJECT * 11/16/2018 3832,175

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S3.0



TRUSS UPLIFT CONNECTOR							
	SCHEDULE						
MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FNI				
600 LBS	H2.5A	PER WALL SHEATHIN	G 4 FASTENER				
1200 LBS	(2) H2.5A	C616 (END = 11")	DTT2Z				
145Ø LB6	HT52Ø	C616 (END = 11")	DTT2Z				
2 <i>000</i> LBS	(2) MTS2Ø	(2) C516 (END = 11")	DTT2Z				
2900 LBS	(2) HT52Ø	(2) CSI6 (END = 11")	HTT4				
3685 LBS	LGT3-9D62.5	MSTC52	HTT4				
1 ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE							

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

SPECIFICATIONS.

REFER TO TRUSS. LISTED ARE FOR SYP 12. GRADE MEMBERS.

REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.

4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

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

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

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED FER TRUSS MANIFACTURER IN ACCORDANCE WITH SECTION RESOLUTE WALLS SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE UND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION RESOLUTE THE 2018 NOCE, CREET OB PRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

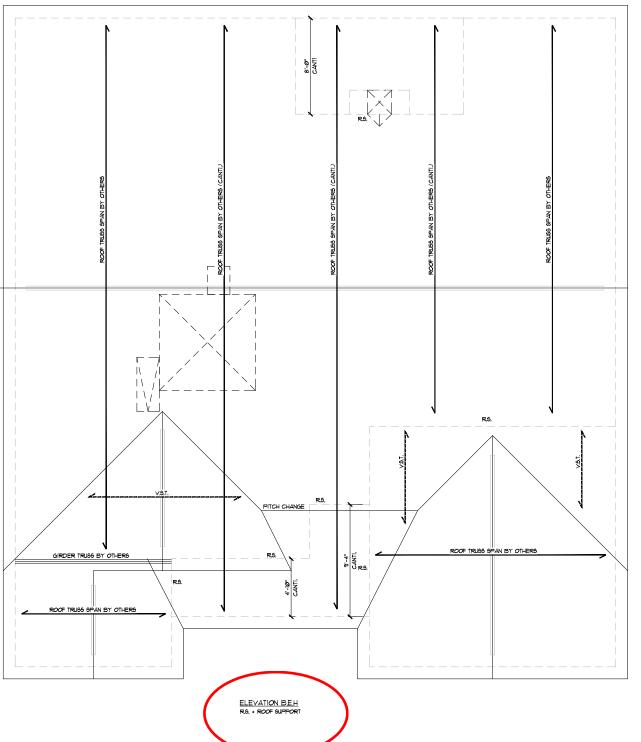
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED REVISED ON <u>PROVIDED</u>. IT IS THE RESPONSIBILITY OF THE CLEINT TO NOTIFY SUMMIT EXHIBITERING, LABORATORY 4 TESTING, P.C. IF ANY CHANGES ARE THADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SUMMIT EXHIBITERING, LABORATORY 4 TESTING, P.C. CANNOT GLARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS OF THE DATE LISTED ABOVE.

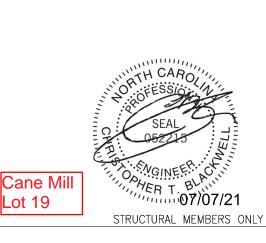
STRUCTURAL MEMBERS ONLY

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

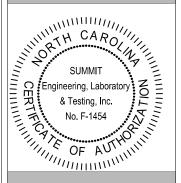




Lot 19



3070 Hammond Business Place Suite 171, RALEIGH, NC 27603 OFFICE: 919 380 9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



Raleigh Douglas Homes . Reliance Ave x, NC 21539 Plan Roof Framing Lancaster (RH) Smith D 2520 R Apex, 1

CURRENT DRAWING

DATE: 7/6/2**0**21

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

PROJECT *: 3832.309R

DRAWN BY: JY

CHECKED BY: BCP

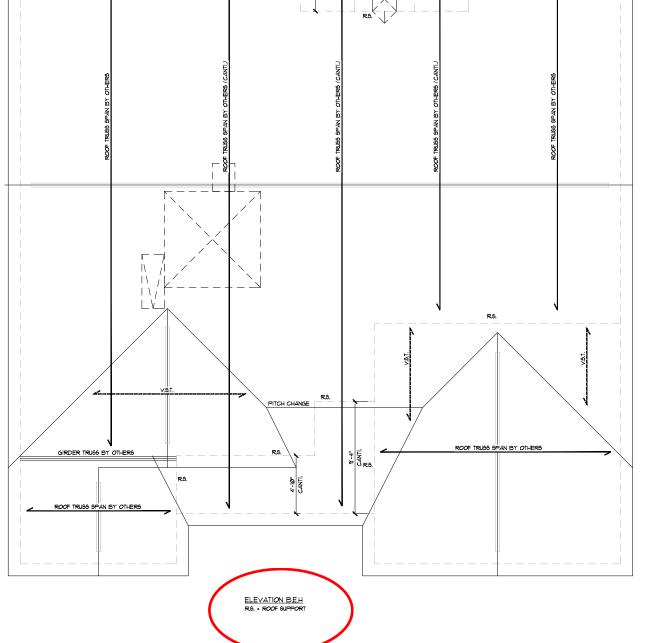
ORIGINAL DRAWING

DATE PROJECT *

11/16/2018 3832.175

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S5.1



REQ	REQUIRED BRACED WALL PANEL CONNECTIONS					
		MIN.	REQUIRED (CONNECTION		
METHOD	MATERIAL	THICKNESS	# PANEL EDGES	# INTERMEDIATE SUPPORTS		
C5-W5P	STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS © 12" O.C.		
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL5** # 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 RT@235						

BRACED WALL NOTES:

- I. WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602/0
 FROM THE 2019 NORTH CAROLINA RESIDENTIAL CODE.

 2. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND
 SPEEDS UP TO 300 MPH.

 3. REFER TO ARCHITECTIRAL PLAN FOR DOORWINDOW OPENING SIZES.

 4. BRACKING MATERIALS, METHODS AND FASTENIERS SHALL BE IN
 ACCORDANCE WITH TABLE R602/30.

 5. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL
 NOT EXCEED OF HEIT FOR ISOLATED PANEL METHOD AND 12 HEET FOR
 CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING
 CALCULATIONS.
- MOT EXCEED ID FEET FOR ISOLATED PANEL NETHOD AND IZ FEET FOR CONTINUOS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

 CALCULATIONS.

 (MINIMIN PANEL LENGTH SHALL BE FER TABLE REQUIDE).

 1. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHALL BE SHATHED CONTINUOS! Y WITH MINIMIM IZ' GYPSUM BOARD (WAD).

 FOR CONTINUOS! SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED CONTINUOS! SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED SHACED WALL PANELS, AND ON GABLE SHOW WALL PANELS, ADD'S AND ON GABLE SHOW WALL PANELS ONCE AND WALL SHOW AND ENDINGTH SHALL SHALL BE LOCATED WITHIN IZ FEET OF EACH ENDOWN AND EXAMPLE SHALL BE LOCATED WITHIN IZ FEET OF EACH END OF A BRACED WALL FANEL SHALL BE LOCATED WITHIN IZ FEET OF EACH END OF A BRACED WALL INS.

 11. THE MAXIMAT BOORD INSTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED I PIETE.

 12. MADONEY OR CORNECTED WALL FANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGHER REGISTALS OF THE 20th MORD.

 13. ERRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SHEET REGISTALS OF THE 20th MORD.

 14. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGISTALS.

 15. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGISTALS.

 16. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGISTALS.

 17. ADDRESS OF SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGISTALS.

 18. ABBREVATIONS.

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

GB = GYP9UM BOARD
C5-XXX = CONT, SHEATHED
PF = PORTAL FRAME
PF = WOOD STRUCTURAL PANEL
PG = ENG, NEERED SOLUTION
PF = NG = ENG, PORTAL FRAME

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SHITH DOKALAS HOTES COMPLETED REVISED ON 29/20/20/20, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFIED SHAPE ARE THOSE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SHITH ITEMATERING, LADRATORY I TESTING, P.C. CANNOT GLIARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS HIPS USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD ELEV ADG 4 CFI						
REQUIRED PROVIDED						
FRONT	8.8	22.2				
LEFT	40.0					
REAR	21.2					
RIGHT 8,4 51,0						

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD - ELEV BEH						
REQUIRED PROVIDED						
FRONT	8.8	19.2				
LEFT 8.4 40.0 REAR 8.8 21.2						
						DICUT

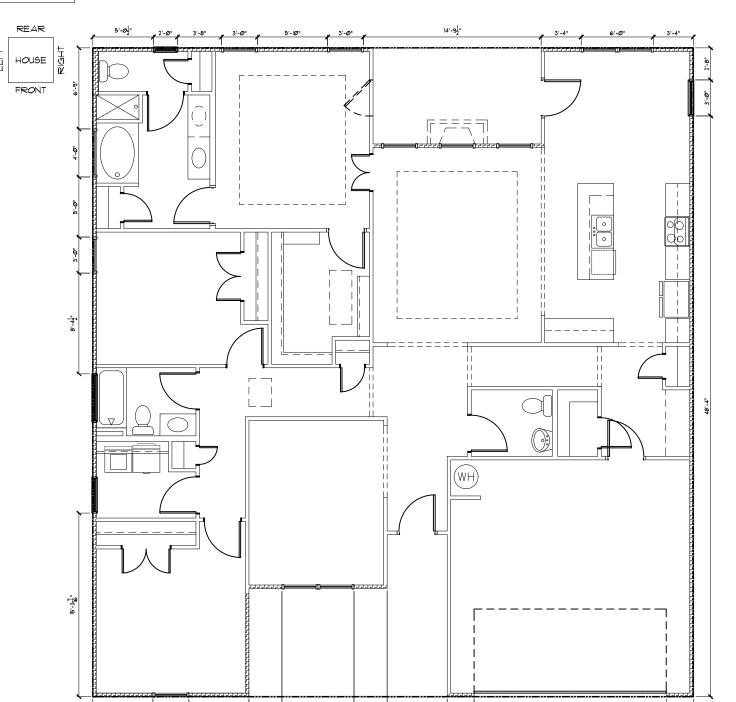
STRUCTURAL MEMBERS ONLY

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"

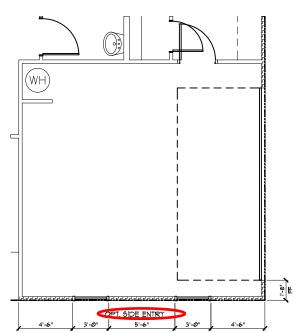


ELEVATION A.D.G. & C.F.I

BRACING OPTION I

ELEVATION BEH

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD						
	REQUIRED PROVIDED					
FRONT	8.8	30.0				
LEFT 8.4 40.0						
REAR	8.8	21.2				
RIGHT	8.4	35.8				



Cane Mill

Lot 19





3070 Hammond Business Place Suite 171, RALEIGH, NC 27603 OFFICE: 919 380 9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM

SUMMIT

SUMMIT

SUMMIT

Resting, Inc.

