FOXCROFT

CEDAR POINTE LOT 0031



PLAN ID: 110719.1001

110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

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

AREA TABULATION				
FIRST FLOOR	1202			
TOTAL	1202			
GARAGE	381			
FRONT PORCH	18			
(COVERED)	10			
FRONT PORCH	17			
RFAR PATIO	120			

GOVERNMENTAL CODES & STANDARDS

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

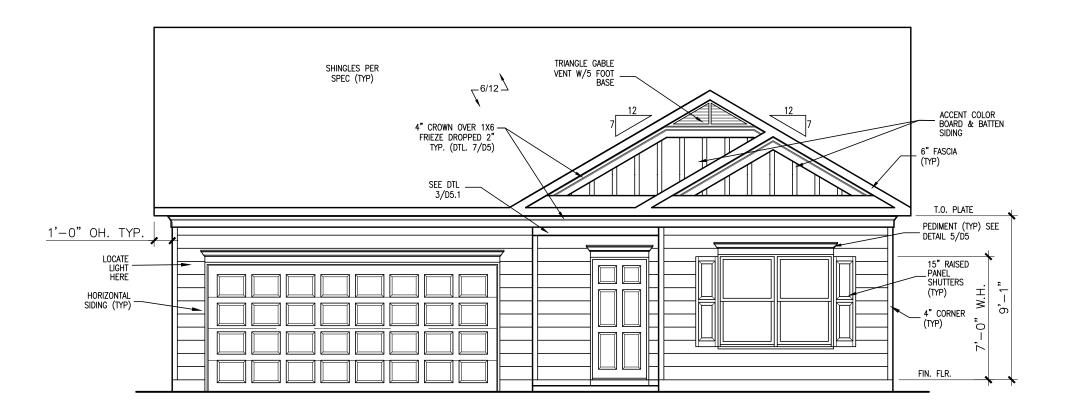
BUILDING CODE ANALYSIS / DESIGN CRITERIA

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

		PLAN REVISIONS	
DATE	BY	REVISION	PAGE #
5/2/2018	AW	PCR 2158 Remove optional kitchen island and move sink island toward cooktop wall. Add clg. light and switch to new Nook area.	A3.1-A5.1, A7.2-A8.1
5/2/2018	AW	PCR 2277 Change B-2, B-3 & Owner's closet door from 4068 DH to 2468 single hung. Change Owner's W.I.C. & Obath door from 3068 DH to 3068 single hung	A5.1, A7.2
1/17/2019	AW	PCR #2789 Changed Hall Bath 3068 door to 2868	A5.1
3/27/2019	ММ	Added callout for detail 3/D5.1 at front patio	A1.1-A1.9
5/9/2019	MM	Added side entry garage option	A1.1-A5.1, A7.2
10/2/2019	AW	PCR #3271 added dim to PDS from front of garage	A5.1
11/7/2019	AW	PCR #3353 Changed Owner's Bath vanity size from 36" to 33" for toilet plumbing clearance	A3.1, A5.1, A5.4, A7.2
10/1/2023	AW	PCR #5379 changed 2x6 plumbing wall in hall bath to 2x4 and wall between linen & laundry to 2x6	A3.1, A5.1

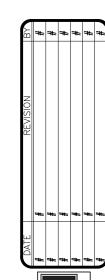
ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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



FRONT ELEVATION "B"

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

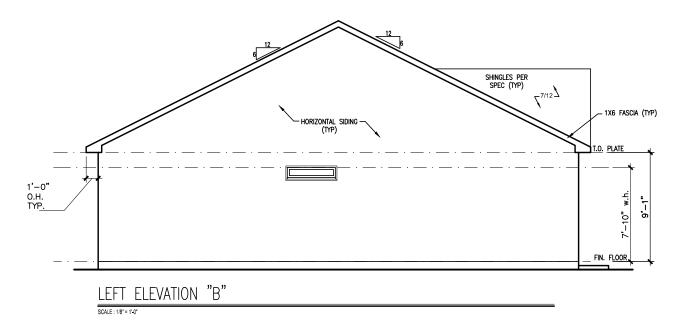


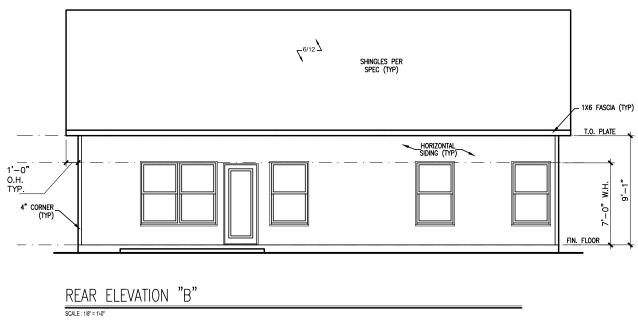
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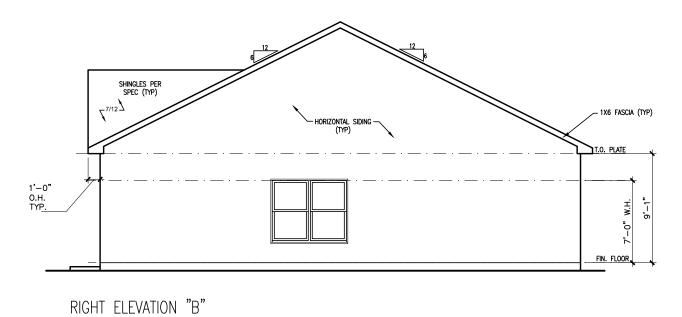
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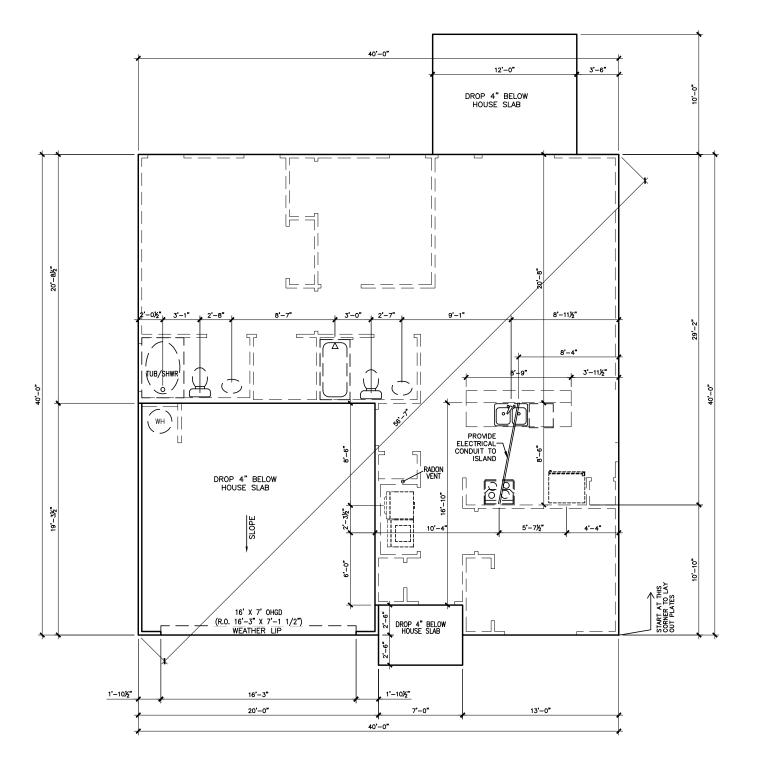


KCC CH: AW

ATE: 2/24/25

Ã2.1

В



SLAB PLAN

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

*RADON VENT PROVIDED PER LOCAL CODE

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

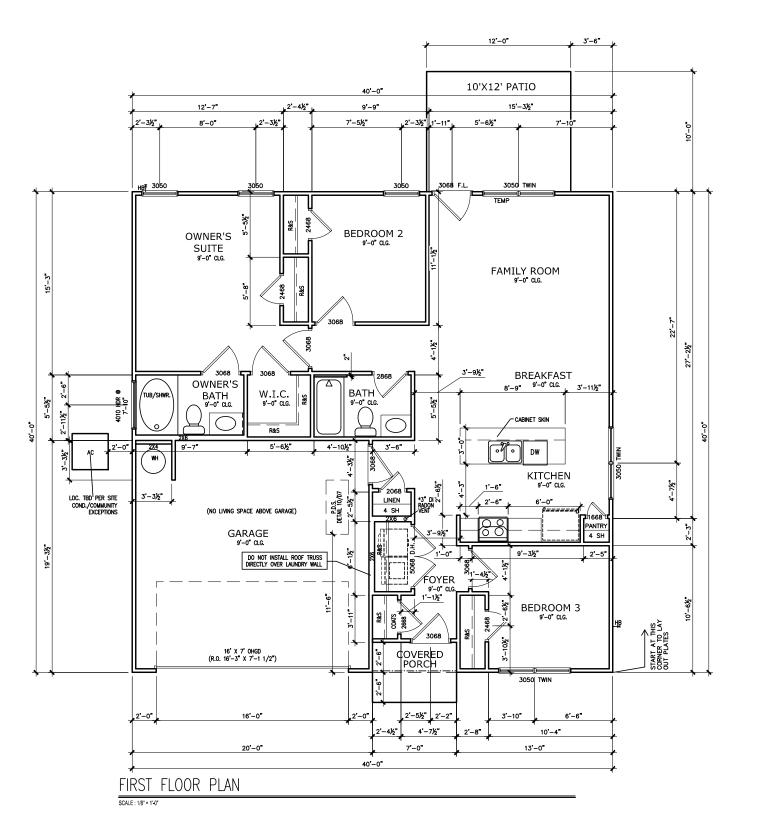


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KCC BY:	CH: AW
DATE: 2/24	1/25
FACADE OPT:	3
PLAN ID:	
FND: ALL	B B
PAGE NO:	3.1



*RADON VENT PROVIDED PER LOCAL CODE

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



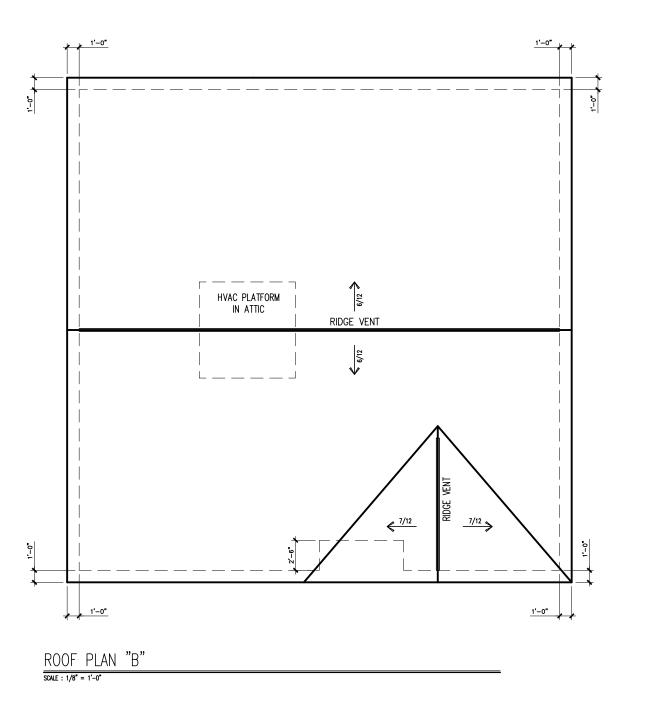
SMITH DOUGLAS HOMES

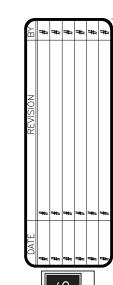
FLOOR PLAN FIRST FLOOR FOXCROFT

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10'X12' PATIO BEDROOM 2 **FAMILY** OWNER'S ROOM SUITE OWNER'S/ BREAKFAST BATH W.I.C. ELECTRICAL PROVIDED AS NEEDED ₩^{SD} GARAGE FOYER_ BEDROOM 3

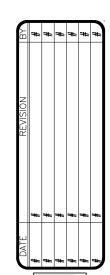
FIRST FLOOR ELECTRICAL PLAN

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

CEDAR POINTE LOT 0031

ELE	ELECTRICAL LEGEND					
\$	SWITCH		TV			
\$3	3 WAY SWITCH	ф	120V RECEPTACLE			
\$4	4 WAY SWITCH	P	120V SWITCHED RECEPTACLE			
Ø	CEILING FIXTURE	•	220V RECEPTACLE			
- ∳ _K	KEYLESS	P _{GFCI}	GFCI OUTLET			
₩X	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUIT INTERRUPTER			
0	CEILING FIXTURE	† _{GL}	GAS LINE			
•	FLEX CONDUIT	† _{wL}	WATER LINE			
СН	CHIMES	¥	HOSE BIBB			
PH	TELEPHONE	8	FLOOD LIGHT			
SD/Cd ₩	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE			
SO	SECURITY OUTLET		OFILINO FAN			
	GARAGE DOOR OPENER		CEILING FAN			
	EXHAUST FAN		ELECTRICAL WIRING			
9	FAN/LIGHT	-	CEILING FIXTURE			
ELEC.	ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES					
APPRO	APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)					
BREA	KFAST/DINING ROOM	63" ABO	VE FINISHED FLOOR			
KITCH	HEN PENDANT LIGHTS	33" ABO	VE COUNTER TOP			
TWO	STORY FOYER FIXTURE	96" ABO	VE FINISHED FLOOR			
CEILI	NG FAN	96" ABO	VE FINISHED FLOOR			

