

# VININGS

CANE MILL ESTATES  
LOT 5



PLAN ID: 022020

**110 VILLAGE TRAIL SUITE 215  
WOODSTOCK, GA. 30188**

## DRAWING INDEX

A0.0	COVER SHEET
A1.1	FRONT ELEVATIONS
A2.1	SIDE & REAR ELEVATIONS
A3.1	SLAB FOUNDATIONS
A5.1	FIRST FLOOR PLANS & OPTIONS
A6.1	ROOF PLANS
A7.2	ELECTRICAL PLANS
A8.1	TRIM LOCATION LAYOUT

AREA TABULATION	
FIRST FLOOR	1819
TOTAL	1819
GARAGE	411
FRONT PORCH (COVERED)	144
REAR PATIO (COVERED)	120

## PLAN REVISIONS

DATE	BY	REVISION	PAGE #
9/24/2018	MM	Added optional unfinished storage and finished Bonus Room. Removed wood burning F.P.	ALL
1/10/2019	MM	Added optional unfinished basement	A4.1
1/18/2019	AW	Prototype walk revisions - see revision sheet for changes	A3.1, A5.1, A7.2
3/27/2019	MM	Added callout for detail 3/D5.1 for A massing	A1.1-A1.9.1
8/2/2019	AW	PCR # 3105 Removed column at Foyer/Dining	A5.1, A5.1.1, A5.1.2, A7.2, A8.1
10/11/2019	AW	PCR #3301 Relocated door for optional 2nd flr to the top of the stairs (see revision sht.)	A5.1.1, A5.3, A5.4.1, A7.2, A7.3
12/18/2019	AW	PCR #3464 Remove outlet on knee wall behind kitchen sink and reduce overhang at end of peninsula to 6" per code	A5.1-A5.1.2, A7.2
2/19/2020	AW	PCR #3621 Remove hdr. between Dining & Lndry Hall and reduce length of wall next to refrig. 12"	A5.1-A5.1.2, A7.2, A8.1
2/20/2020	AW	Added new Obath configuration to allow for separate tub and shower and created basement plan only Obath options	A3.1, A3.1.1, A5.1-A5.1.2, A7.2, A8.1
11/1/2020	MM	PCR #4201 Relocated pendant lights	A7.2
5/1/2021	MM	Removed unfinished 2nd flr option	A5.3, A7.3

## GOVERNMENTAL CODES & STANDARDS

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

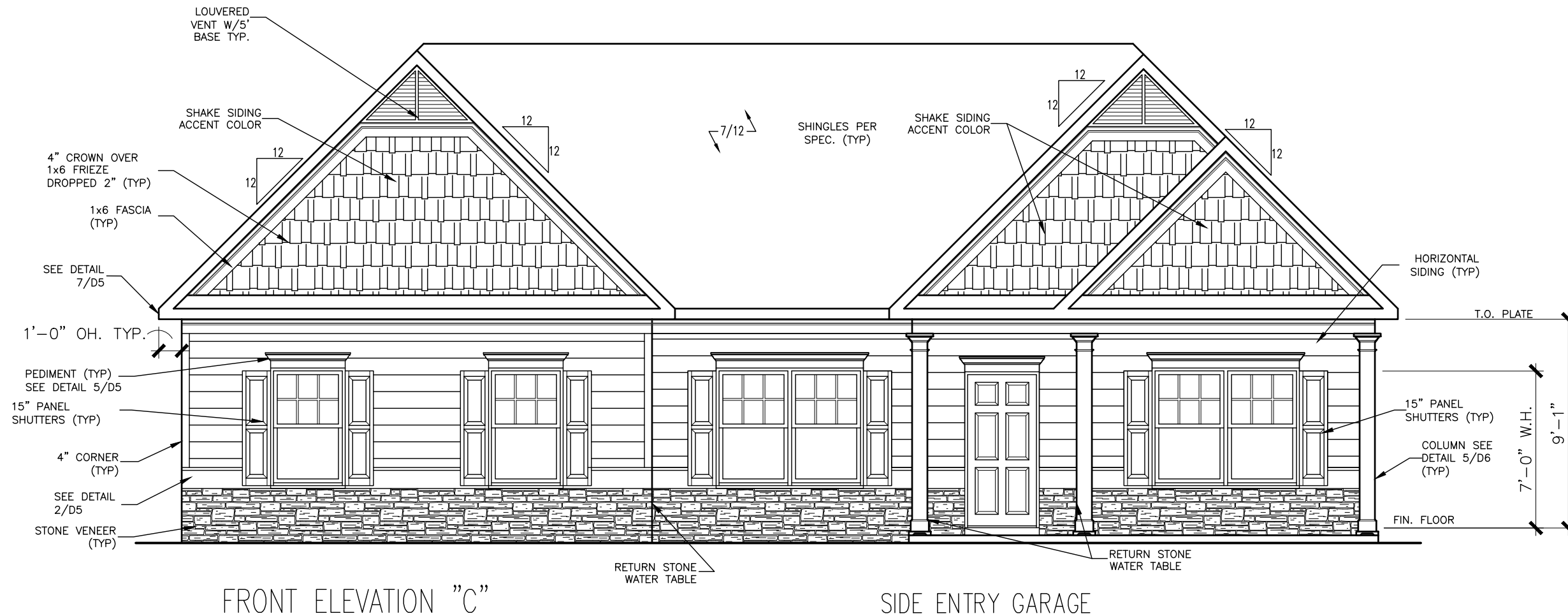
## BUILDING CODE ANALYSIS / DESIGN CRITERIA

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

# CANE MILL ESTATES LOT 5

ALL NON-MASONRY RETURNS TO  
BE HORIZONTAL SIDING

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



FRONT ELEVATION "C"

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

SIDE ENTRY GARAGE

BY	#	#	#	#	#
REVISION					
DATE					



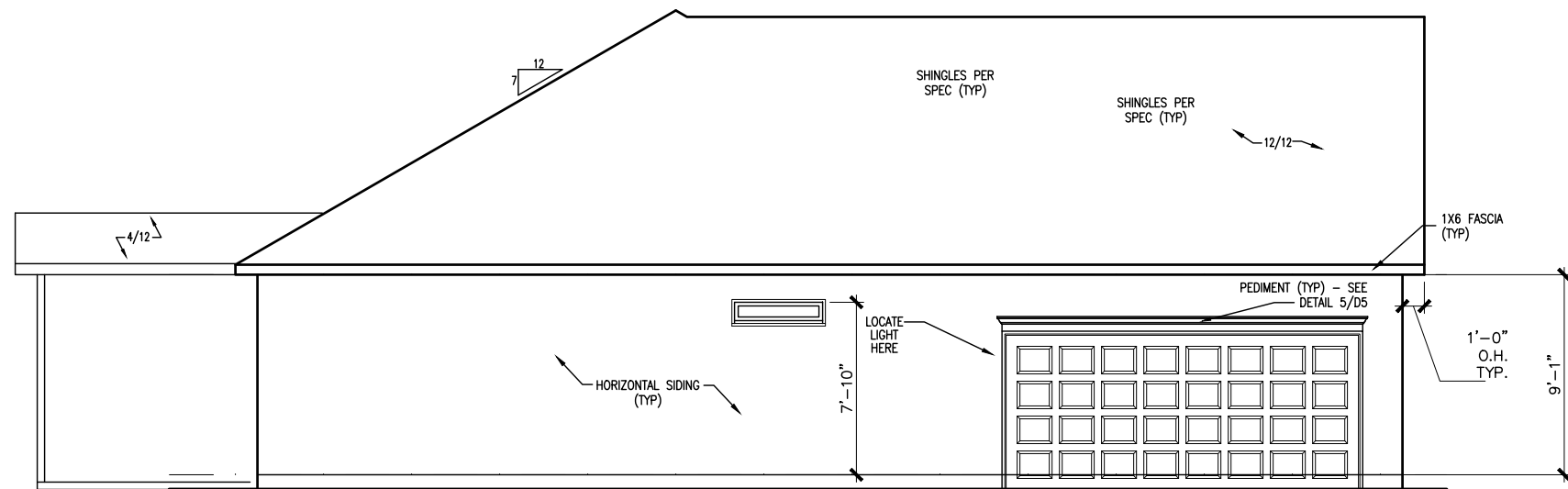
ELEVATIONS  
FRONT ELEVATION  
VININGS

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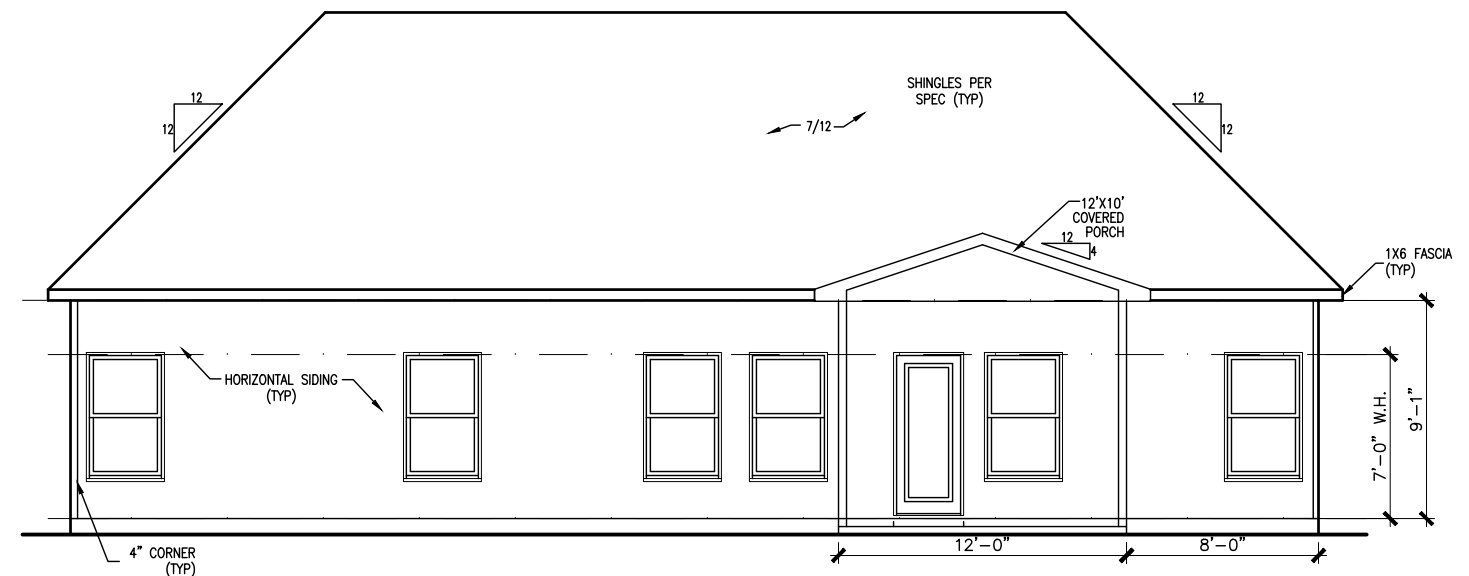
BY: SL	CHK: AW
DATE: 8/20/2021	
FACADE OPT: C	
PLAN ID:	
FND: ALL	ELEV: C
PAGE NO: A1.1	

# CANE MILL ESTATES LOT 5



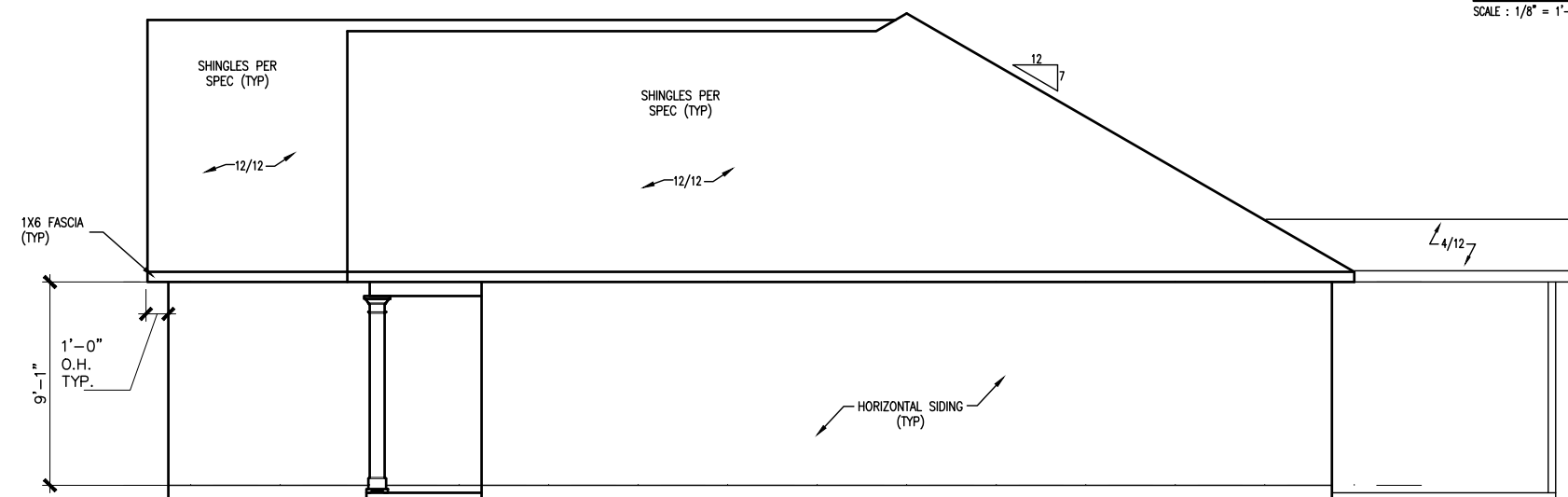
LEFT ELEVATION "C"

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



REAR ELEVATION "C"

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



RIGHT ELEVATION "C"

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

BY	#	REVISION	DATE



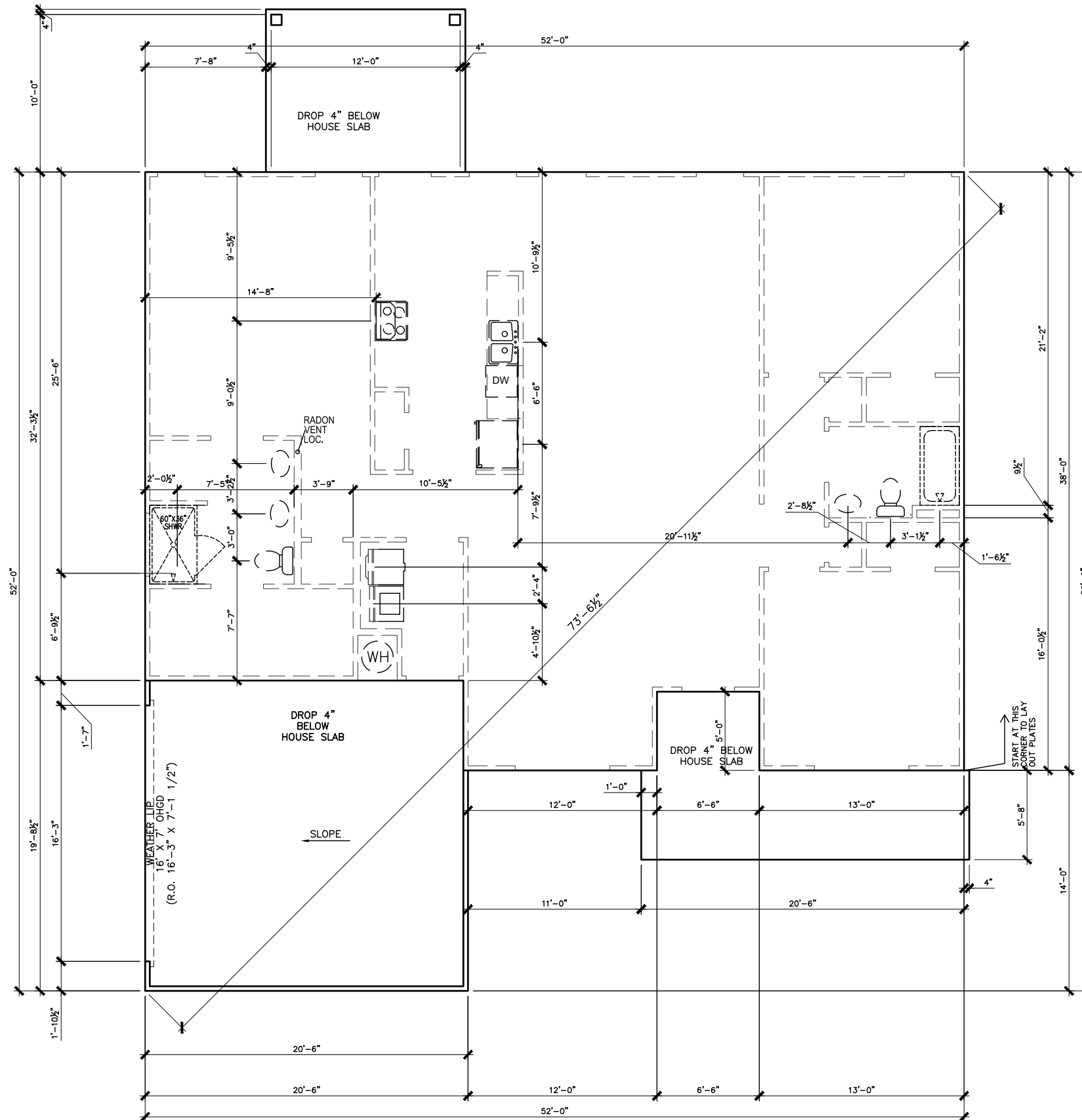
ELEVATIONS  
SIDES & REAR  
VININGS

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FACADE OPT: C	
PLAN ID:	
FND: ALL	ELEV: C
PAGE NO: A2.1	

# CANE MILL ESTATES LOT 5



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

SLAB PLAN

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

DATE	REVISION	BY	#



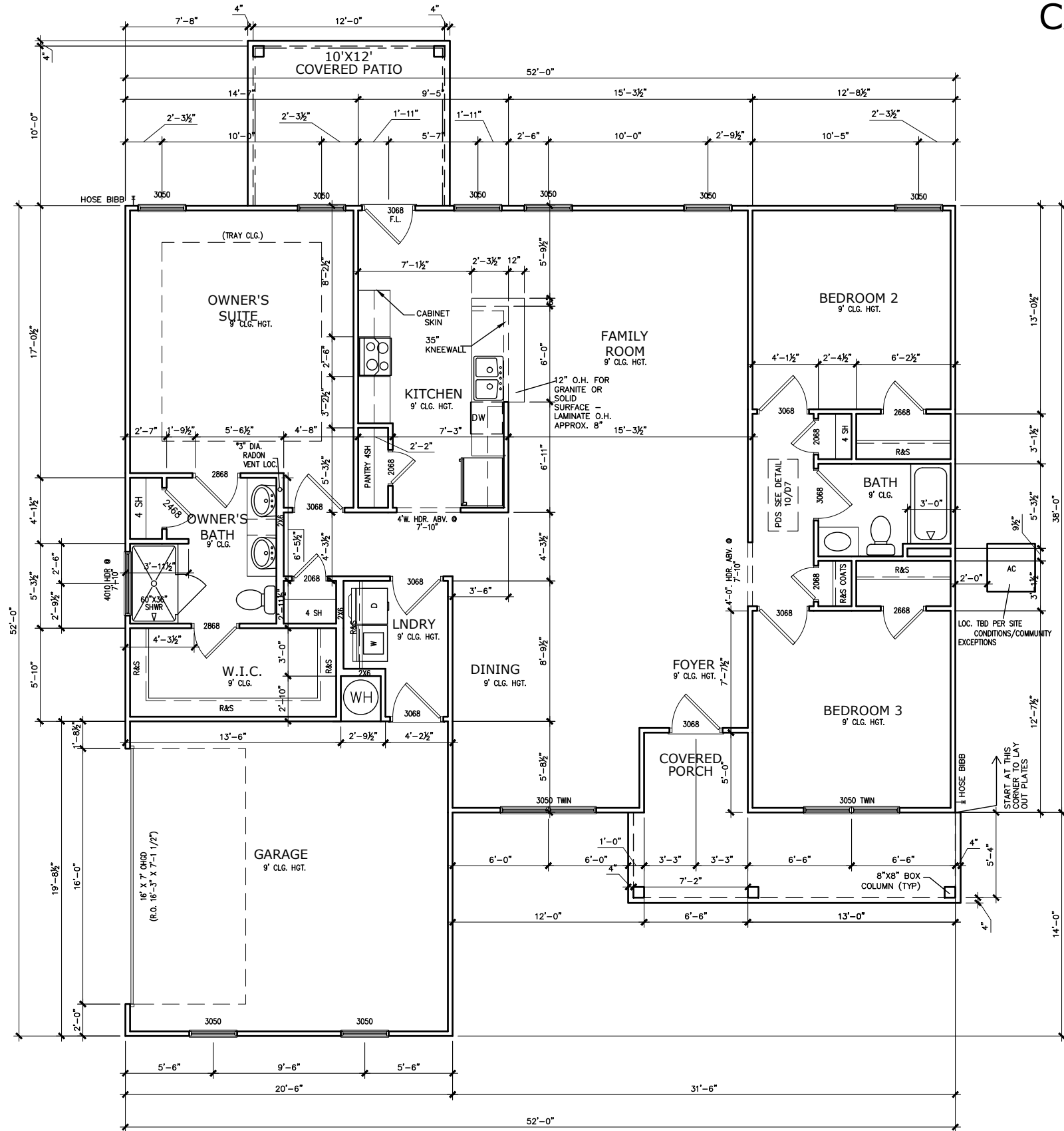
FOUNDATION PLAN  
SLAB PLAN  
VININGS

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FACADE OPT: C	
PLAN ID:	
FND: S	ELEV: C
PAGE NO: A3.1	

# CANE MILL ESTATES LOT 5



FIRST FLOOR PLAN

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

\*RADON VENT PROVIDED  
PER LOCAL CODE

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

BY	#	REVISION	DATE



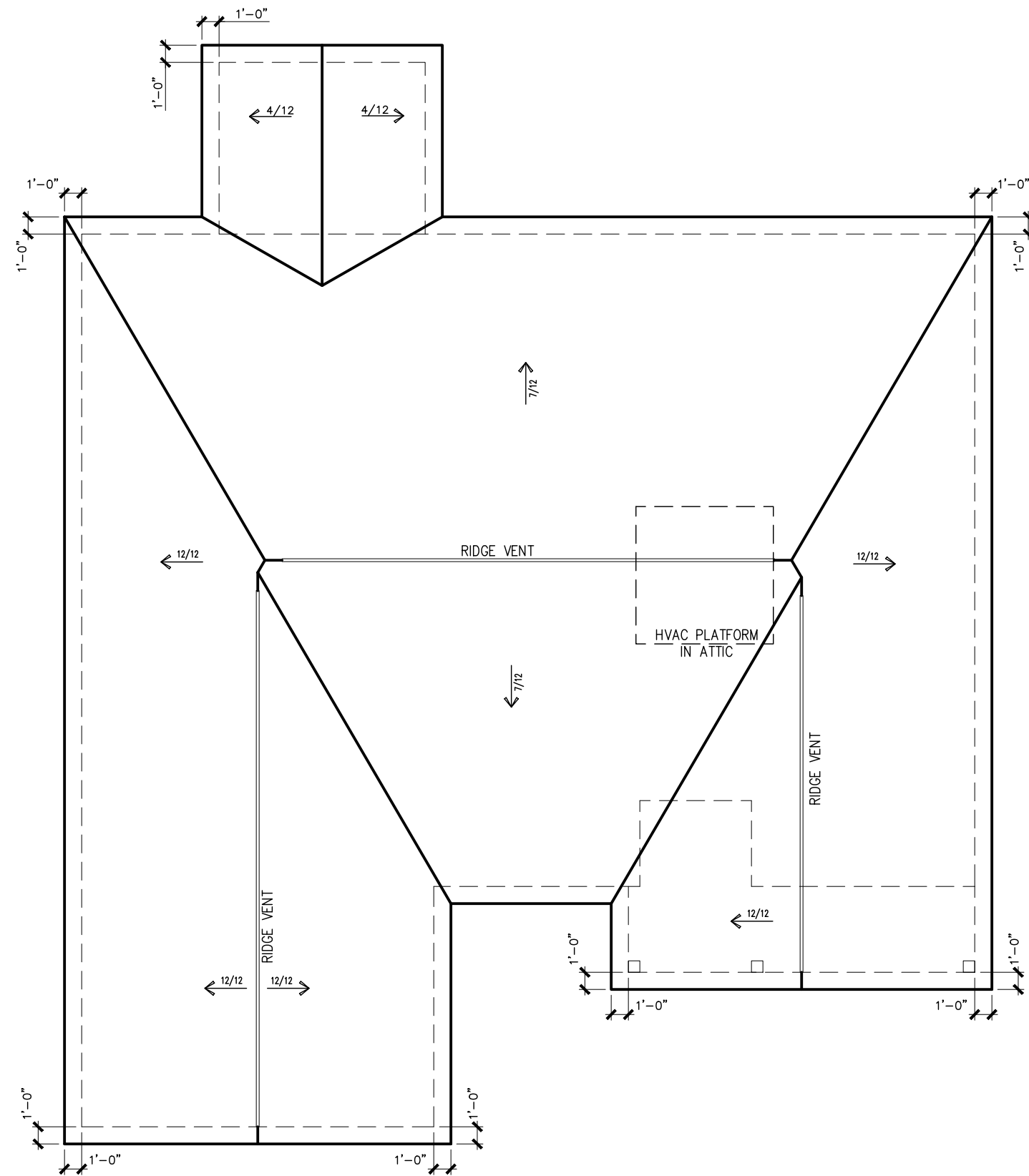
FLOOR PLAN  
FIRST FLOOR  
VININGS

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PLAN ID:	
FND: ALL	ELEV: C
PAGE NO: A5.1	

# CANE MILL ESTATES LOT 5



ROOF PLAN "C"  
SCALE : 1/8" = 1'-0"

DATE	REVISION	BY



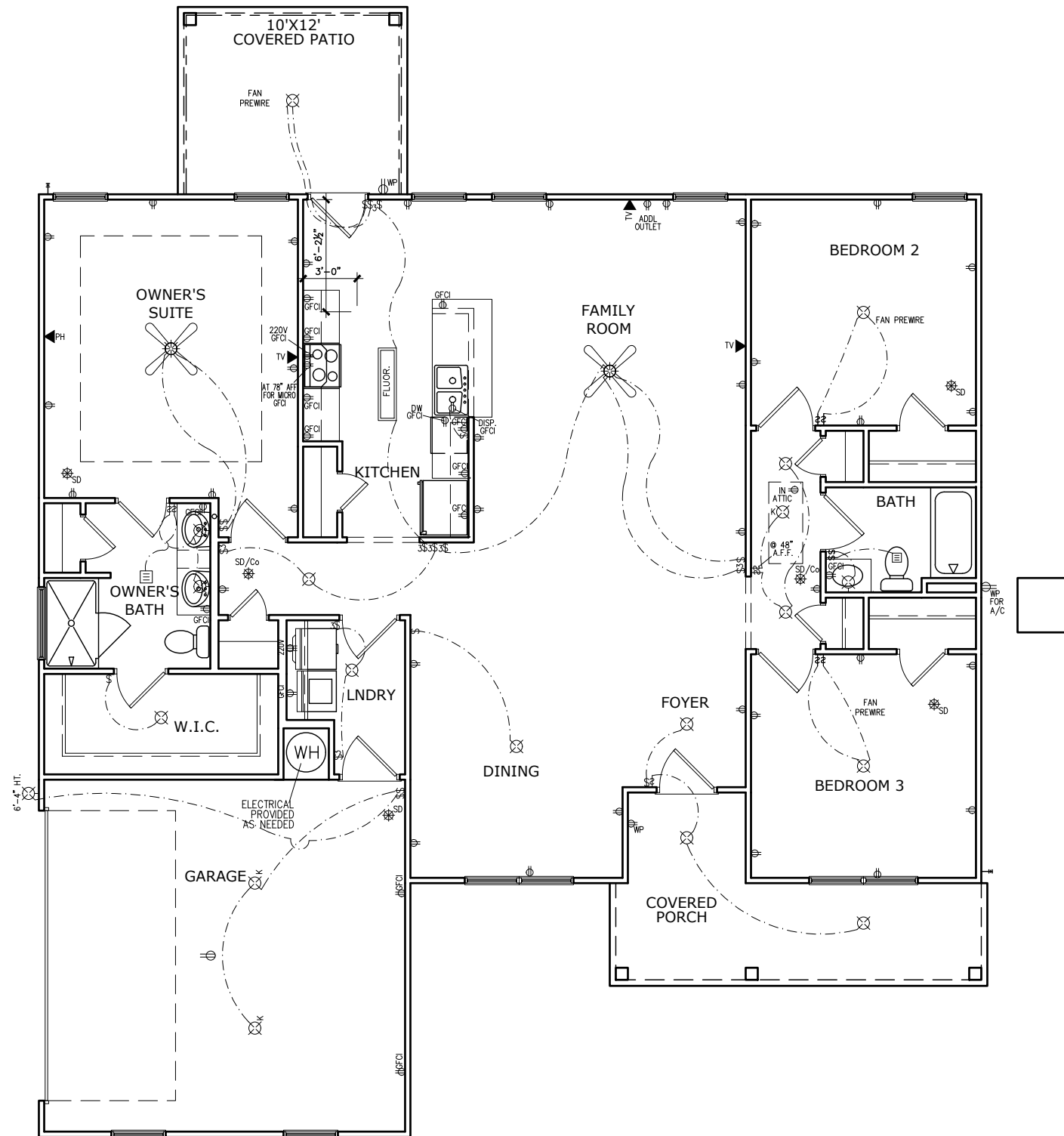
ROOF PLAN  
ROOF LAYOUT  
VININGS

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FND: ALL	ELEV: C
PAGE NO: A6.1	