No. F-1454

OF AUTHORITATION

OF AUTHORITATIO

<u>6</u> <u>o</u> 0X Douglas Homes . Reliance Ave x, NC 21539 Bracing (T) Floor Lancaster Smith D 2520 A Apex, First

CURRENT DRAWING

DATE: 1/6/2**0**21

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

PROJECT *: 3832.309R

DRAWN BY: JY

CHECKED BY: BCP

ORIGINAL DRAWING

DATE PROJECT * 11/16/2018 3832.175

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S7.0

REQUIRED BRACED WALL PANEL CONNECTIONS						
		MIN.	REQUIRED CONNECTION		MINI REQUIRED CONNECTION	CONNECTION
METHOD	MATERIAL	THICKNESS	# PANEL EDGES	 INTERMEDIATE SUPPORTS 		
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS # 12" O.C.		
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** ⊕ 1" O.C.	5d COOLER NAILS** # 1" O.C.		
wsp	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS \$ 12" O.C.		
PF	STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1		
"OR EQUIVALENT PER TABLE RT0235						

REAR

HOUSE

FRONT

ELEVATION BEH

BRACED WALL NOTES:

- BRACED WALL NOTES:

 1. WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6/02/0
 FROM THE 20/9 NORTH CAROLINA RESIDENTIAL CODE:

 2. WALLS ARE DESIGNED FOR SEISHIC ZONES A-C AND ULTIMATE WIND
 SPEEDS UP TO 130 MIPH.

 3. REFER TO ARCHITECTURAL PLAN FOR DOORWINDOW OPENING SIZES.

 BRACING MATERIALS, INFINODS AND FASTINERS SHALL BE IN
 ACCORDANCE WITH TABLE R6/02/01.

 3. ALL BRACED WALL PARLS SHALL BE FULL WALL BEIGHT AND SHALL
 NOT EXCEED 10 PEET FOR 1804 ATED PANEL WETHOD AND 12 FEET FOR
 CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL BYSINEERING
 CALCULATIONS.

 4. MIN'SHIP PANEL LENGTH SHALL BE PER TABLE R6/02/01.

 1. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR
 WALLS SHALL BE SHEATHED CONTINUOUS TWITH MINIMIN 12° GYPSUM
 BOARD (UNO).

 5. FOR CONTINUOUS SHEATHING METHOD EXTERIOR WALLS SHALL BE
 SHEATHED ON ALL SHEATHING METHOD, EXTERIOR WALLS SHALL BE
 SHEATHED ON ALL SHEATHING METHOD EXTERIOR WALLS SHALL BE
 SHEATHED ON ALL SHEATHING SHEATH OF THE SHALL SHOP SHALL
 BY SHEATHED ON ALL SHEATHING SHEATH OF THE SHALL
 BY SHEATHED ON ALL SHEATHING SHEATH OF THE SHALL
 BY SHEATHED ON ALL SHEATHING SHEATH OF THE SHALL
 BY SHEATHED ON ALL SHEATHING SHEATH OF THE SHALL
 BY SHEATHER SHALL SHEATH ON THE SHALL
 BY SHEATHER SHALL SHEATHING SHEATH OF THE SHALL
 BY SHEATHER SHALL SHEATHING SHEATH OF EACH
 BY SHEATHER SHALL SHEATH SHELD WITHOUT ADDITIONAL
 BY SHEATHER SHALL SHELL SHE LOCATED WITHOUT ADDITIONAL
 BY SHEATHER SHALL SHE SHEATED BY THIN 12 FEET OF EACH
 BY OF A BRACED WALL LINE.

 1. THE MAXIMUM BOOKE DISTANCE BETWEEN BRACED WALL SHEATH OF 48° OR LESS

 1. MASONEY OR CONCRETE STEM WALLS WITH A LENGTH OF 48° OR LESS

- ENU OF A DEVIACIONAL DESCRIPTION DE PARCED WALL PANELS SHALL NOT EXCEPCI 21 FEET.

 MASONAY OR CONCRETE STEM WALLS WITH A LENGTH OF 49° OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORPANCE WITH FURINGE REWIZEA'S OF THE 70% KYERC.

 B. BRACED WALL PANEL CONNECTIONS TO FLOORICELLING SHALL BE CONSTRUCTED IN ACCORPANCE WITH SECTION REWIZEA'S CONSTRUCTURE SHALL BE DESIGNED IN ACCORPANCE WITH FIGURE REWIZEA'S (IMO)

 ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.

 & ABBREVIATIONS:

 WAS A STRUCTURED BRACED.

 WAS A BROWN AND BROWN AND BRACED.

 WAS A BROWN AND BRACED.

 WAS A BROWN AND BRACED.

 WAS A BR

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SHITH DOUGLAS HOMES COMPLETED REVISED ON <u>PROVIDED</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SHITH ITS PROVIDED ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, SHITH ITS MADERING, LADROATORY I TESTING, P.C. CANNOT GLIARANTEE THE ADEQUIACY OF THESE STRUCTURAL PLANS INFO MERCHITECTURAL PLANS OF THE SECONDAL PLANS INFO MERCHITECTURAL PLANS OF THE DATE LISTED ABOVE.

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

FIRST FLOOR BRACING (FT)					
CONTINUOUS SHEATHING METHOD ELEV ADG 4 CFI					
REQUIRED PROVIDED					
FRONT	8.8	22.2			
LEFT	8.4	15.8			
REAR	8.8	17.5			
RIGHT	8.4	15.5			

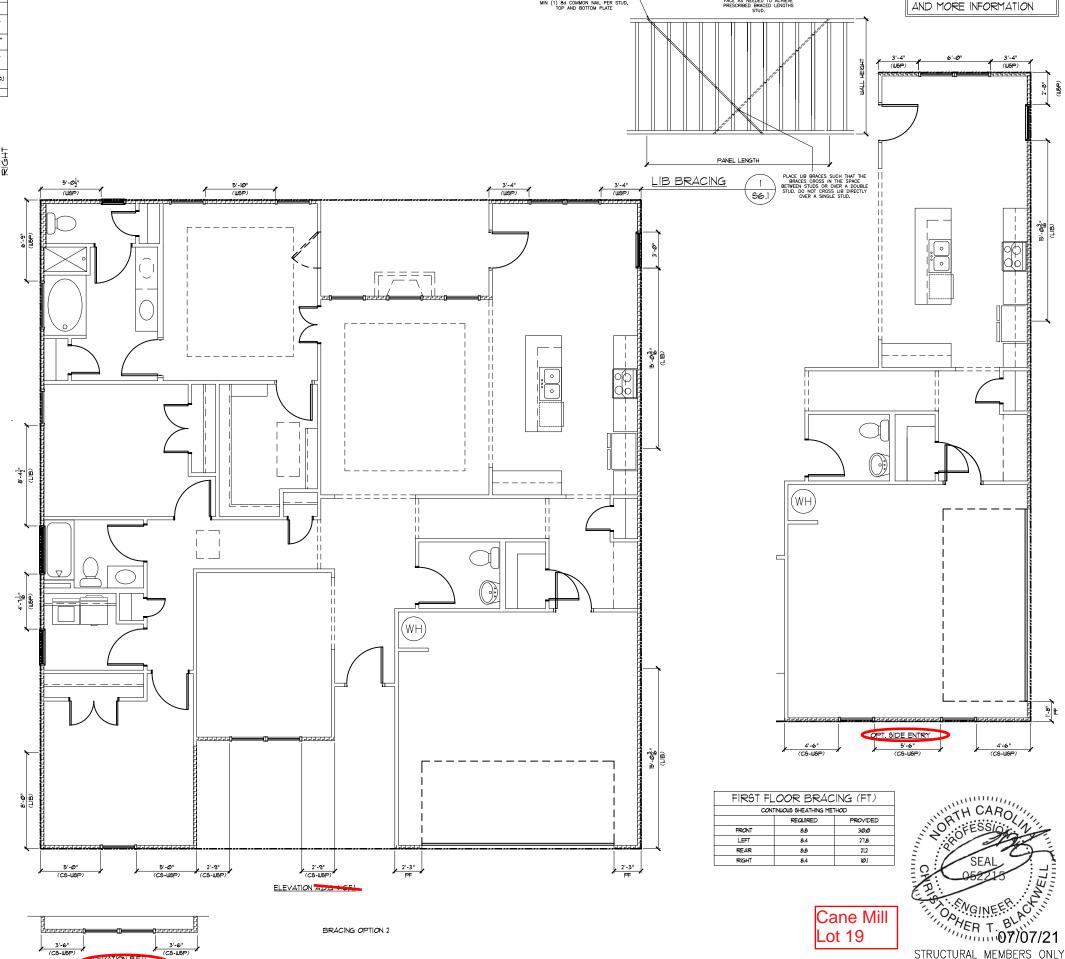
FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD - ELEY BEH						
REQUIRED PROVIDED						
FRONT	8.8	19.2				
LEFT	8.4	15.8				
REAR	8.8	17.5				
RIGHT	8.4	15.5				

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 LABILITY. TO DO SO WILL VOID SUMMIT LIABILITY

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

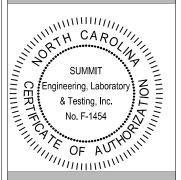
FIRST FLOOR BRACING PLAN





SEE SHEET ST. Ø FOR NOTES

3070 Hammond Business Place Suite 171, RALEIGH, NC 27603 OFFICE: 919 380 9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



<u>g</u> <u>o</u> 0X Douglas Homes . Reliance Ave x, NC 21539 Bracing (T) Floor Lancaster Дрех, Smith 1 First

CURRENT DRAWING

DATE: 7/6/2021

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

PROJECT *: 3832.309R

DRAWN BY: JV

CHECKED BY: BCP

ORIGINAL DRAWING

DATE PROJECT *

11/16/2018 3832.175

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

STRUCTURAL MEMBERS ONLY

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. 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.
- 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:

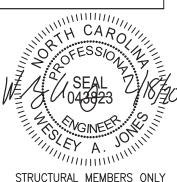
- 1. Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards
- 2. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in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

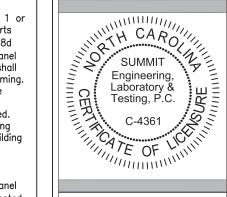
STRUCTURAL STEEL:

- 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.