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

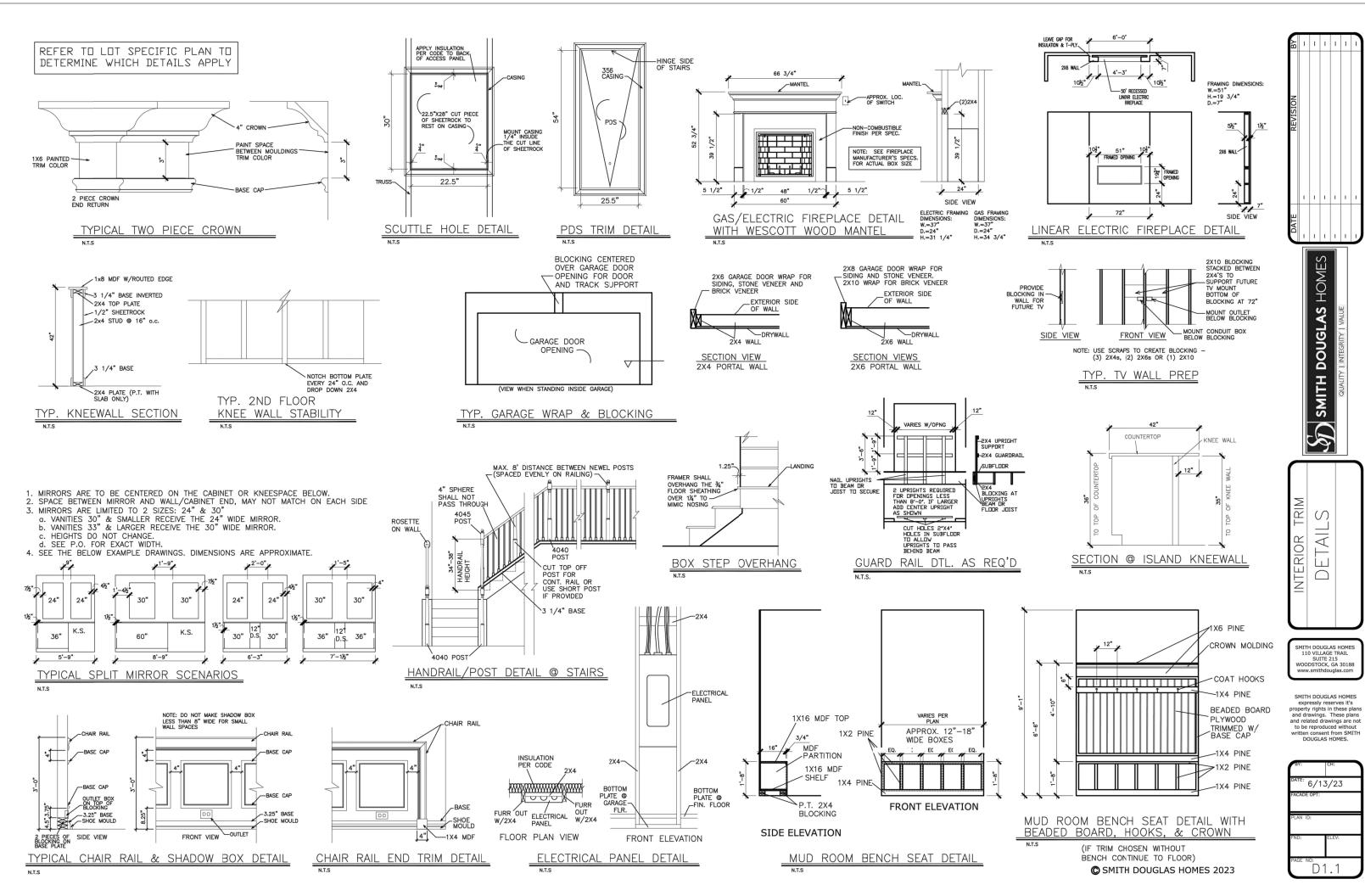


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ELECTRICAL PLAN
ELECTRICAL PLAN
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DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ Residential ☒

Applicable Building Codes:

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

Design Loads:

~ 1.	Roc	ρf			
		1.1	1		

l.l Líve	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
2.1 Typ. Dwelling	3Ø 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 I-Joist	15 PSF
3.3 Floor Truss	15 PSF
4. Ultimate Wind Speed (3 sec. gust)	
4.1 Exposure	В
4.2 Importance Factor	1.0
4.3 Wind Base Shear	

 $4.3.1 \ \forall x = 4.3.2 \ \forall y = 1.5 \ \text{Constant}$

5. Component and Čladding (in PSF)

MEAN ROOF HT.	UP TO 30'	3Ø'1"-35'	35'1"-40'	40'1"-45'
ZONE I	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 51te Class	\cup
6.2 Design Category	C
6.3 Importance Factor	1.0
6.4 Seismic Use Group	1

6.5 Spectral Response Acceleration

6.5.1 Sms = %g 6.5.2 Sml = %a

6.6 Seismic Base Shear

6.6.1 Vx =

6.6.2 Vy =

6.7 Basic Structural System (check one)

☑ Bearing Wall
☐ Building Frame

☐ Moment Frame

□ Dual w/ Special Moment Frame
□ Dual w/ Intermediate R/C or Special Steel

Inverted Pendulum

☑ 2000psf



STRUCTURAL PLANS PREPARED FOR:

FOXCROFT NC

PROJECT ADDRESS:

OWNER

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

ARCHITECT/DESIGNER:

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

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

PLAN ABBREVIATIONS:

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

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

SHEET LIST:

Sheet No.	Description			
CSI	Cover Sheet, Specifications, Revisions			
CS2	Specifications Continued			
S1.Øm	Monolithic Slab Foundation			
S1.Øs	Stem Wall Foundation			
51.0c	Crawl Space Foundation			
S1.0b	Basement Foundation			
S2.Ø	Basement Framing Plan			
\$3 <i>.</i> Ø	Fírst Floor Framing Plan			
S4.Ø	Second Floor Framing Plan			
S5.Ø	Roof Framing Plan			
S6.Ø	Basement Bracing Plan			
\$T.Ø	First Floor Bracing Plan			
S8.Ø	Second Floor Bracing Plan			

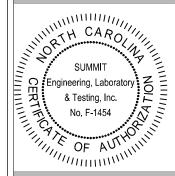
REVISION LIST:

Revision No.	Date	Project No.	Description
1	3/20/19	3832.252	Created NC version of plan with new truss layout
2	6/7/19	3832.252R	Added optional side load garage
3	7/22/20	3832.360	Update rear first floor framing
4	7/29/20	3832.36ØR	No charge update to plan
5	7/31/2Ø	3832.36ØR2	Correction to plan
6	8/3/20	3832.36ØR3	Update to plan per new architecturals
٦	Ø7/Ø7/21		Added LIB Option



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



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

DRAWING

PROJECT: FOXCROFT NC L Coversheet

DATE: 08/03/2020

SCALE: 1/8"=1'-0"
PROJECT *: 3832360R3

DRAWN BY: NAK

CHECKED BY: BCP

ORIGINAL INFORMATION PROJECT *

3832.184

DATE 12/28/2**0**18

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 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
- 3. 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 arade.
- 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 302.1R-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
- 2.3. Fv = 285 psi
- 2.4. Fc = 700 psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. 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 BI8.2.1-1981. 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. King studs shall be continuous.
- Individual studs forming a column shall be attached with one 10d nail @6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be fully blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached wth (3) 10d nails 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.

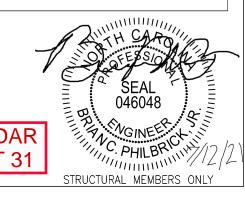
STRUCTURAL FIBERBOARD PANELS:

- 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:

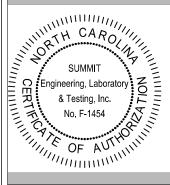
Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details. STRUCTURAL STEEL:

- 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



Ō 0<u>7</u> Homes las † 1506 ∆ 1539 Dougla Relianc Smith D 2520 R Apex,

DRAIIING

DATE: 08/03/2020 SCALE: 1/8"=1'-0"

Coversheet

PROJECT *: 383236@R3

DRAWN BY: NAK

CHECKED BY: BCP

ORIGINAL INFORMATION PROJECT * 3832184

DATE 12/28/2018

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 FOOTING PROJECTION 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 RAGA! OF THE 2019 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

 1. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL. PROVIDE FOUNDATION WATERPROCEING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.

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

 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK YENERS.

- 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 TJ = TRIPLE JOIST CL = CENTER LINE OC = ON CENTER PL = POINT LOAD

- 14. ALL PIERS TO BE 16"xi6" MASONRY AND ALL PILASTERS TO BE 8"xi6" MASONRY, TYPICAL. (UNO)

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

 16. A FOUNDATION EXCAVATION DESERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL. ENGINEER, OR HIS GUALIFIED EXPRESSIVATIVE. IF ISOLATED AREAS OF YIELDING MATERIALIS AND/OR POTENTIALLY EXPANSIVE SOLIS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION SHOTHED TRANSFERING, LABORATORY A TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.

 11. ALL FOOTINGS 4 SLASS ARE TO BEAR ON UNDISTURBED SOLI OR 95% COMPACTED FILL, VERFIED BY ENGINEER OR CODE OFFICIAL.

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

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON UELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R40%!

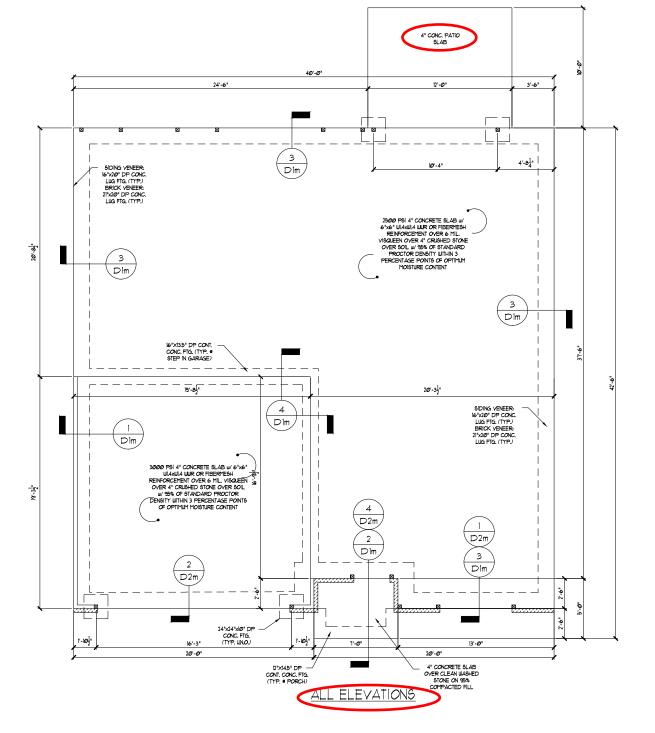
THESE PLANS ARE DESKNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SYMTH DOUGLAS HOWER COMPLETED/REVISED ON 60/4A/00/6. IT IS THE REPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT BY SHEERING, LABORATORY & TESTING, PC. F. ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUIARANTET HE ADEQUACY OF THESE STRUCTURAL PLANS HEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE. STRUCTURAL MEMBERS ONLY

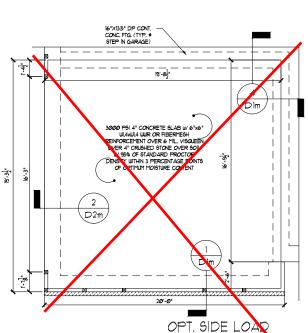
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL

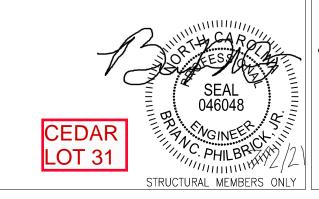
COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.









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DRAWING

DATE: 08/03/2020

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

PROJECT *: 383236@R3 DRAWN BY: NAK

CHECKED BY: BCP

ORIGINAL INFORMATION

PROJECT * 3832.184

DATE 12/28/2018

S1.0m

GENERAL STRUCTURAL NOTES:

- GENERAL STRUCTURAL NOTES

 1. CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENOPERINS.
 2. CONTRACTOR SHALL NERRY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT, ENSINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS PROTT HIS PLAN.
 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING RECUIRED TO RESIST ALL PORCES BOCANTIFEED DURING EFECTION.
 4. PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS.
 4. PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS.
 6. MICROLLAM (LUX.P.S. 2600 PS), F. = 230 PS), E. = 15540* PS!
 6. PARALLAM (PSI), F. = 2300 PSI, F. = 230 PSI, E. = 15540* PS!
 7. PARALLAM (PSI), F. = 2300 PSI, F. = 230 PSI, E. = 15540* PS!
 7. ALL WOOD PETBERS SHALL BE 9. SP (MO).
 7. ALL BEAMS SHALL BE 9. SP (MO).
 7. ALL BEAMS SHALL BE 10 PROPORTED WITH A 27) 24 PS SP (STUD COLUMN AT EACH END UNLESS NOTED O'HERWISE).
 7. ALL RESINFORCING STELL SHALL BE GRADE 60 BARS CONFORMING TO ASTM ASIS AND SHALL HAVE A MINIMAM COVER OF 3.7
 7. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION RADIAL HIMMONY 12* DIA BOLTS SPACED AT 6 -20* ON CENTER WITH A 1** TINIMAM PEREPUBLIAN IN MASONRY OR CONCRETE, ANCHOR BOLTS SHALL BE 10** FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS SHALL BE 10** FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS SHALL BE 20** FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS SHALL BE 20** FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS SHALL BE 20** FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS SHALL BE 10** FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS SHALL BE 10** FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS SHALL BE 10** FROM THE END OF THE BEAM.