# CANE MILL ESTATES LOT 5



ELECTRICAL LEGEND			
\$	SWITCH	TV	TV
\$3	3 WAY SWITCH	⊕	120V RECEPTACLE
\$4	4 WAY SWITCH	⊕	120V SWITCHED RECEPTACLE
⊗	CEILING FIXTURE	⊕	220V RECEPTACLE
⊕ <sub>K</sub>	KEYLESS	⊕ <sub>GFCI</sub>	GFCI OUTLET
⊕ <sub>W</sub>	WALL MOUNT FIXTURE	⊕ <sub>AFCI</sub>	ARCH FAULT CIRCUIT INTERRUPTER
○	CEILING FIXTURE	† <sub>GL</sub>	GAS LINE
●	FLEX CONDUIT	† <sub>WL</sub>	WATER LINE
CH	CHIMES	↓	HOSE BIBB
PH	TELEPHONE	⊕	FLOOD LIGHT
SD/Co	SMOKE DETECTOR & CARBON MONOXIDE	▭	1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET	⊗	CEILING FAN
□	GARAGE DOOR OPENER	—	ELECTRICAL WIRING
⊕	EXHAUST FAN	⊕	CEILING FIXTURE
⊕	FAN/LIGHT		
ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES			
APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)			
BREAKFAST/DINING ROOM	63" ABOVE FINISHED FLOOR		
KITCHEN PENDANT LIGHTS	33" ABOVE COUNTER TOP		
TWO STORY FOYER FIXTURE	96" ABOVE FINISHED FLOOR		
CEILING FAN	96" ABOVE FINISHED FLOOR		

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

FIRST FLOOR ELECTRICAL PLAN

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

BY	#	REVISION	DATE



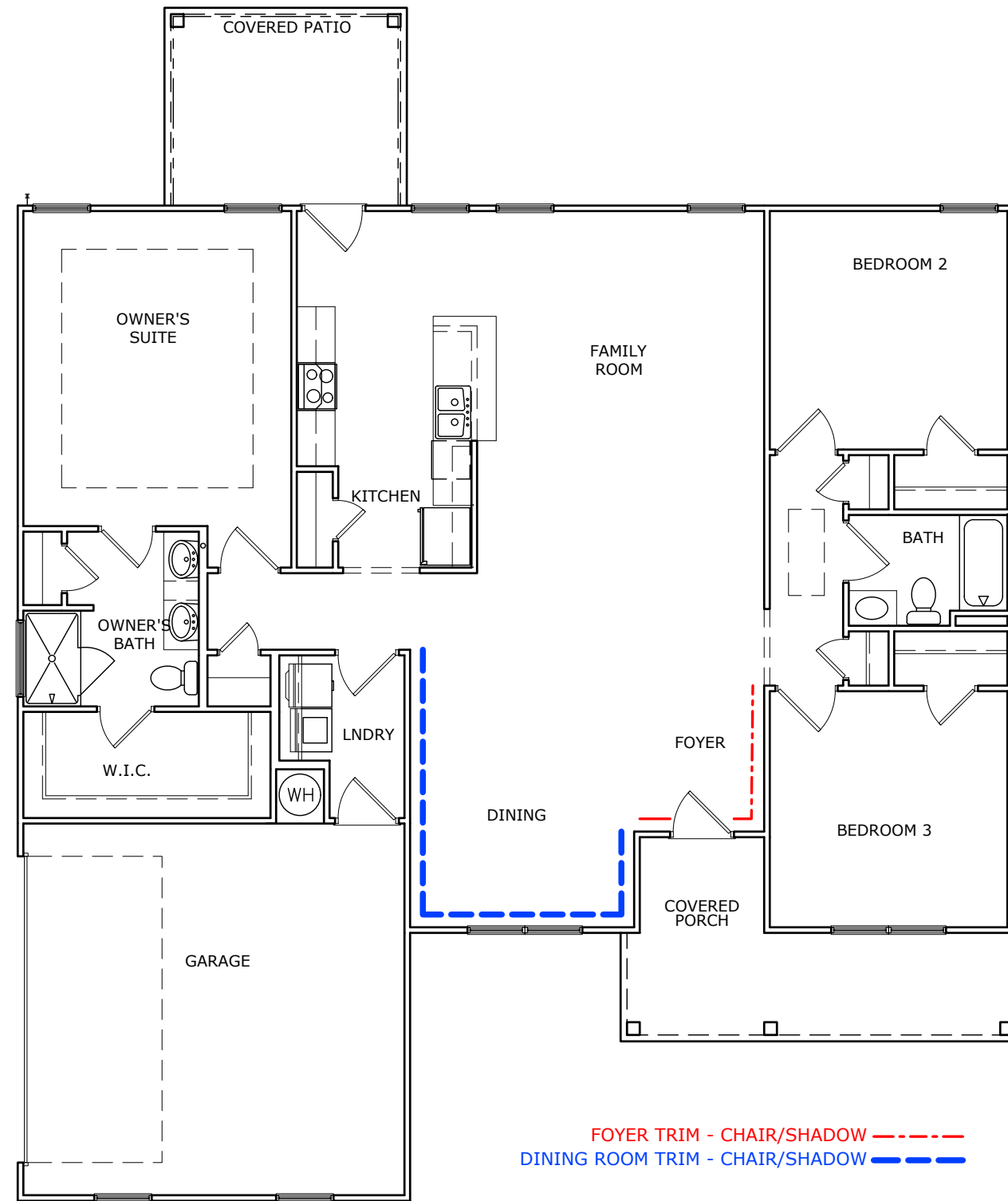
ELECTRICAL PLAN  
FIRST FLOOR  
VININGS

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FACADE OPT: C	
PLAN ID:	
FND: ALL	ELEV: C
PAGE NO: A7.2	

# CANE MILL ESTATES LOT 5



TRIM LAYOUT FIRST FLOOR PLAN

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

BY	#	REVISION	DATE



FIRST FLOOR  
TRIM LAYOUT  
VININGS

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FND: ALL	ELEV: C
PAGE NO: A8.1	



# CANE MILL ESTATES LOT 5

BY	#	#	#	#	#	#
REVISION						
DATE						



DETAILS  
LOT DEFINITION  
VININGS

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DATE:	8/20/2021		
FACADE OPT:	C		
PLAN ID:			
FND:	ALL	ELEV:	C
PAGE NO:	A9.1		

### Lot Definition

<b>Project:</b> Cane Mill Estates	<b>Community:</b> Cane Mill Estates
<b>Building:</b> 000	<b>Builder:</b> Thomas Kenneth Barlow
<b>Unit:</b> 0005	<b>Status:</b> Sold
<b>Plan:</b> Vining C Ranch Side Entry	<b>RTeam:</b> Raleigh West
<b>Orientation:</b> Garage Left	<b>Sq. Ft.:</b> 1,819
<b>Bedrooms:</b> 3	<b>Bathrooms:</b> 2
<b>Address:</b> 165 Planters Lane	<b>Permit:</b>
<b>Coats:</b>	<b>Notes:</b>
<b>NC 27521</b>	

Sales Data	Dates
Contract: 92996	Ratified: 08/12/2021
Buyer: Patrick Barnhouse	Original Start: 09/15/2021
Sales Agent: Sam Fulmer	Start: 09/15/2021
	Scheduled Complete: 01/14/2022

Option	Description	Quantity
36" Cabinet 2nd Upgr w/ Hardware	Includes hardware - knobs, pulls, or knob/pull combo. Note: Bath cabinets to match	1
Additional Cable Outlet		1
Addl Standard Interior Electric Outlet	Standard Interior Duplex Outlet. This is not an exterior weather proof outlet or a GFCI protected outlet. A quantity of 1 gives you one additional outlet.	1
Automatic Garage Door Opener	Garage Door Opener - Per Door	1
Black 25.5 cu.ft Side-by-Side	25.5 Cu. Ft. Side-by-Side Refrigerator Multi-Level LED Lighting; Exterior Dispenser with Color Match User Interface PureSource® 3 Ice & Water Filtration; 2 Store-More™ Humidity-Controlled Crisper Drawers; 2 Store-More™ Glass Shelves; Automatic Ice Maker	1
Blind for Rear/Back Door	Blinds - Additional blind to cover rear/back door.	1
Blinds for Base House	Includes blinds for all standard windows on front, sides, and rear that are operational and accessible. Does not include blinds for any optional windows, including windows for optional second floors.	1
Ceiling Fan w/Light Family Room	Ceiling fan, including Light Kit. Does not include Prewire. This option is for use in Family Rooms that are pre-wired standard but have no fan.	1
Ceiling Fan w/Light Owner Bedroom	Ceiling fan, including Light Kit. Does not include Prewire. This option is for use in Owner Bedrooms that are pre-wired standard but have no fan.	1
Dining Room - Chair Rail/Shadow Box		1
Foyer - Chair Rail/Shadow Box		1

User Name: Victoria Wicker 1 of 2 08/18/2021  
Database: SmithDouglasCommunities 12:52:15 PM

### Lot Definition

Hall Bath Marble 1 Single ilo LamSgl		1
Kitchen Faucet - Level 2 (S)	Upgrade to Level 2 Pulldown Kitchen Sink Faucet From Level 1 Faucet on Solid Surface	1
Nickel Interior Finish Color Package	NOTE: If Laminate Kitchen top, Upgrade Kit Faucet or it remains Chrome. Includes SS kitchen faucet, brushed nickel bath faucets & fixtures & door hardware (hinges, bumps, knobs/levers, deadbolts), Pig(1br) light fixtures, powder oval mirror. Separate options also affected: shower door, bath hardware (bowl barling, lp holder), shower grab bar, cabinet hardware	1
Optional Covered Patio-Regular-Fiber (3)	Optional Covered Patio-Regular-Fiber Cement Siding. Actual dimensions can vary per plan. Site Condition Exclusions may apply. ***Starting from 3x3 concrete pad	1
Owner Bath Marble 1 Double ilo LamSgl	***Includes Vanity Double Bowl Option Do Not Select Both***	1
Prewire for Ceiling Fan	Pre-wire a light location for a future ceiling fan.	3
Screens Base House Single Family	Add window screens to all operable standard windows on single family home. NOTE: Does not include screens for windows for optional-2nd-floors, side entry garage, or windows added or changed from structural options, optional windows, or basement windows. See additional options to complete screens.	1
Solid Surface-Kitchen Countertops (I)	Kitchen Solid Surface Countertops from Laminate	1
Stone 21 C ExtColPkg(f)		1
Tile - Kit Backsplash LVL 2 Brick Lay		1
Tray Ceiling - Owner's Bedroom		1

Activity	Description	Selection Description
Ceramic Tile Set-Kitchen	TILEKITBacksplash-2ndUpgr ALL	Baker St.4x16 WarmGrey 500/Silver0030
Del&Install AppliancesPkg	Appliance Package Select - All	Appliance Package Selected
Deliver & Install Blinds	Blind Color	White
Install Cabinets Complet	Cab Hdw'r Type(2/3)ALL	Knob/Pull Combo
Install Cabinets Complet	Cabinet Finish - Upgrade 2Arls	2nd-Upg Brellin Purestyle-White
Install Cabinets Complet	Secondary Bath Vanity Tops-All	Selection not Needed
Install Carpet	Carpet - Standard ALL	Smith Grove III Charcoal 502
Install Marble Tops	RDU Marble Vanity Top Lvl 1	Matte-#153 White w/ice Gray w/oval bowl
Install SolidSurfaceTops	Solid Surface LVL1-Raleigh	Dettle Quartz-Simply Gray-OQ30
Paint Interior Complete	Interior Paint (Trim)	SW 7006 Extra White
Paint Interior Complete	Interior Paint (Walls) - Base	SW 8917 Shell White
PM Install Vinyl Floor	VinylPkg-Common Areas	River Chase II Citadel 560
PM Install Vinyl Floor	VinylPkg-Owner Bath	Winchester Bay Foundation 5148
PM Install Vinyl Floor	VinylPkg-Std 2nd Baths/Laundry	Winchester Bay Foundation 5148

User Name: Victoria Wicker 2 of 2 08/18/2021  
Database: SmithDouglasCommunities 12:52:15 PM

DESIGN SPECIFICATIONS:

Construction Type: Commercial  Residential   
 Applicable Building Codes:  
 • 2018 North Carolina Residential Building Code  
 • ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

Design Loads:  
 1. Roof  
     1.1 Live..... 20 PSF  
     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 Sleeping Areas..... 30 PSF  
     2.3 Balconies (exterior) and Decks..... 40 PSF  
     2.4 Garage Parking..... 50 PSF  
 3. Floor Dead Loads  
     3.1 Conventional 2x..... 10 PSF  
     3.2 I-Joist..... 15 PSF  
     3.3 Floor Truss..... 15 PSF  
 4. Ultimate Wind Speed (3 sec. gust)..... 130 MPH  
     4.1 Exposure..... B  
     4.2 Importance Factor..... 1.0  
     4.3 Wind Base Shear  
         4.3.1 Vx =  
         4.3.2 Vy =  
 5. Component and Cladding (in PSF)

MEAN ROOF HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'
ZONE 1	16.7-18.0	17.5-18.9	18.2-19.6	18.7-20.2
ZONE 2	16.7-21.0	17.5-22.1	18.2-22.9	18.7-23.5
ZONE 3	16.7-21.0	17.5-22.1	18.2-22.9	18.7-23.5
ZONE 4	18.2-19.0	19.2-20.0	19.9-20.7	20.4-21.3
ZONE 5	18.2-24.0	19.2-25.2	19.9-26.1	20.4-26.9

6. Seismic  
 6.1 Site Class..... D  
 6.2 Design Category..... C  
 6.3 Importance Factor..... 1.0  
 6.4 Seismic Use Group..... I  
 6.5 Spectral Response Acceleration  
     6.5.1 S<sub>ms</sub> = %g  
     6.5.2 S<sub>m1</sub> = %g  
 6.6 Seismic Base Shear  
     6.6.1 V<sub>x</sub> =  
     6.6.2 V<sub>y</sub> =  
 6.7 Basic Structural System (check one)  
 Bearing Wall  
 Moment Frame  
 Dual w/ Special Moment Frame  
 Dual w/ Intermediate R/C or Special Steel  
 Inverted Pendulum  
 6.8 Arch/Mech Components Anchored?..... No  
 6.9 Lateral Design Control: Seismic  Wind   
 7. Assumed Soil Bearing Capacity..... 2000psf



STRUCTURAL PLANS PREPARED FOR:

VININGS

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	R5 ROOF SUPPORT
CJ CEILING JOIST	SC STUD COLUMN
CLR CLEAR	SJ SINGLE JOIST
DJ DOUBLE JOIST	SFF SPRUCE PINE FIR
DSP DOUBLE STUD POCKET	SST SIMPSON STRONG-TIE
EE EACH END	SYP SOUTHERN YELLOW PINE
EW EACH WAY	TJ TRIPLE JOIST
NTS NOT TO SCALE	TSP TRIPLE STUD POCKET
OC ON CENTER	TYP TYPICAL
PSF POUNDS PER SQUARE FOOT	UNO UNLESS NOTED OTHERWISE
PSI POUNDS PER SQUARE INCH	WUF WELDED WIRE FABRIC

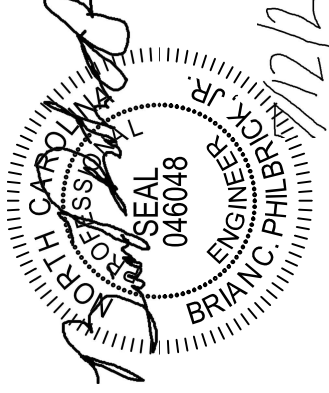
Roof truss and floor joist layouts, and their corresponding loading details, were not provided to Summit Engineering, Laboratory & Testing, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by SMITH DOUGLAS HOMES. Subsequent 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:

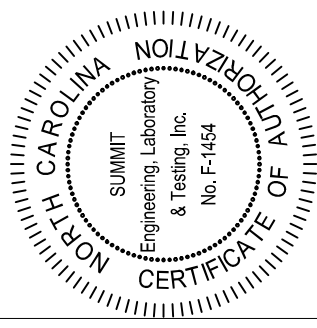
Sheet No.	Description
C51	Cover Sheet, Specifications, Revisions
C52	Specifications Continued
510m	Monolithic Slab Foundation
510s	Stem Wall Foundation
510c	Crawl Space Foundation
510b	Basement Foundation
520	Basement Framing Plan
530	First Floor Framing Plan
540	Second Floor Framing Plan
550	Roof Framing Plan
560	Basement Bracing Plan
570	First Floor Bracing Plan
580	Second Floor Bracing Plan

REVISION LIST:

Revision No.	Date	Project No.	Description
1	10/23/18	3832.154R	Added optional bonus room.
2	2.21.19	3832.226	Added optional unfinished basement.
3	3/5/19	3832.226R	Made corrections to header sizes
4	10/17/19	3832.226R2	Moved door to second floor to top of stairs
5	07/07/20 21		Added LIB Option



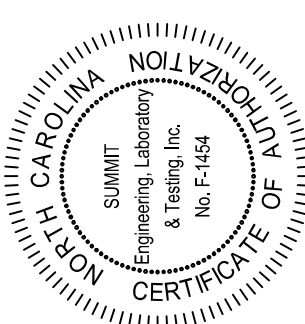
Cane Mill Lot 5



PROJECT VININGS (LH)  
 Coversheet  
 Client Smith Douglas Homes - Raleigh  
 2520 Reliance Ave  
 Apex, NC 27539

CURRENT DRAWING  
 DATE: 10/17/2019  
 SCALE: 1/8"=1'-0"  
 PROJECT #: 3832.226R2  
 DRAIN BY: MEB  
 CHECKED BY: CNB  
 ORIGINAL DRAWING  
 DATE PROJECT #  
 08/07/2018 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS  
 SHEET  
 CS1



**CURRENT DRAWING**

DATE: 10/17/2013  
SCALE: 1/8"=1'-0"  
PROJECT #: 3632226R2  
DRAWN BY: MEB  
CHECKED BY: ONB

**ORIGINAL DRAWING**

DATE: 08/07/2018  
PROJECT #: 363215J4

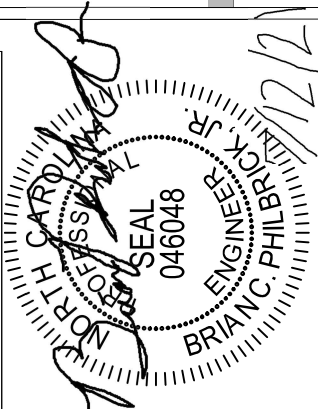
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

**CS2**

STRUCTURAL MEMBERS ONLY

Cane Mill  
Lot 5



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

**STRUCTURAL FIBERBOARD PANELS:**

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.
3. Sheathing shall have a 1/8" gap at panel ends and edges as 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.
2. All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted.
3. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D1.1. Electrodes for shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.

**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-Fine-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. Fo = 26,000 psi  
2.3. Fv = 285 psi  
2.4. Fc = 1,000 psi
3. Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AIA/FA standard C-15. All other moisture exposed wood shall be treated in accordance with AIA/FA 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 be continuous.
8. Individual studs forming a column shall be attached with one 10d nail #6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be fully blocked at all floor levels to ensure proper load transfer.
9. Multi-ply beams shall have each ply attached with (3) 10d nails # 24" O.C.
10. Fitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered #24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, unless noted otherwise.

**WOOD TRUSSES:**

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." 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-3). 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.

**CONCRETE:**

1. Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
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 42% of target values as follows:  
3.1. Footings: 5%  
3.2. Exterior Slabs: 5%
4. No admixtures shall be added to any structural concrete without written permission of the SER.
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.
9. Reinforcing steel may not extend through a control joint.
10. Reinforcing steel may extend through a saw cut joint. All welded wire fabric (WWF) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF shall be securely supported during the concrete pour. Fibermesh may be used in lieu of WWF.

**CONCRETE REINFORCEMENT:**

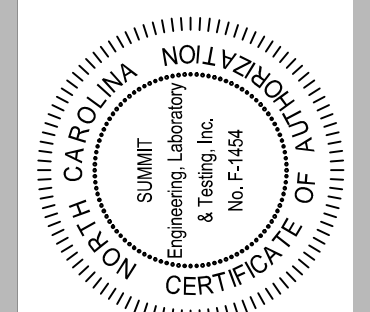
1. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
3. Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (15 pounds per cubic yard).
4. Fibermesh shall comply with ASTM C116, 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 318: "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.

**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 this structure. No 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.
7. This structure and all construction shall conform to all applicable sections of the international residential code.
8. This structure and all construction shall conform to all applicable sections of the 2018 North Carolina Residential Code (NCR) 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
3. Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCR
4. The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.
5. The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
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 bear in the middle third of the piers. Plasters 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 NCR

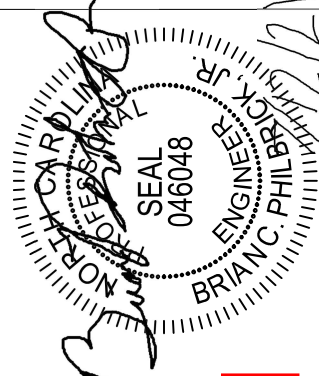


PROJECT  
Yinings (LH)  
Monolithic Slab Fnd.  
CLIENT  
Smith Douglas Homes - Raleigh  
2520 Reliance Ave  
Apex, NC 27539

CURRENT DRAWING  
DATE: 10/17/2019  
SCALE: 1/8" = 1'-0"  
PROJECT #: 3632226R2  
DRAWN BY: MEB  
CHECKED BY: CAB

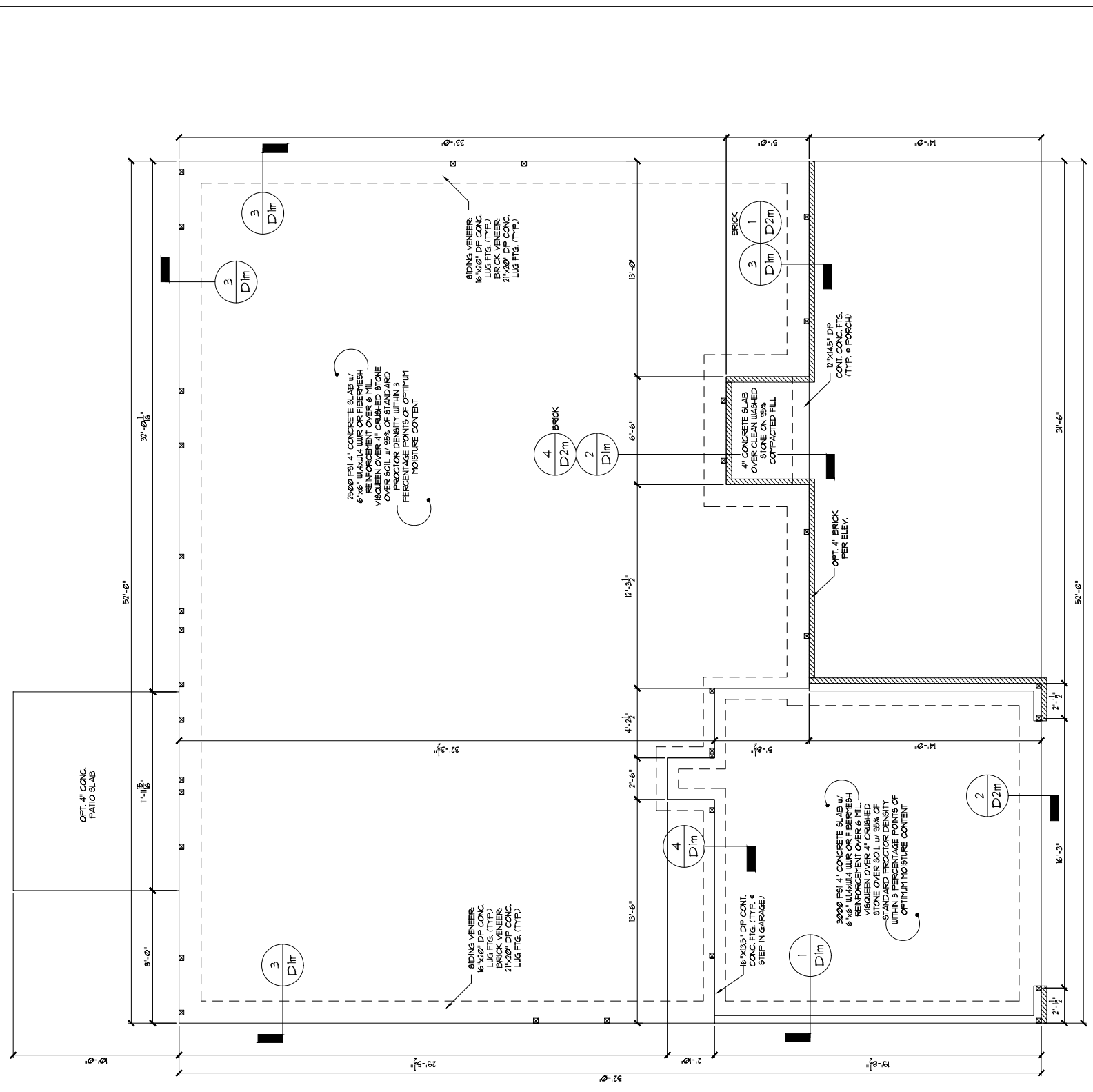
ORIGINAL DRAWING  
DATE: 08/01/2018  
PROJECT #: 3632154  
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
S1.0m



Cane Mill Lot 5

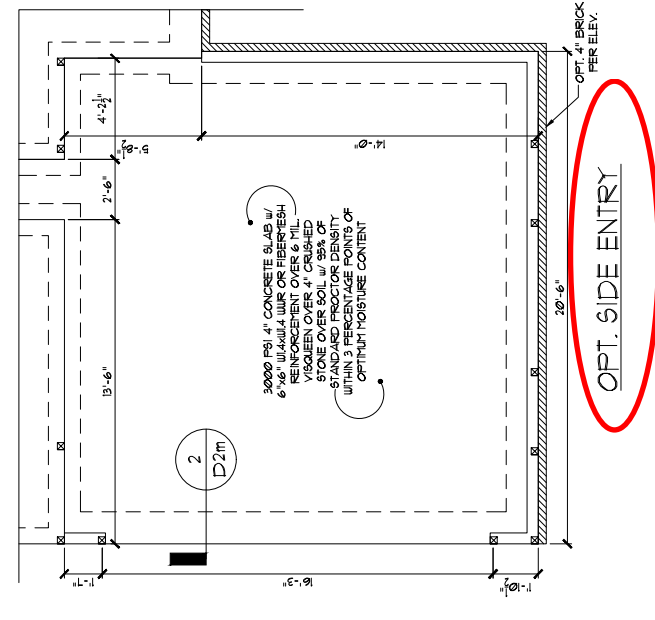
ELEVATIONS ~~AND~~



- FOUNDATION NOTES**
1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2008 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
  2. STRUCTURAL CONCRETE TO BE Fc = 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
  3. ALL REINFORCING STEEL TO BE EARTHquake RATED BARS, A MINIMUM OF 1" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
  4. FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF SOILS AND PERKS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.
  5. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SHOWN IN SECTION R401.1 OF THE 2008 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
  6. ALL PILASTERS TO BE BONDED TO PERimeter FOUNDATION WALL.
  7. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
  8. CONCRETE FOUNDATION WALLS TO BE CONSTRUCTED PER 2008 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
  9. CORSELL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
  10. CRAIL SPACE TO BE GRADED, LEVEL, AND CLEARED OF ALL DEBRIS.
  11. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2008 NORTH CAROLINA RESIDENTIAL BUILDING CODE SECTION R402.1.1 MINIMUM 1/2" DIA BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE ANCHOR BOLTS SHALL BE 1" FROM THE END OF EACH FLAT SECTION MINIMUM (7) ANCHOR BOLTS PER FLAT SECTION ANCHOR BOLTS PLACED IN THE CENTER THIRD OF THE FLATE.
  12. ABBREVIATIONS:  
DJ = DOUBLE JOIST  
GT = GROUND TIES  
HT = HALF TIE  
EE = EACH END  
TR = TRIPLE RAFTER  
TJ = TRIPLE JOIST  
CC = ON CENTER  
CL = CENTER LINE  
FL = POINT LOAD
  13. ALL PERKS TO BE 16"x20" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY TYPICAL (AND).
  14. WALL FOOTINGS TO BE CONTINUOUS CONCRETE SIZES PER STRUCTURAL PLAN.
  15. FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER OR HIS QUALIFIED ASSISTANT. ALL POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION SUMMIT ENGINEERING, LABORATORY TESTING P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE UNDERLIES TO BE TESTED TO DETERMINE PROPERLY COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

- REFER TO BRACED WALL PLAN FOR PANEL IDENTIFICATION AND DIMENSIONS. ADDITIONAL INFO PER SECTION R402.1.1 AND FIGURE R602.1(3.3.4) OF THE 2008 NCCRC.**
- NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND #2Z1 BRICK VENEER END**
- 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 1 PER TABLE R403.1**

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL CONTRACT AND PER THE SPECIFICATIONS AND NOTES PROVIDED ON 10/17/2019. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY TESTING P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING LABORATORY TESTING P.C. CANNOT BE HELD LIABLE FOR ANY CHANGES MADE TO THESE PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.