3070 HAMMOND BUSINESS PLACE SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



Specifications 21. glas Homes Trail, Suite , GA 30188 110 Village T Woodstock, (Dougl and Notes Smith |

2

CURRENT DRAWING

Details

Standard

DATE: 2/18/20 SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAI

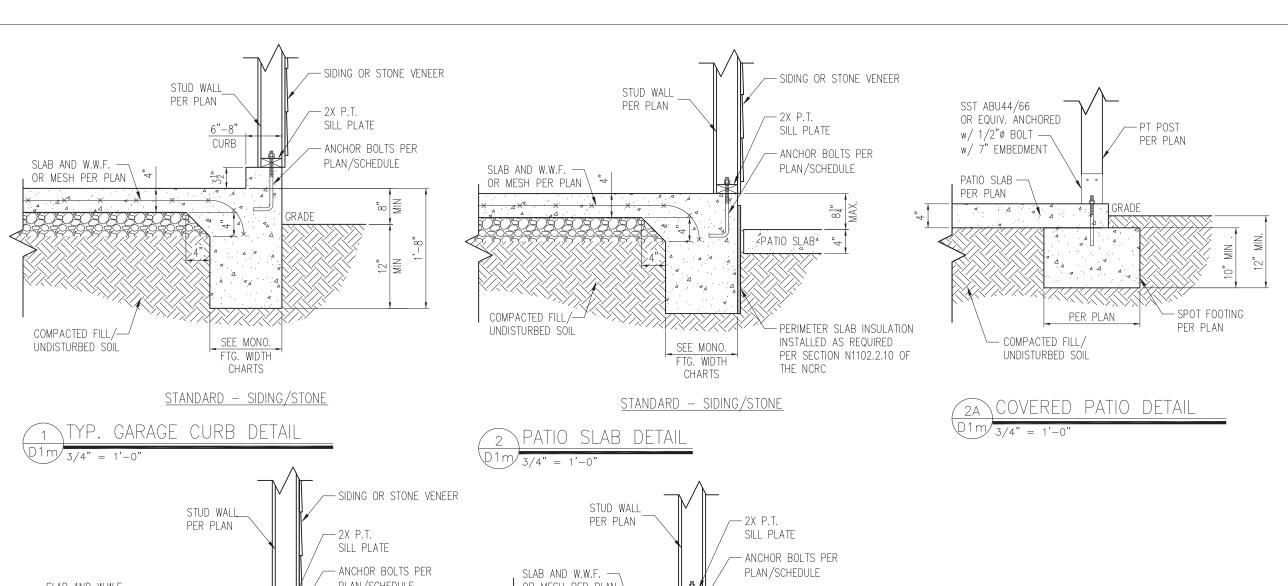
ORIGINAL DRAWING

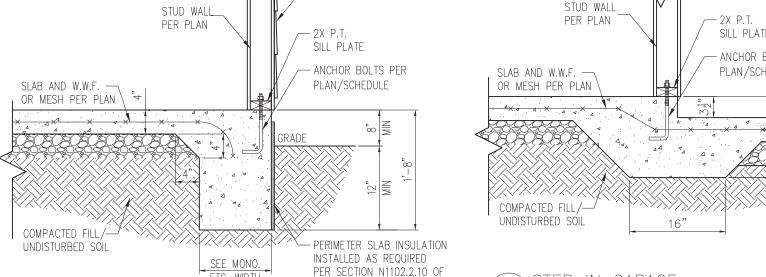
DATE PROJECT # 1/7/16 3832

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

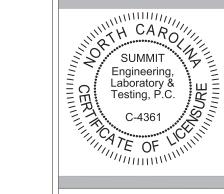
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY				
	1500 PSF	2000 PSF	2500 PSF		
1 STORY - STD.	16"	16"	16"		
1 STORY - BRICK VENEER	21"*	21"*	21"*		
2 STORY - STD.	20"	16"	16"		
2 STORY - BRICK VENEER	25"*	21"*	21"*		
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC					