 1. PLICTURE SHALL BE 10** FROM THE DESTON THE SOLT SHALL BE 10** FROM THE AND THE PLATE.

 2. CONTRACTOR TO PROPORTED HORSON FRO TETAL LIBER OF THE AND THE PLATE.

 3. ALL RECHARD HEADERS SHALL BE (1)** FROM THAD THE PLATE SECTION ANCHOR

Α

Α

- 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.

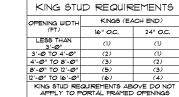
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.



HEADER TAG	BEAM TAG	SIZE	JACKS (EACH END.
-	BI	(1) 14" FLOOR JOIST	(2)
-	B2	(2) 14" FLOOR JOIST	(2)
А	B3	(2) 2x6	(I)
В	B4	(2) 2x8	(2)
С	B5	(2) 2xlØ	(2)
D	B6	(2) 2x 2	(2)
E	BT	(2) 9-1/4" LVL	(3)
F	B8	(2) II-7/8" LVL	(3)
G	B9	(2) 14" LVL	(3)
H	BIØ	(2) 16" LVL	(3)
1	BII	(2) 18" LVL	(3)
J	B12	(2) 24" LVL	(4)
K	B13	(3) 9-1/4" LVL	(3)
L	B14	(3) 11-7/8" LVL	(3)
М	B16	(3) I4" LVL	(3)
N	BIT	(3) 16" LVL	(3)
0	BIS	(3) 18" LVL	(3)
P	BI9	(3) 24" LVL	(4)

TIE ADED/BE AM COLEDULE

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

LINTEL SCHEDULE					
TAG SIZE OPENING SIZE					
Θ	L3x3x1/4"	LESS THAN 6'-0"			
2	L5x3x1/4"	6'-0" TO 10'-0"			
3	L5X5-1/2"X5/16"	GREATER THAN 10'-0"			
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS			
SECURE I NITEL	TO HEADER/	(2) 1/2"			

DECURE LINTEL TO HEADER W/ (2) 1/2"
DIAMETER LAG SCREWS STAGGERED @ 16"
OC. (TYP FOR 3) ALL HEADERS WITH BRICK ABOVE: (1)(UNO)

WALL STUD SCHEDULE 16T & 2ND FLOOR LOAD BEARING WALLS: 2x6 STUDS @ 24" O.C. OR 2x4 STUDS @ 16" O.C. 2X6 STUDS * 14" O.C. OR 2X4 STUDS * 16" O.C. 1ST FLOOR LOAD BEARING WALLS SUPPORTING: 2ND FLOOR * WALK-UP ATTIC: 2X6 STUDS * 16" O.C. OR 2X4 STUDS * 12" O.C. 246 STUDS 6 (6) O.C. OR 744 STUDS 6 (7) O.C.
BASEMENT LOAD ERRANG MULLS:
246 STUDS 6 (6) O.C. OR 724 STUDS 6 (7) O.C.
NON-LOAD BERANG MULLS:
244 STUDS 6 (2) O.C. OR 724 STUDS 6 (7) O.C.
NON-LOAD BEAUTY MULLS:
244 STUDS 6 (7) O.C. OR 7246 STUDS 6 (6) O.C.
WY ZS REACHOS 6 6: 6" O.C. VERTICALLY
(AKA, "BALLOON FRAMING")

NOTE: FRAMING DOES NOT Α ATTACH LINTEL TO HEADER W/ (1) ROW OF 1/2*6 3

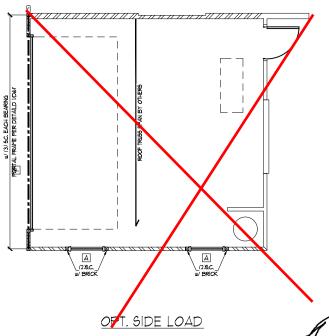
LAG SCREWS • 12* O.C. (OPT. BRICK)

CONT. W/ (3) 9.C. EACH BEARING (W/ 91DING 4 STONE VENEER) CONT. W/ (4) 9.C. EACH BEARING (W/ BRICK) W OPT. BRICK E 2 OPT. 4" BRICK PER ELEV. PORTAL FRAME PER DETAIL I/D6f

(2)5.C. A (2)5.C

F

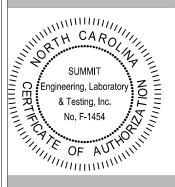
ALL ELEVATIONS



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DRAWING

DATE: 08/03/2020 SCALE: 1/8"=1'-@"

PROJECT *: 383236@R3 DRAWN BY: NAK

CHECKED BY: BCP

ORIGINAL INFORMATION PROJECT *

DATE 3832.184 12/28/2018

S3.0

TRUSS	TRUSS UPLIFT CONNECTOR SCHEDULE						
MAX, UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND				
535 LB6	H2.5A	PER WALL SHEATHIN	IG 4 FASTENERS				
1070 LB6	(2) H2.5A	CSI6 (END = 13")	DTT2Z				
1245 LB6	HT52Ø	CSI6 (END = 13")	DTT2Z				
112Ø LBS	(2) MT52Ø	(2) C916 (END = 13")	DŤŤ2Z				
249Ø LB6	(2) HT52Ø	(2) C616 (END = 13")	HTT4				
2365 LB6	LGT3-5D52.5	(2) C516 (END = 13")	HTT4				
I ALL DOODU	OTC LICTED ADE CINE	COLUMN TE FOUR	ALTRIT PROPILETS				

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

2. UPLIET VALUES LISTED ARE FOR SPF 2' GRADE METWERS.

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

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

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

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

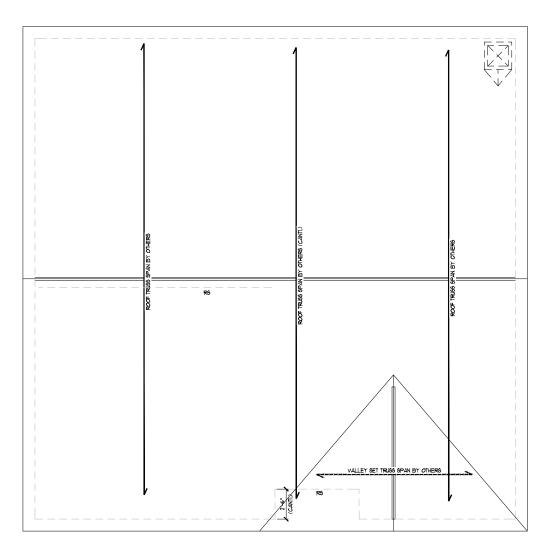
NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION REQUII. WALL SHEATHING AND FASTINESS HAVE BEEN DESIGNED TO RESIST THE WID UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION REQUISS OF THE 2018 NOCE. RETER TO BRACED WALL PLANS FOR SHEATHING AND FASTINER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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED REVISED ON 80/14/10/10. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWITHTE TRANSMERRING, LABORATORY "I TESTINS, P.G. FANY CHANGES ARE MADE TO ANNOT EARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, SWITHIT CANNOT GUARANITE THE APECULATOR THESE STRUCTURAL PLANS HEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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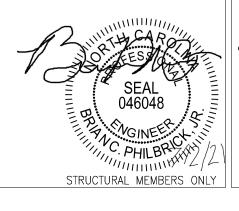
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.



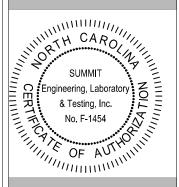








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Smith D 2520 M Apex, 1

DRAWING

DATE: 08/03/2020 SCALE: 1/8"=1'-@"

Plan

Roof Framing

PROJECT *: 383236@R3

DRAWN BY: NAK CHECKED BY: BCP

ORIGINAL INFORMATION

PROJECT * 3832.184

DATE 12/28/2018

S5.0

REG	REQUIRED BRACED WALL PANEL CONNECTIONS							
		MIN.	REQUIRED (CONNECTION				
METHOD	MATERIAL	THICKNESS	# PANEL EDGES	INTERMEDIATESUPPORTS				
CS-WSP	STRUCTURAL PANEL	3/8"	6d COMMON NAILS 6" O.C.	6d COMMON NAILS © 12" O.C.				
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** # 7" O.C.	5d COOLER NAILS** # 7" O.C.				
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS • 12" O.C.				
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1				
	**05	EQUIVALENT	PER TABLE RT0235					

BRACED WALL NOTES:

- L WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602/0
 FROM THE 2009 NORTH CAROLINA RESIDENTIAL CODE.

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

 REFERT TO ARCHITECTURAL PLAN FOR DOORWINDOW OPENING SIZES.

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

 ALL BRACED WALL PANELS SHALL BE RILL WALL HEIGHT AND SHALL
 NOT EXCEED 0F RET FOR ISOLATED PANEL METHOD AND 12 FEET FOR
 CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING
 CALCULATIONS.
- NOT EXCEED ID FIET FOR ISOLATED PANEL INTETHOD AND IS FIET FOR CONTINUOUS SHEATHING RETHOD WITHOUT ADDITIONAL PRISHRERING CALCULATIONS.

 CALCULATIONS.

 (A) MINIMUM PANEL LENGTH SHALL BE PER TABLE R602/0/1.

 1. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHATHED CONTINUOUS! Y WITH MINIMUM IS "BYPSIM BOARD (IND).

 FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHING METHOD, EXTERIOR SHILL AREAS SHEWLEN BRACED WALL PANELS, BODY AND BODY WALL OPENINGS, AND ON GABLE END WALLS.

 FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARNS WALL BELOW WITHOUT ADDITIONAL DISINDERSING CALCULATIONS.

 (B) A BRACED WALL PANEL SHALL BELOCATED WITHIN IS FEET OF EACH END OF A PRACED WALL LINE.

 11. THE MAXIMAT BOOK DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED I FEET.

 12. MASONRY OR CONCRETE SITEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANELS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIPMENT.

 13. BRACED WALL PANEL CONNECTIONS OF THE 200 NORC.

 14. BOSTRICTED IN ACCORDANCE WITH SECTION REQUIPMENT.

 15. BRACED WALL SHALL SHALL BE LOCATED WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIPMENT.

 16. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE RESOLD AS A PRIFECTION REQUIPMENT.

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

THED	ENG = ENGINEERED SOLUTION PF-ENG = ENG. PORTAL FRAME

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD						
	REQUIRED PROVIDED					
BWL 1-1	6.2	19,5				
BWL 1-2	62	16.3				
BWL 1-A	BWL 1-A 62 34,0					
PIII 1.R	62	36.0				

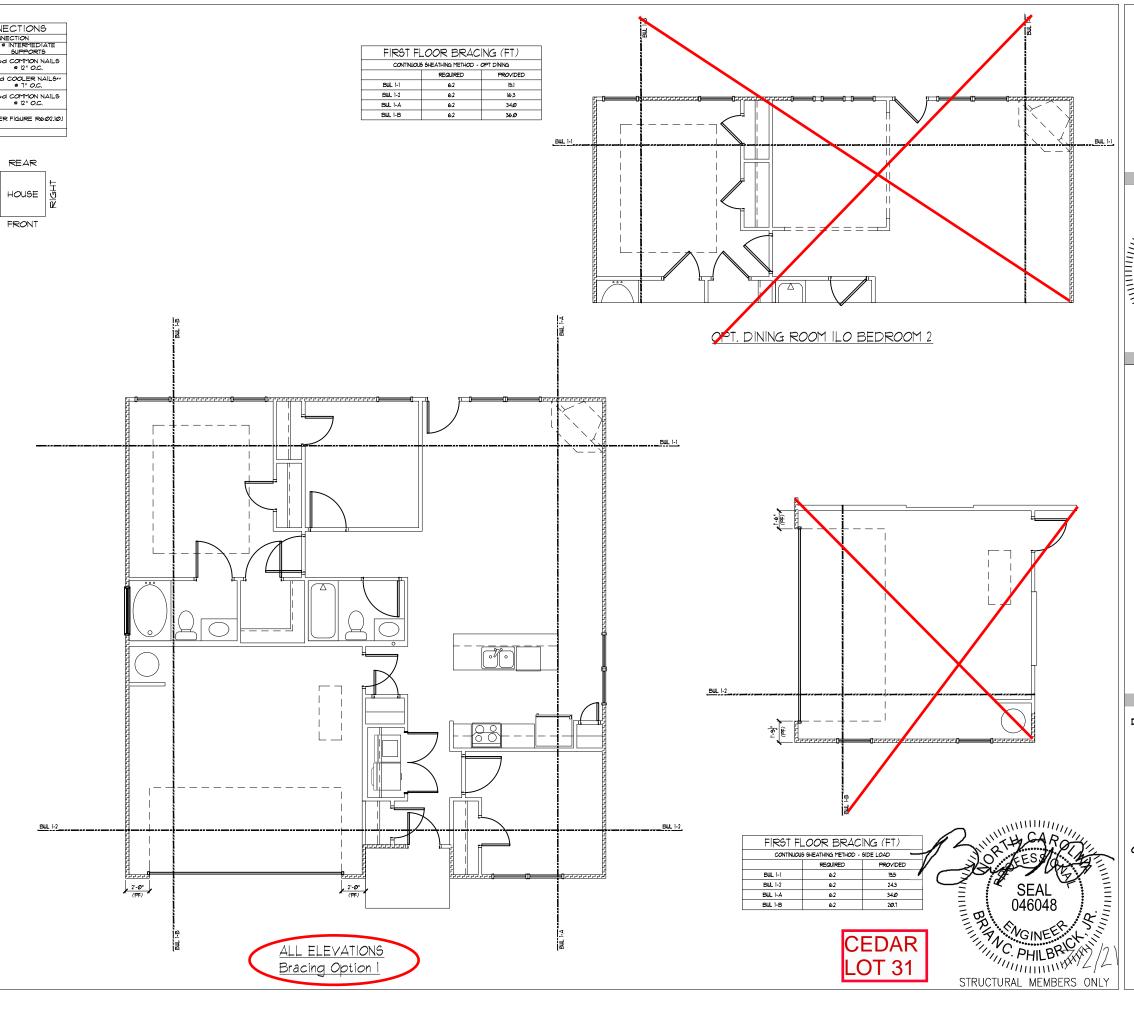
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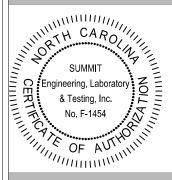
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.