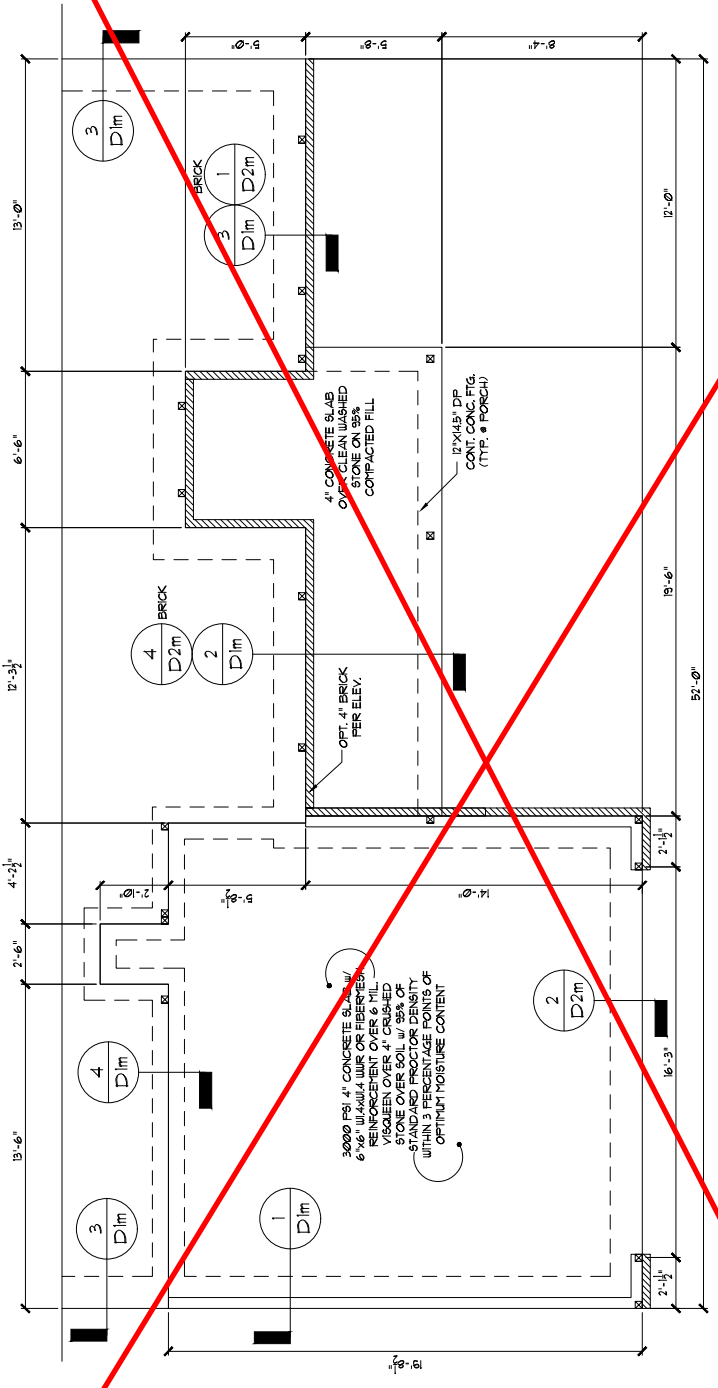
**STRUCTURAL MEMBERS ONLY**  
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT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

STRUCTURAL ANALYSIS BASED ON 2018 NCCRC.

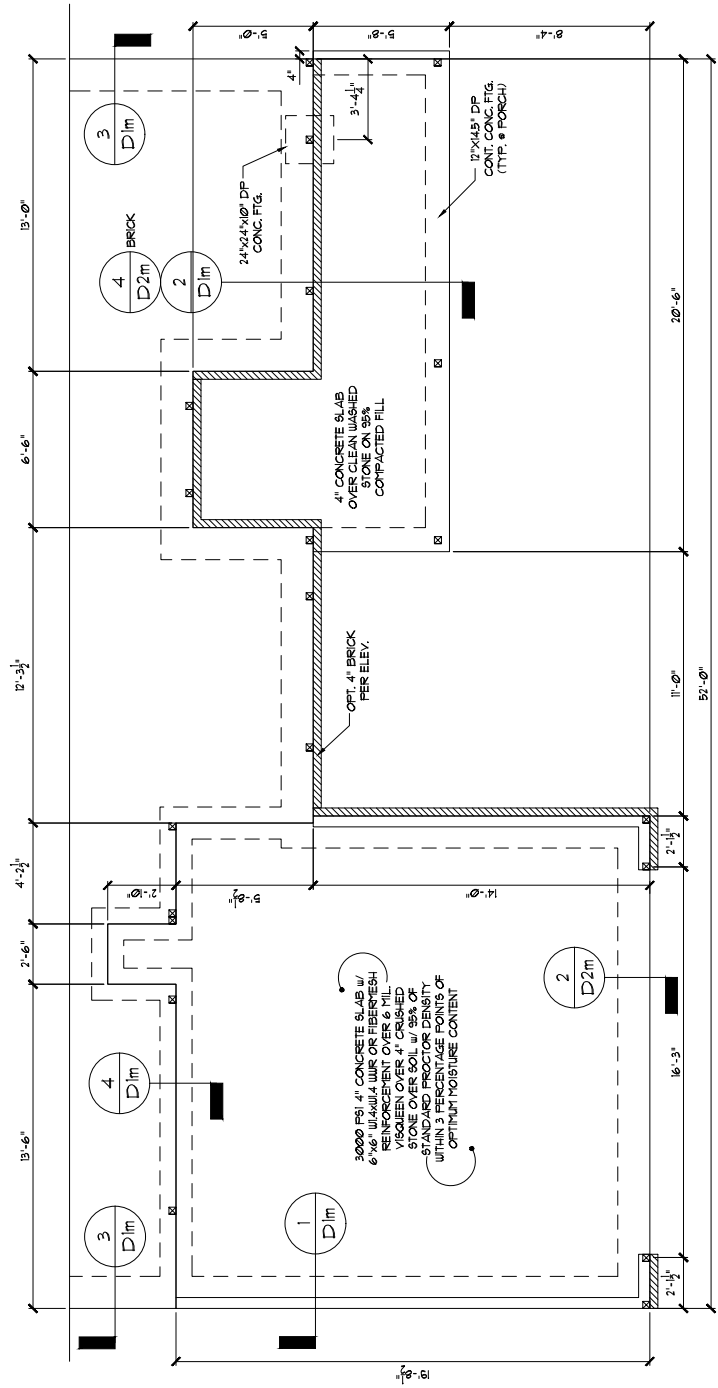
**MONOLITHIC SLAB FOUNDATION**  
SCALE: 1/8" = 1'

STRUCTURAL MEMBERS ONLY

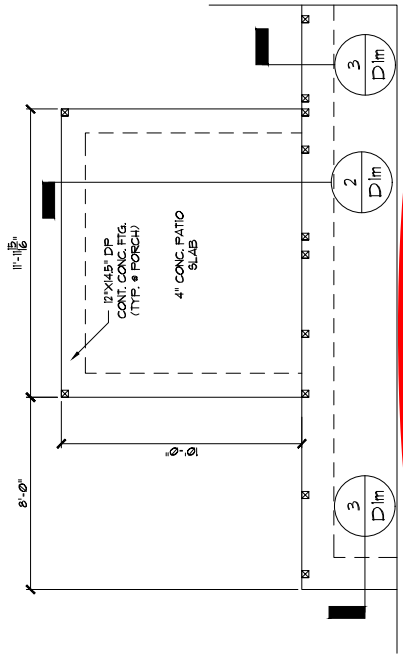
SEE SHEET S1.0m FOR NOTES AND MORE INFORMATION



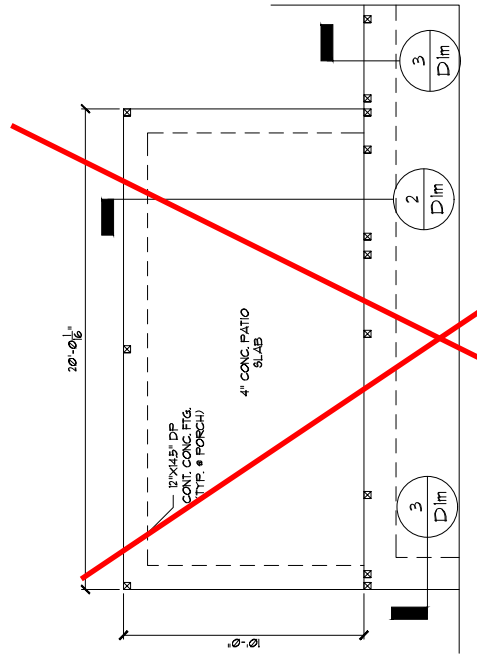
ELEVATIONS B.E.L.



ELEVATIONS C.F.I.



OPT. COVERED/SCREENED PORCH



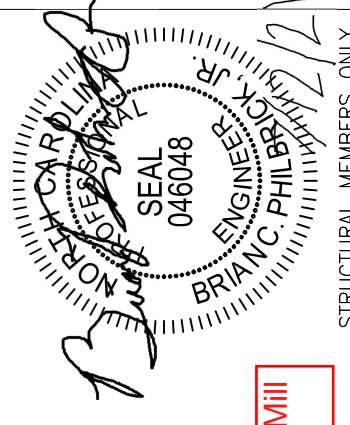
OPT. EXTENDED COVERED/SCREENED PORCH

STRUCTURAL MEMBERS ONLY  
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

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

Cane Mill  
Lot 5



STRUCTURAL MEMBERS ONLY

- GENERAL STRUCTURAL NOTES:**
- CONSTRUCTION SHALL CONFORM TO 2009 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
  - FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2009 N.C. RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS. THE CONTRACTOR SHALL VERIFY WITH THE RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
  - CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
  - ANCHOR BOLTS SHALL BE 1/2" DIA. 304 SS. 6" LONG. 4" FROM THE END OF THE PLATE. PER PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE 2" BRG (UNO).
  - ALL WOOD MEMBERS SHALL BE 2" BRG (UNO).
  - ANCHOR BOLTS SHALL BE 1/2" DIA. 304 SS. 6" LONG. 4" FROM THE END OF THE PLATE. PER PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE 2" BRG (UNO).
  - END UNLESS NOTED OTHERWISE.
  - ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
  - FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2009 N.C. RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS. THE CONTRACTOR SHALL VERIFY WITH THE RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
  - CONCRETE ANCHOR BOLTS SHALL BE 1/2" FROM THE END OF EACH PLATE SECTION. MINIMUM 2" ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE PERPENDICULAR TO RAFTERS.
  - CONCRETE ANCHOR BOLTS SHALL BE 1/2" FROM THE END OF EACH PLATE SECTION. MINIMUM 2" ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE PERPENDICULAR TO RAFTERS.
  - FITCH BEAMS, 4-PLY LVL'S AND 3-PLY SIZE LOADED LVL'S SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" OC. (MAX) STAGGERED OR END TO END. ALL BOLTS SHALL BE 1/2" DIA. 304 SS. 6" LONG. 4" FROM THE END OF THE PLATE. PER PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE 2" BRG (UNO).
  - ALL NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE SHALL BE (2) 2x4 BRG 2, DROPPED. (UNLESS NOTED OTHERWISE).
  - ABBREVIATIONS:  
 DJ • DOUBLE JOIST  
 FT • FLOOR TRUSS  
 BE • BEAM COLUMN  
 TJ • TRIPLE JOIST  
 CL • CENTER LINE  
 S1 • SINGLE JOIST  
 F1 • FLOOR TRUSS  
 TR • TRIPLE RAFTER  
 OC • ON CENTER  
 PL • POINT LOAD

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 PLANS PROVIDED BY SMITH DOUGLAS HOMES. NOTES COMPLETED/REVISED ON 10/11/2018. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY & TESTING, P.C. IF ANY CHANGES TO THE ORIGINAL ARCHITECTURAL PLANS ARE MADE. SUMMIT ENGINEERING LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN 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 N.C.R.C.

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

**KING STUD REQUIREMENTS**

OPENING WIDTH (FT)	KINGS (EACH END)
LESS THAN 16" O.C.	24" O.C.
16" TO 4'-0"	(1)
4'-0" TO 4'-4"	(2)
4'-4" TO 6'-0"	(3)
6'-0" TO 8'-0"	(4)
8'-0" TO 10'-0"	(5)
10'-0" TO 12'-0"	(6)
12'-0" TO 16'-0"	(7)

KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

**HEADER/BEAM SCHEDULE**

HEADER TAG	BEAM TAG	SIZE	JACKS (EACH END)
-	B1	(1) 14" FLOOR JOIST	(2)
-	B2	(2) 14" FLOOR JOIST	(2)
A	B3	(2) 2x6	(1)
B	B4	(2) 2x6	(2)
C	B5	(2) 2x6	(2)
D	B6	(2) 2x6	(2)
E	B7	(2) 9-1/4" LVL	(3)
F	B8	(2) 11-1/8" LVL	(3)
G	B9	(2) 14" LVL	(3)
H	B10	(2) 16" LVL	(3)
I	B11	(2) 18" LVL	(3)
J	B12	(2) 24" LVL	(4)
K	B13	(3) 11-1/8" LVL	(3)
L	B14	(3) 11-1/8" LVL	(3)
M	B15	(3) 14" LVL	(3)
N	B16	(3) 18" LVL	(3)
O	B17	(3) 24" LVL	(3)
P	B18	(3) 24" LVL	(4)

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

**LINTEL SCHEDULE**

TAG	SIZE	OPENING SIZE
①	L3x3x1/4"	LESS THAN 6'-0"
②	L3x3x1/4"	6'-0" TO 10'-0"
③	L5x3-1/2x5/16"	GREATER THAN 10'-0"
④	L5x3-1/2x5/16"	ALL ARCHED OPENINGS

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

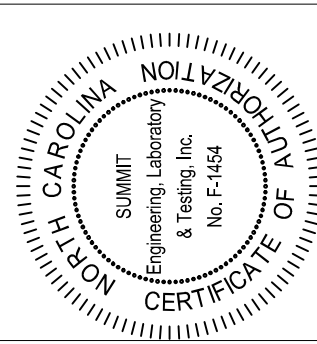
ALL HEADERS WITH BRICK ABOVE: (UNO)

**WALL STUD SCHEDULE**

1" LIND FLOOR BEARING WALLS  
 2x6 STUDS • 24" O.C. OR 2x4 STUDS • 16" O.C.  
 1" FLOOR LOAD BEARING WALLS SUPPORTING  
 1" FLOOR LOADS  
 2x6 STUDS • 24" O.C. OR 2x4 STUDS • 16" O.C.  
 2x6 STUDS • 16" O.C. OR 2x4 STUDS • 12" O.C.  
 2x6 STUDS • 12" O.C. OR 2x4 STUDS • 12" O.C.  
 NON-LOAD BEARING WALLS (ALL FLOORS):  
 2x4 STUDS • 16" O.C.  
 TWO STORY WALLS:  
 2x4 STUDS • 12" O.C. OR 2x6 STUDS • 16" O.C.  
 W/ 2x BRACING • 6'-0" O.C. VERTICALLY  
 (LACKA, 'BALLROOM FRAMING')

**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

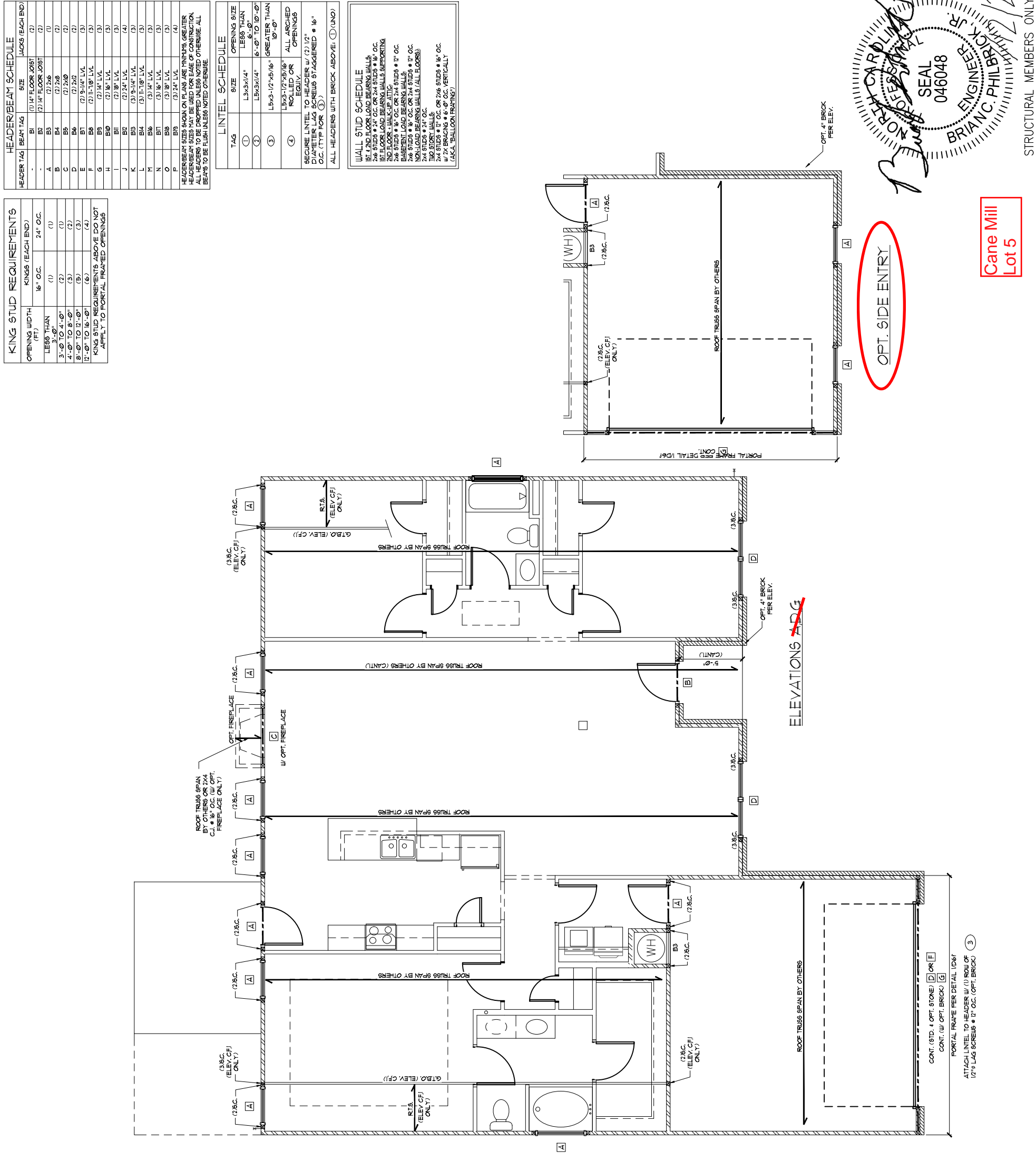


**PROJECT**  
Yinings (LH)  
First Floor Framing  
Client  
Smith Douglas Homes - Raleigh  
2520 Reliance Ave  
Apex, NC 27539

**CURRENT DRAWING**  
DATE: 10/11/2018  
SCALE: 1/8"=1'-0"  
PROJECT #: 3632226R2  
DRAWN BY: MEB  
CHECKED BY: CNB

**ORIGINAL DRAWING**  
DATE: 08/07/2018  
PROJECT #: 3632154  
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**S3.0**

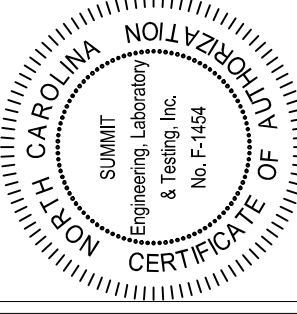


**ENGINEERING SEAL**  
046048  
BRIAN C. PHILBRICK, JR.  
ENGINEER  
NORTH CAROLINA  
STRUCTURAL MEMBERS ONLY

**OPT. SIDE ENTRY**

Cane Mill Lot 5

SEE SHEET S3.0 FOR NOTES AND MORE INFORMATION



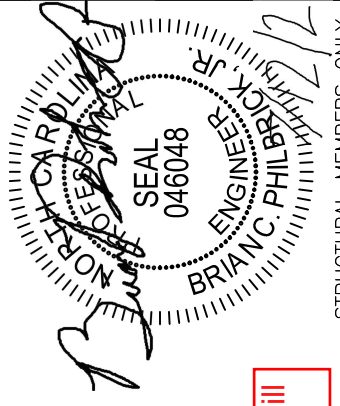
PROJECT  
Yinings (LH)  
First Floor Framing  
CLIENT  
Smith Douglas Homes - Raleigh  
2520 Reliance Ave  
Apex, NC 27539

CURRENT DRAWING  
DATE: 10/17/2013  
SCALE: 1/8"=1'-0"  
PROJECT #: 3632226R2  
DRAWN BY: MEB  
CHECKED BY: CNB

ORIGINAL DRAWING  
DATE: 08/07/2018  
PROJECT #: 3632154

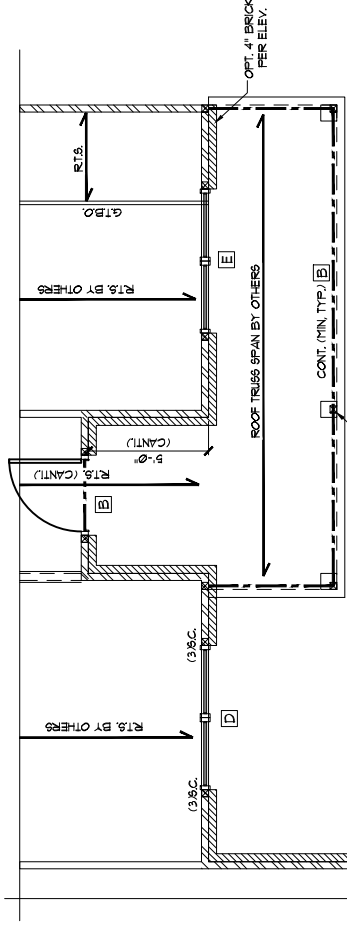
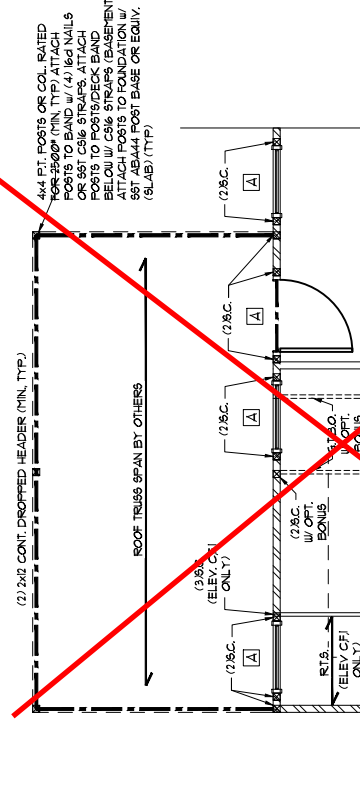
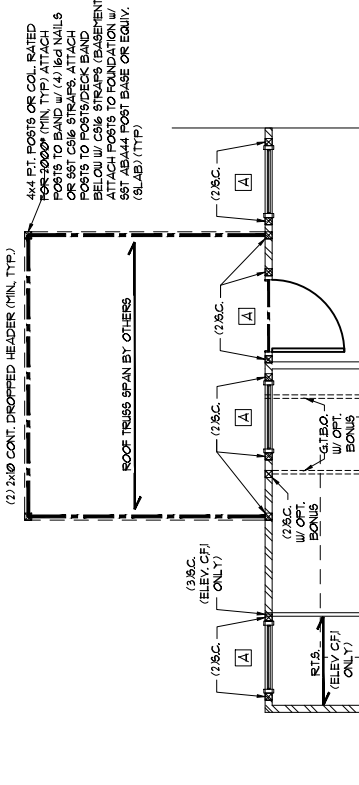
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**S3.3**

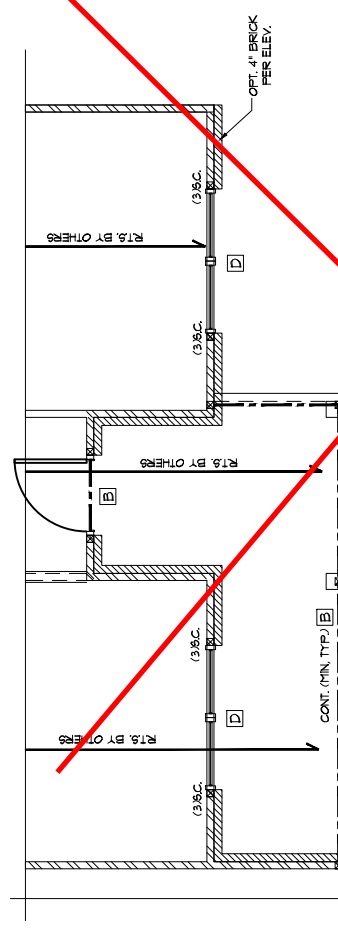


Cane Mill Lot 5

STRUCTURAL MEMBERS ONLY



ELEVATIONS CFJ



ELEVATIONS BEH

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 NCR.

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

TRUSS UPLIFT CONNECTOR SCHEDULE			
MAX UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO END
525 LBS	H254	PER WALL SHEATHING & FASTENERS	
1070 LBS	(2) H254	C56 (END * 13')	DTTZ
1245 LBS	HT520	C56 (END * 13')	DTTZ
1700 LBS	(2) HT520	(1) C56 (END * 13')	DTTZ
2490 LBS	(2) HT520	(2) C56 (END * 13')	HT4
2365 LBS	LGT3-90255	(2) C56 (END * 13')	HT4

1. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.  
2. UPLIFT VALUES LISTED ARE FOR 8FT # GRADE MEMBERS.  
3. TRUSS LAYOUT PERFORMED FOR UPLIFT VALUES AND TRUSS TO BE USED IN THIS PROJECT. UPLIFT VALUES SPECIFIED BY TRUSS MANUFACTURER OVERRIDES THOSE LISTED ABOVE.  
4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: 1ST FLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP. AND)

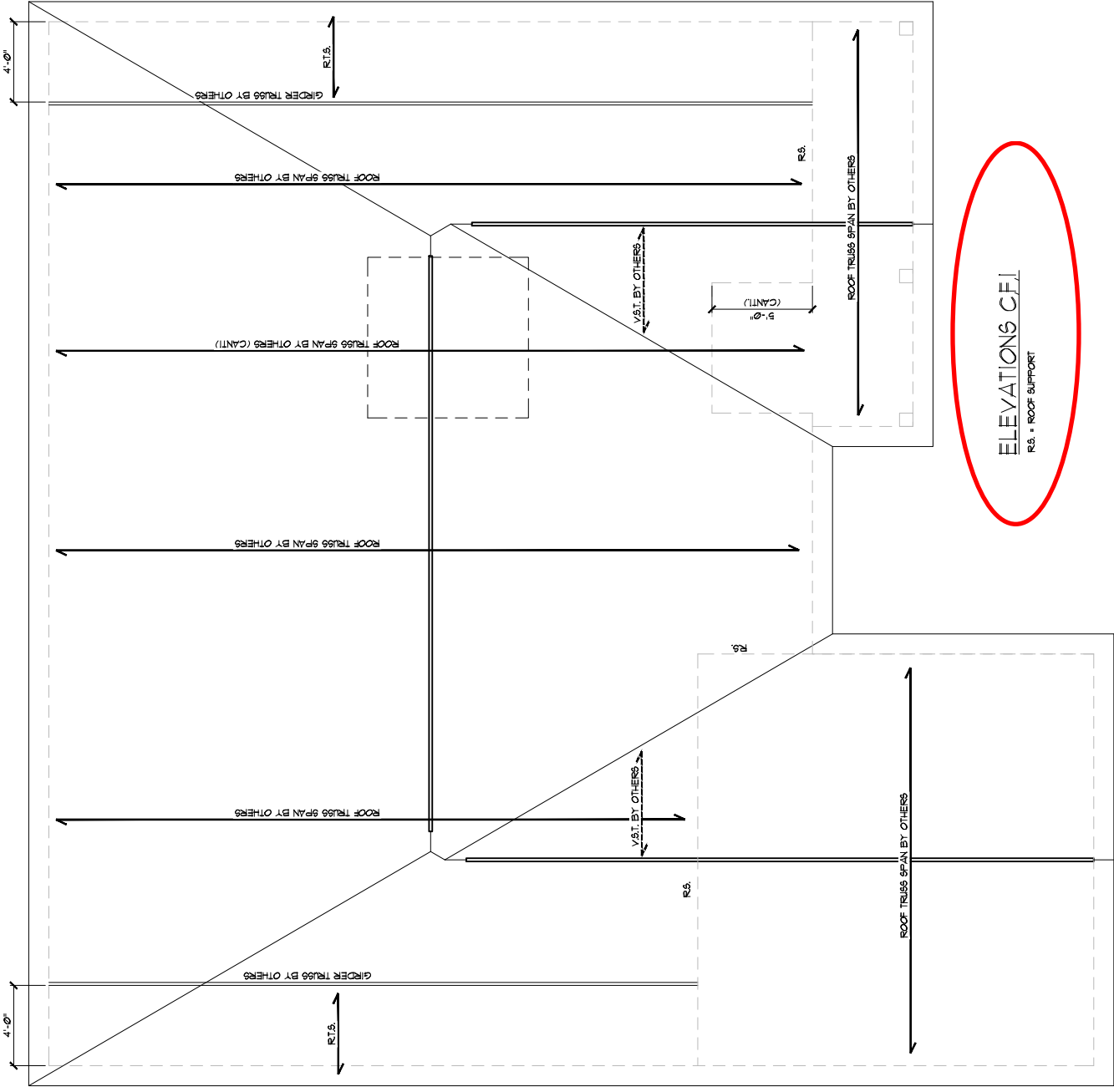
NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED CORNER WALLS (TYP. AND)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R602.10.11.1 WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCR. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

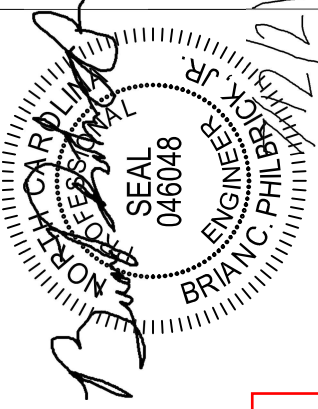
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY BRITH DOLGAS. NOTES COMPLETED REVISIONS ON 10/17/2018. THE RESPONSIBILITY OF THE DESIGN TO THE USER HAS BEEN ASSIGNED TO THE USER. ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN 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 NCR.