FOOTING WIDTH FOR BRICK SUPPORT





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



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

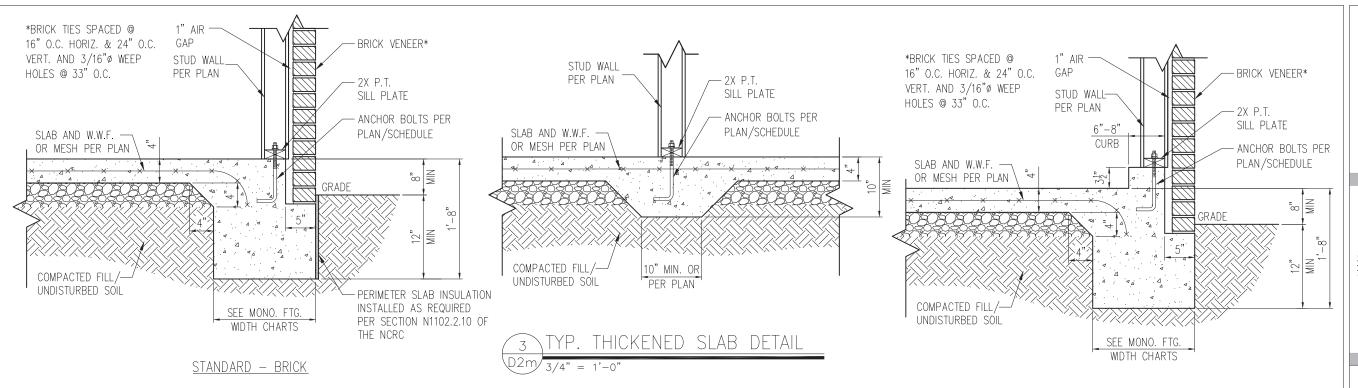
ORIGINAL DRAWING

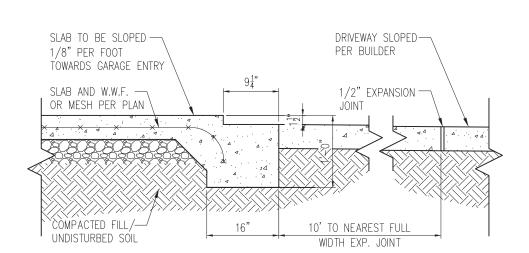
DATE PROJECT # 1/7/16

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

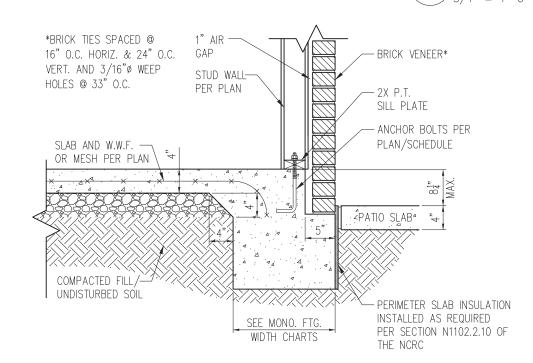
D₁m





YP. SLAB DETAIL W/ BRICK VENEER



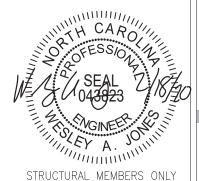


STANDARD - BRICK

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

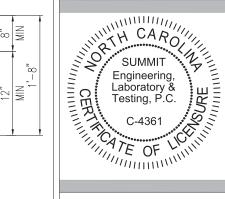
TYP. GARAGE CURB DETAIL

W/ BRICK VENEER

SUMMIT
ENGINEERING LABORATORY TESTING
3070 HAMMOND BUSINESS PLACE,
SUITE 171, RALEIGH, NC 27603
OFFICE: 919.380.9991

FAX: 919.380.9993

WWW.SUMMIT-COMPANIES.COM



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

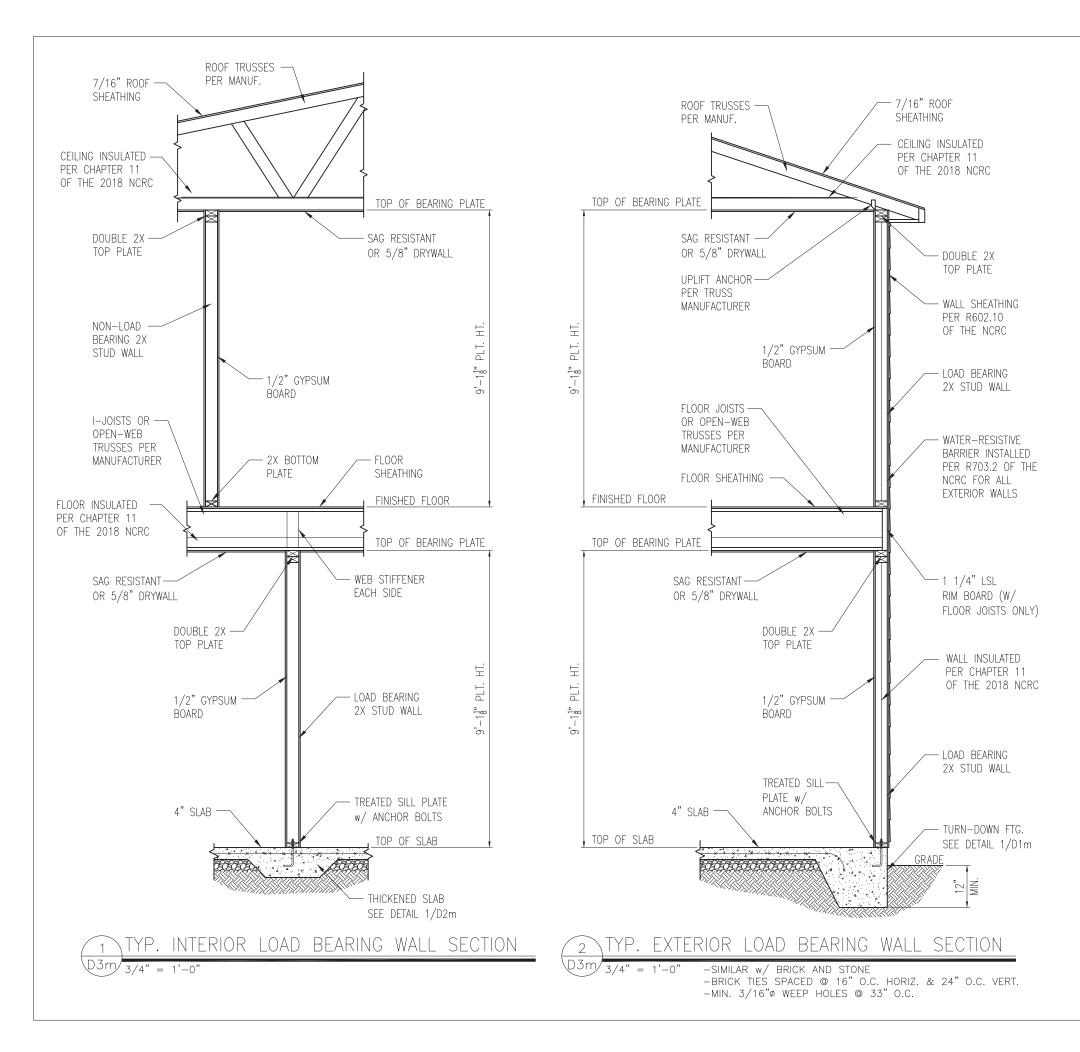
ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D₂m





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

3070 HAMMOND BUSINESS PLACE,

SUITE 171, RALEIGH, NC 27603

OFFICE: 919.380.9991

FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM

THE CAROLLING

2

21

SUMMIT Engineering, Laboratory & Testing, P.C.

CURRENT DRAWING

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

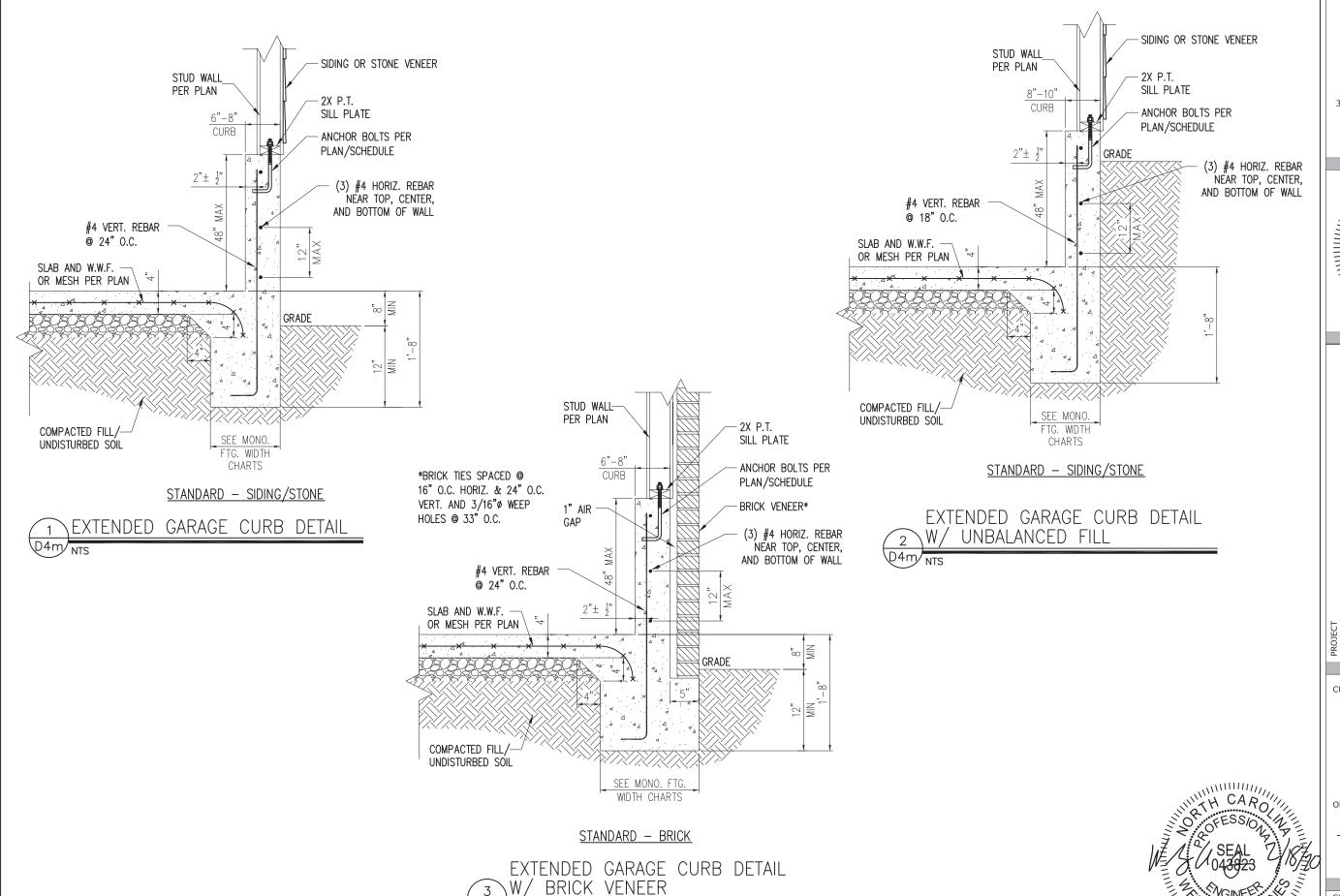
D₃m

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.

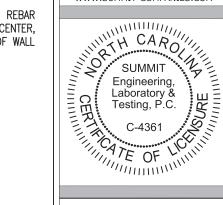




D4m/NTS



3070 HAMMOND BUSINESS PLACE SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

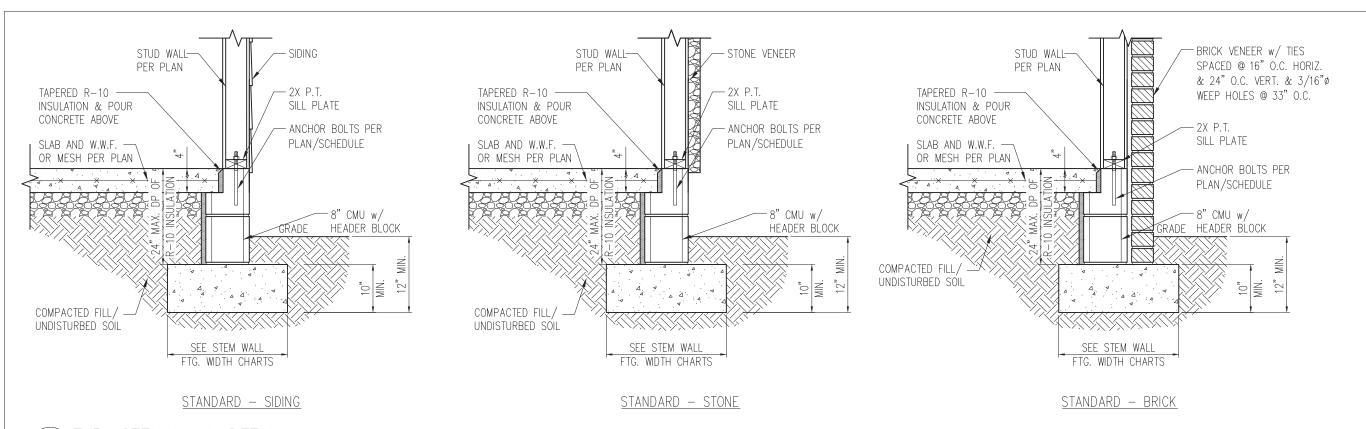
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

THEY A. JOHN

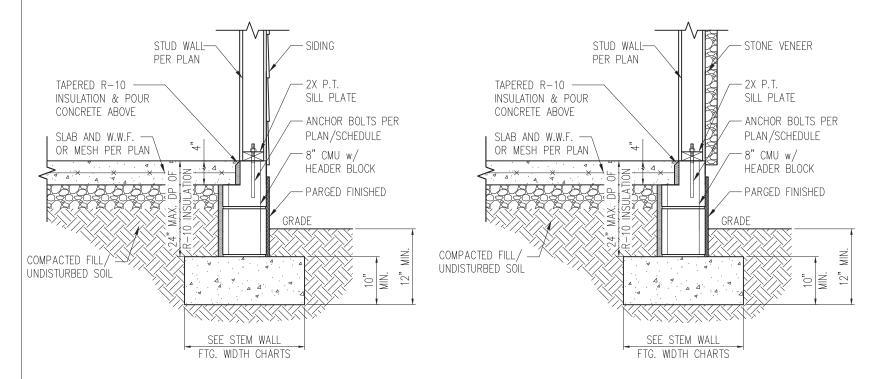
STRUCTURAL MEMBERS ONLY

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

O'LLIN IN ILLE TOO THE THE					
# 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.