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DRAWING

DATE: 08/03/2020

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

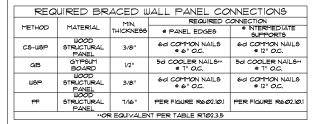
PROJECT *: 383236@R3 DRAWN BY: NAK

CHECKED BY: BCP

ORIGINAL INFORMATION PROJECT *

DATE 3832.184 12/28/2018

S7.0



BRACED WALL NOTES:

- BRACED WALL NOTES

 I. WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R603/0
 FROM THE 2019 NORTH CAROLINA RESIDENTIAL CODE.

 2. WALLS ARE DESIGNED FOR SEISTIC ZONES A-C AND ULTIMATE WIND
 SPEEDS ID TO 180 PINH

 3. REFER TO ARCHITECTURAL PLAN FOR DOORAUNDOW OPENNAS SIZES.

 4. BRACING MATERIALS PHENDOS AND FASTENERS SHALL BE IN
 ACCORDANCE WITH TABLE R802/10.

 5. ALL BRACED WALL PARIS SHALL BE FULL WALL HEIGHT AND SHALL
 NOT EXCEED WE FEET FOR ISOLATED PANEL METHOD AND IZ FEET FOR
 CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING
 CALCULATIONS.

 6. MINNIWIT PANEL LEWSTH SHALL BE FRET TABLE R802/10.

 1. THE NITERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR
 WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINNIMIT 1/2" GYPSWIT
 BOARD (UNO).
- BOARD (UNO), FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDION SHIPLL AREAS BETWEEN BRACED WALL, PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE SHO WALLS.
 FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FONDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL BYANEERING CALCULATIONS.
 A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH BND OF A BRACED WALL INE.
 ITHE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL WAT BYCEPD 21 FEET

- THE MAXIMM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED JIFEET.

 MASONRY OR CONCRETE SIEM WALLS WITH A LENGTH OF 49' OR LEGS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGING 43 OF THE 10'8 NCRC.

 BRACED WALL PANEL CONCECTIONS TO FLOORICELING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGINGAL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGINGAL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGINGALS.

 CRIPPILE WALLS AND WALC OUT BASSETHEN WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGINGALS.

RFAR

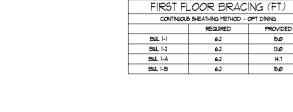
2'-0" J

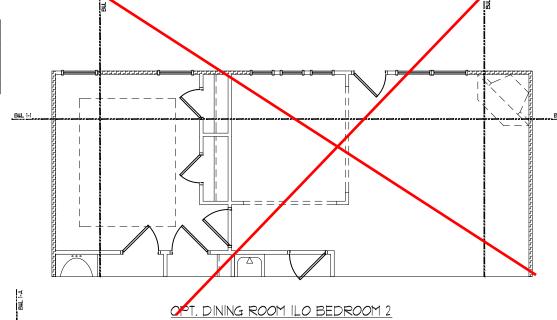
- 16. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE
- R602.101 (UNO)

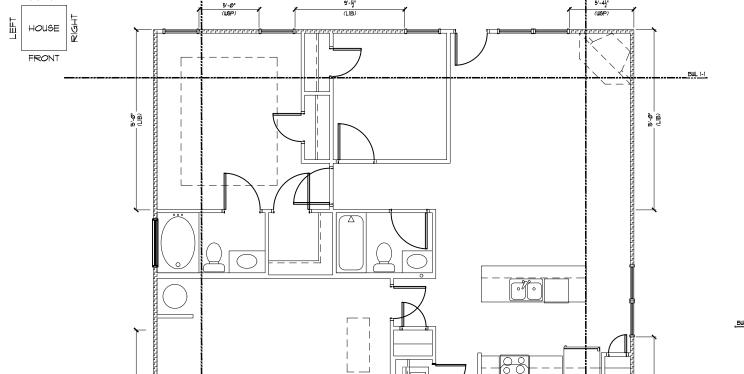
 11. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.

 18. ABBREVIATIONS:

GB = GYP9UM BOARD UBP = WOOD STRUCTURAL PANEL
C5-XXX = CONT. SHEATHED ENG = ENG.NEERED SOLUTION
FF = PORTAL FRAME
FF = ENG. PORTAL FRAME



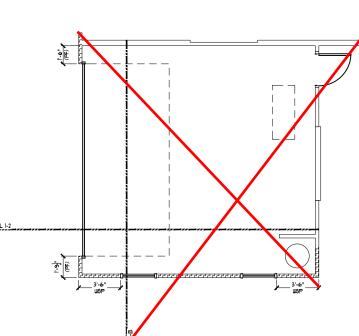




2'-0" (PE)

<u>ALL ELEVATIONS</u>

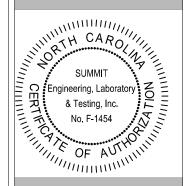
Bracing Option



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	OOR BRAC		P31	CAROL	
	REQUIRED	PROVIDED			
BWL 1-1	62	14.9	30		" =
BWL 1-2	62	14.0	حِ	CEAL CEAL	111111
BILL I-A	62	14.7	= ;	SEAL	=
BWL 1-B	62	12.4	= 10	046048	=
		CEDAF LOT 31	۲ <u>این</u>	NGINEER L	#://2\
				CTUDAL MEMDEDS	ONIV

STRUCTURAL MEMBERS ONLY

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<u>o</u> 0<u>x</u> Douglas Homes . Reliance Ave x, NC 21539 cing Bra Floor Smith D 2520 R First

<u>6</u>

DRAWING

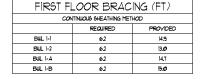
DATE: 08/03/2020 SCALE: 1/8"=1'-@"

PROJECT *: 383236@R3 DRAWN BY: NAK

CHECKED BY: BCP

ORIGINAL INFORMATION PROJECT *

DATE 3832.184 12/28/2018



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

THESE PLANS ARE DESKNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SYMTH DOUGLAS HOWER COMPLETED/REVISED ON 60/4A/02/6. IT IS THE REPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT BY SHEERING, LABORATORY & TESTING, PC. F. ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUIARANTET HE ADEQUACY OF THESE STRUCTURAL PLANS HEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

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

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

INSTALL HOLD-DOWNS PER SECTION R602.10.4 AND FIGURE

GENERAL STRUCTURAL NOTES:

- 1. The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences. methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.
- 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code.
- This structure and all construction shall conform to all applicable sections of the 2018 North Carolina Residential Code (NCRC) and any local codes or restrictions

FOUNDATIONS:

- 1. Foundations shall be constructed in accordance with chapter 4 of the 2018 NC Residential Building Code (Special consideration shall be given to Chapter 45 in wind zones above 130mph)
- 2. Footing sizes based on a presumptive soil bearing capacity of 2000 PSF. Contractor is solely responsible for verifying the suitability of the site soil conditions at the time of construction
- Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCRC
- The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.
- The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
- 6. Any fill shall be placed under the direction or recommendation of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95% maximum dry density.
- 7. Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
- 8. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- 9. Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bearing in the middle third of the piers. Pilasters to be bonded to perimeter foundation wall
- 10. Crawl spaced to be graded level and clear of all debris
- 11. Provide foundation waterproofing and drain with positive slope to outlet as required by site conditions
- 12. Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2018 NCRC

- 1. Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- 2. Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- 3. Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows: 3.1. Footings: 5%
 - 3.2. Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SER
- 5. Concrete slabs—on—grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction".
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions
- 7. Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
- 10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour. Fibermesh may be used in lieu of W.W.F.

CONCRETE REINFORCEMENT:

- 1. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strenath.
- 2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement
- 3. Application of fibermesh per cubic yard of concrete shall egual a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- 4. Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard.
- 5. Steel Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- 6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- 8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- 9. Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

WOOD FRAMING:

- 1. Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Spruce-Pine-Fir (SPF) #2.
- 2. LVL or PSL engineered wood shall have the following minimum design values:
 - 2.1. E = 1.900.000 psi
 - 2.2. Fb = 2600 psi
 - 2.3. Fy = 285 psi
- 2.4. Fc = 700 psi3. Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15.

accordance with AWPA standard C-2

- All other moisture exposed wood shall be treated in 4. Nails shall be common wire nails unless otherwise noted.
- 5. Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- 6. All beams shall have full bearing on supporting framing members unless otherwise noted.
- 7. Exterior and load bearing stud walls are to be 2x4 SPF#2 @16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall he continuous
- 8. Individual studs forming a column shall be attached with one 10d nail @6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be fully blocked at all floor levels to ensure proper load transfer
- 9. Multi-ply beams shall have each ply attached wth (3)10d nails @ 24" O.C.
- 10. Flitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered @24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, unless noted otherwise.

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

WOOD STRUCTURAL PANELS:

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

STRUCTURAL FIBERBOARD PANELS:

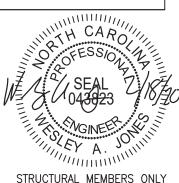
- 1. Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards
- 2. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in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

EXTERIOR WOOD FRAMED DECKS:

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

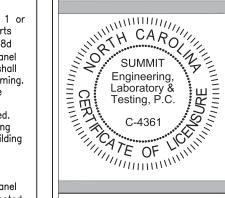
STRUCTURAL STEEL:

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





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

CURRENT DRAWING

Details

Standard

DATE: 2/18/20

SCALE: NTS PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAI

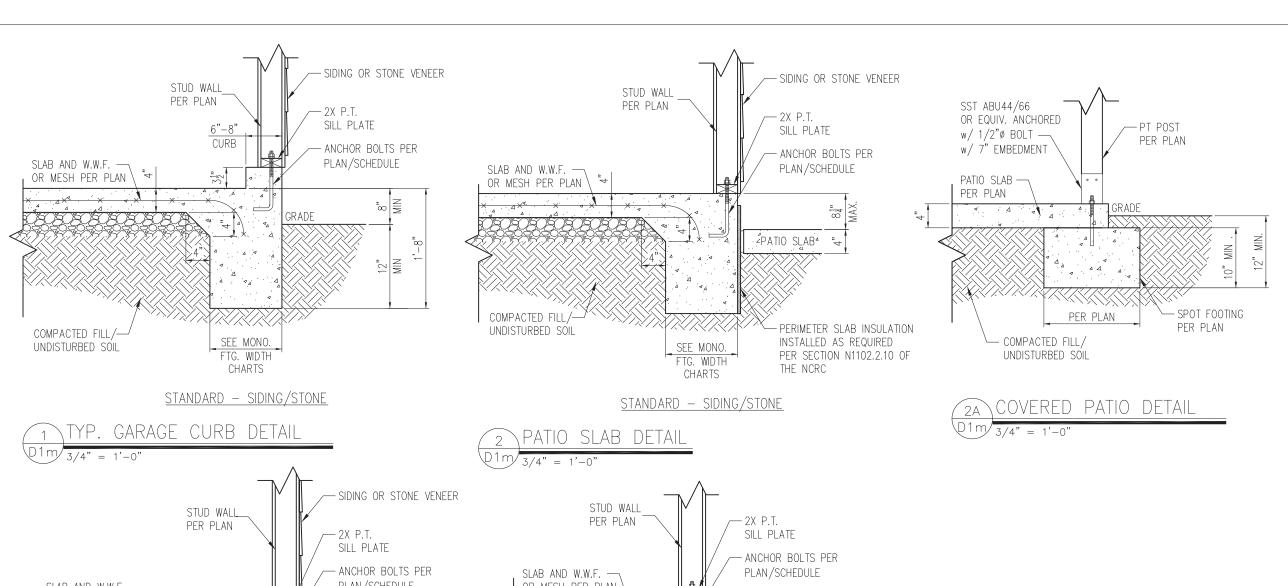
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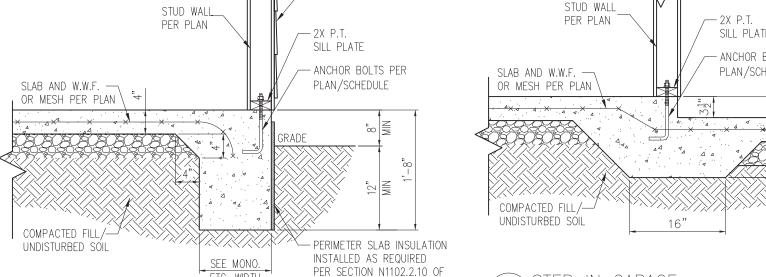
DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