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

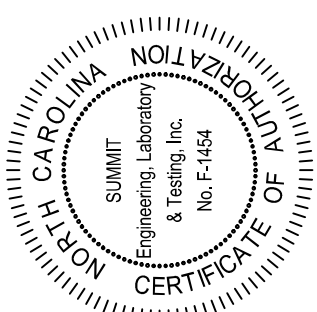


**ELEVATIONS C.F.I.**  
R.S. - ROOF SUPPORT



**Cane Mill Lot 5**

STRUCTURAL MEMBERS ONLY



PROJECT  
Vinyngs (LH)  
Roof Framing Plan  
CLIENT  
Smith Douglas Homes - Raleigh  
2520 Reliance Ave  
Apex, NC 27539

CURRENT DRAWING  
DATE: 10/17/2018  
SCALE: 1/8" = 1'-0"  
PROJECT #: 3632226R2  
DRAWN BY: MEB  
CHECKED BY: CNB

ORIGINAL DRAWING  
DATE: 08/07/2018  
PROJECT #: 3632154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**S5.2**



TRUSS UPLIFT CONNECTOR SCHEDULE			
MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO END
535 LBS	H25A	PER WALL SHEATHING & FASTENERS	
1970 LBS	(2) H25A	C5% (END * B')	DT1Z
1245 LBS	H1520	C5% (END * B')	DT1Z
1720 LBS	(2) H1520	(2) C5% (END * B')	DT1Z
2490 LBS	(2) H1520	(2) C5% (END * B')	HT4
2365 LBS	LGT3-50255	(2) C5% (END * B')	HT4

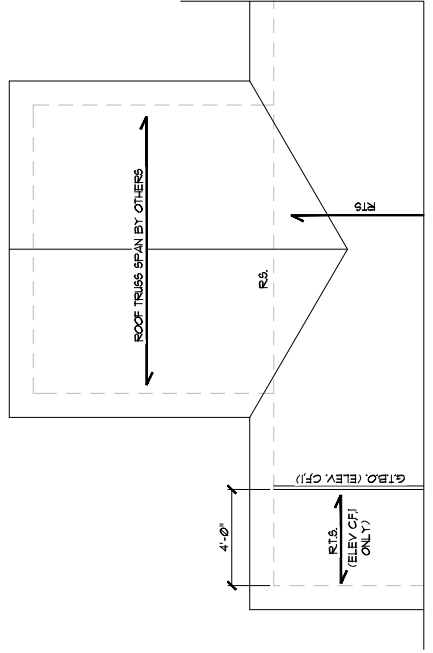
1. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.  
2. UPLIFT VALUES LISTED ARE FOR 84% # GRADE MEMBERS.  
3. UPLIFT VALUES LISTED ARE FOR 84% # GRADE MEMBERS AND TRUSSES TO TRUSS CONNECTIONS CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRODE THOSE LISTED ABOVE.  
4. CONTACT SUBMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: 1ST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP. INCL)

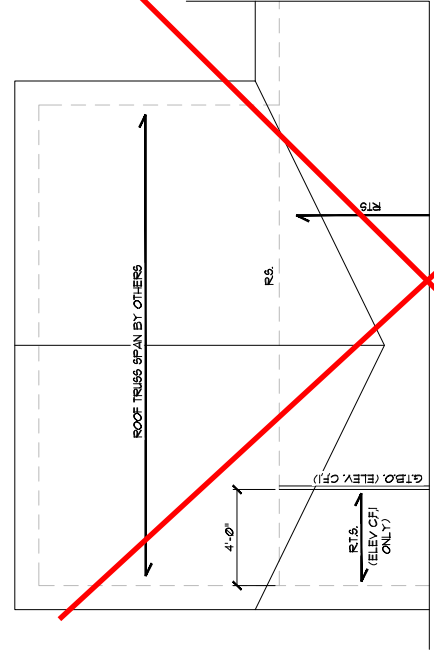
NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DOORER WALLS (TYP. INCL)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R602.10.11 WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2008 NRC. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

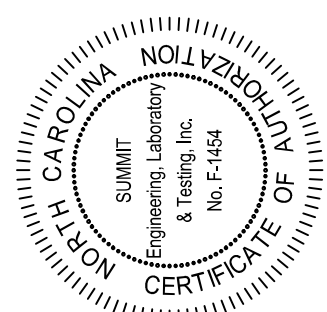
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOWGLAS HOMES. COMPLETED REVISED CONSTRUCTION PERMITS FOR THIS PROJECT. THE TRUSS MANUFACTURER SMITH DOWGLAS HOMES ENGINEERING & TESTING, P.C. ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SMITH ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED IN CONSTRUCTION UNLESS THE ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.



OPT. COVERED/SCREENED PORCH



OPT. EXTENDED COVERED/SCREENED PORCH  
R.S. = ROOF SUPPORT



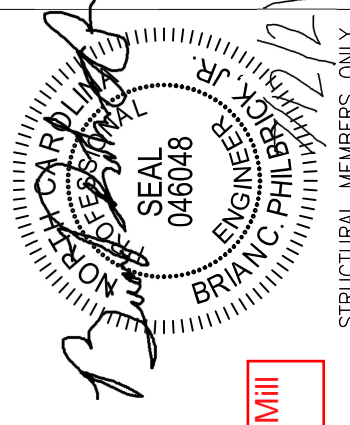
PROJECT: Vinyngs (LH)  
CLIENT: Smith Douglas Homes - Raleigh  
2520 Reliance Ave  
Apex, NC 27539

CURRENT DRAWING  
DATE: 10/17/2013  
SCALE: 1/8"=1'-0"  
PROJECT #: 3632226R2  
DRAWN BY: MEB  
CHECKED BY: CNB

ORIGINAL DRAWING  
DATE: 08/07/2013  
PROJECT #: 3632154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

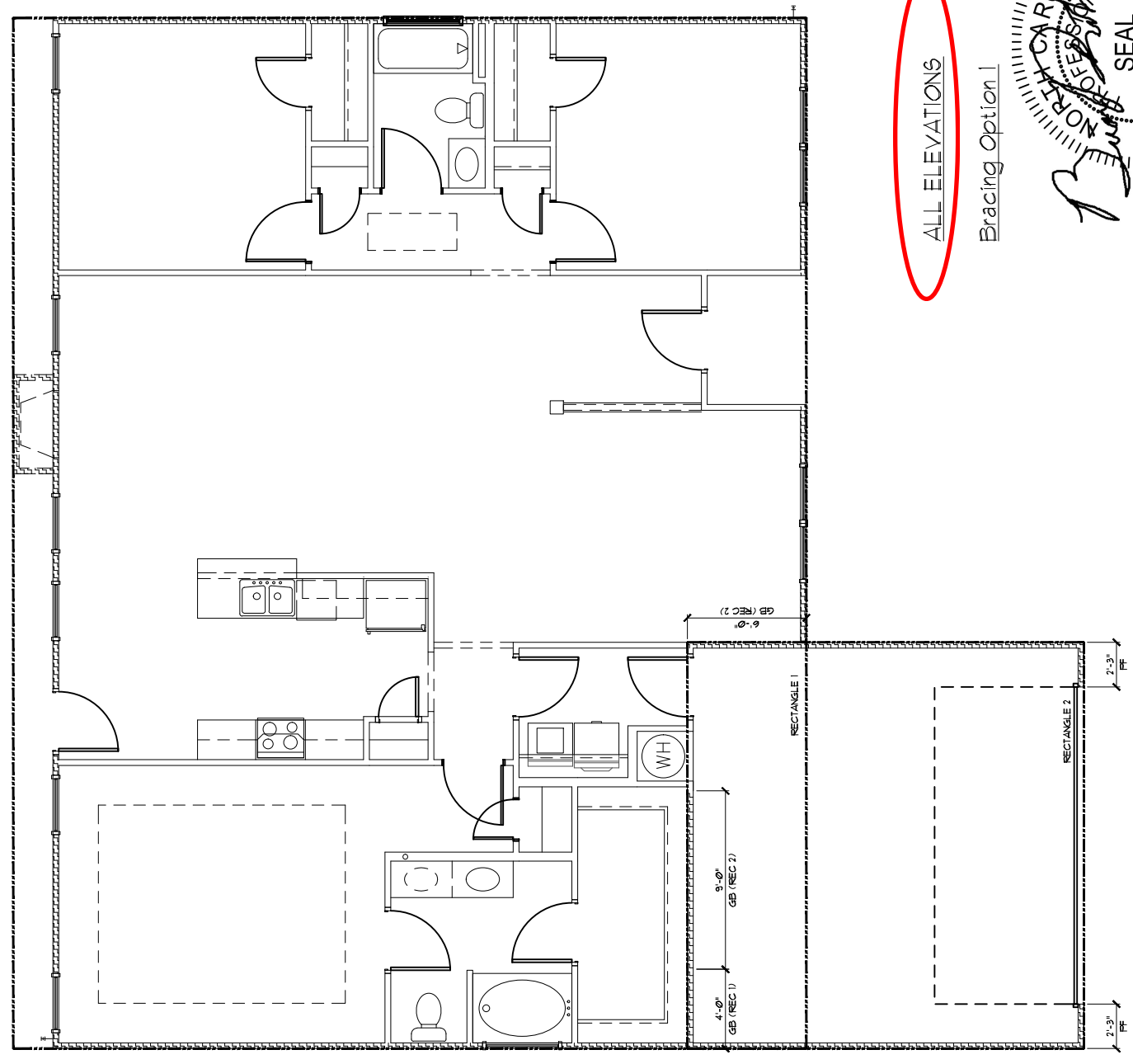
SHEET  
**S5.6**



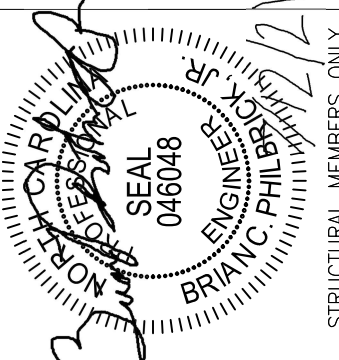
Cane Mill  
Lot 5

STRUCTURAL MEMBERS ONLY

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



ALL ELEVATIONS  
Bracing Option 1



Cane Mill  
Lot 5

STRUCTURAL MEMBERS ONLY

REQUIRED BRACED WALL PANEL CONNECTIONS		
METHOD	MIN. THICKNESS	REQUIRED CONNECTION
CS-WSP	WOOD PANEL 3/8"	• INTERMEDIATE SUPPORTS • 6d COMMON NAILS • 2" O.C.
GB	GYP/STU BOARD 1/2"	5d COOLER NAILS** • 1" O.C. 6d COMMON NAILS • 2" O.C.
WSP	WOOD PANEL 3/8"	• 6d COMMON NAILS • 2" O.C.
FF	WOOD PANEL 1/16"	PER FIGURE R602.021 PER FIGURE R602.021

BRACED WALL NOTES:

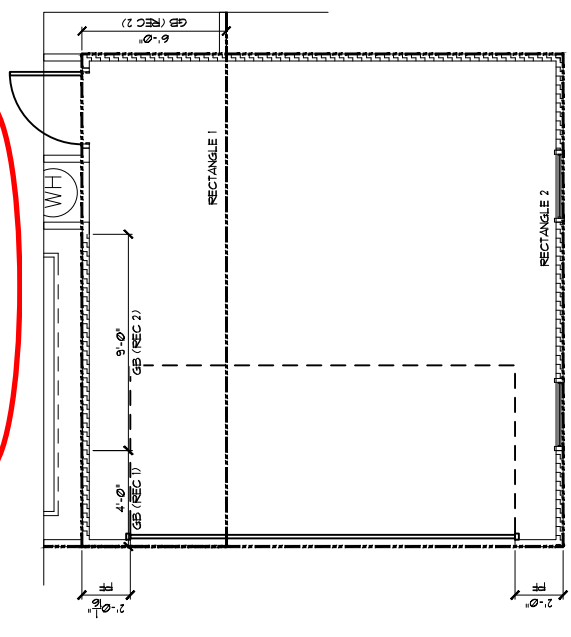
- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.
- WALLS ARE DESIGNED FOR WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH SECTION R602.10.4.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- BRACED WALL LENGTH SHALL BE PER TABLE R602.01.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED WITH 1/2" GYPSUM BOARD (UNO) AND INTERIOR WALLS SHALL BE SHEATHED WITH 5/8" GYPSUM BOARD (UNO) BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORING SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 7 FEET.
- FOR STEEL STUD WALLS WITH A LENGTH OF 48" OR LESS, SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.043 OF THE 2018 NCRC.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.044.
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.045.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.046.
- ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS:  
GB - GYPSUM BOARD  
UNO - UNFINISHED  
ENG - ENGINEERED SOLUTION  
FF - PORTAL FRAME

OPT. SIDE ENTRY

FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 1		
FRONT	REQUIRED	PROVIDED
RIGHT	14	15.0
REAR	5.8	34.0
LEFT	1.4	24.6
LEFT	1.4	28.3

FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2		
FRONT	REQUIRED	PROVIDED
RIGHT	3.1	17.0
REAR	3.0	4.5
LEFT	3.1	6.0



FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD: RECTANGLE 1		
FRONT	REQUIRED	PROVIDED
RIGHT	14.0	15.0
REAR	5.8	34.0
LEFT	1.4	24.6

FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD: RECTANGLE 2		
FRONT	REQUIRED	PROVIDED
RIGHT	3.0	17.0
REAR	3.1	4.5
LEFT	3.0	32.3

REAR WALL HOLD-DOWNS PER SECTION R602.04.4 AND FIGURE R602.04.4 OF THE 2018 NCRC.

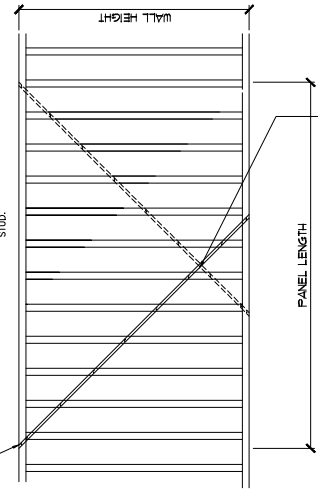
STRUCTURAL MEMBERS ONLY  
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

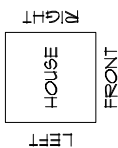
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			MIN. INTERMEDIATE	MAX. SPACING
CS-UWP	WOOD PANEL	3/8"	6d COMMON NAILS	12" O.C.
GB	WOOD PANEL	1/2"	5d COOLER NAILS	12" O.C.
UWP	WOOD PANEL	3/8"	6d COMMON NAILS	12" O.C.
FF	WOOD PANEL	1/8"	PER FIGURE R602.01	PER FIGURE R602.01

CONT. SIX (6) STRIPS AS SHOWN PER MANUFACTURER'S RECOMMENDATIONS  
MIN (1) 8d COMMON NAIL PER STUD, TOP AND BOTTOM PLATE

INSTALL IN 7" PANS OR OPPOSING WALLS TO AVOID BRACING WALL PLATE ON INTERIOR PRESURED STUD.



LIB BRACING  
1  
56.1



FIRST FLOOR BRACING (FT)	
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 1	
FRONT	5.8
RIGHT	1.4
REAR	5.8
LEFT	1.4

FIRST FLOOR BRACING (FT)	
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2	
FRONT	3.0
RIGHT	3.1
REAR	3.0
LEFT	3.1

OPT. SIDE ENTRY

FIRST FLOOR BRACING (FT)	
CONTINUOUS SHEATHING METHOD: RECTANGLE 1	
FRONT	5.8
RIGHT	1.4
REAR	5.8
LEFT	1.4

FIRST FLOOR BRACING (FT)	
CONTINUOUS SHEATHING METHOD: RECTANGLE 2	
FRONT	3.0
RIGHT	3.1
REAR	3.0
LEFT	3.1

INSTALL HOLD-DOWNS PER SECTION R602.04 AND FIGURE R602.05-10 OF THE 2018 NCR.

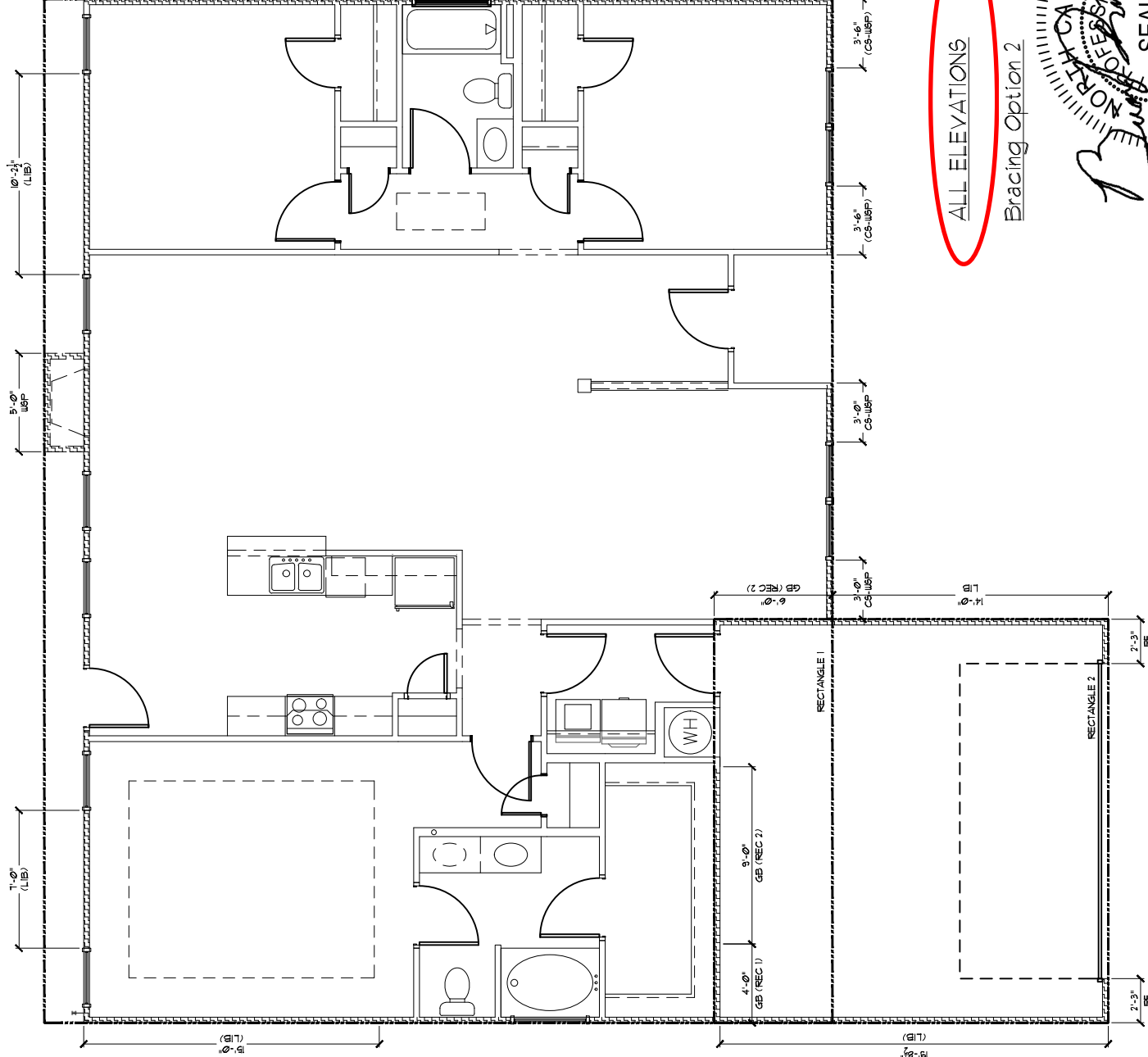
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

**FIRST FLOOR BRACING PLAN**

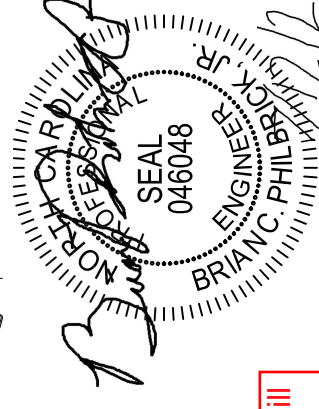
SCALE: 1/8" = 1'  
INSTALL HOLD-DOWNS PER SECTION R602.04 AND FIGURE R602.05-10 OF THE 2018 NCR.

SEE SHEET S7.0 FOR NOTES AND MORE INFORMATION



ALL ELEVATIONS

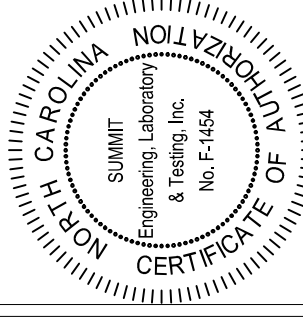
Bracing Option 2



Cane Mill Lot 5

STRUCTURAL MEMBERS ONLY

SHEET **S7.1**



PROJECT  
Yinings (LH)  
First Floor Bracing  
CLIENT  
Smith Douglas Homes - Raleigh  
2520 Reliance Ave  
Apex, NC 27539

CURRENT DRAWING

DATE: 10/17/2019

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

PROJECT #: 3832226R2

DRAWN BY: MEB

CHECKED BY: CNB

ORIGINAL DRAWING

DATE PROJECT #

08/07/2018 3832154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

**GENERAL STRUCTURAL NOTES:**

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

**FOUNDATIONS:**

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

**CONCRETE REINFORCEMENT:**

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual 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 C1116, any local building code requirements, and shall meet or exceed the current industry standard.
- Steel Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

**WOOD FRAMING:**

- Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Spruce-Pine-Fir (SPF) #2.
- LVL or PSL engineered wood shall have the following minimum design values:
  - E = 1,900,000 psi
  - Fb = 2600 psi
  - Fv = 285 psi
  - Fc = 700 psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- All beams shall have full bearing on supporting framing members unless otherwise noted.
- Exterior and load bearing stud walls are to be 2x4 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 with (3)10d nails @ 24" O.C.
- Fitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered @24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, unless noted otherwise.

**WOOD TRUSSES:**

- The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
- 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 by the state Building Code.
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

**STRUCTURAL FIBERBOARD PANELS:**

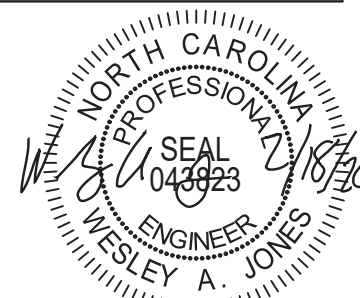
- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan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

**EXTERIOR WOOD FRAMED DECKS:**

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

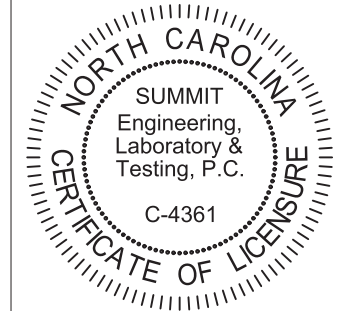
**STRUCTURAL STEEL:**

- 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 shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.



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PROJECT  
**Standard Details**  
**Notes and Specifications**  
CLIENT  
**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

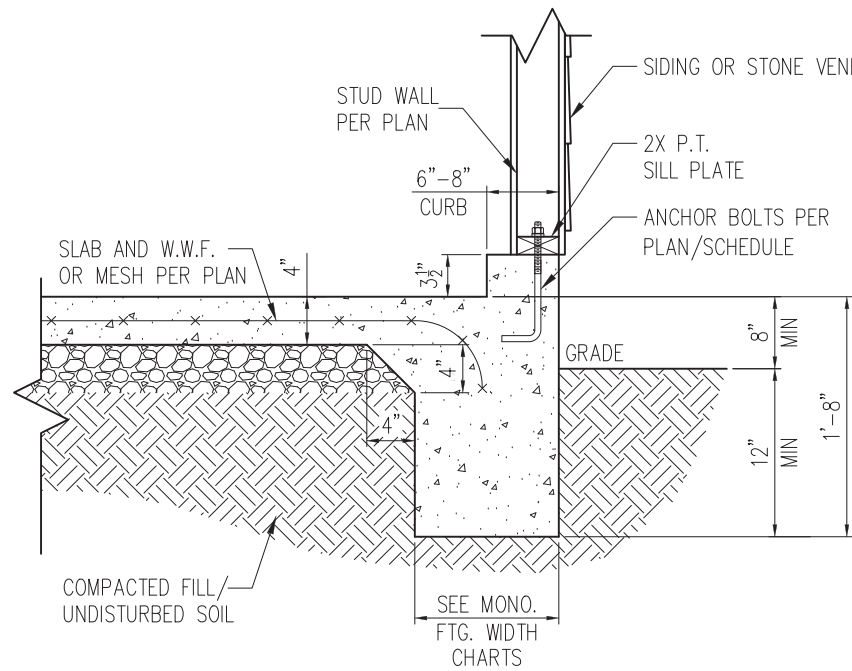
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NO.	DATE	PROJECT #
0	1/7/16	3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

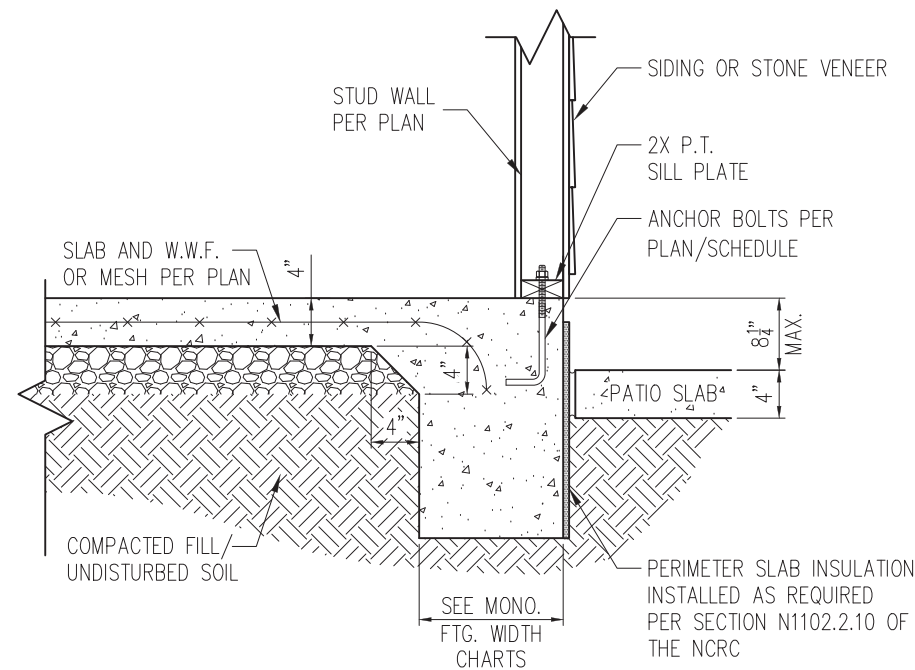
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**CS2**