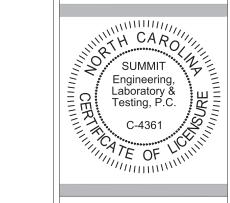


SUMMIT ENGINEERING LABORATORY TESTING 3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603

OFFICE: 919.380.9991

FAX: 919.380.9993

WWW.SUMMIT-COMPANIES.COM



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

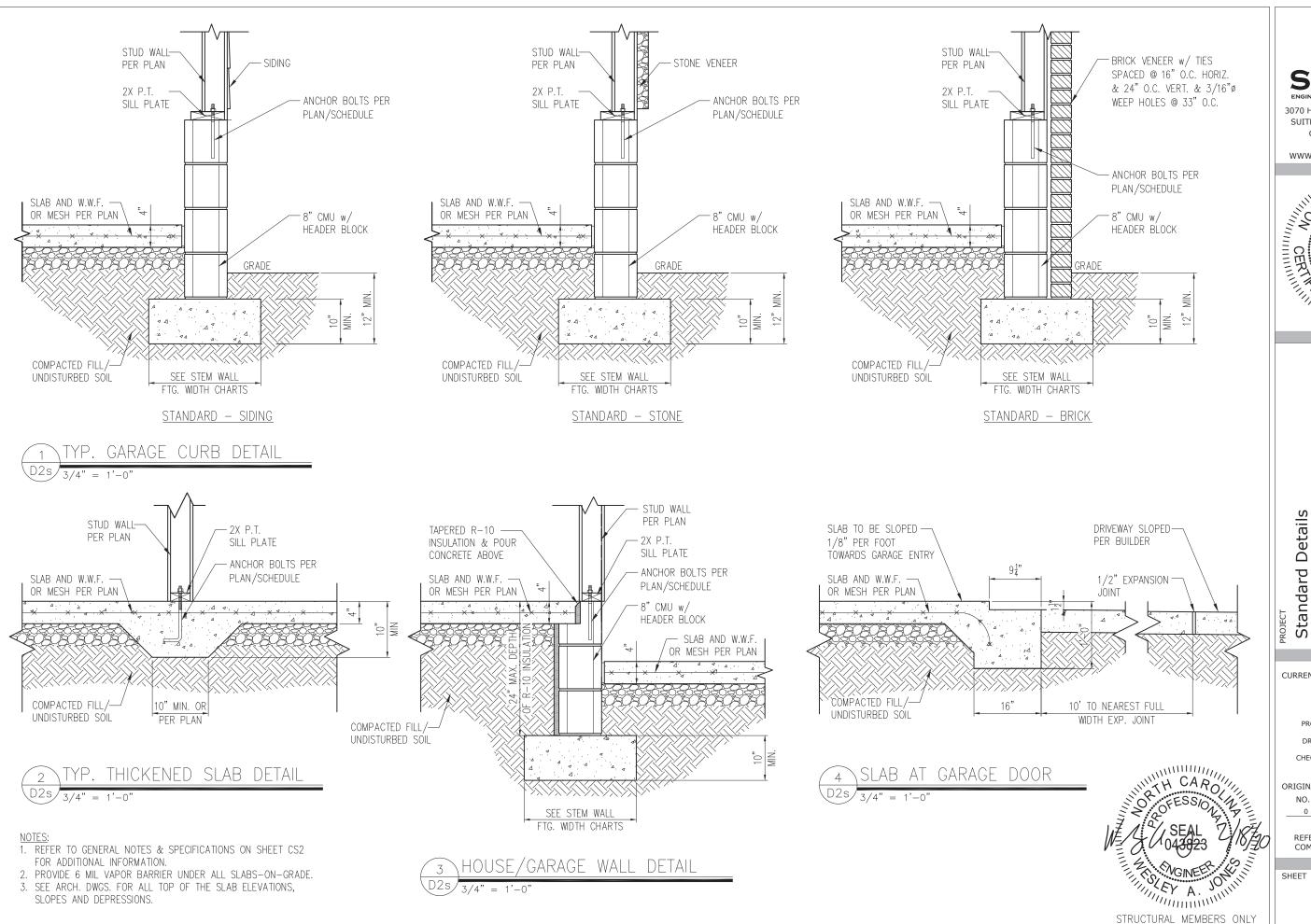
ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

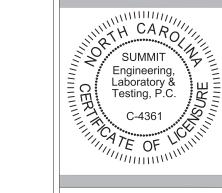
SHEET

D1s





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



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

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1ECT # · 3832

DRAWN BY: LBV

CHECKED BY: WAJ

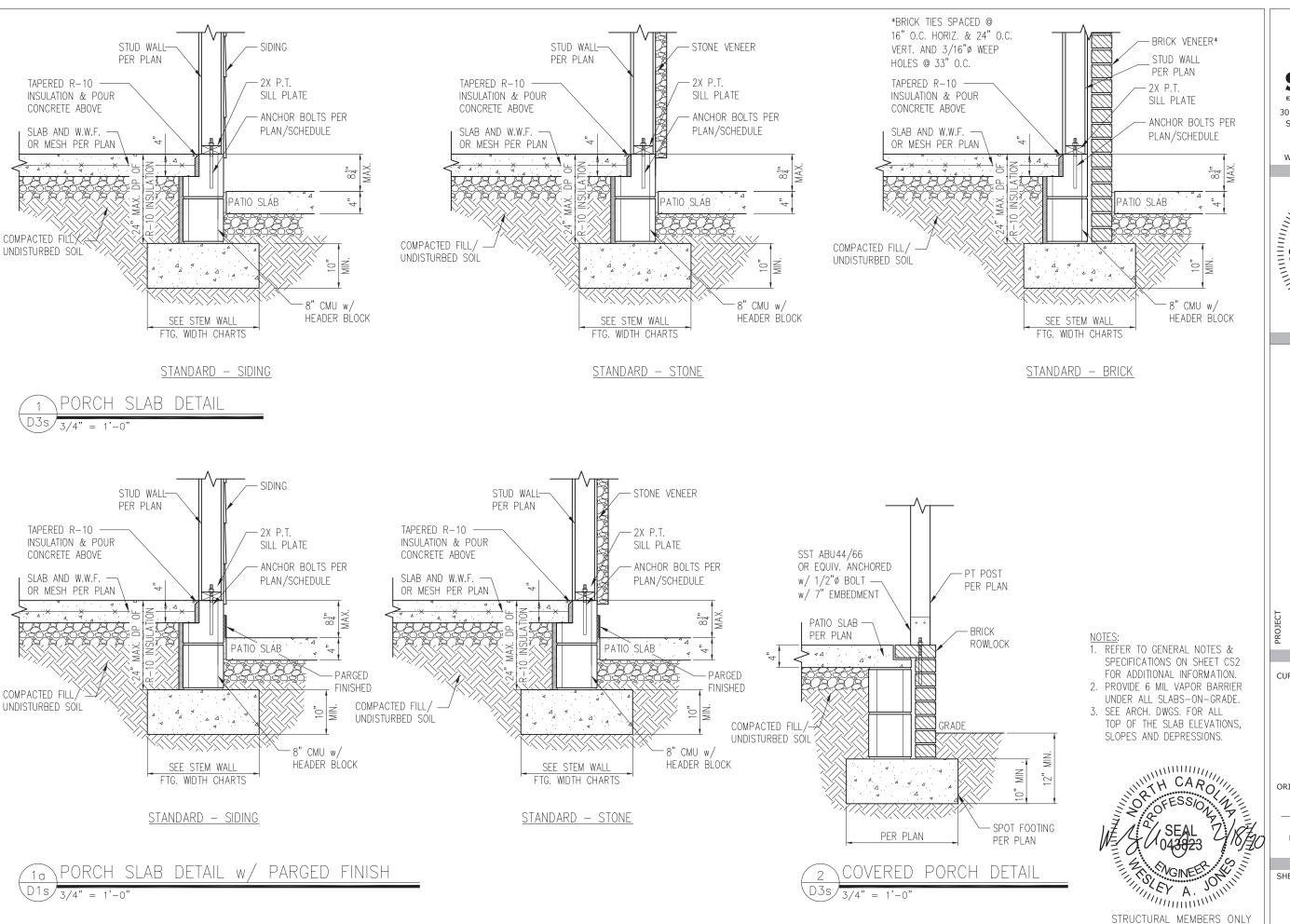
ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

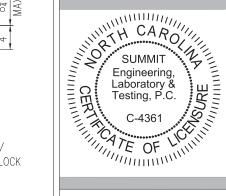
SHEET

D2s





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



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

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1FCT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