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

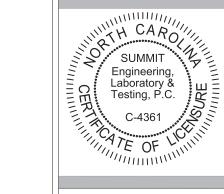
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY				
	1500 PSF 2000 PSF 2500 PSF				
1 STORY - STD.	16"	16"	16"		
1 STORY - BRICK VENEER	21"*	21"*	21"*		
2 STORY - STD.	20"	16"	16"		
2 STORY - BRICK VENEER	25"*	21"*	21"*		
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC					

FOOTING WIDTH FOR BRICK SUPPORT





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

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1ECT # · 3832

DRAWN BY: LBV

CHECKED BY: WAJ

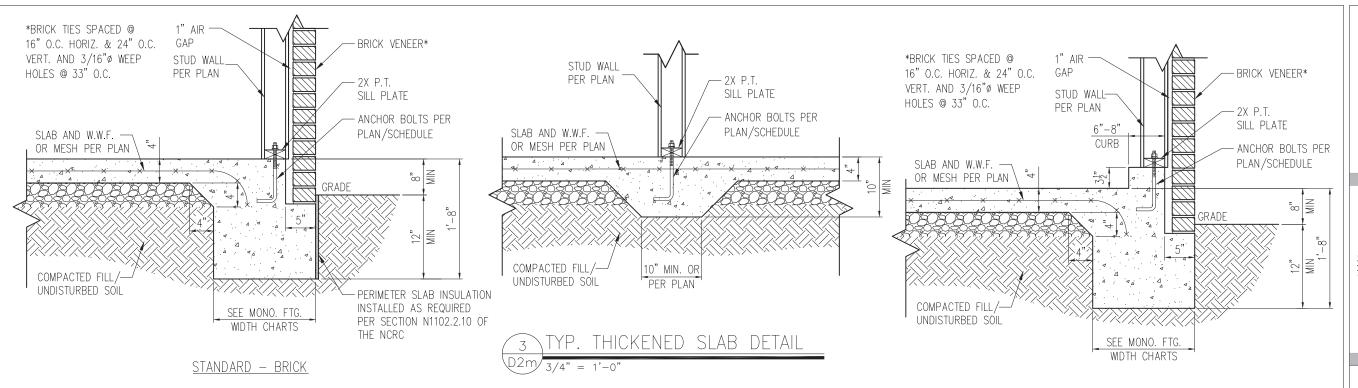
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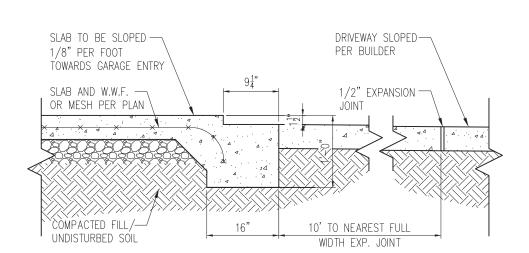
DATE PROJECT # 1/7/16

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

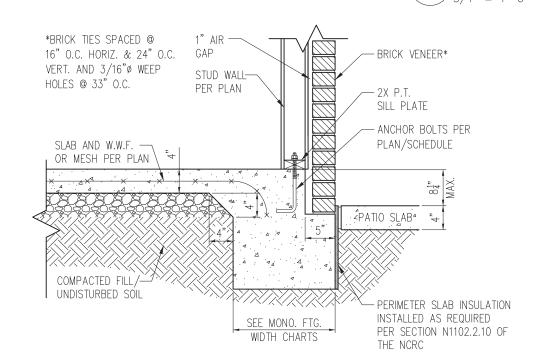
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YP. SLAB DETAIL W/ BRICK VENEER



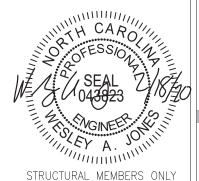


STANDARD - BRICK

PATIO SLAB DETAIL W/BRICK VENEER

NOTES

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



STANDARD - BRICK

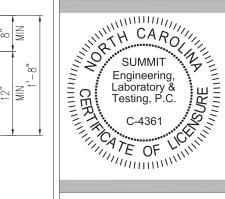
TYP. GARAGE CURB DETAIL

W/ BRICK VENEER

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SUITE 171, RALEIGH, NC 27603
OFFICE: 919.380.9991

FAX: 919.380.9993

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

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

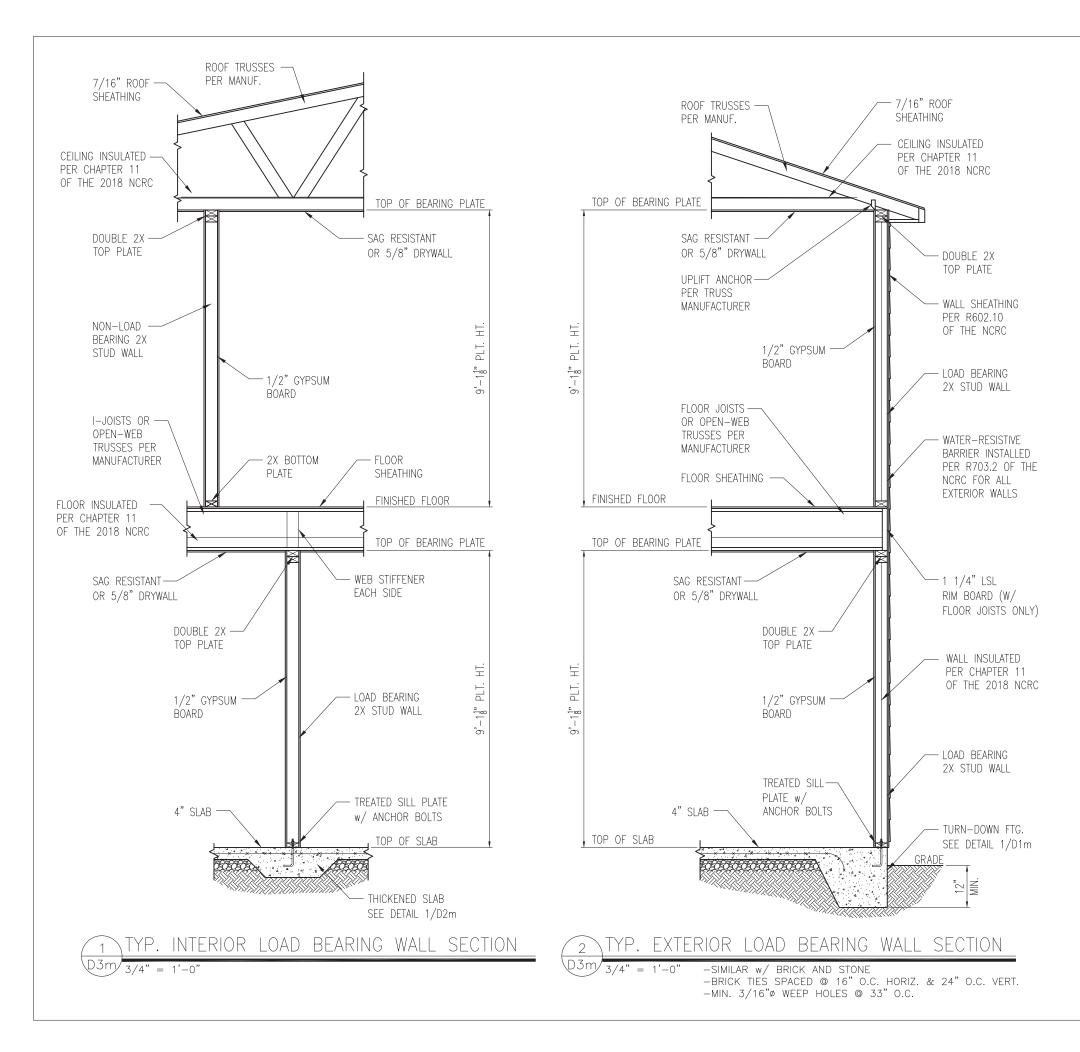
ORIGINAL DRAWING

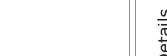
NO. DATE PROJECT # 0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D₂m





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

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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

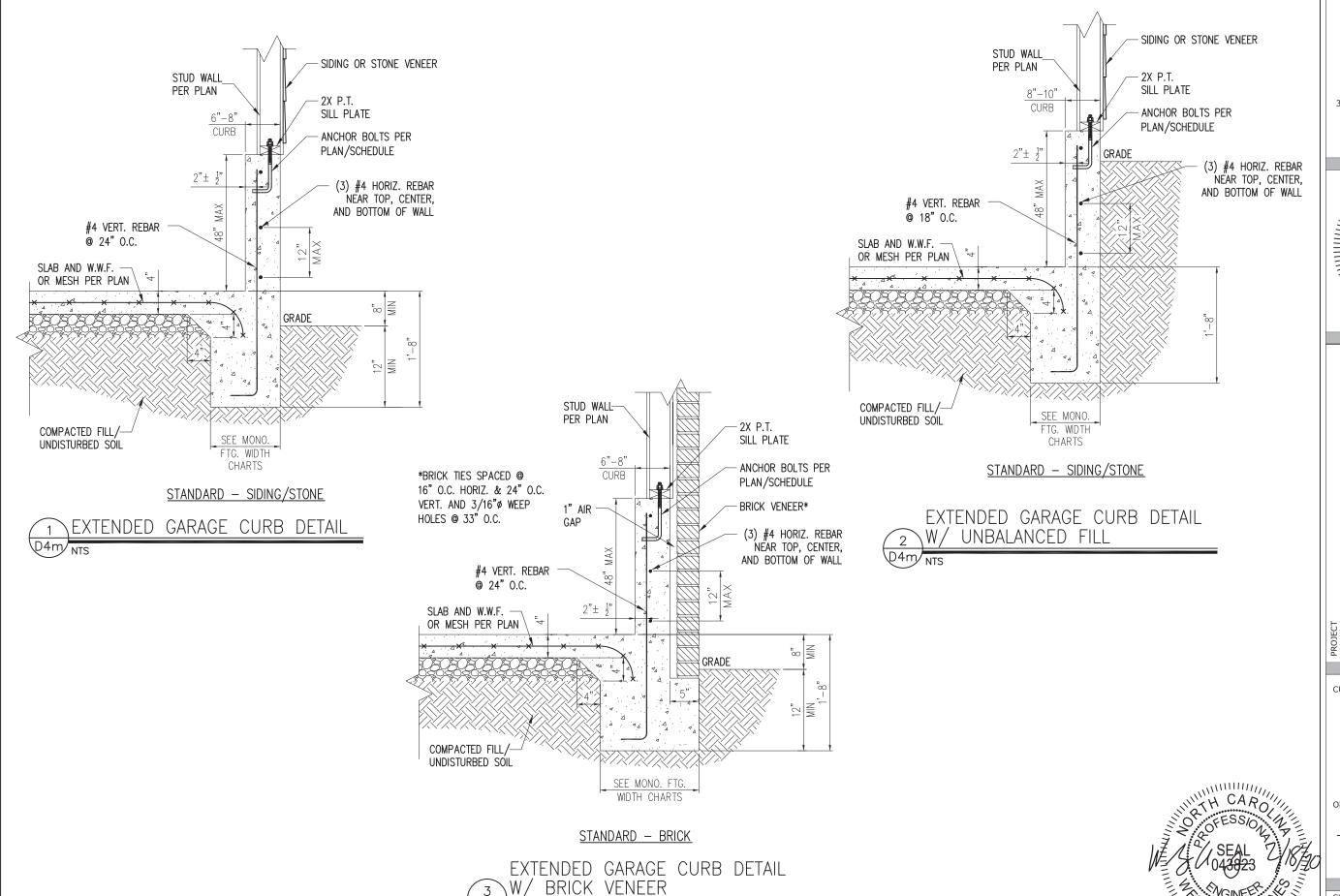
D₃m

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

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

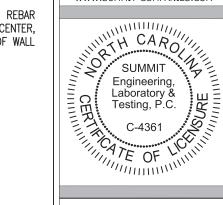




D4m/NTS



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Standard Details

Monolithic Slab Details

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

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

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

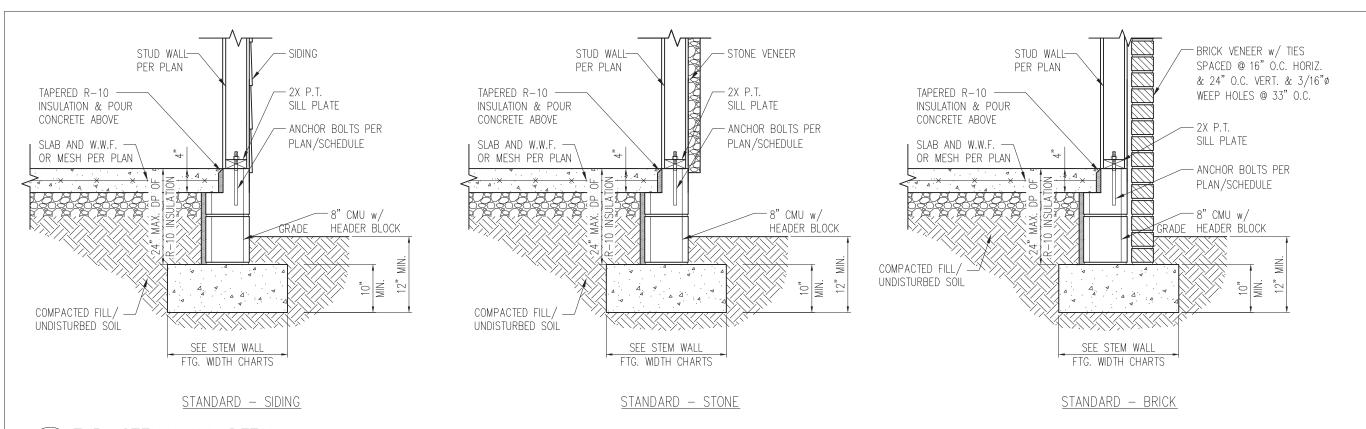
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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THEY A. JOHN