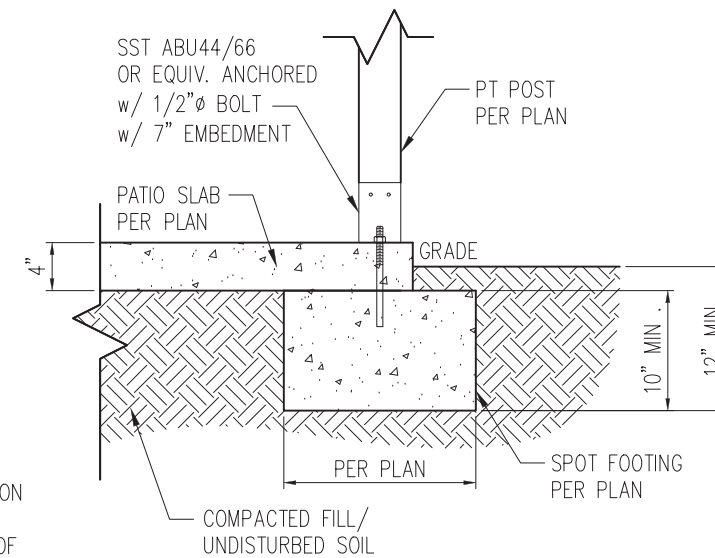
STANDARD - SIDING/STONE

1 TYP. GARAGE CURB DETAIL  
D1m 3/4" = 1'-0"

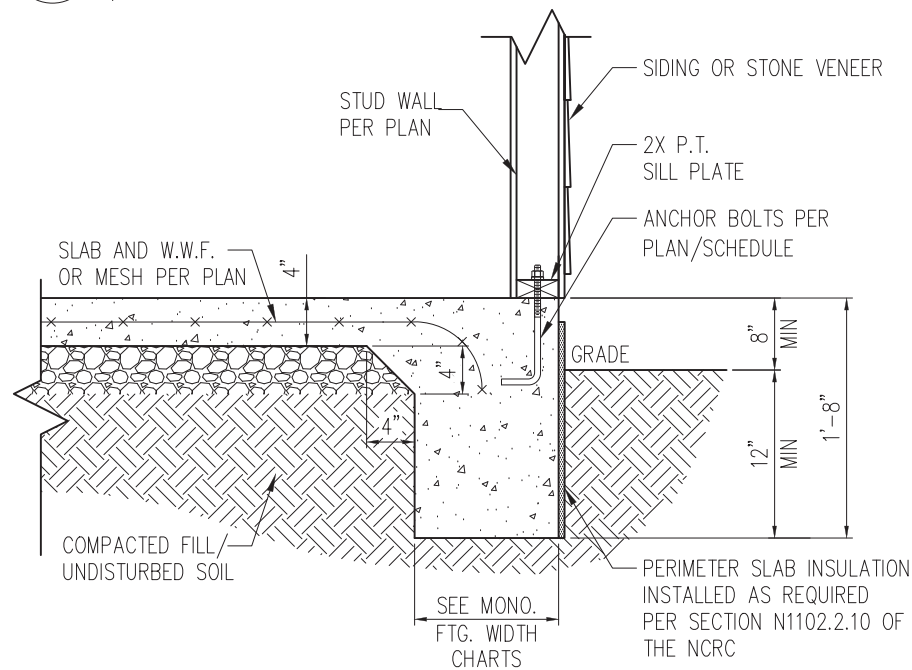


STANDARD - SIDING/STONE

2 PATIO SLAB DETAIL  
D1m 3/4" = 1'-0"

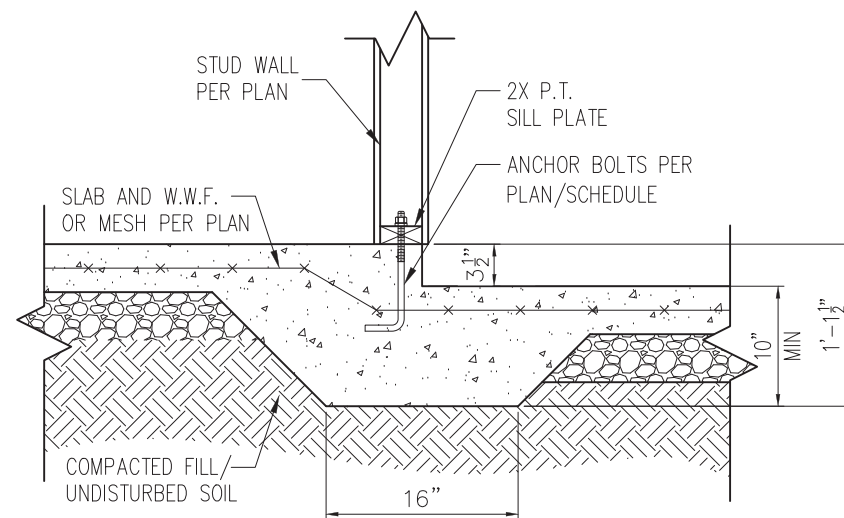


2A COVERED PATIO DETAIL  
D1m 3/4" = 1'-0"



STANDARD - SIDING/STONE

3 TYP. SLAB DETAIL  
D1m 3/4" = 1'-0"



4 STEP IN GARAGE  
D1m 3/4" = 1'-0"

WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING EMBEDMENT	INTERIOR WALL	EXTERIOR WALL
1/2" Ø A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
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 w/ HIT HY150 ADHESIVE	7"	6'-0"	YES	YES

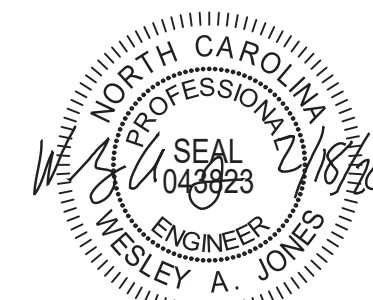
NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

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"

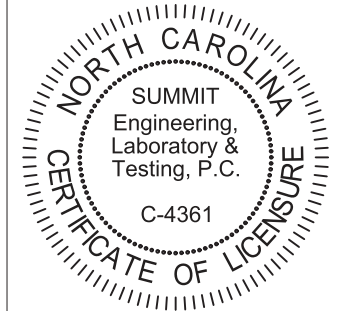
\*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC FOOTING WIDTH FOR BRICK SUPPORT

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



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PROJECT  
Standard Details  
Monolithic Slab Details  
CLIENT  
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

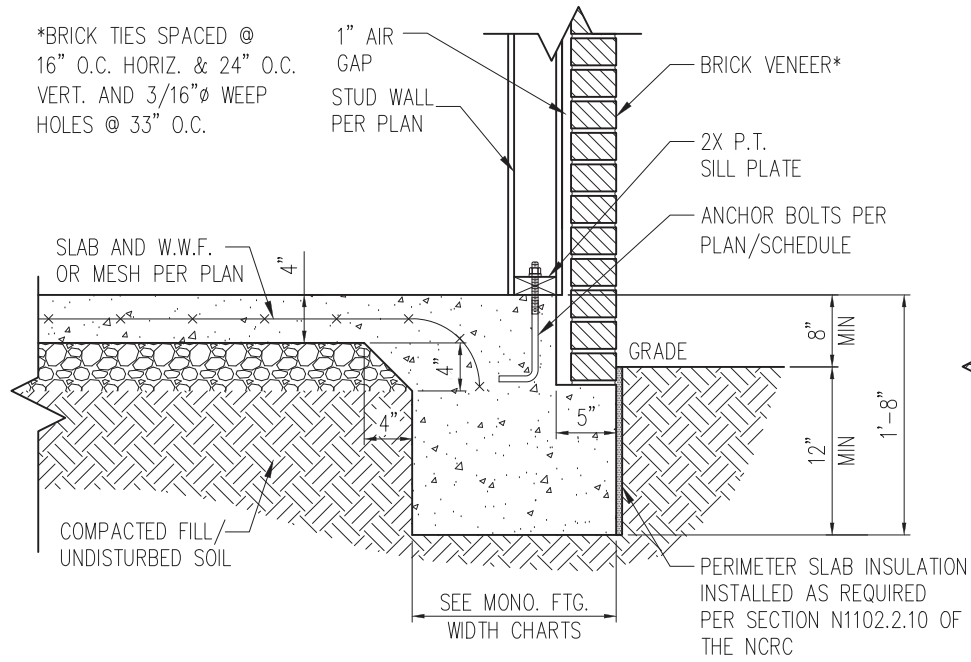
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NO. DATE PROJECT #  
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

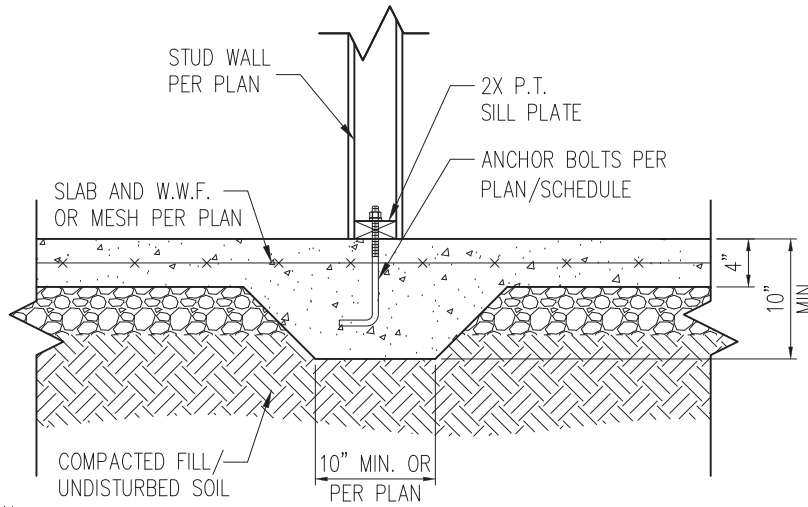
SHEET

D1m

\*BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT. AND 3/16"Ø WEEP HOLES @ 33" O.C.

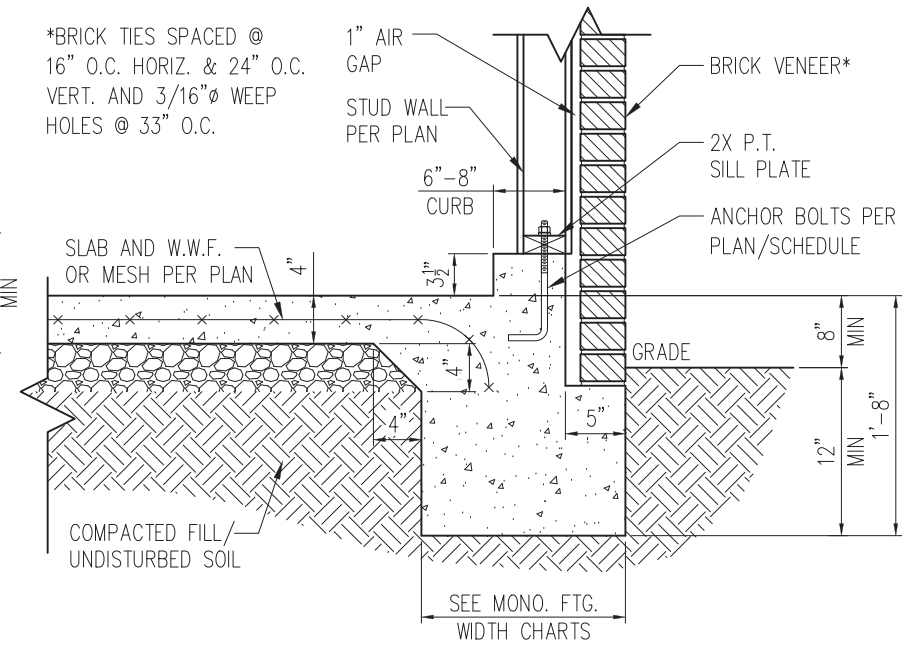


STANDARD - BRICK



3 TYP. THICKENED SLAB DETAIL  
D2m 3/4" = 1'-0"

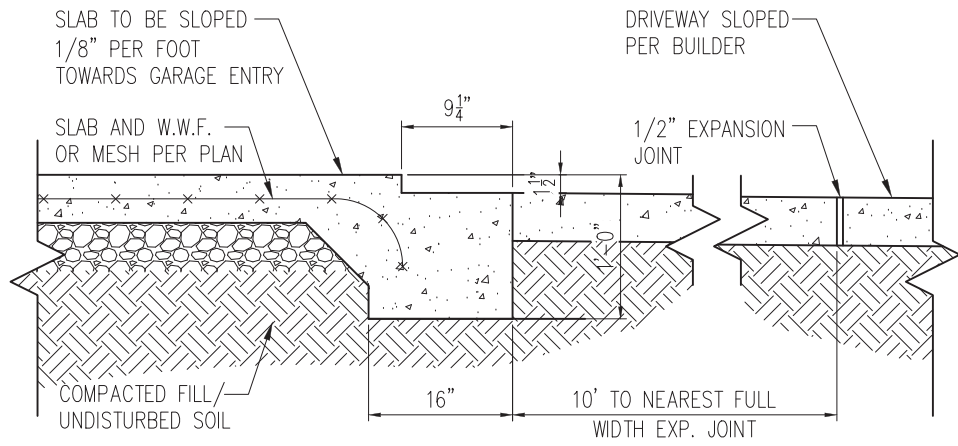
\*BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT. AND 3/16"Ø WEEP HOLES @ 33" O.C.



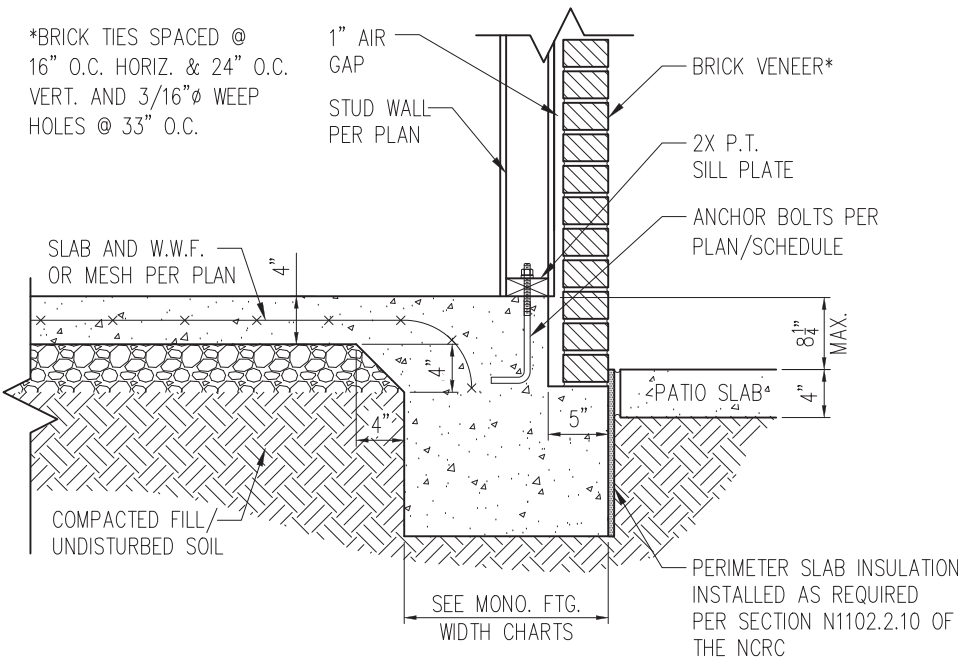
STANDARD - BRICK

5 TYP. GARAGE CURB DETAIL W/ BRICK VENEER  
D2m 3/4" = 1'-0"

1 TYP. SLAB DETAIL W/ BRICK VENEER  
D2m 3/4" = 1'-0"



2 SLAB AT GARAGE DOOR  
D2m 3/4" = 1'-0"



STANDARD - BRICK

4 PATIO SLAB DETAIL W/ BRICK VENEER  
D2m 3/4" = 1'-0"

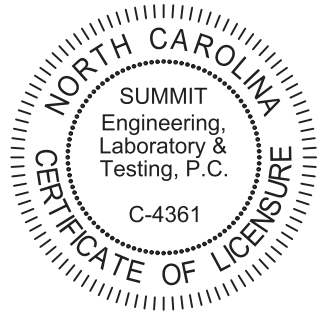
NOTES:

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



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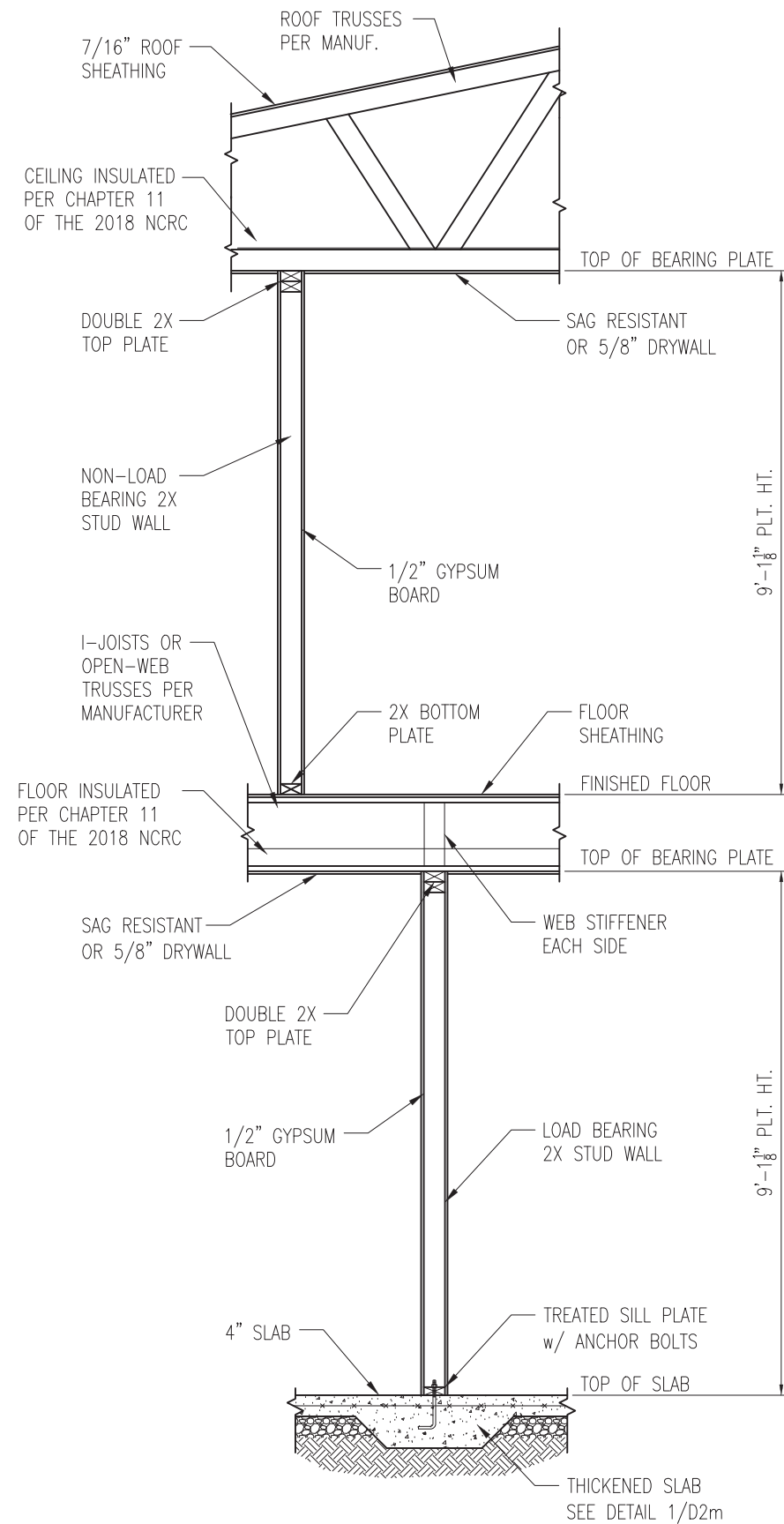
PROJECT  
**Standard Details**  
**Monolithic Slab Details**  
CLIENT  
**Smith Douglas Homes**  
110 Village Trail, Suite 215  
Woodstock, GA 30188

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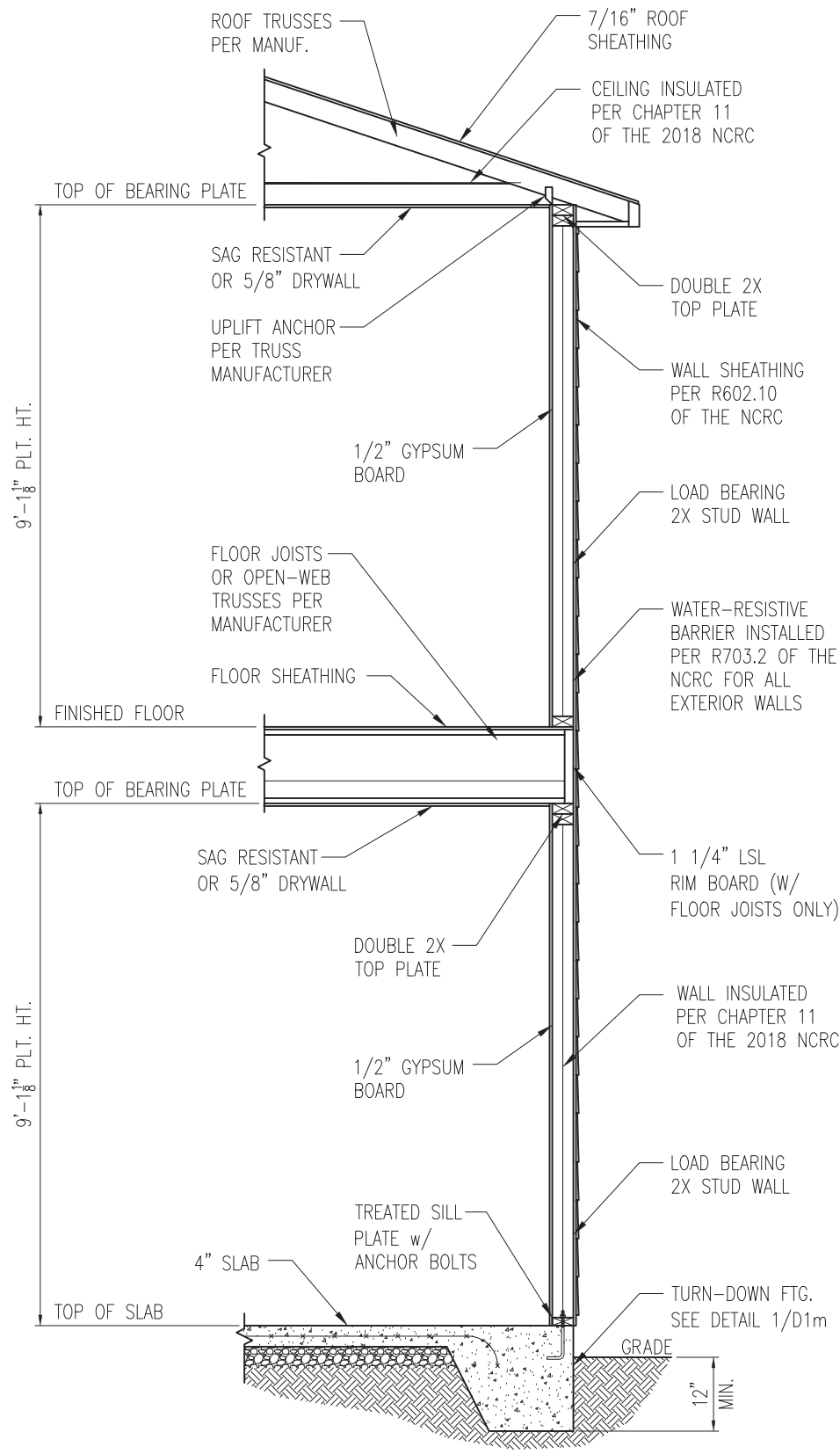
ORIGINAL DRAWING  
NO. DATE PROJECT #  
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**D2m**



1 TYP. INTERIOR LOAD BEARING WALL SECTION  
 D3m 3/4" = 1'-0"

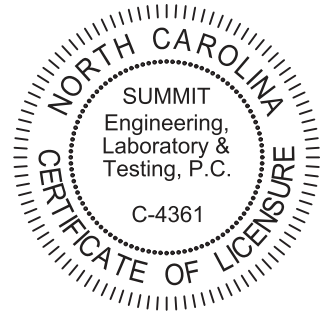


2 TYP. EXTERIOR LOAD BEARING WALL SECTION  
 D3m 3/4" = 1'-0"  
 -SIMILAR w/ BRICK AND STONE  
 -BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT.  
 -MIN. 3/16" Ø WEEP HOLES @ 33" O.C.

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



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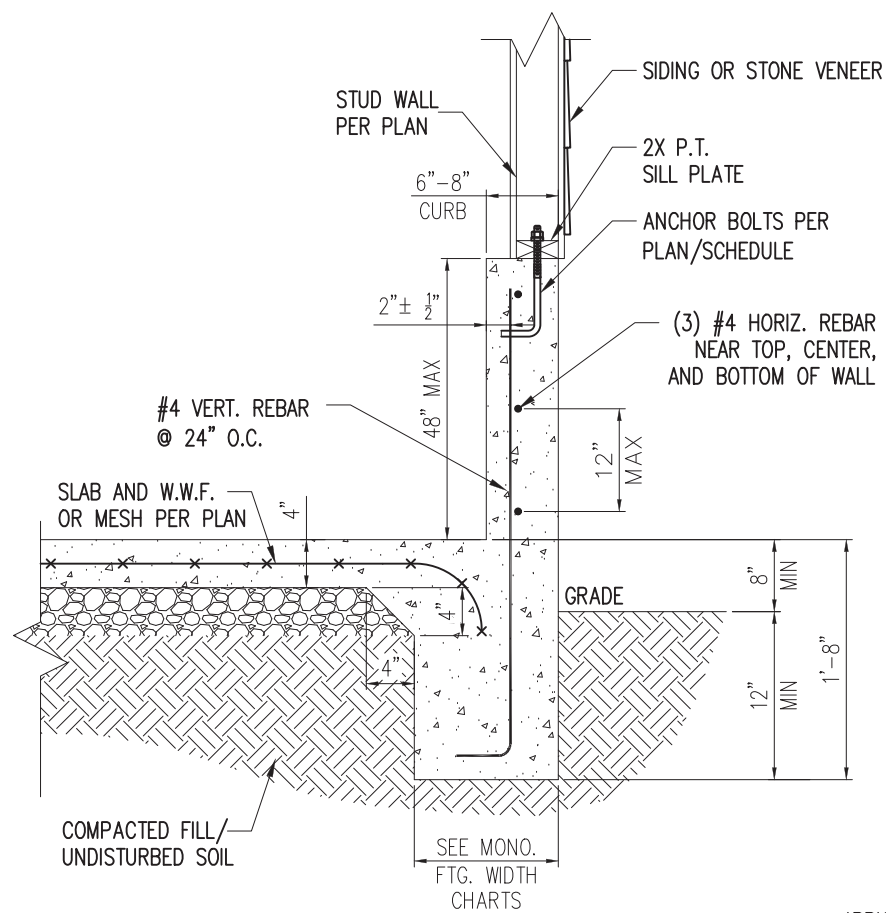
PROJECT  
**Standard Details**  
**Monolithic Slab Details**  
 CLIENT  
**Smith Douglas Homes**  
 110 Village Trail, Suite 215  
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CURRENT DRAWING  
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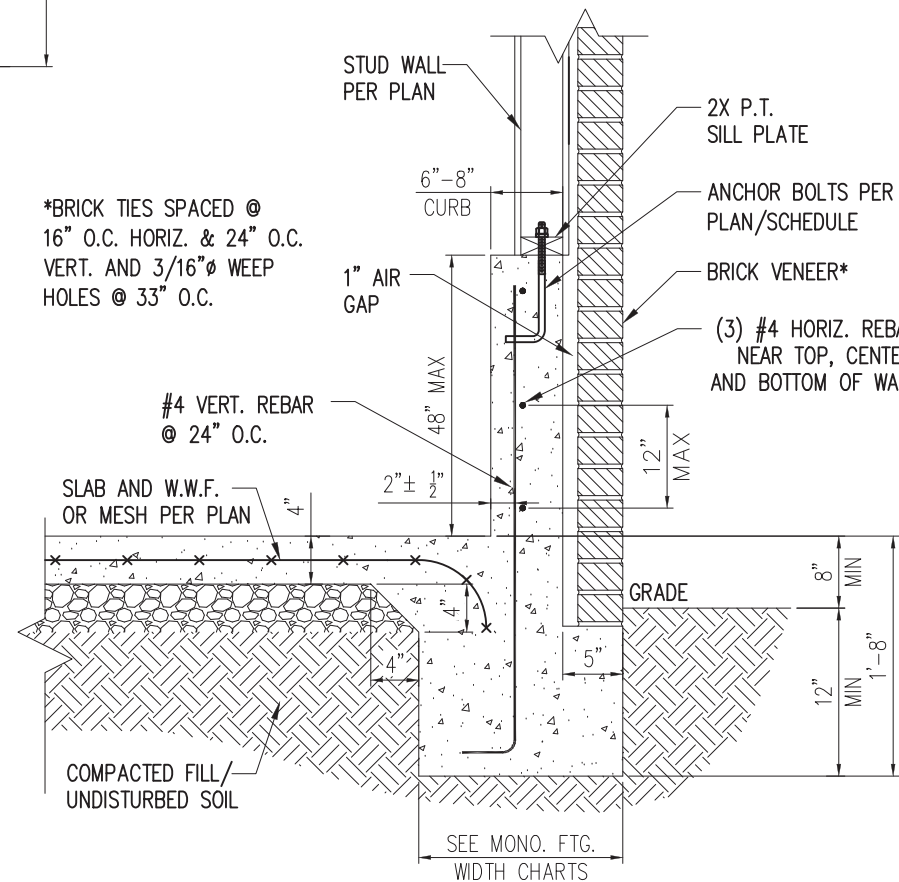
SHEET  
**D3m**



STANDARD - SIDING/STONE

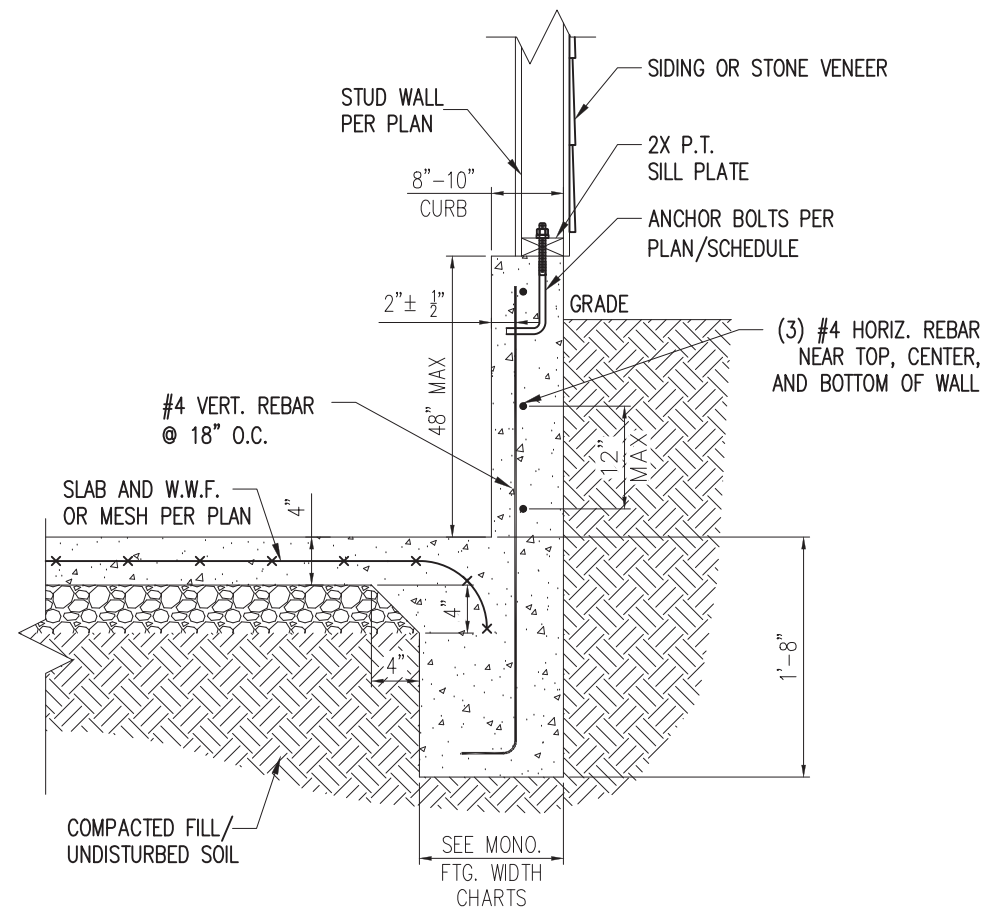
1 EXTENDED GARAGE CURB DETAIL  
D4m NTS

\*BRICK TIES SPACED @  
16" O.C. HORIZ. & 24" O.C.  
VERT. AND 3/16" Ø WEEP  
HOLES @ 33" O.C.