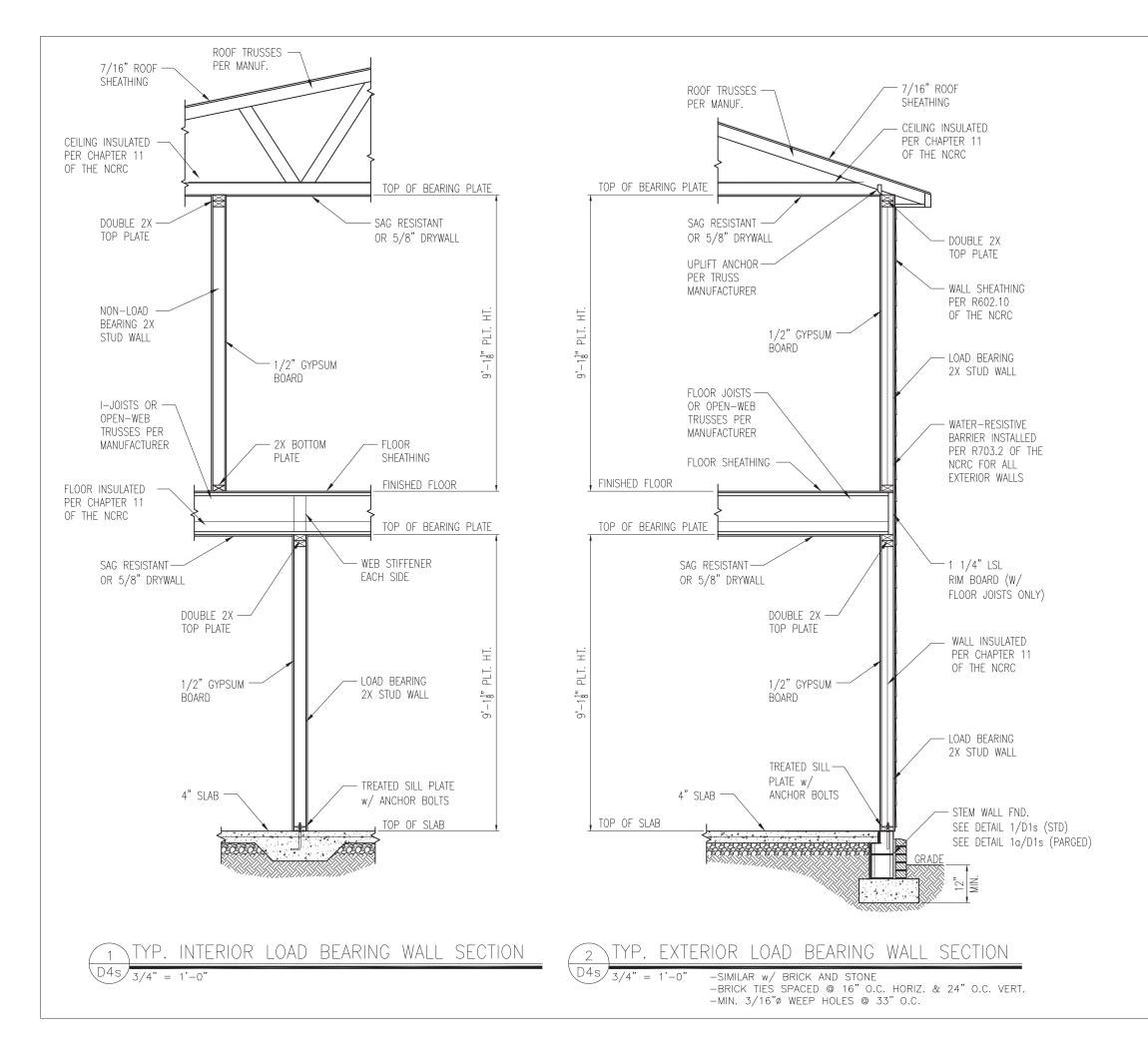
ORIGINAL DRAWING

DATE PROJECT # 1/7/16

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

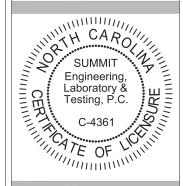
SHEET

D3s





3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

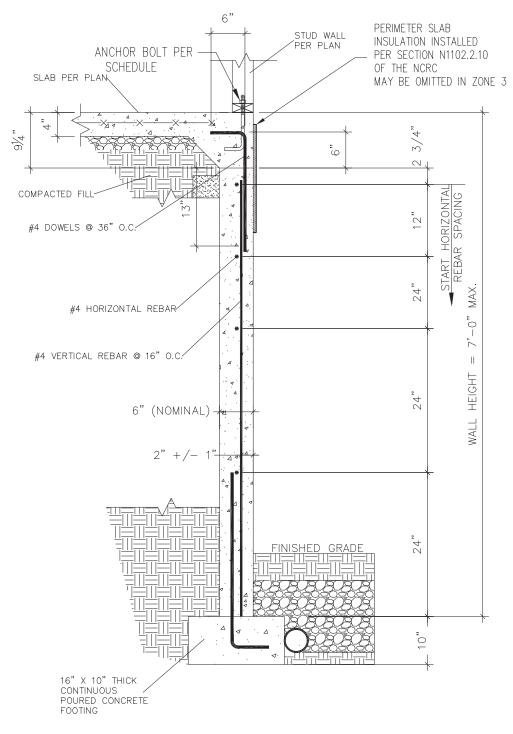
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

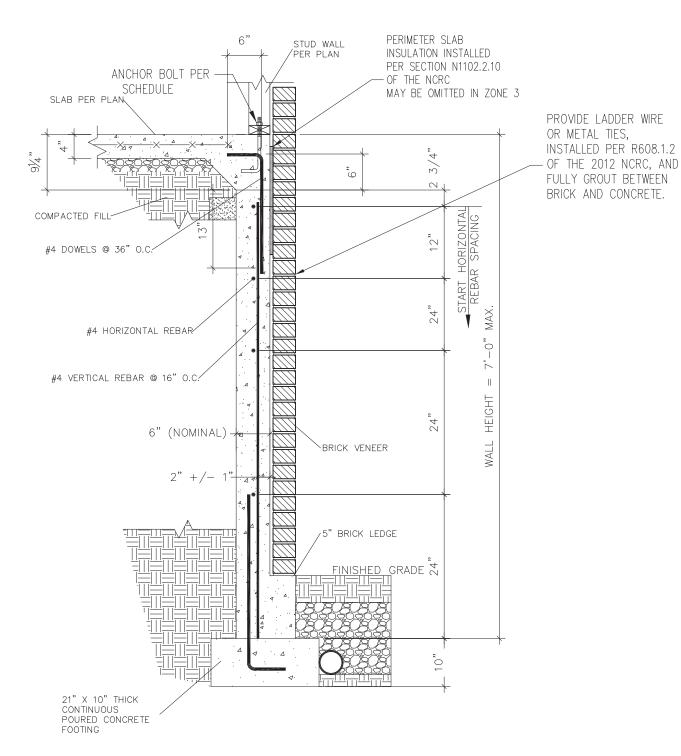
D4s

- 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.









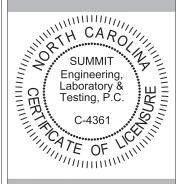
SUBWALL FOUNDATION W/ BRICK VENEER

3/4" = 1'-0"





3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

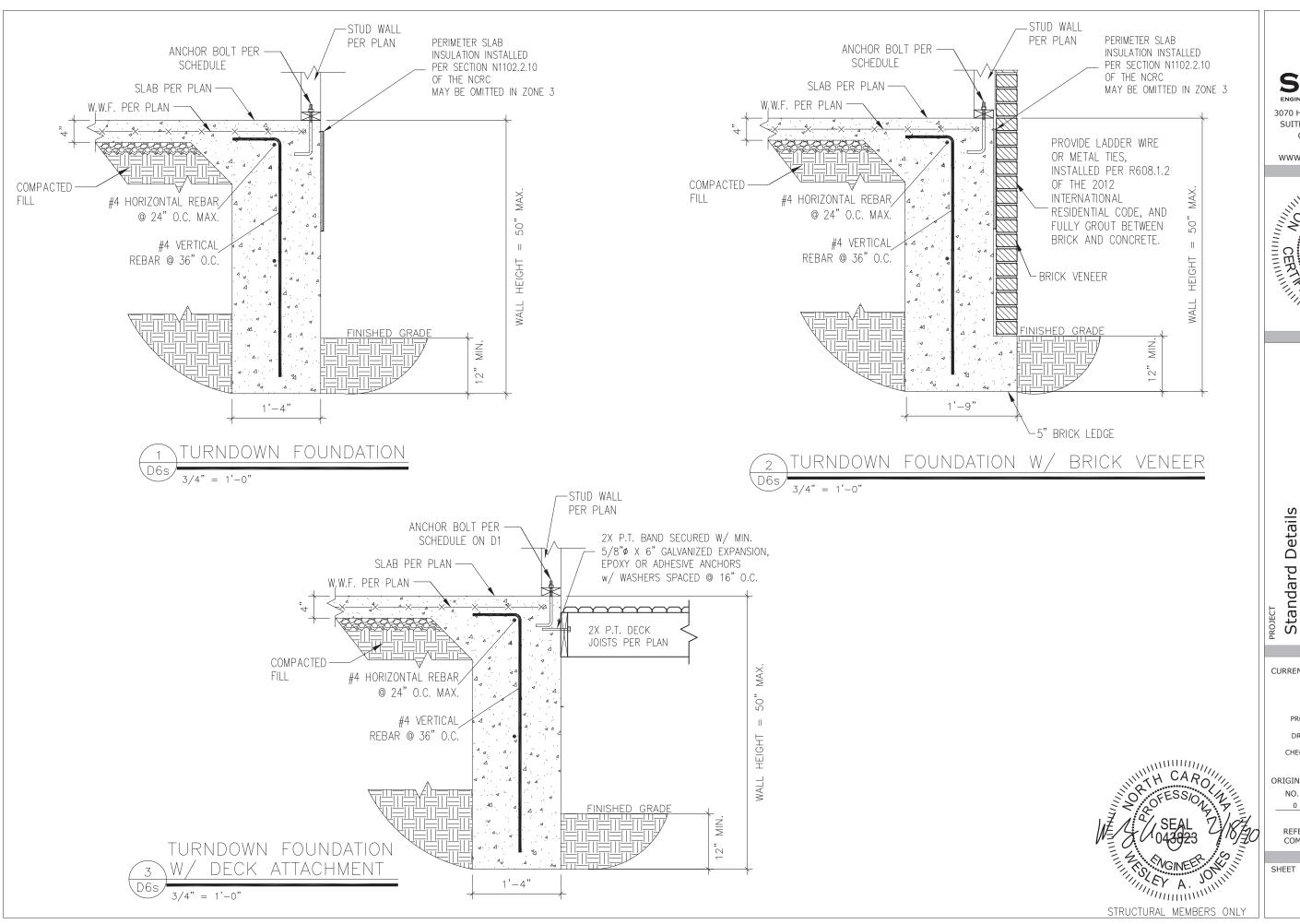
ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