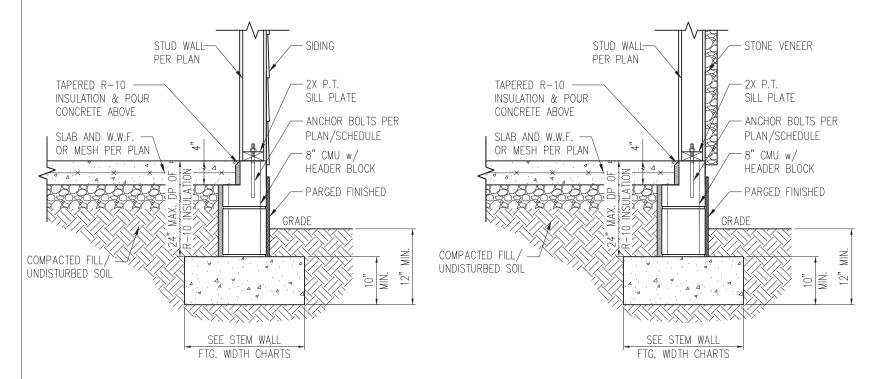
STRUCTURAL MEMBERS ONLY

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

01211 111122 1 0 0 11110 1112					
# 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 S	UPPORT				

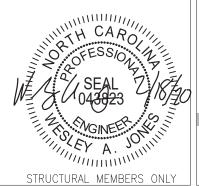
WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERIOR	EXTERIOR
	EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø A307 BOLTS w/	7"	6'-0"	YES	YES
STD. 90° BEND				
SST - MAS	4"	5'-0"	NO	YES
HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2"ø HILTI THREADED ROD	7"	6'-0"	YES	YES
w/ HIT HY150 ADHESIVE				

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

NOTES

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

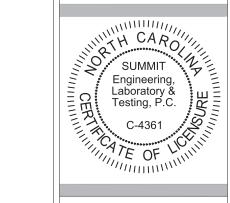


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Standard Details
Stemwall Details
Smith Douglas Homes
110 Village Trail, Suite 21!
Woodstock, GA 30188

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

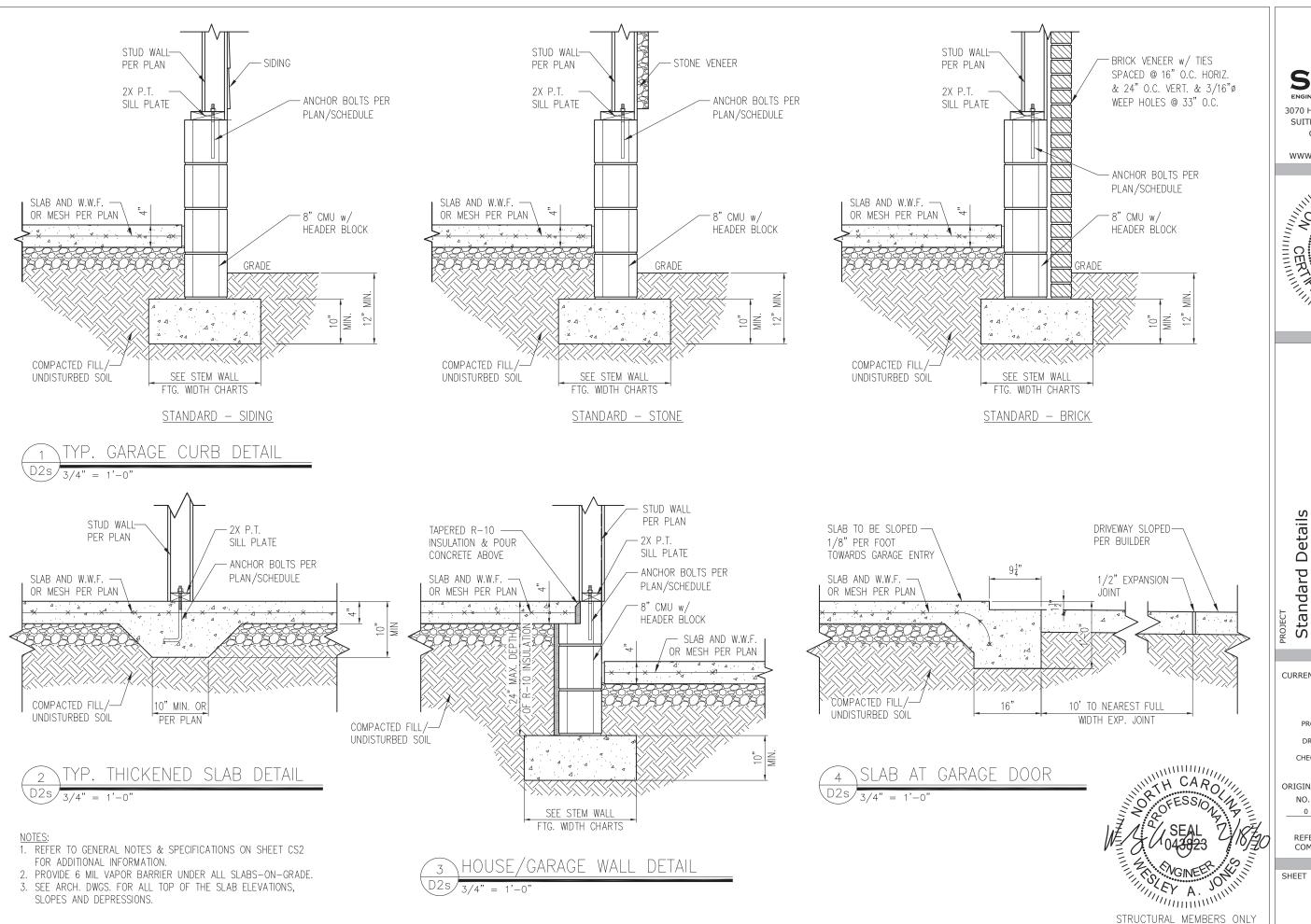
ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

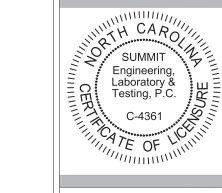
SHEET

D1s





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

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PRO1ECT # · 3832

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CHECKED BY: WAJ

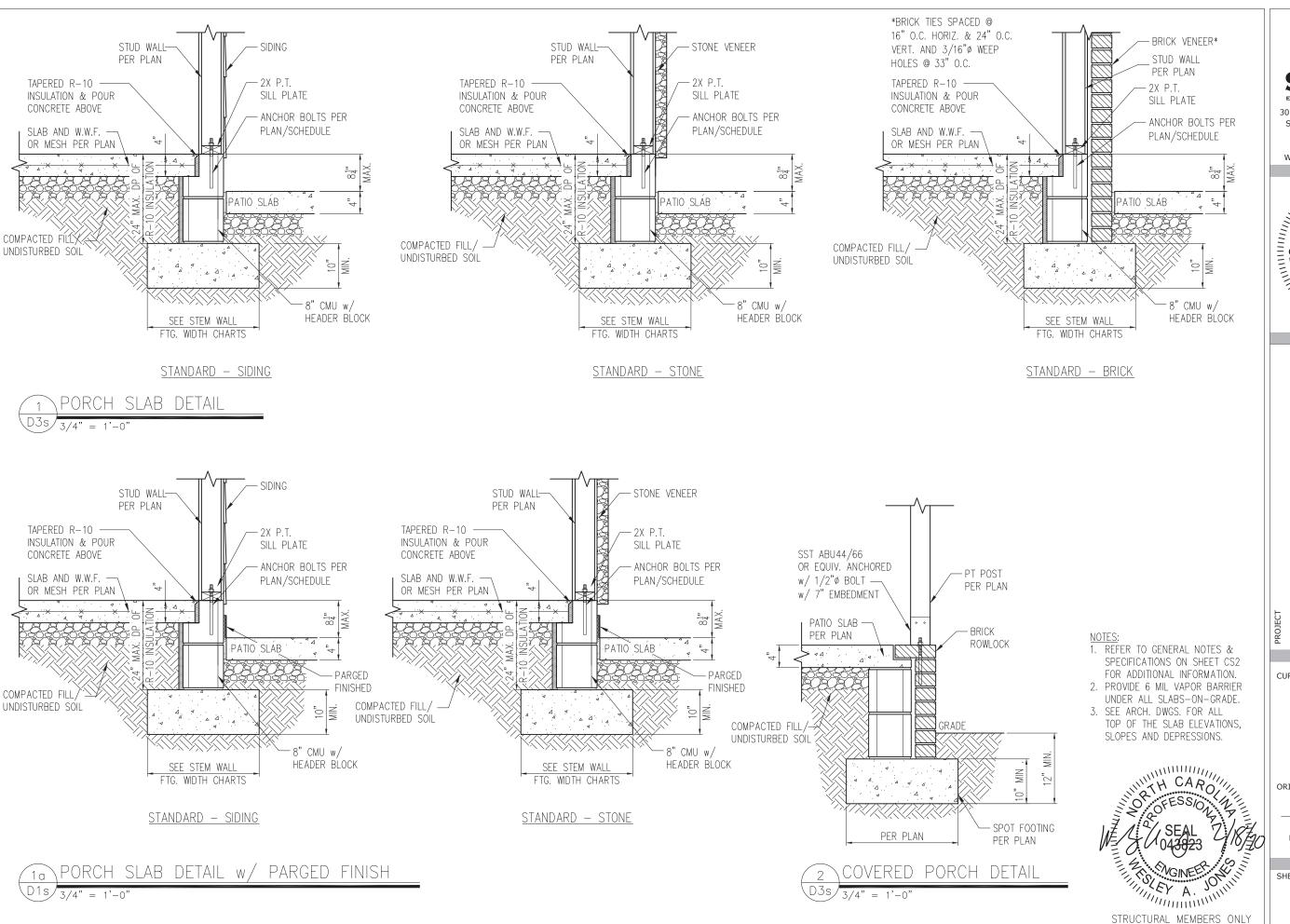
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DATE PROJECT # 1/7/16 3832

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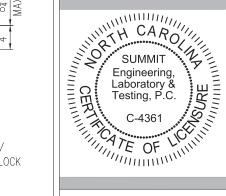
SHEET

D2s





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2

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PRO1FCT #: 3832

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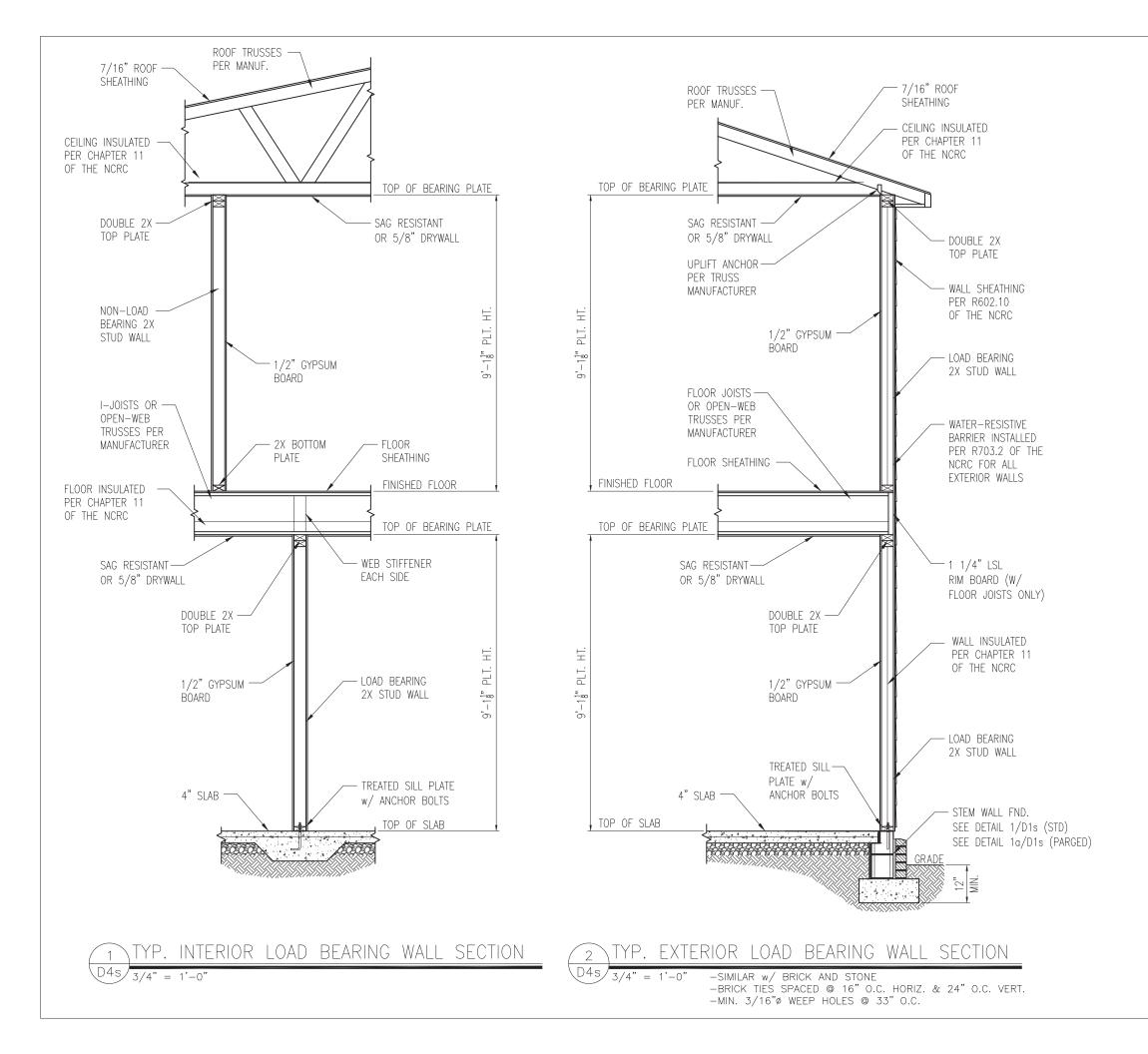
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DATE PROJECT # 1/7/16