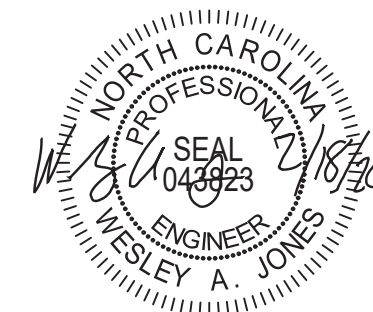
STANDARD - BRICK

3 EXTENDED GARAGE CURB DETAIL  
W/ BRICK VENEER  
D4m NTS



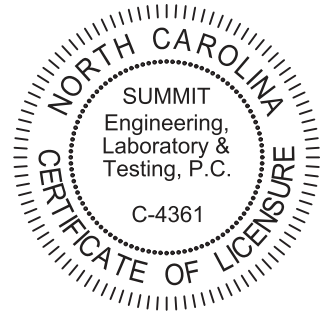
STANDARD - SIDING/STONE

2 EXTENDED GARAGE CURB DETAIL  
W/ UNBALANCED FILL  
D4m NTS



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PROJECT  
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CURRENT DRAWING  
DATE: 2/18/20

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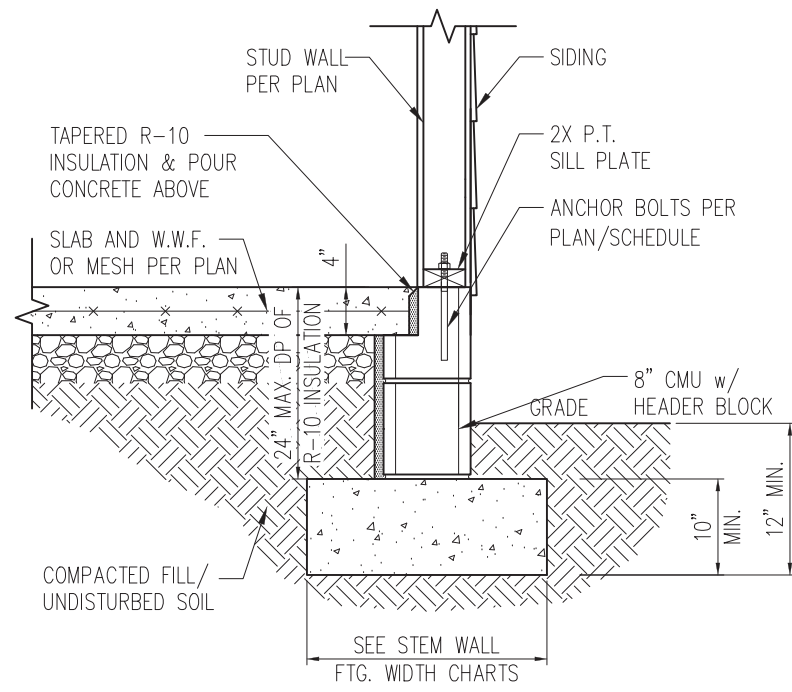
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NO. DATE PROJECT #  
0 1/7/16 3832

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COMPLETE LIST OF REVISIONS

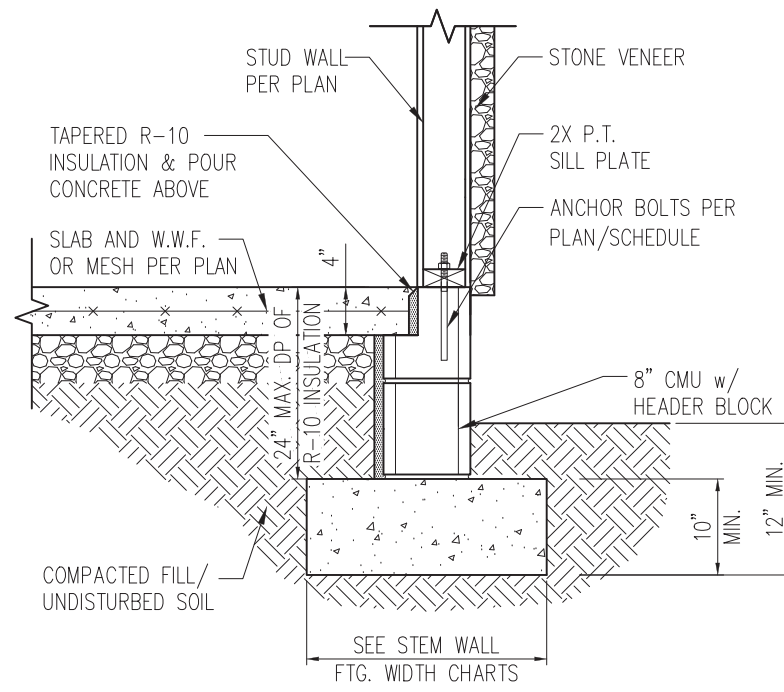
SHEET

D4m

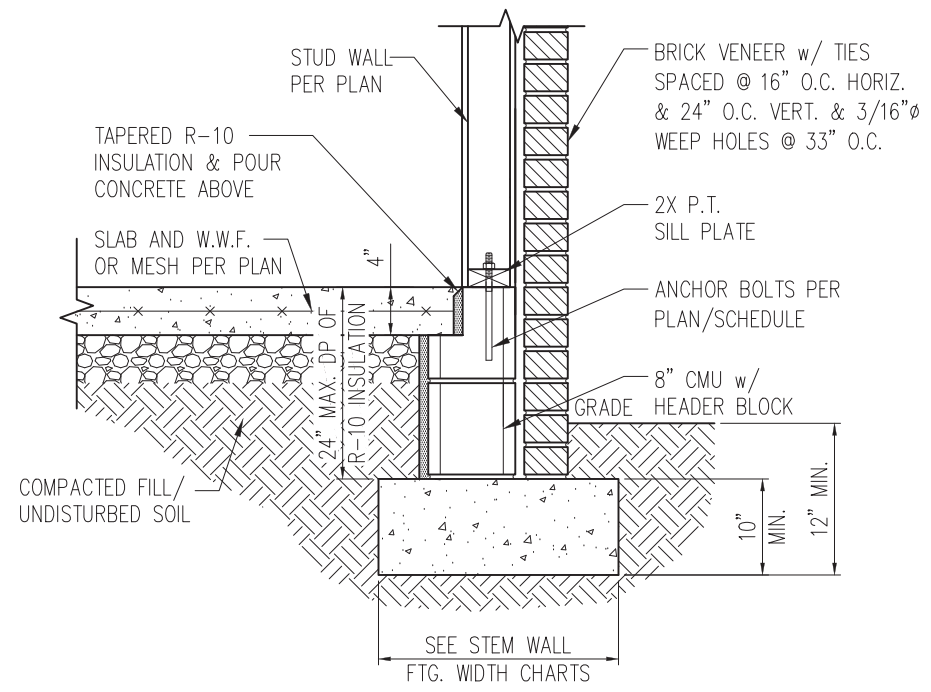




STANDARD - SIDING

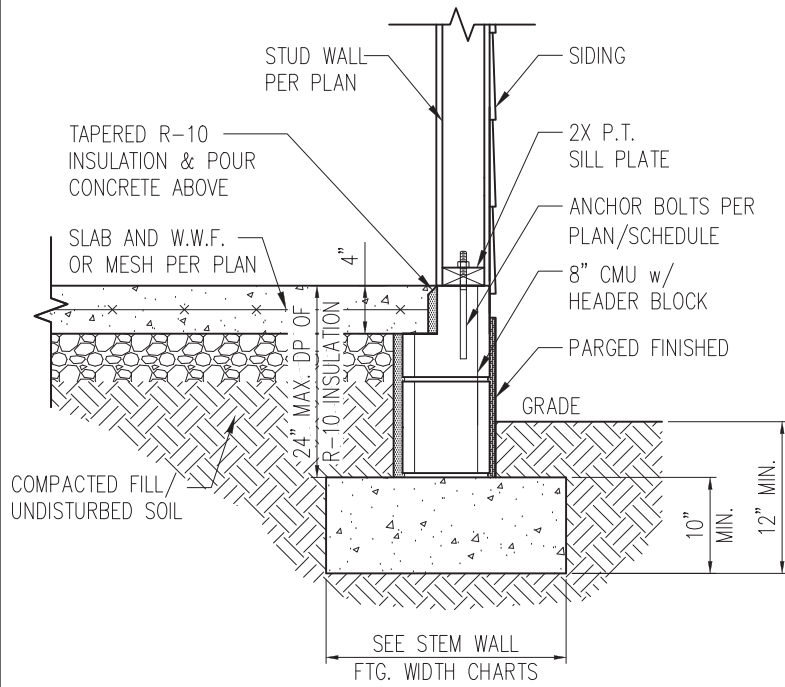


STANDARD - STONE

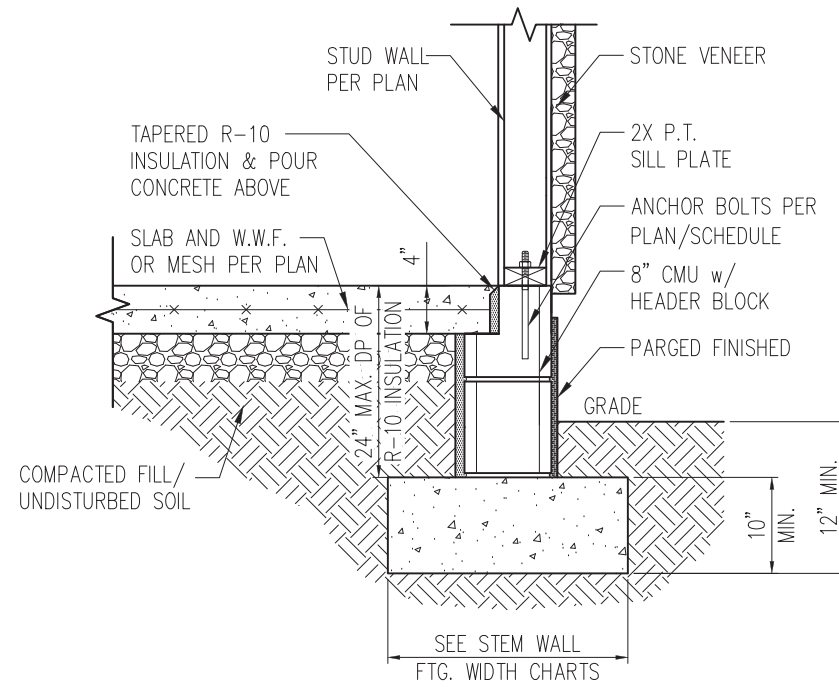


STANDARD - BRICK

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



STANDARD - SIDING



STANDARD - STONE

1a STEM WALL DETAIL w/ PARGED FINISH  
D1s 3/4" = 1'-0"

STEM WALL FOOTING WIDTH

# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY		
	1500 PSF	2000 PSF	2500 PSF
1 STORY - STD.	16"	16"	16"
1 STORY - BRICK VENEER	21"*	21"*	21"*
2 STORY - STD.	20"	16"	16"
2 STORY - BRICK VENEER	25"*	21"*	21"*

\*5" BRICK LEDGE HAS BEEN ADDED TO THE STEM WALL FOOTING WIDTH FOR BRICK SUPPORT

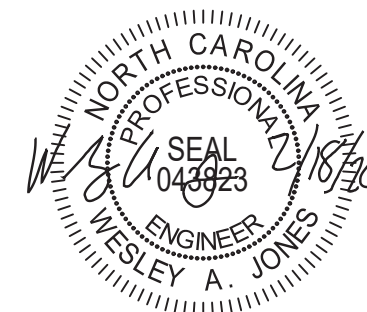
WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING EMBEDMENT	INTERIOR WALL	EXTERIOR WALL
1/2" A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
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" HILTI THREADED ROD w/ HIT HY150 ADHESIVE	7"	6'-0"	YES	YES

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

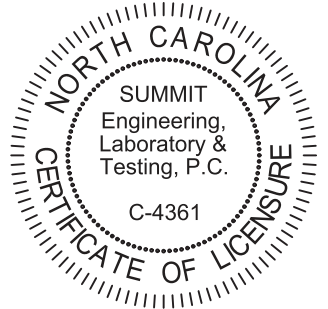
NOTES:

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



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PROJECT  
**Standard Details**  
**Stemwall Details**  
CLIENT  
Smith Douglas Homes  
110 Village Trail, Suite 215  
Woodstock, GA 30188

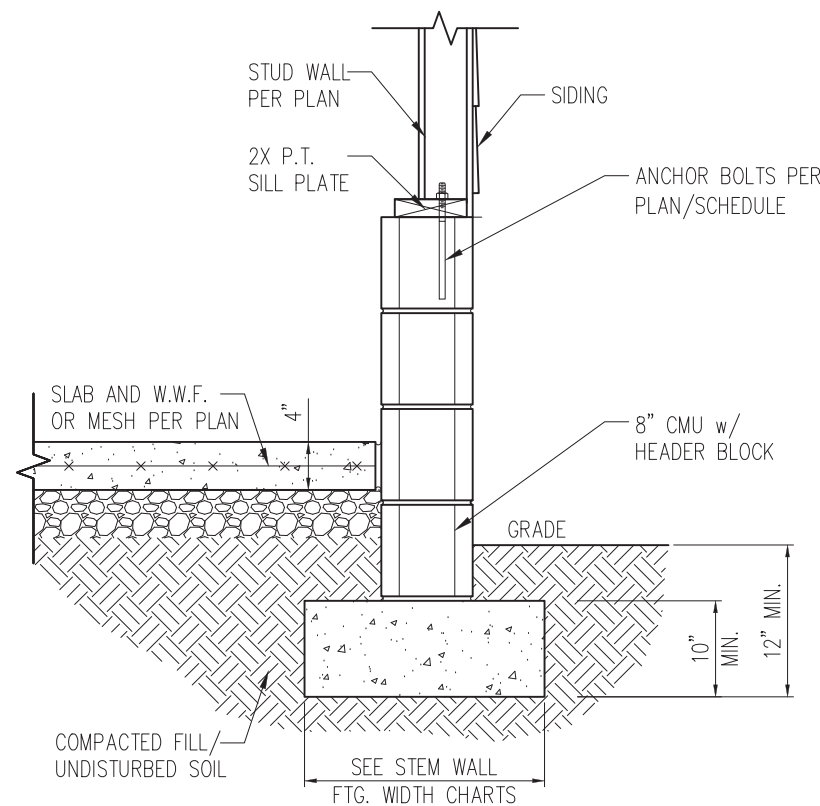
CURRENT DRAWING  
DATE: 2/18/20  
SCALE: NTS  
PROJECT #: 3832  
DRAWN BY: LBV  
CHECKED BY: WAJ

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

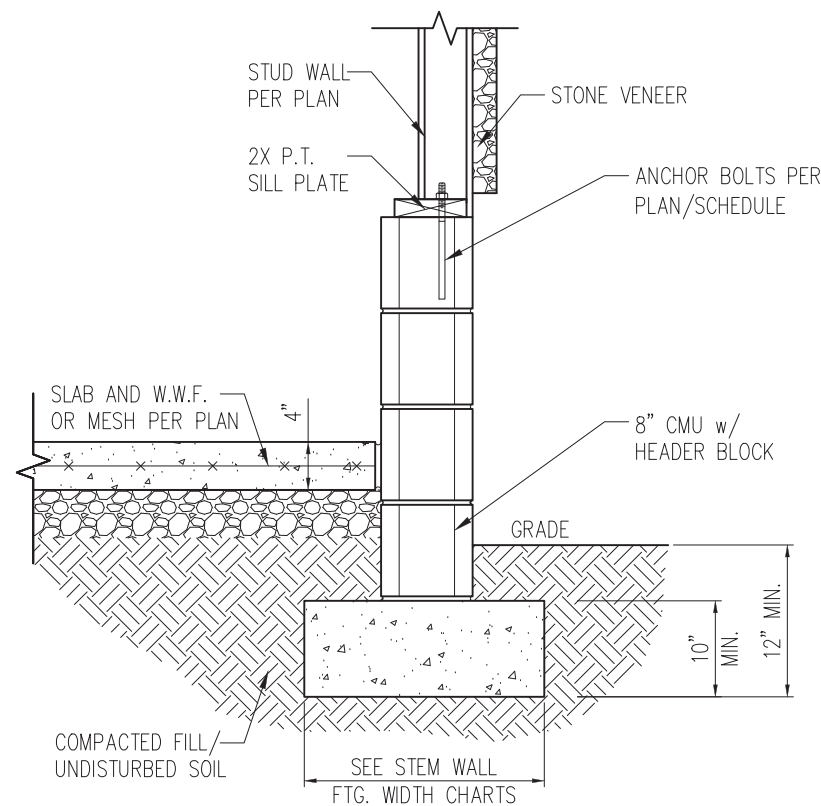
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

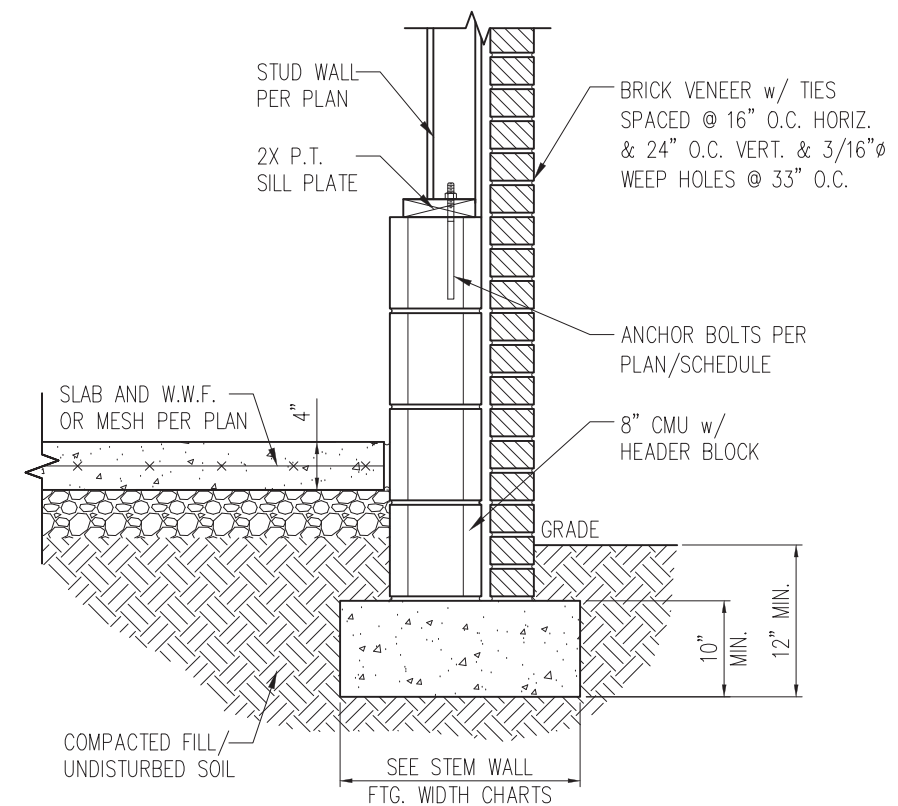
**D1s**



STANDARD - SIDING

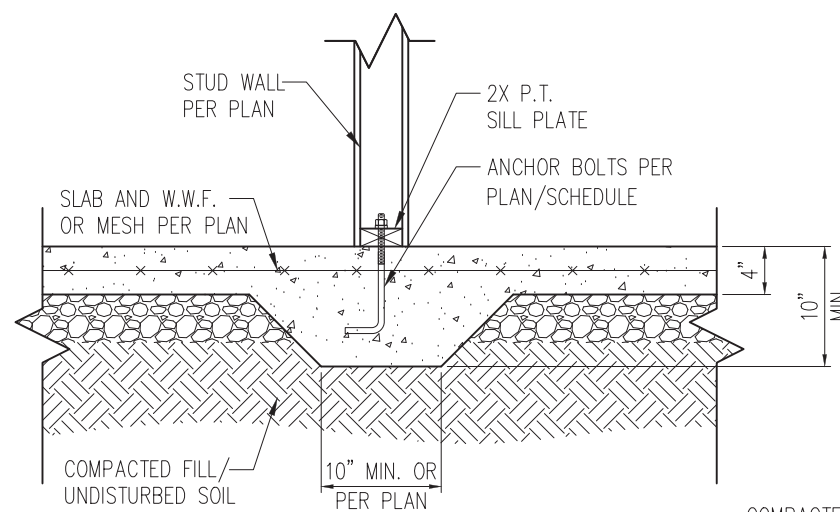


STANDARD - STONE

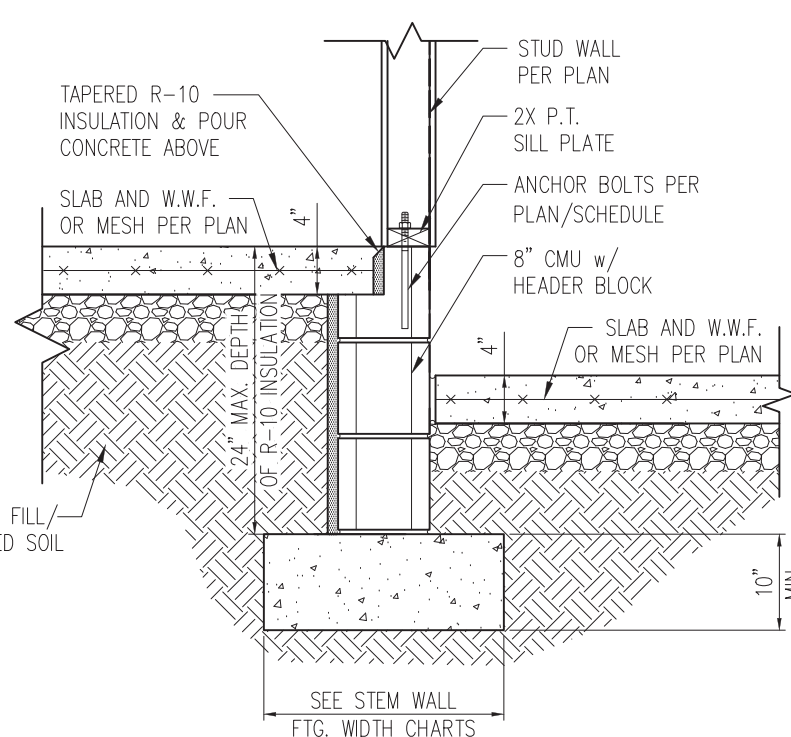


STANDARD - BRICK

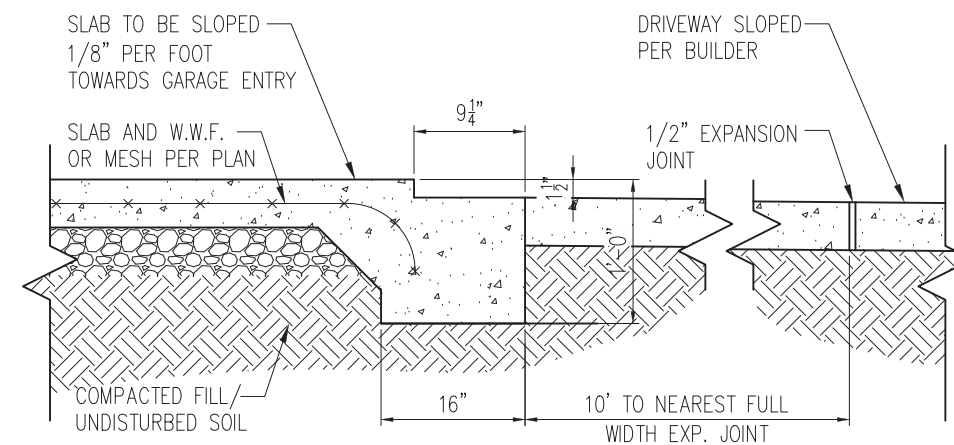
1 TYP. GARAGE CURB DETAIL  
D2s 3/4" = 1'-0"



2 TYP. THICKENED SLAB DETAIL  
D2s 3/4" = 1'-0"

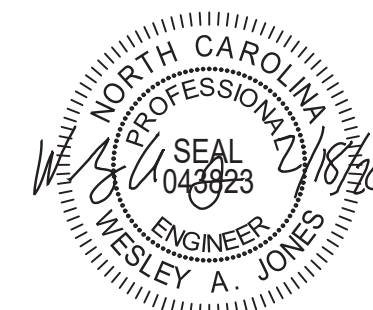


3 HOUSE/GARAGE WALL DETAIL  
D2s 3/4" = 1'-0"



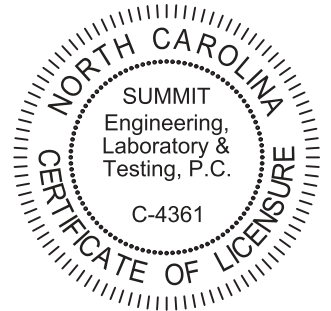
4 SLAB AT GARAGE DOOR  
D2s 3/4" = 1'-0"

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



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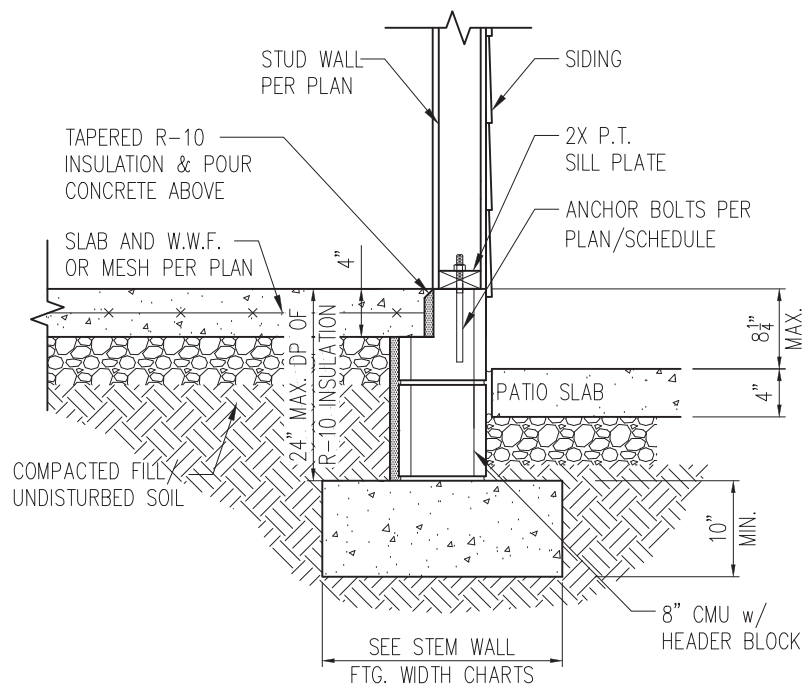


PROJECT  
**Standard Details**  
**Stemwall Details**  
CLIENT  
Smith Douglas Homes  
110 Village Trail, Suite 215  
Woodstock, GA 30188