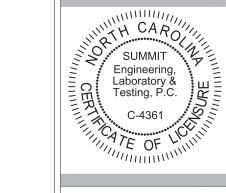
SHEET

D5s





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



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

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1ECT #: 3832

DRAWN BY: LBV

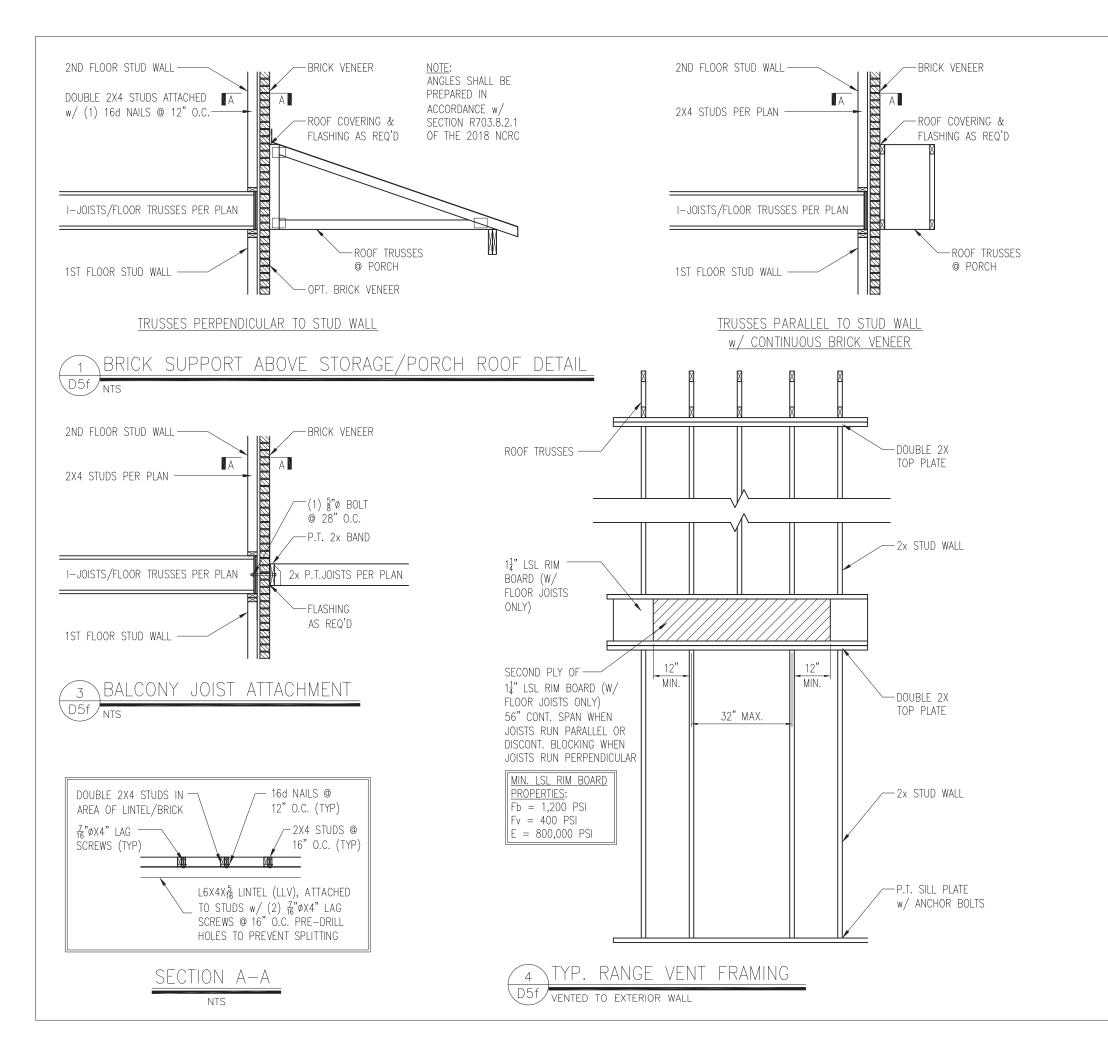
CHECKED BY: WAJ

ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

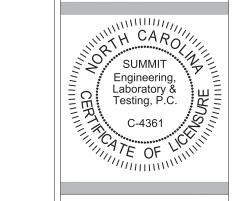
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D6s





3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

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

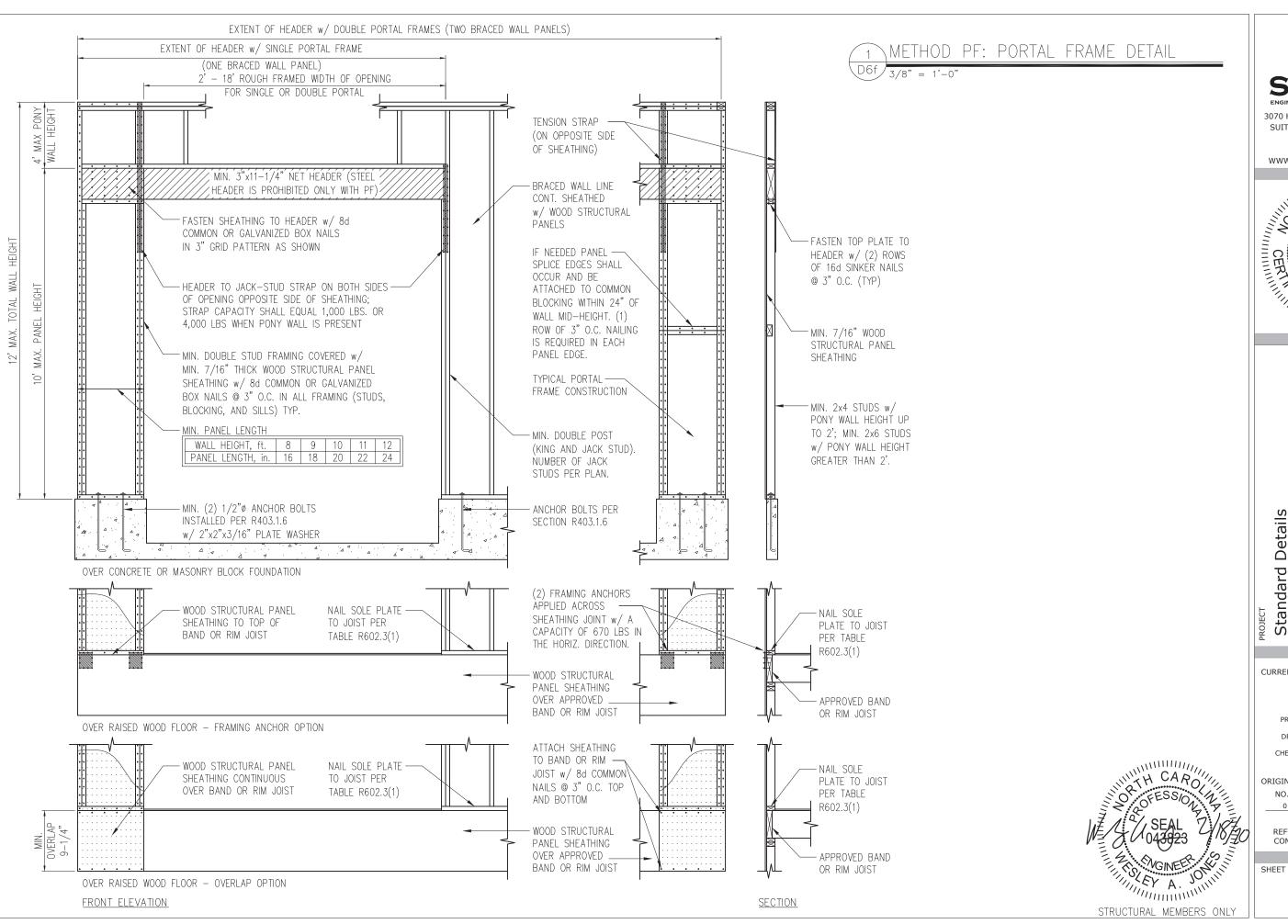
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

THEY A. JOHN

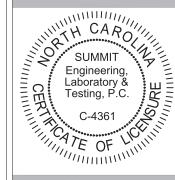
STRUCTURAL MEMBERS ONLY

D5f





3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

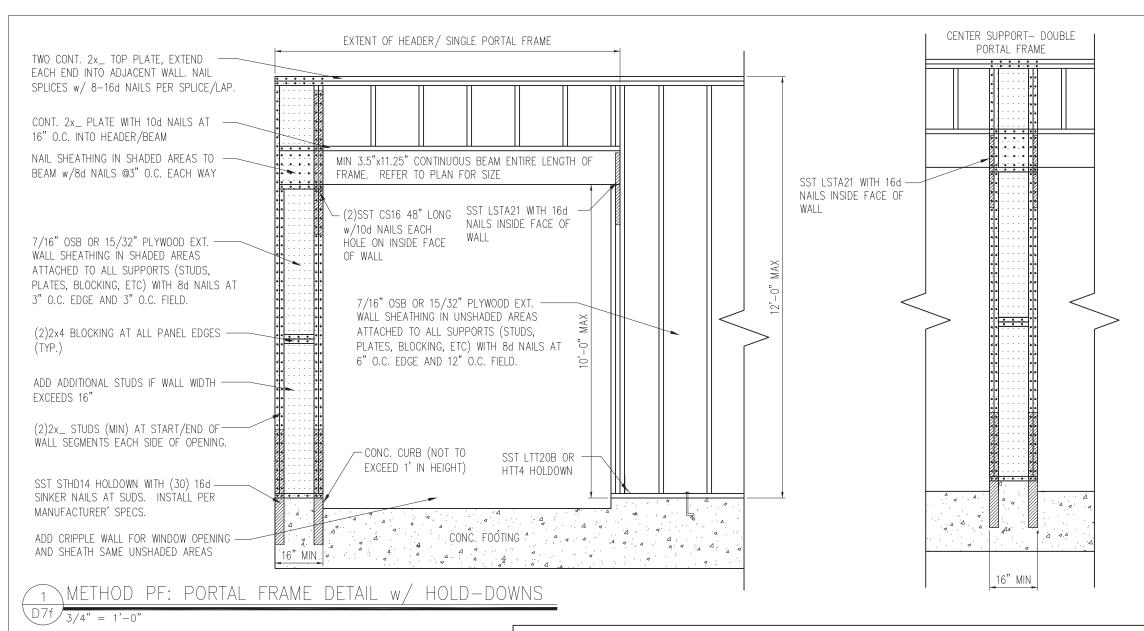
CHECKED BY: WAJ

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

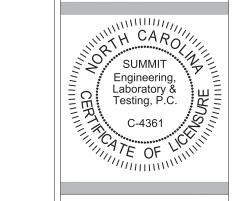
MINIMUM FASTE	NING	NG 3½" WIDE		51/4" WIDE		7" WIDE		
REQUIREMENTS FOR TOP- AND SIDE-LOADED MEMBERS								
FASTENER TYPE	LVLDEPTH	2-Ply 13/4"	3-Ply 13/4"	13/4" + 31/2"	4-Ply 13/4"	2-Ply 13/4" + 31/2"	2-Ply 31/2"	
10d (0.128" x 3")	7¼"≤d<14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.		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. (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).