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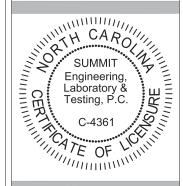
SHEET

D3s





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PRO1FCT #: 3832

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DATE PROJECT # 1/7/16 3832

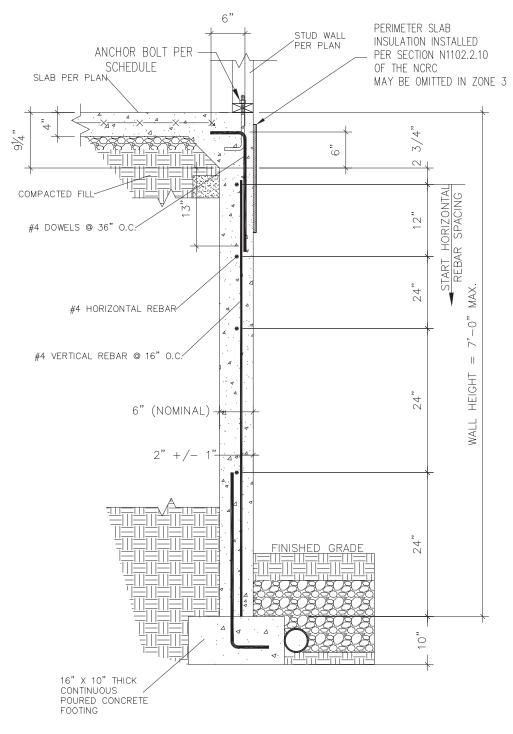
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

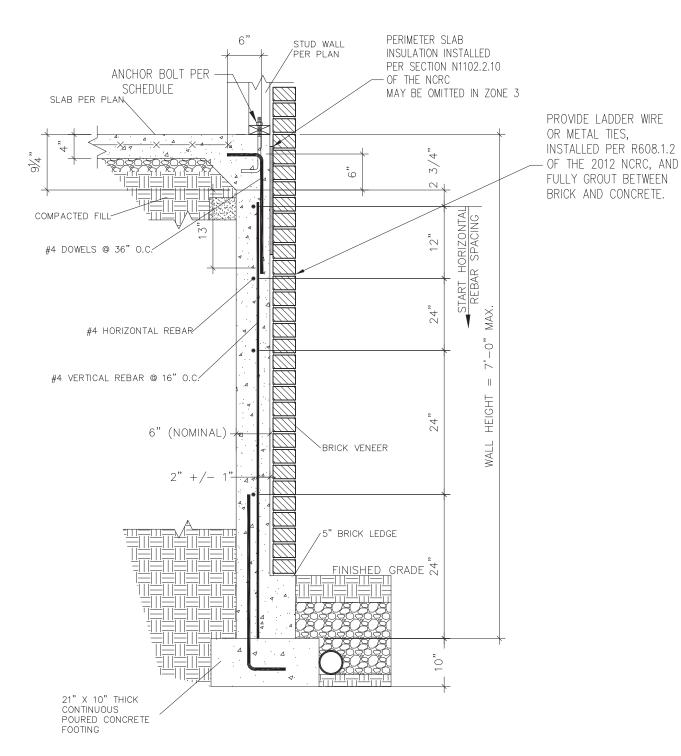
D4s

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









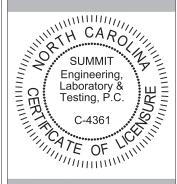
SUBWALL FOUNDATION W/ BRICK VENEER

3/4" = 1'-0"





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21

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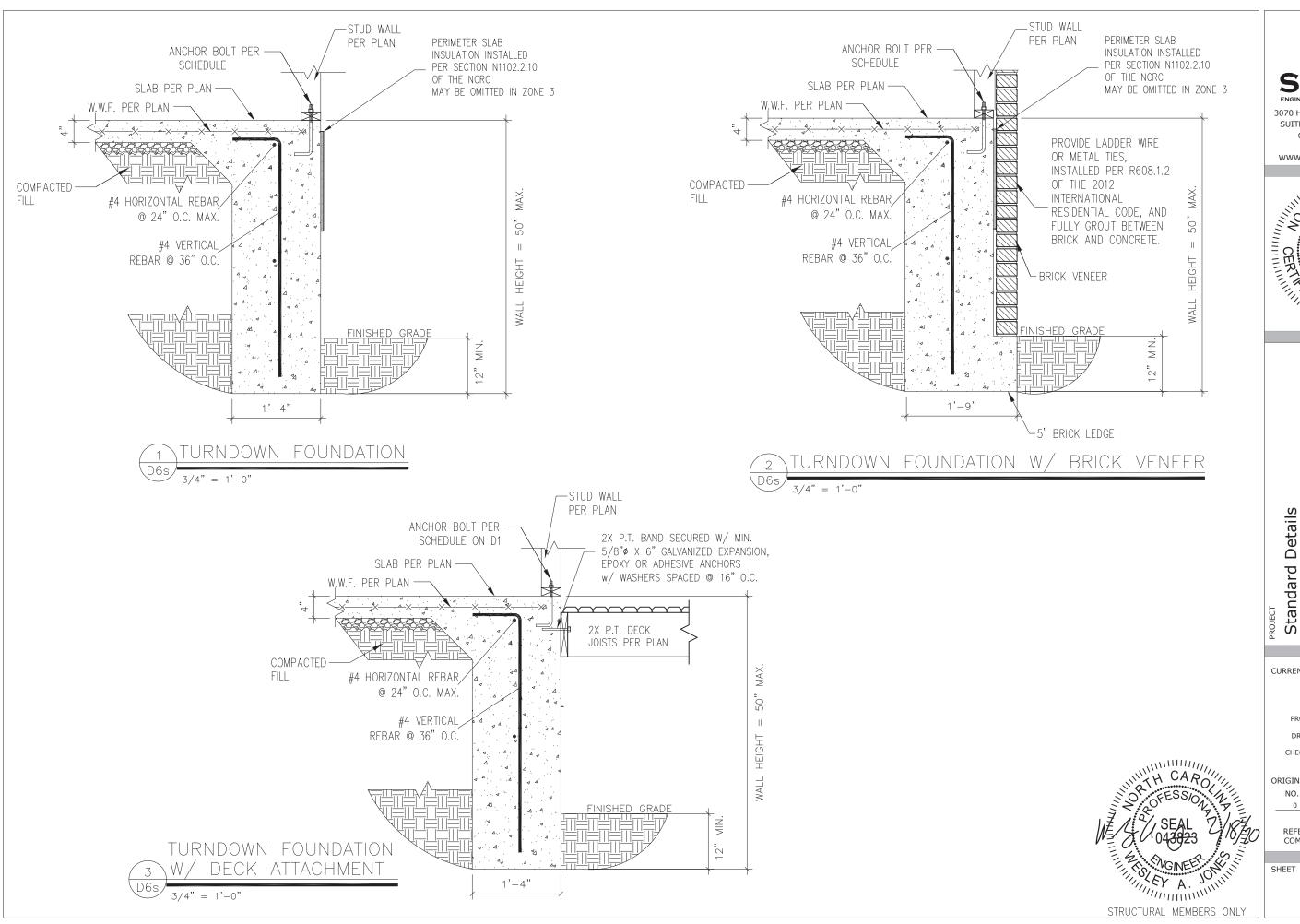
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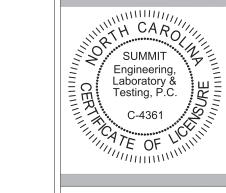
SHEET

D5s





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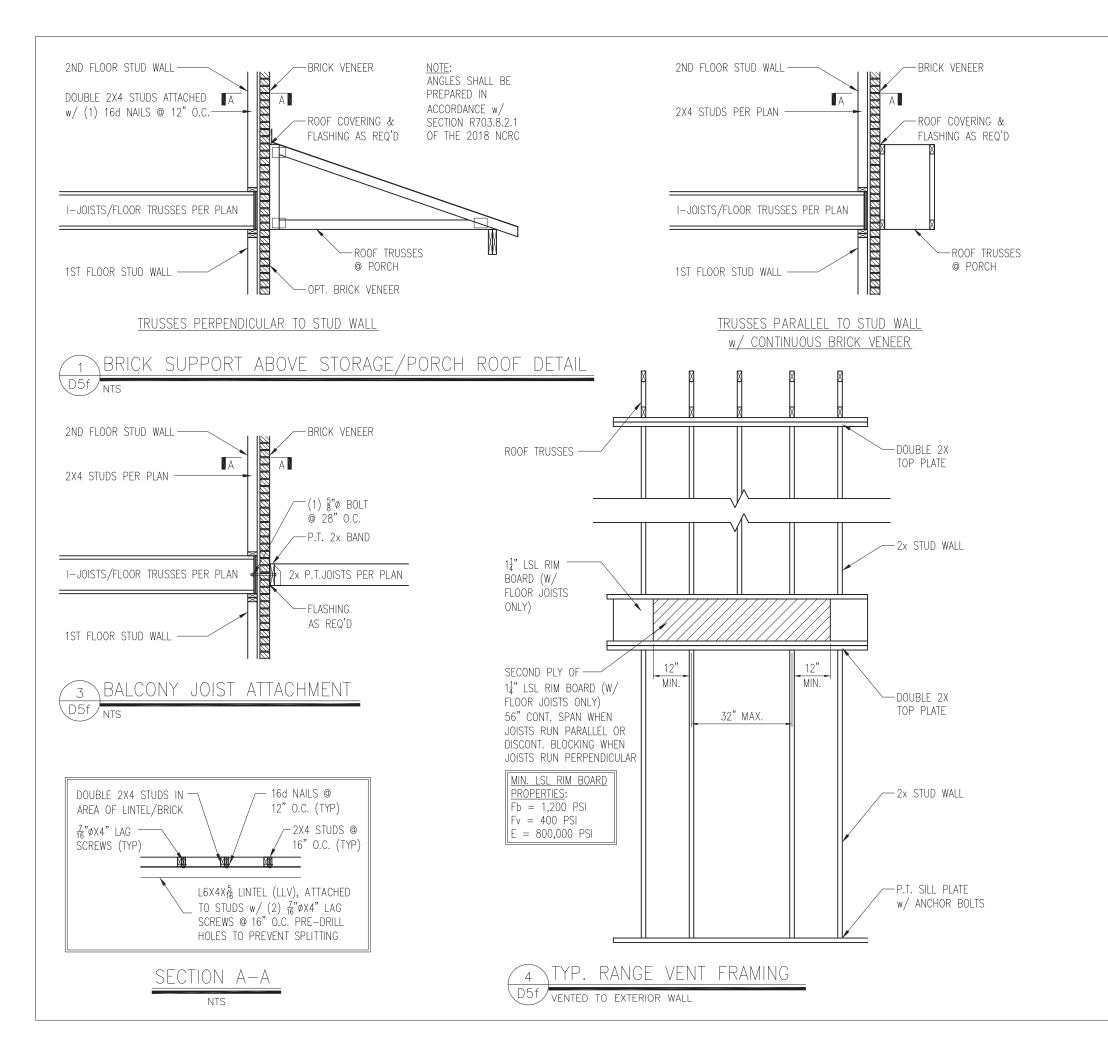
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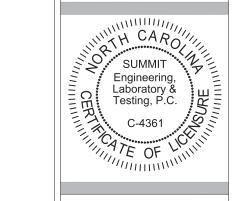
SHEET