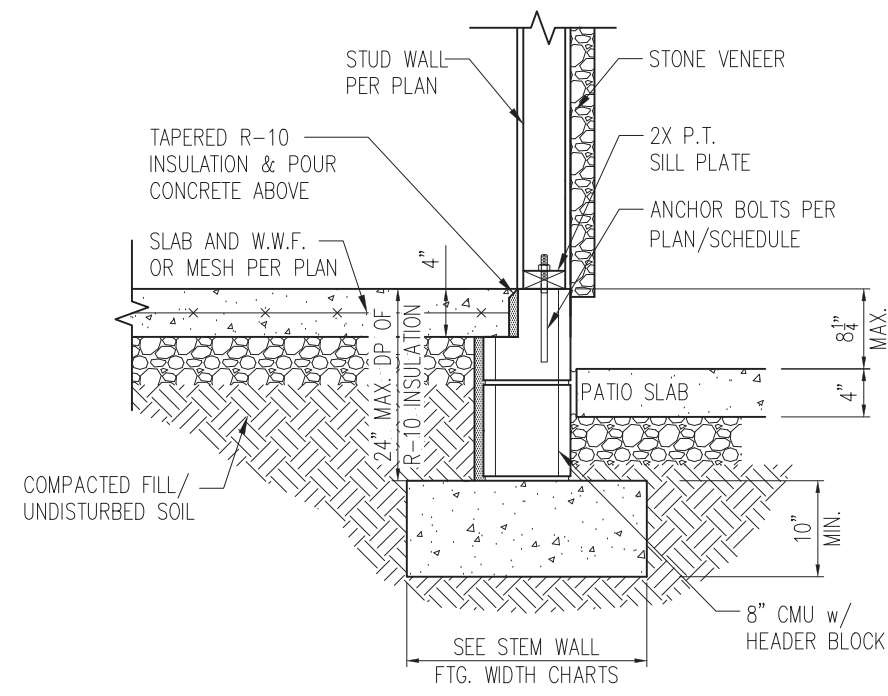
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DATE: 2/18/20		
SCALE: NTS		
PROJECT #: 3832		
DRAWN BY: LBV		
CHECKED BY: WAJ		
ORIGINAL DRAWING		
NO.	DATE	PROJECT #
0	1/7/16	3832

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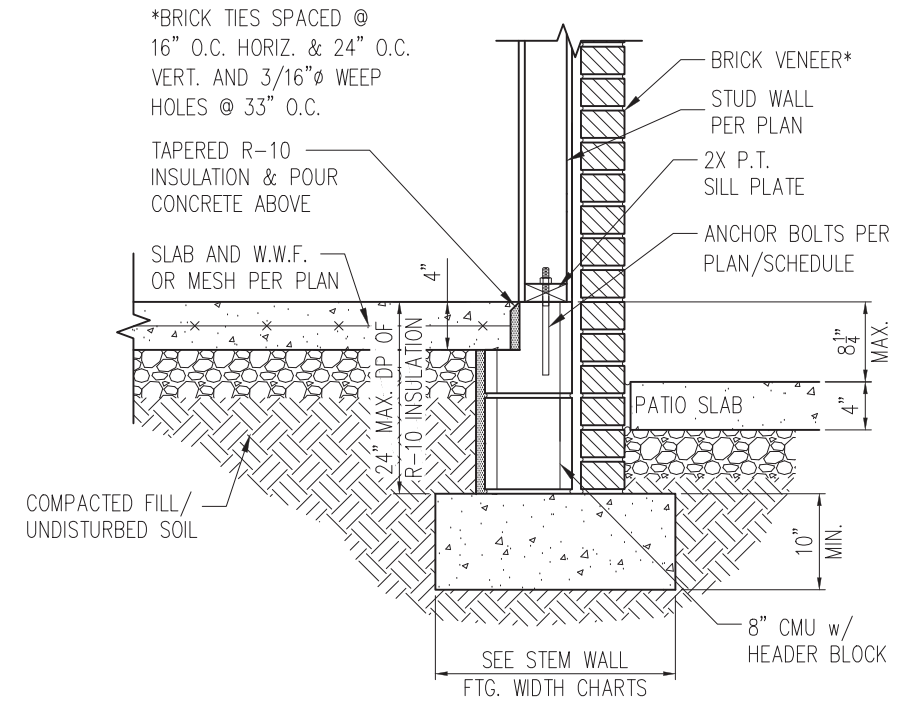
SHEET  
**D2s**



STANDARD - SIDING

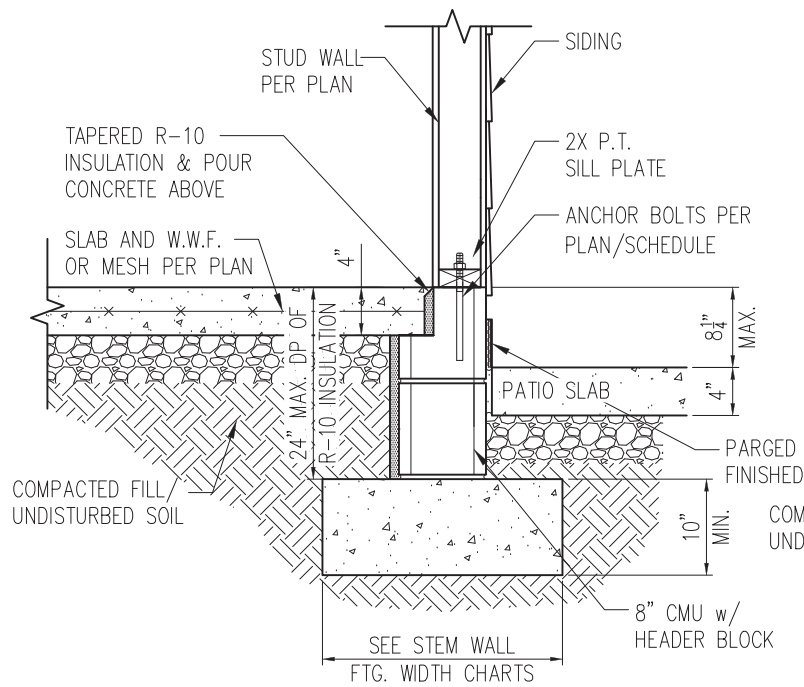


STANDARD - STONE

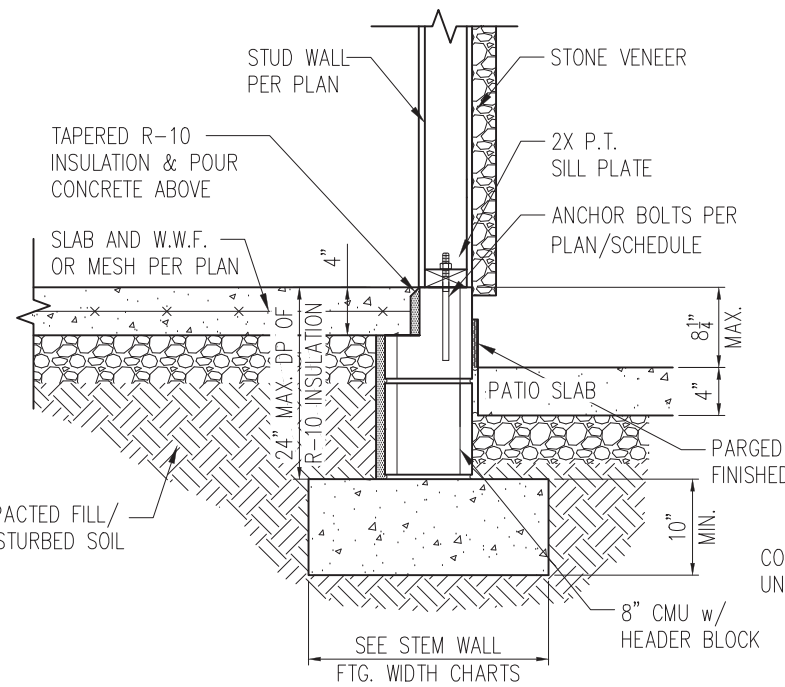


STANDARD - BRICK

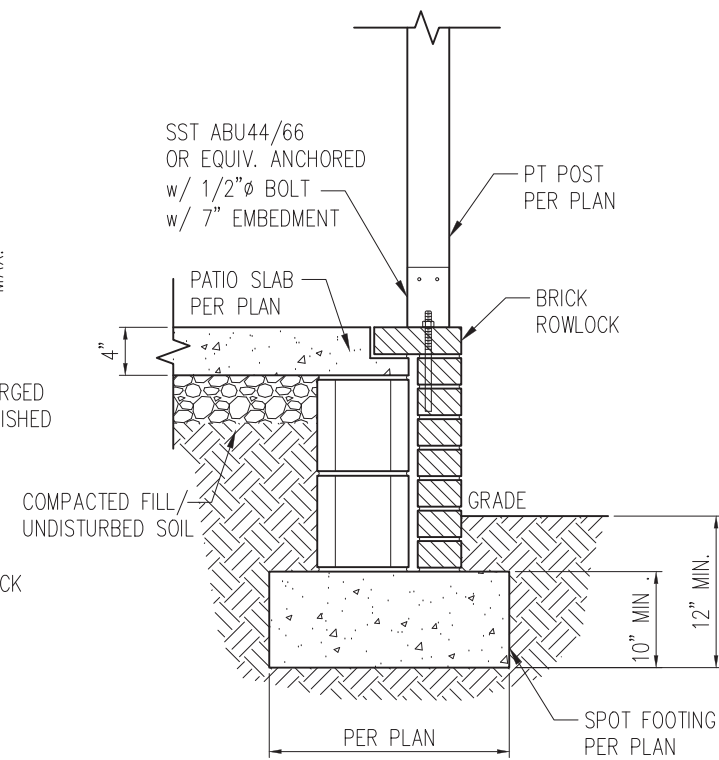
1 PORCH SLAB DETAIL  
D3s 3/4" = 1'-0"



STANDARD - SIDING

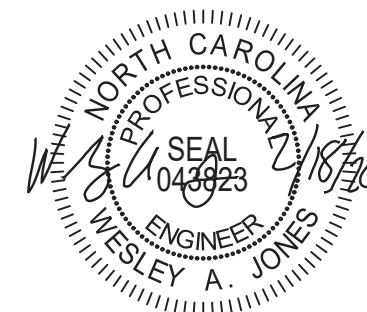


STANDARD - STONE



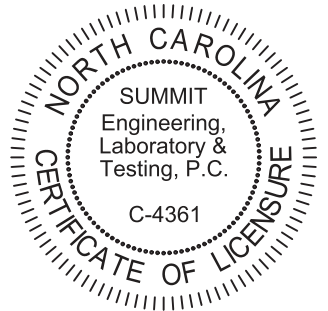
2 COVERED PORCH DETAIL  
D3s 3/4" = 1'-0"

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



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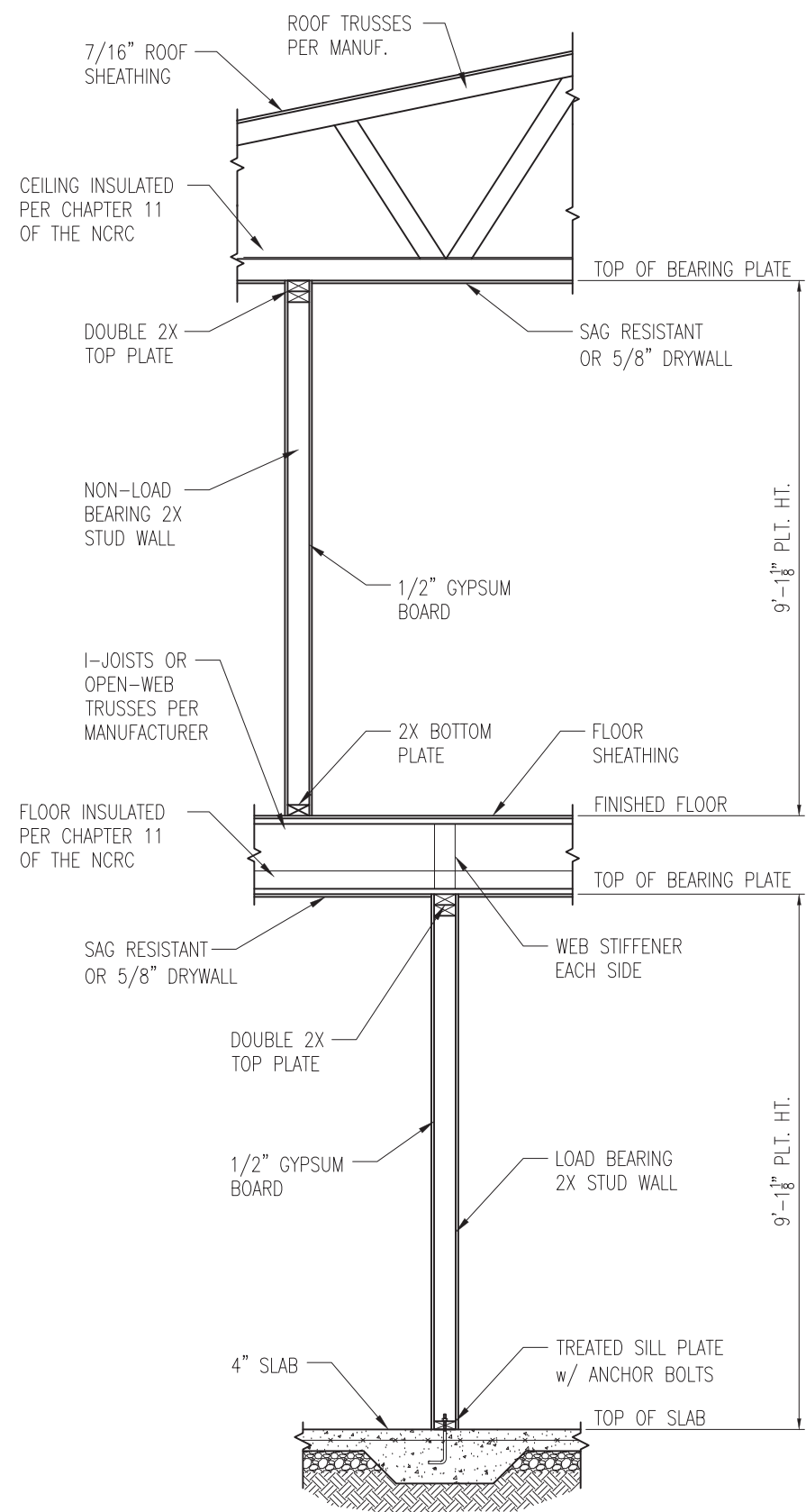
PROJECT  
**Standard Details**  
**Stemwall Details**  
CLIENT  
**Smith Douglas Homes**  
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PROJECT #: 3832  
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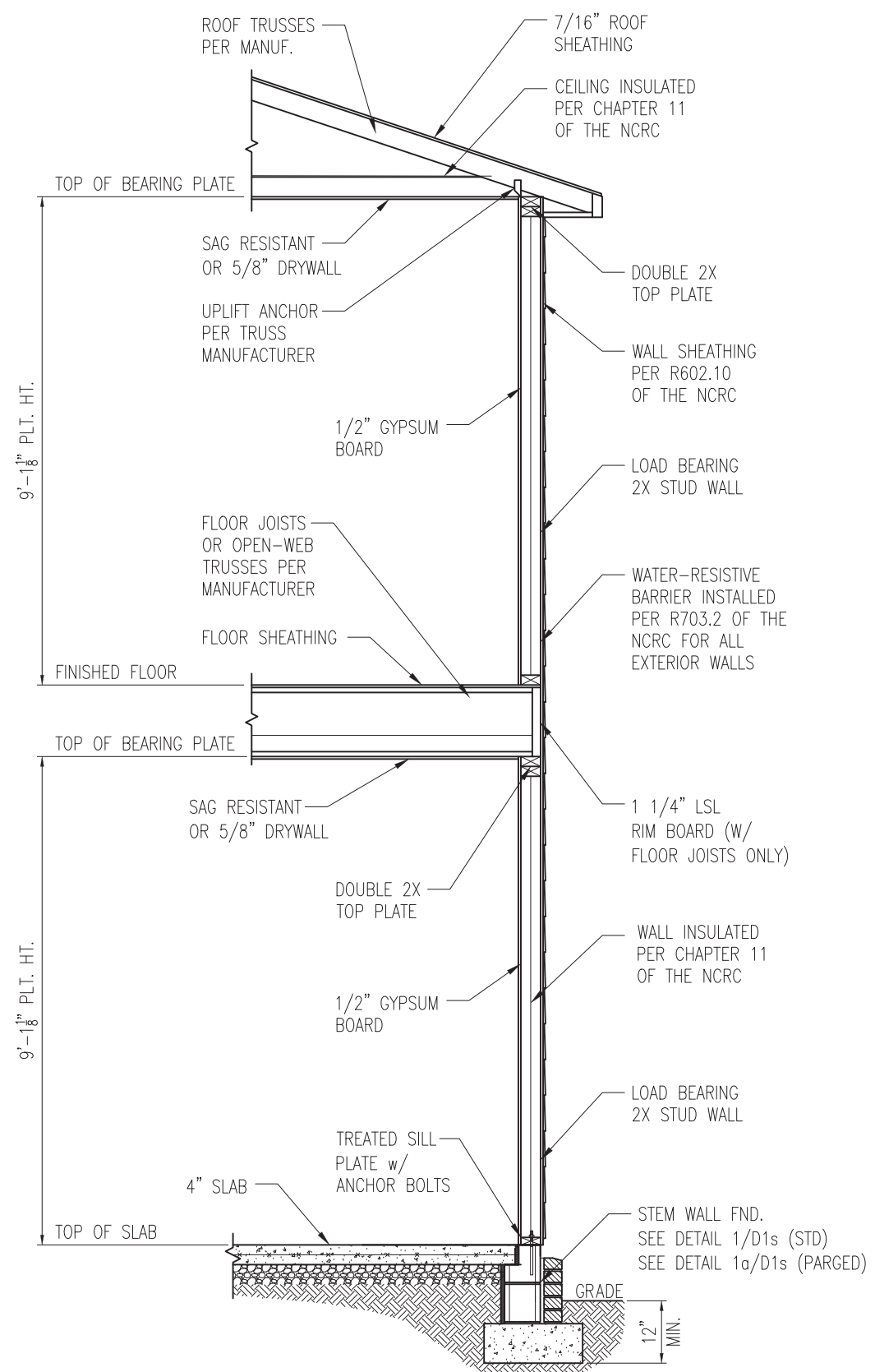
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NO. DATE PROJECT #  
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SHEET  
**D3s**



1 TYP. INTERIOR LOAD BEARING WALL SECTION  
 D4s 3/4" = 1'-0"



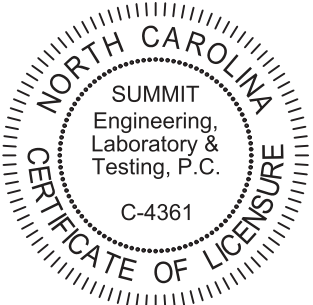
2 TYP. EXTERIOR LOAD BEARING WALL SECTION  
 D4s 3/4" = 1'-0" -SIMILAR w/ BRICK AND STONE  
 -BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT.  
 -MIN. 3/16" WEEP HOLES @ 33" O.C.

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



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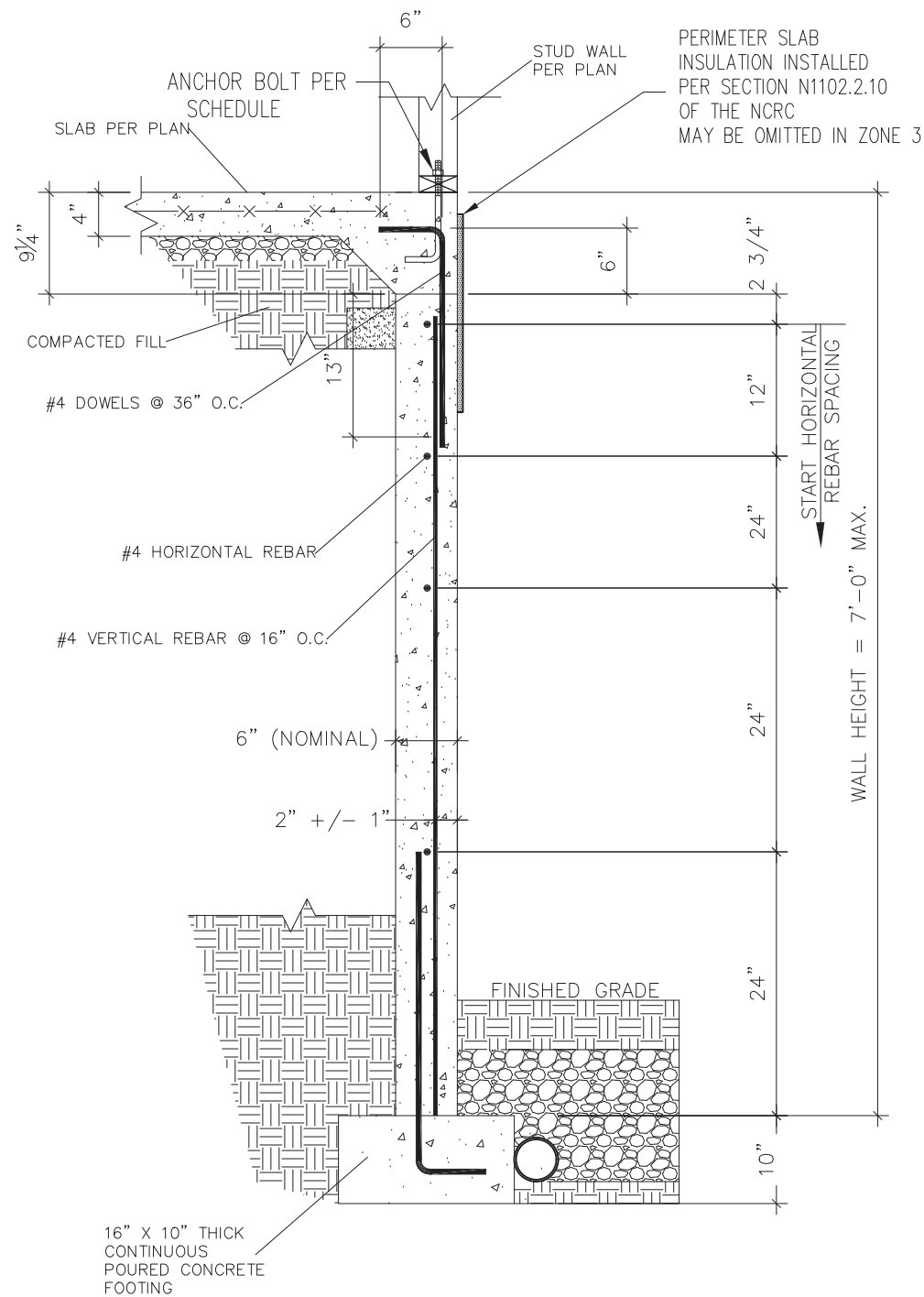
PROJECT  
**Standard Details**  
**Stemwall Details**  
 CLIENT  
**Smith Douglas Homes**  
 110 Village Trail, Suite 215  
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CURRENT DRAWING  
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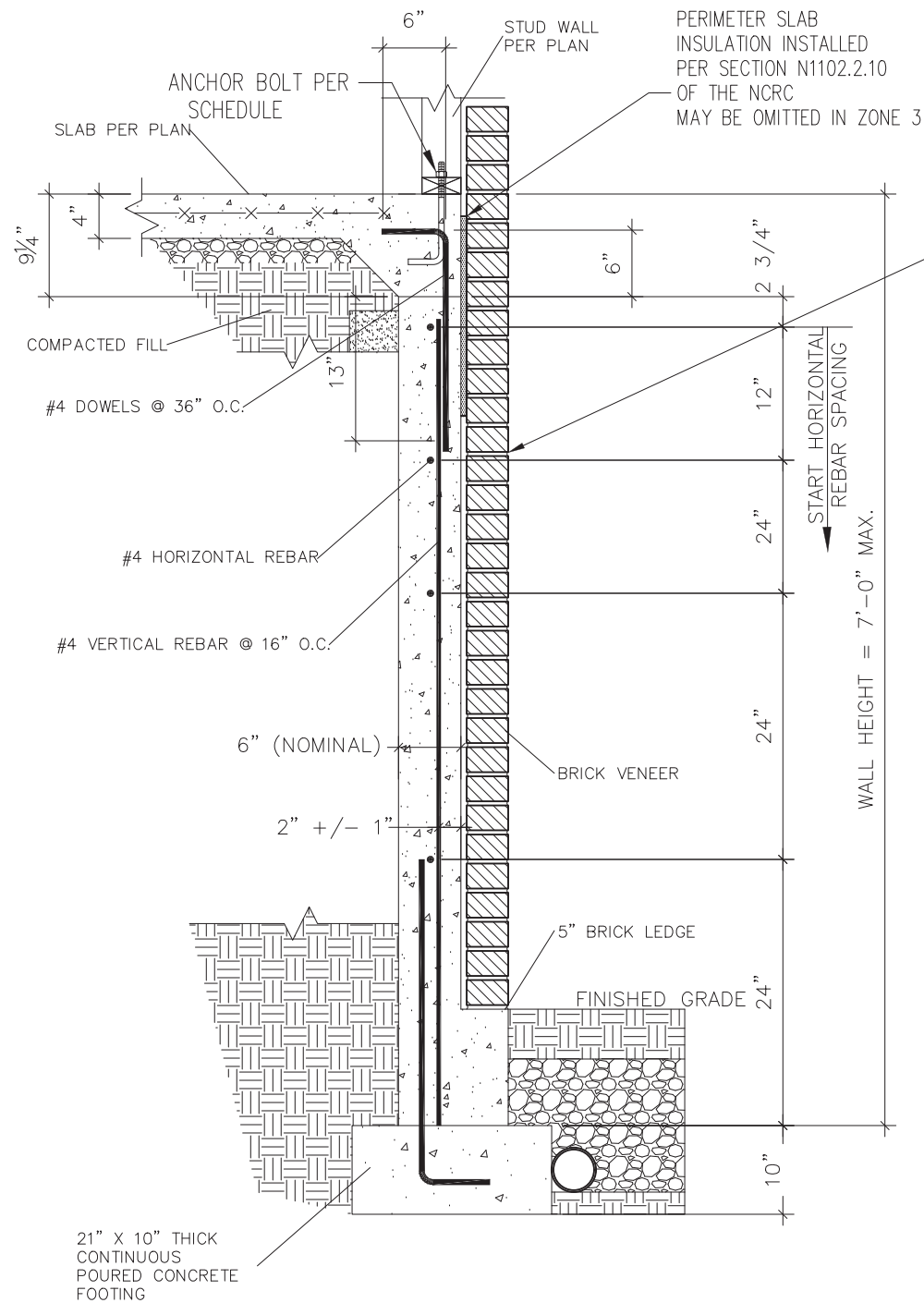
ORIGINAL DRAWING  
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REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**D4s**



1 SUBWALL FOUNDATION  
 D5s 3/4" = 1'-0"



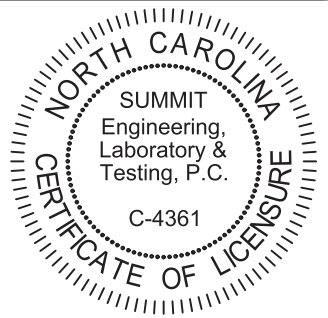
2 SUBWALL FOUNDATION W/ BRICK VENEER  
 D5s 3/4" = 1'-0"

PROVIDE LADDER WIRE OR METAL TIES, INSTALLED PER R608.1.2 OF THE 2012 NCRC, AND FULLY GROUT BETWEEN BRICK AND CONCRETE.