3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

CURRENT DRAWING

DATE: 2/18/20 SCALE: NTS

PRO1ECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

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

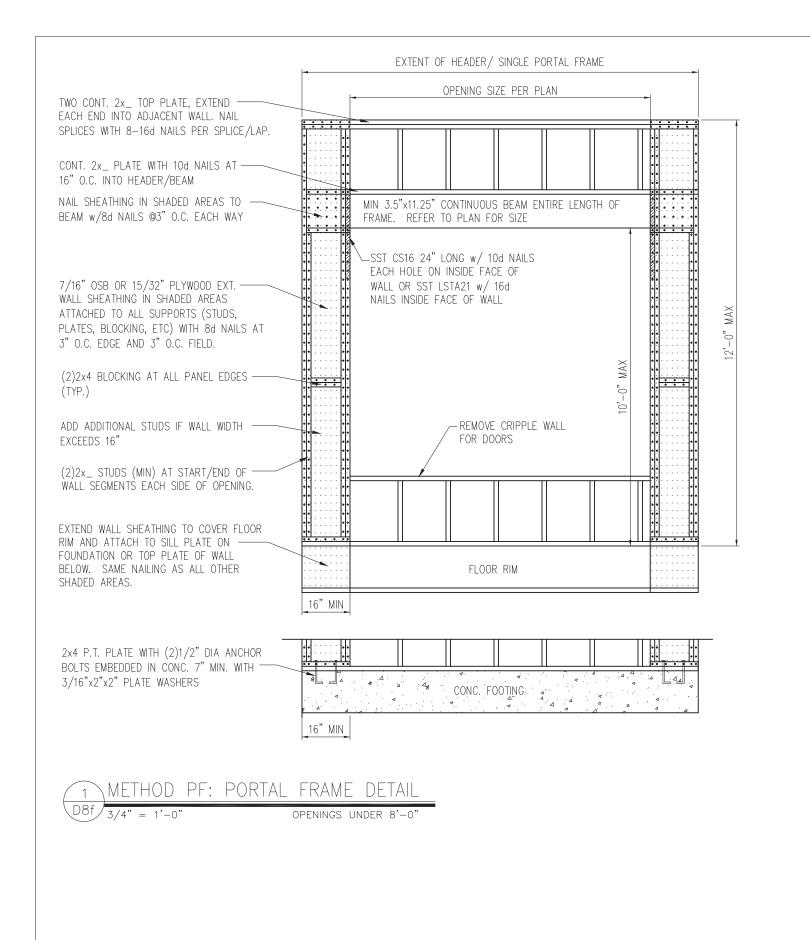
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

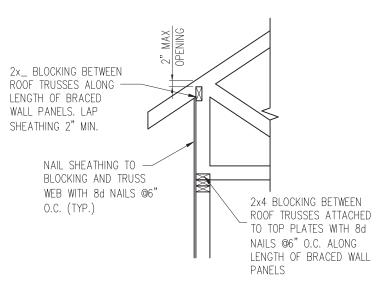
SHEET

THEY A. JOHN

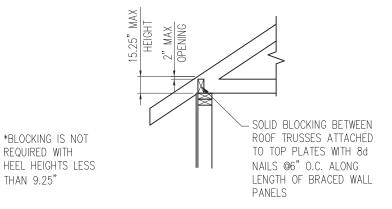
STRUCTURAL MEMBERS ONLY

D7f





HEEL HEIGHT GREATER THAN 15.25"

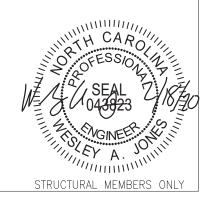


HEEL HEIGHT LESS THAN 15.25" *

YP. WALL PANEL TO ROOF TRUSS CONNECTION

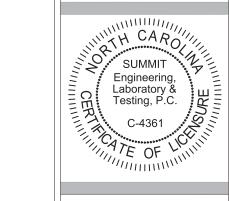
REQUIRED WITH

THAN 9.25"





3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1ECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

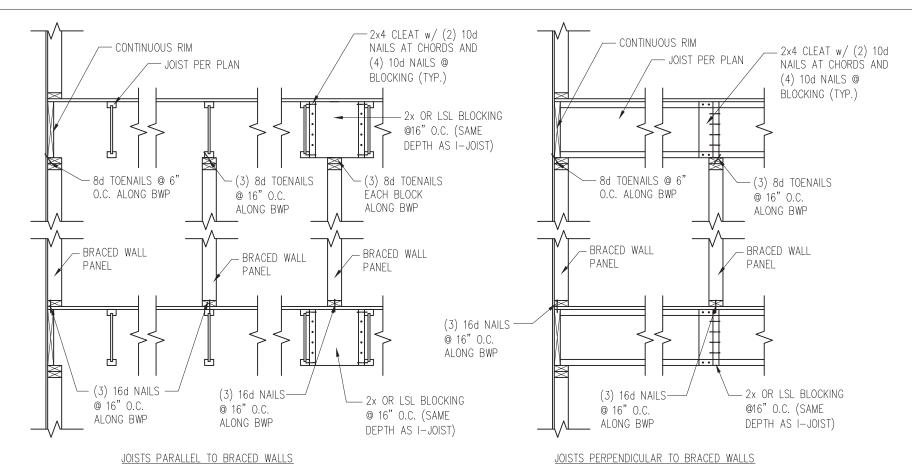
DATE PROJECT #

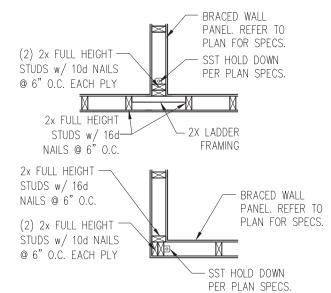
1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

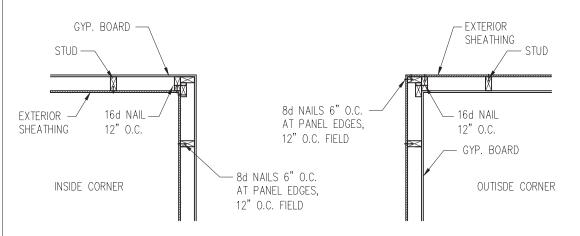
D8f

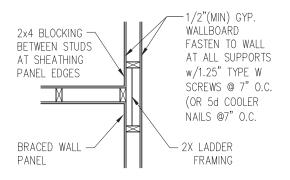




TYP. HOLD DOWN DETAIL
D9f

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

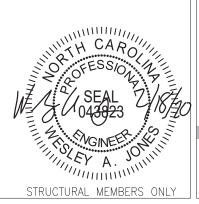




TYP. EXTERIOR CORNER FRAMING

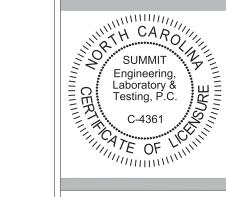
3 INTERIOR 3-STUD WALL INTERSECTION

D9f 1" = 1'-0"





3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

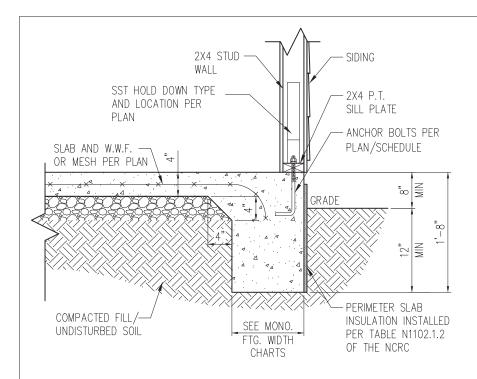
ORIGINAL DRAWING

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

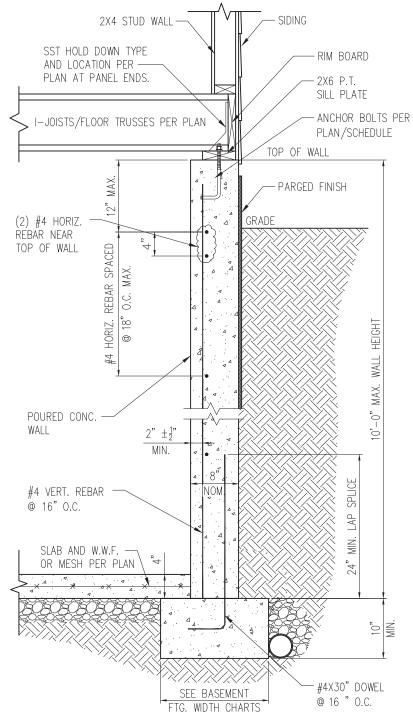
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D9f

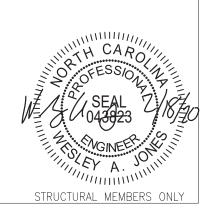


SLAB DETAIL w/ HOLD-DOWN



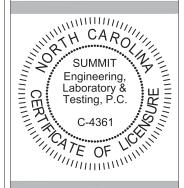
STANDARD - SIDING

BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN





3070 HAMMOND BUSINESS PLACE, SUITE 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



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

2

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

SHEET

D10f