D6s





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2

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ORIGINAL DRAWING

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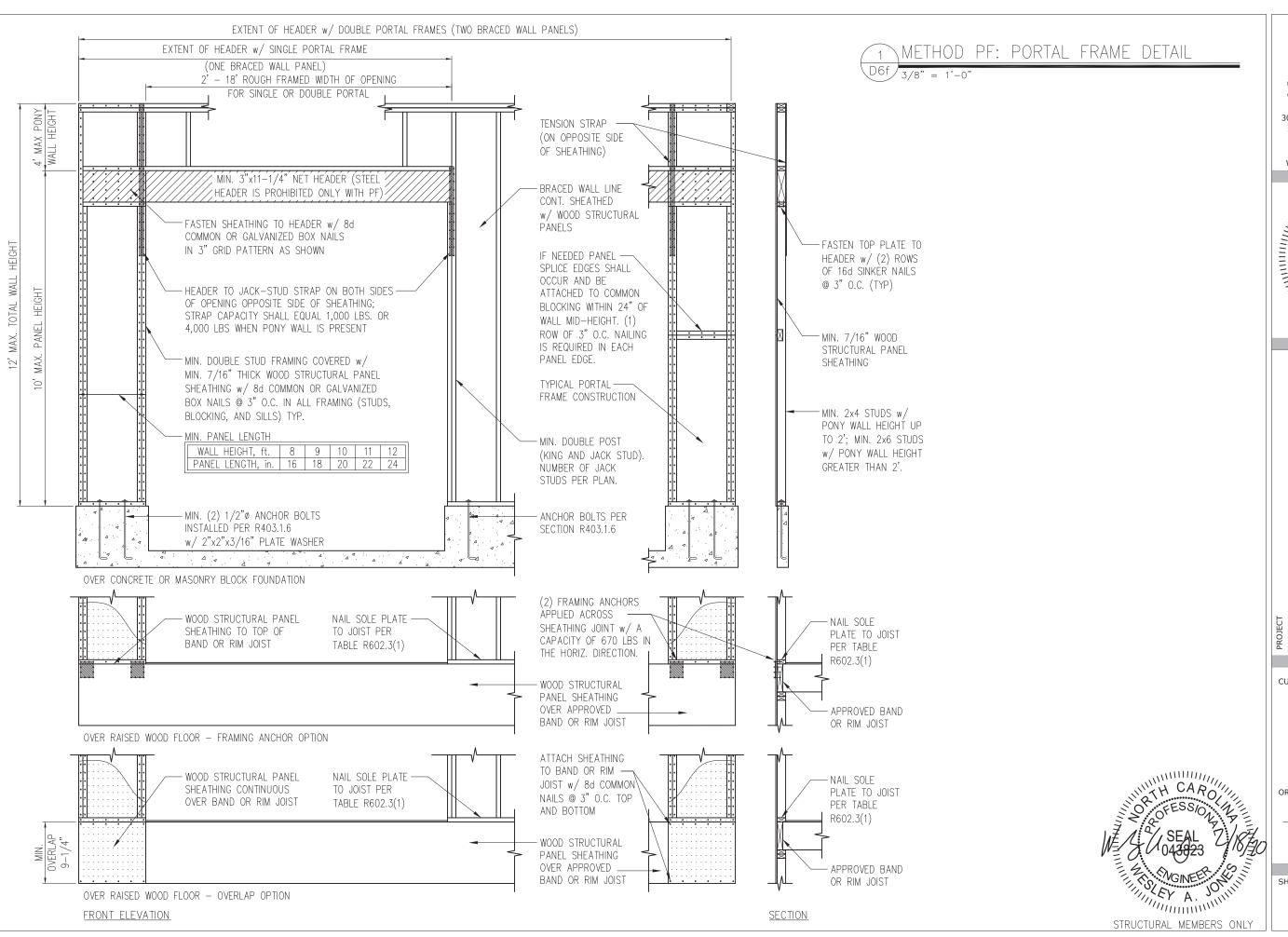
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

THEY A. JOHN

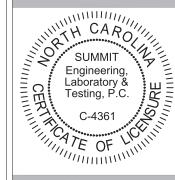
STRUCTURAL MEMBERS ONLY

D5f





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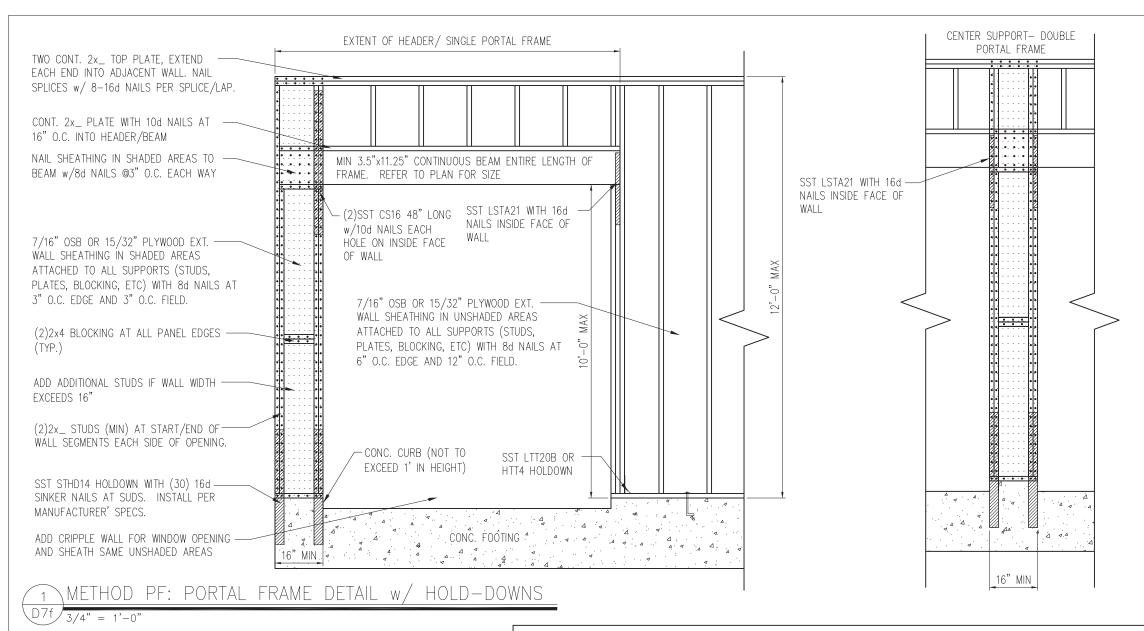
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SHEET

D6f



ELEVATION VIEW

MULTI-PLY BEAM CONNECTION DETAIL

MINIMUM FASTE	NING	31/2" WIDE	51/4" WIDE		7" WIDE		
REQUIREMENTS TOP- AND SIDE- MEMBERS	OIL						
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.
- ${\bf 3. Three \ general \ rules \ for \ staggering \ or \ offsetting \ for \ a \ certain \ fastener \ schedule:}$
- if staggering or offsetting is not referenced, then none is required;
 if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener

clearances above; and

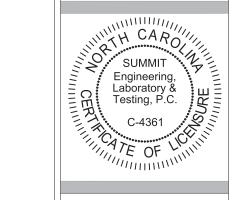
(3) if "ES" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).



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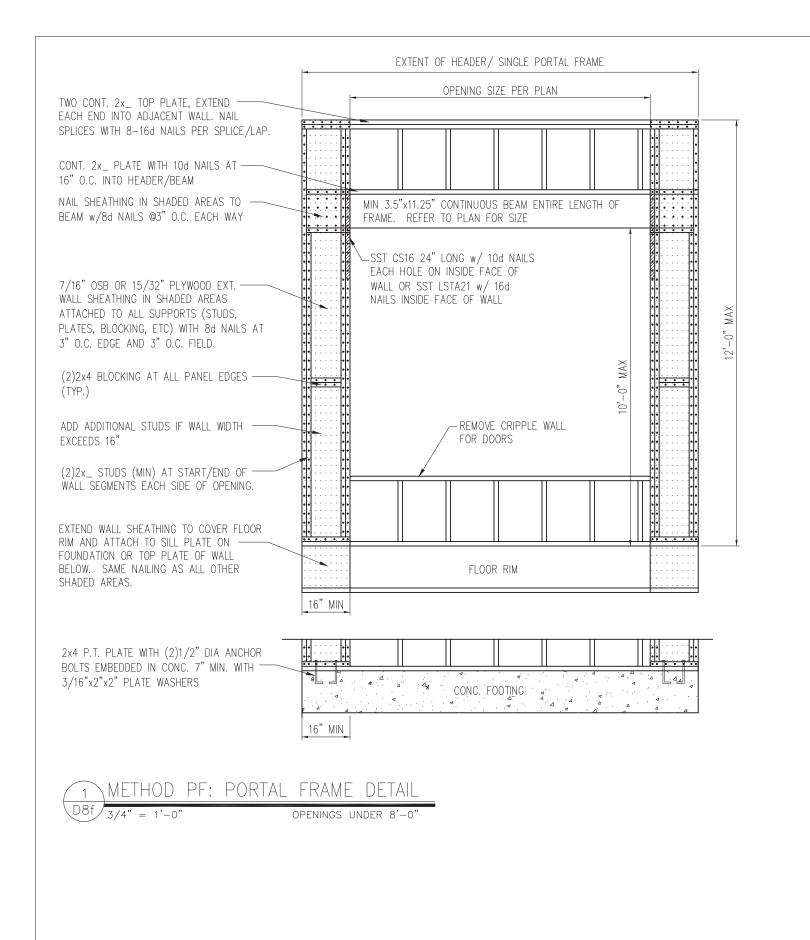
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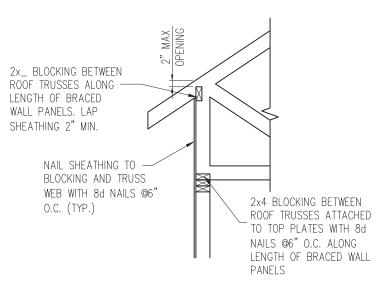
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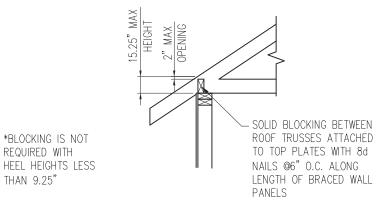
SHEET

D7f





HEEL HEIGHT GREATER THAN 15.25"

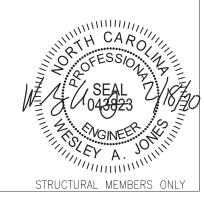


HEEL HEIGHT LESS THAN 15.25" *

YP. WALL PANEL TO ROOF TRUSS CONNECTION

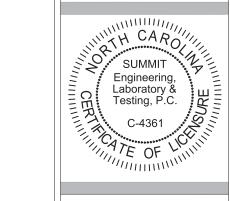
REQUIRED WITH

THAN 9.25"





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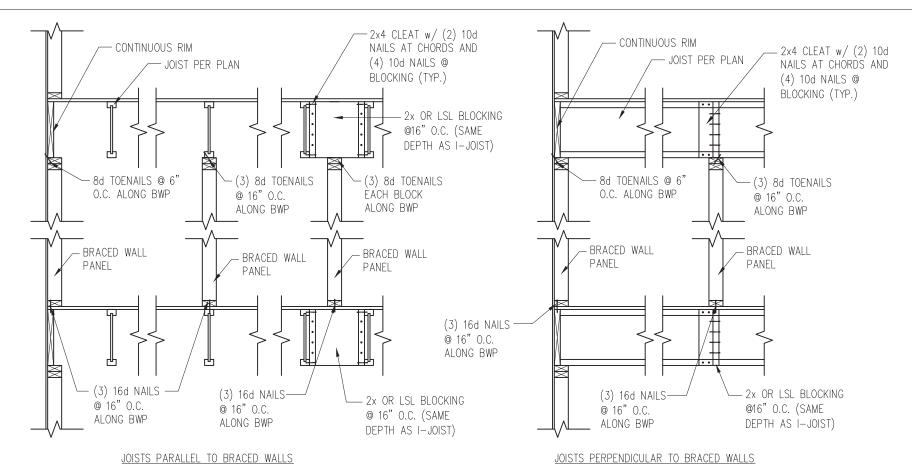
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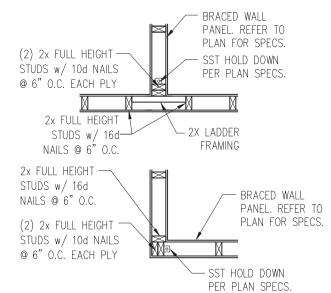
DATE PROJECT # 1/7/16 3832

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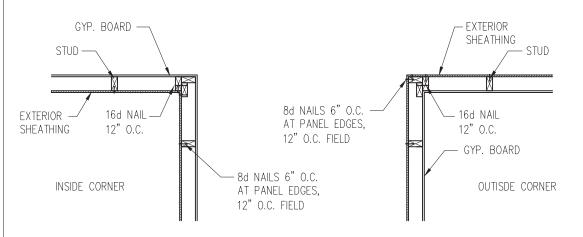
D8f

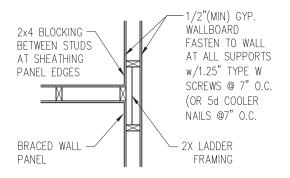




TYP. HOLD DOWN DETAIL
D9f

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





2 TYP. EXTERIOR CORNER FRAMING

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





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C-4361

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D9f