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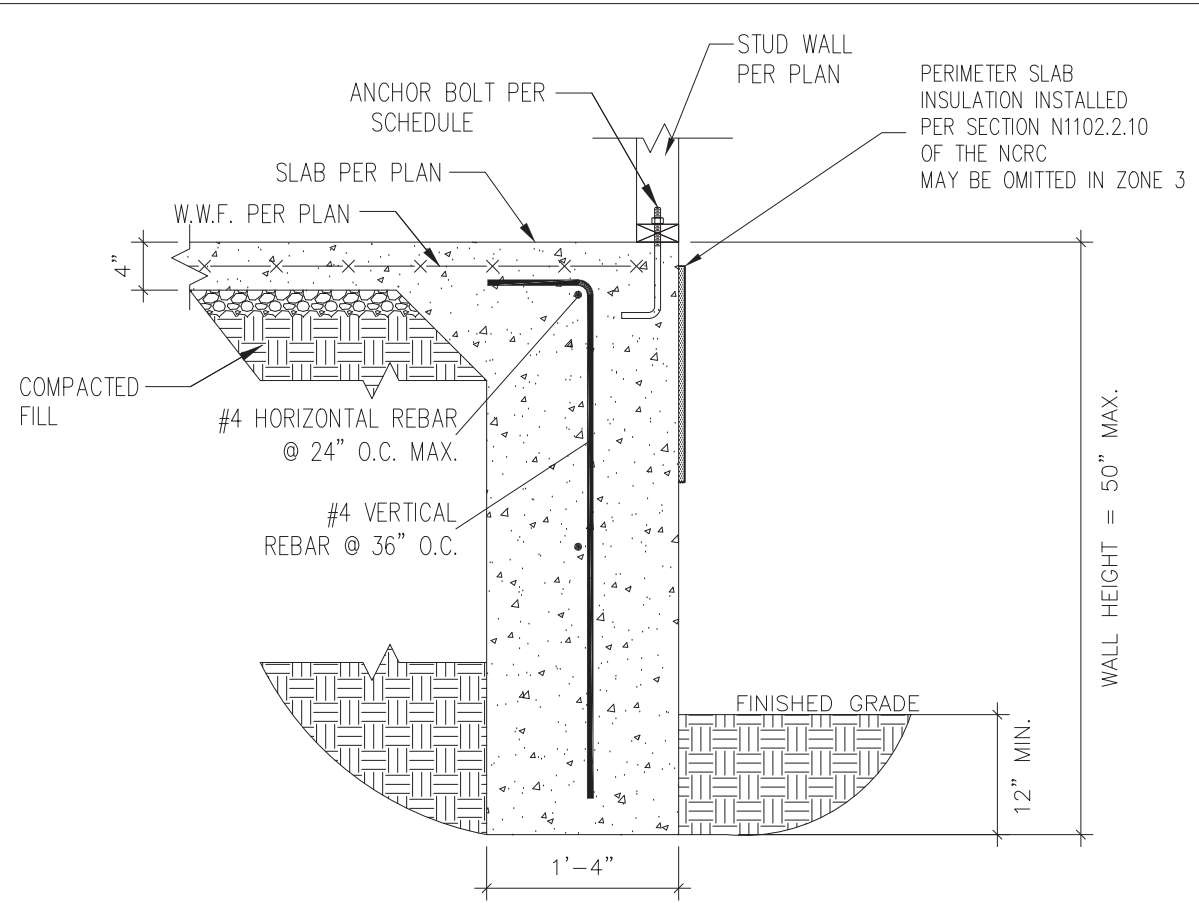
PROJECT  
**Standard Details**  
**Stemwall Details**  
 CLIENT  
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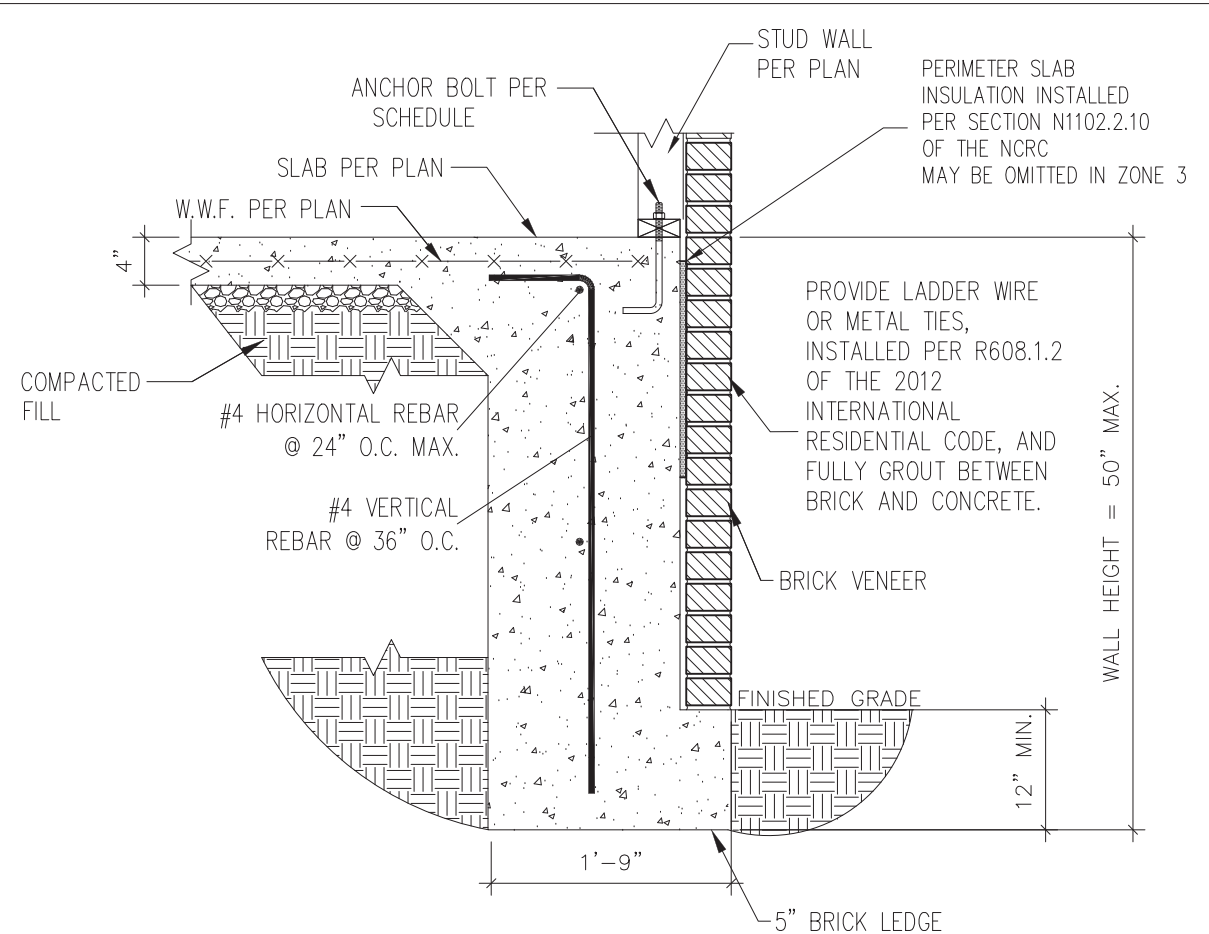
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 NO. DATE PROJECT #  
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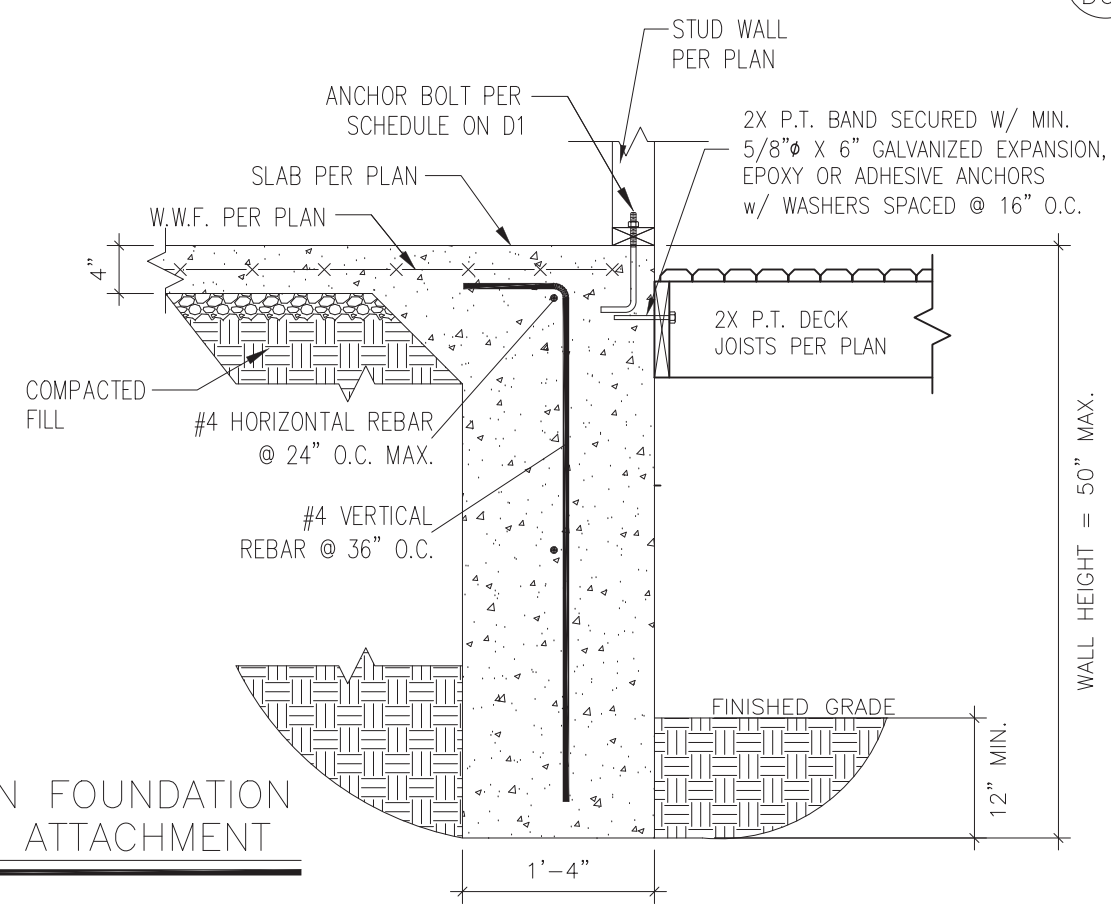
SHEET  
**D5s**



1 TURNDOWN FOUNDATION  
 D6s 3/4" = 1'-0"



2 TURNDOWN FOUNDATION W/ BRICK VENEER  
 D6s 3/4" = 1'-0"

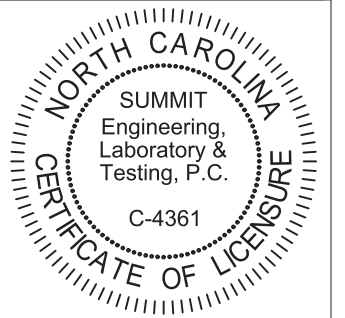


3 TURNDOWN FOUNDATION W/ DECK ATTACHMENT  
 D6s 3/4" = 1'-0"



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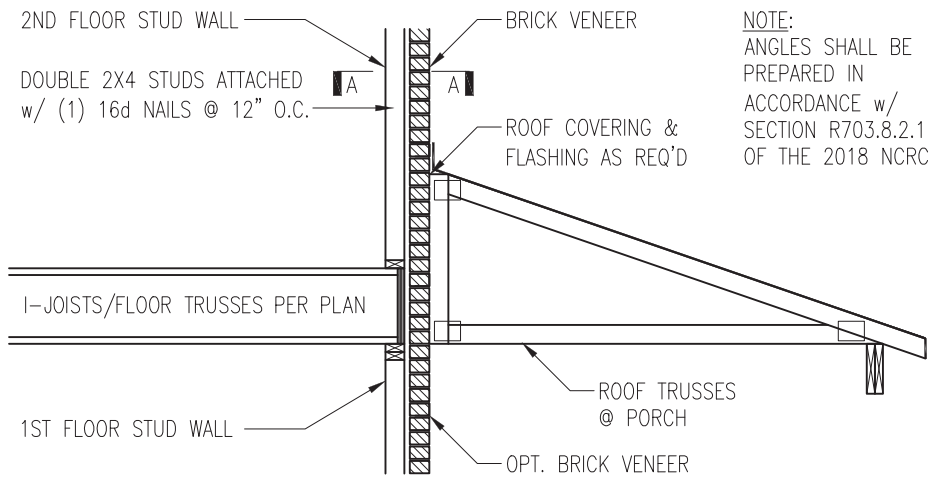
PROJECT  
**Standard Details**  
**Stemwall Details**  
 CLIENT  
**Smith Douglas Homes**  
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CURRENT DRAWING  
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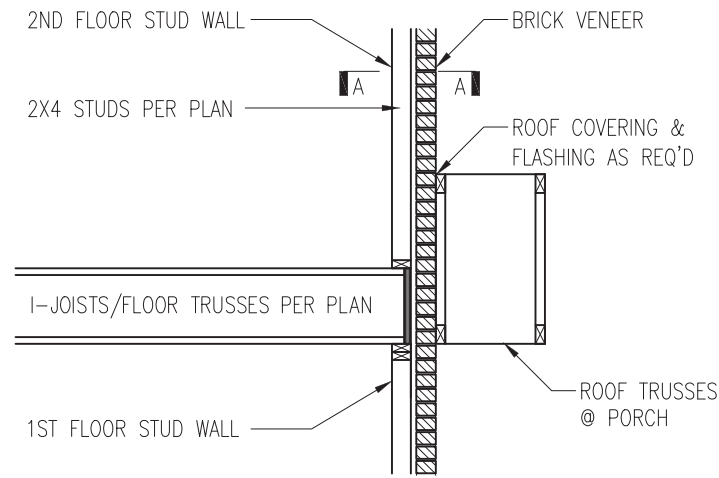
NO.	DATE	PROJECT #
0	1/7/16	3832

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SHEET  
**D6s**



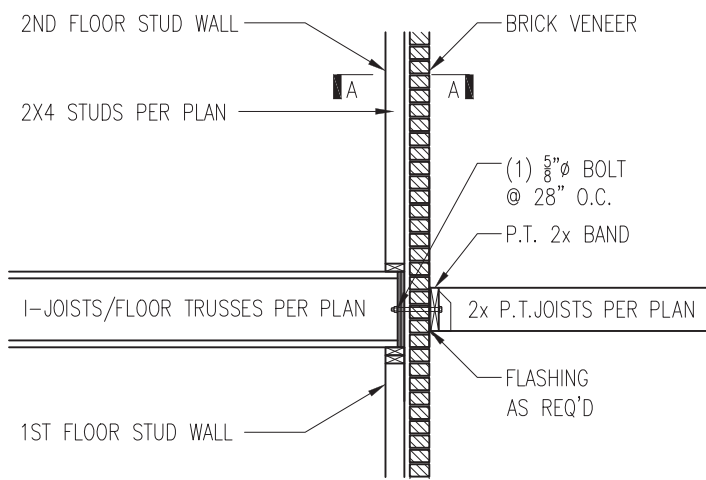
NOTE:  
ANGLES SHALL BE PREPARED IN ACCORDANCE w/ SECTION R703.8.2.1 OF THE 2018 NCR



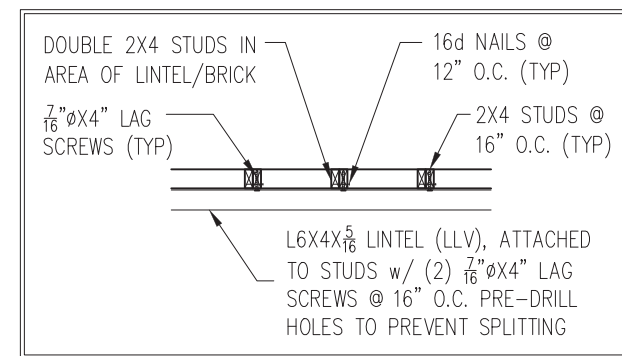
TRUSSES PERPENDICULAR TO STUD WALL

TRUSSES PARALLEL TO STUD WALL w/ CONTINUOUS BRICK VENEER

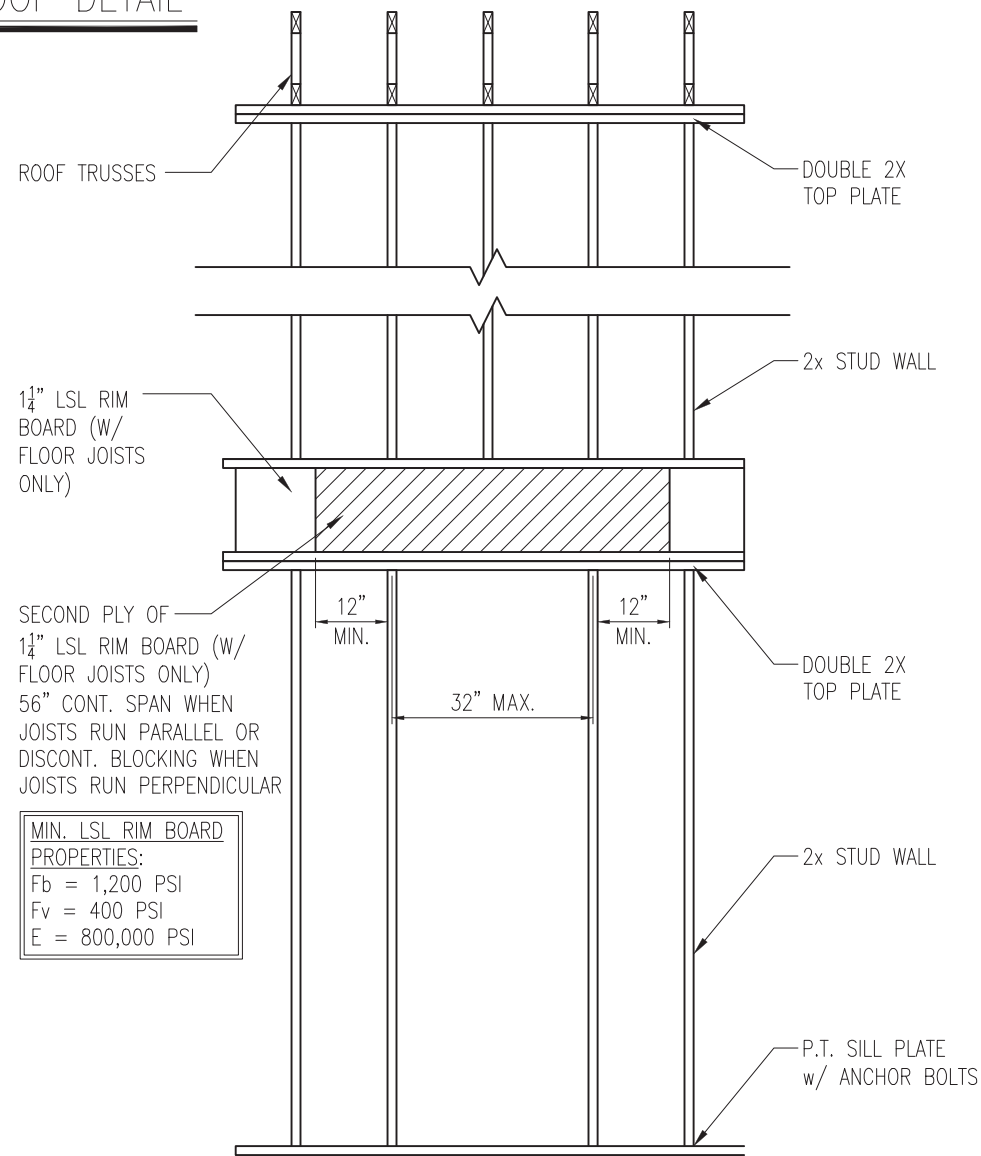
1 BRICK SUPPORT ABOVE STORAGE/PORCH ROOF DETAIL  
D5f NTS



3 BALCONY JOIST ATTACHMENT  
D5f NTS



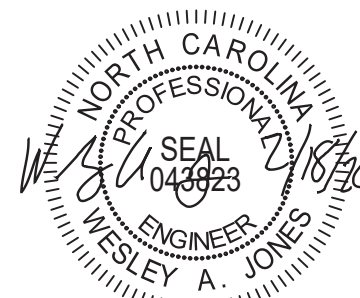
SECTION A-A  
NTS



SECOND PLY OF 1 1/4\"/>

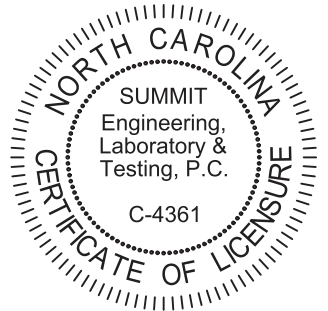
MIN. LSL RIM BOARD  
PROPERTIES:  
Fb = 1,200 PSI  
Fv = 400 PSI  
E = 800,000 PSI

4 TYP. RANGE VENT FRAMING  
D5f VENTED TO EXTERIOR WALL



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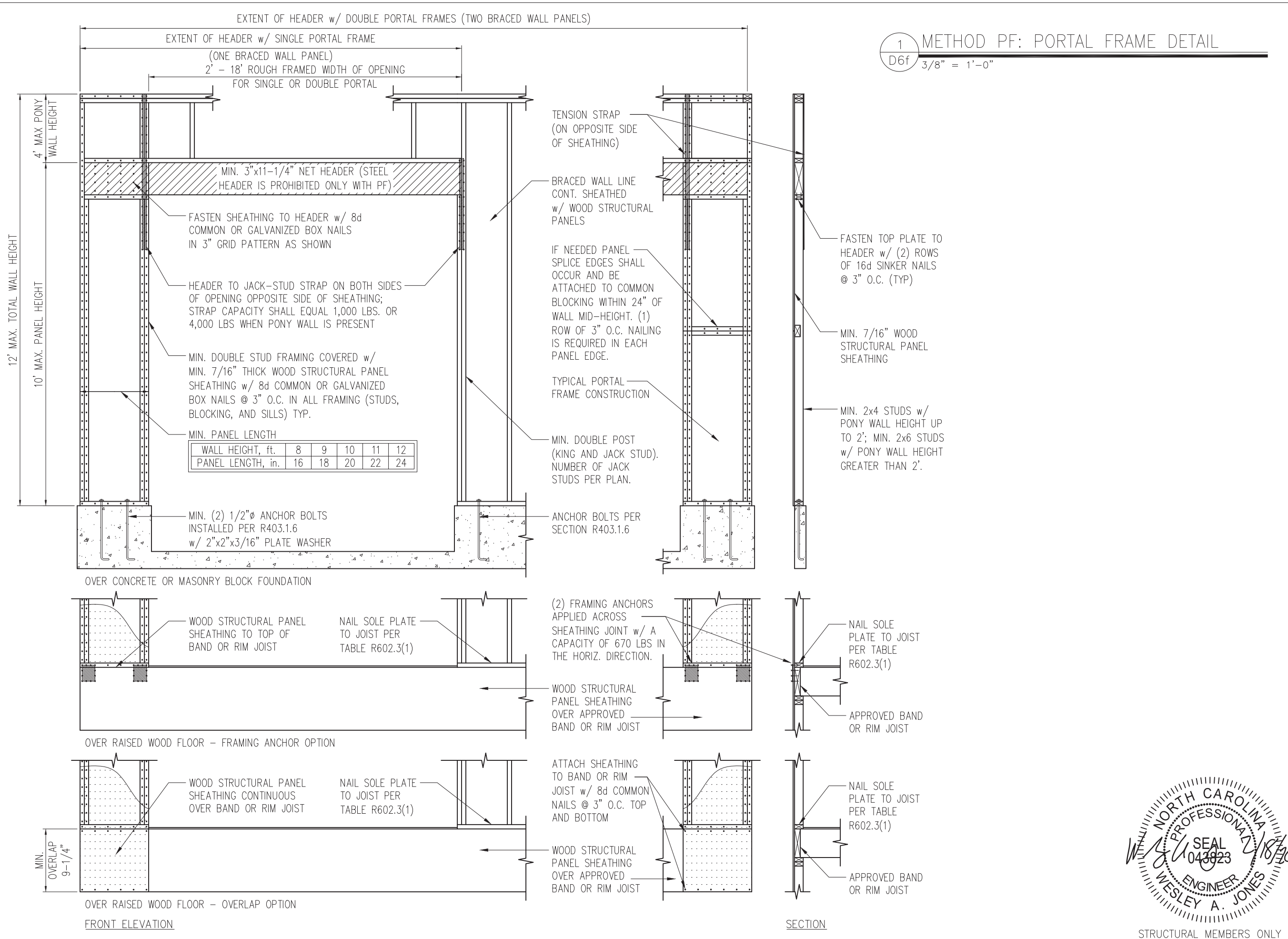
PROJECT  
Standard Details  
Framing Details  
CLIENT  
Smith Douglas Homes  
110 Village Trail, Suite 215  
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SHEET  
**D5f**



1 METHOD PF: PORTAL FRAME DETAIL  
 D6f 3/8" = 1'-0"

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 SUMMIT  
 Engineering,  
 Laboratory &  
 Testing, P.C.  
 C-4361  
 CERTIFICATE OF LICENSURE

PROJECT  
**Standard Details**  
**Framing Details - Bracing**

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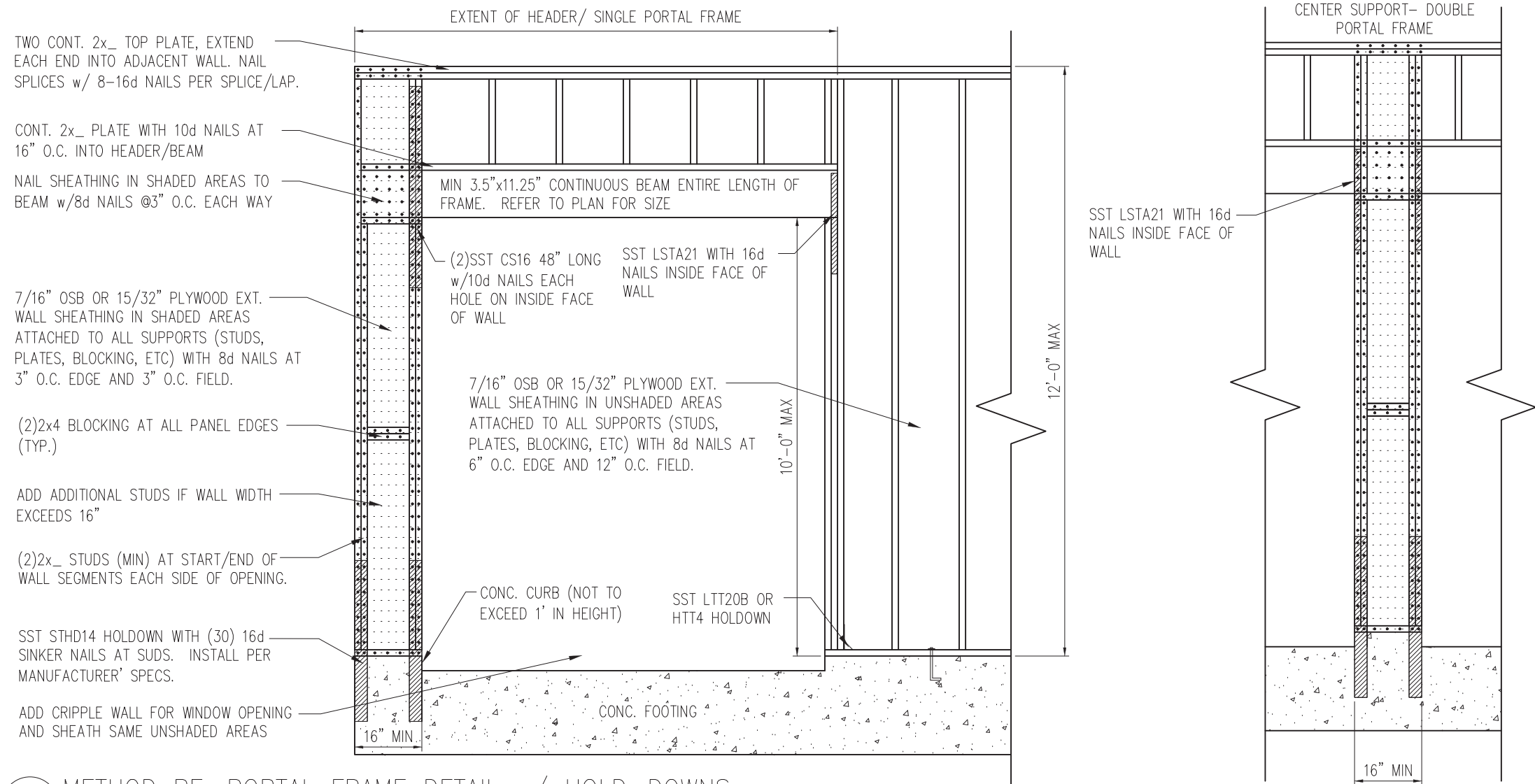
ORIGINAL DRAWING  
 NO. DATE PROJECT #  
 0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

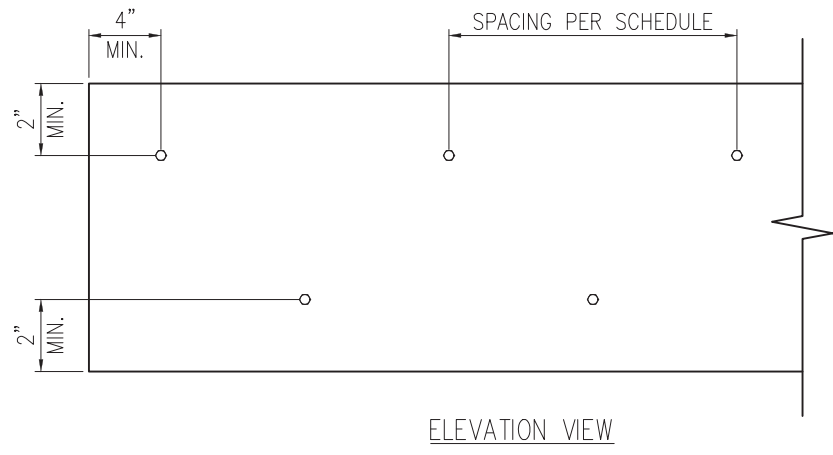
NORTH CAROLINA  
 PROFESSIONAL ENGINEER  
 SEAL  
 043823  
 WESLEY A. JONES

SHEET  
**D6f**  
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1 METHOD PF: PORTAL FRAME DETAIL w/ HOLD-DOWNS  
 D7f 3/4" = 1'-0"



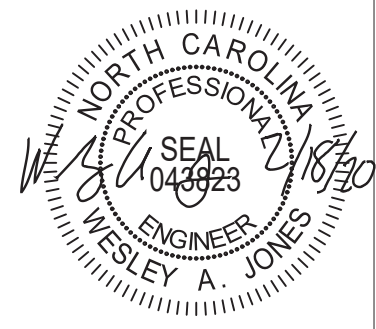
2 MULTI-PLY BEAM CONNECTION DETAIL  
 D7f N.T.S

**MINIMUM FASTENING REQUIREMENTS FOR TOP- AND SIDE-LOADED MEMBERS**

FASTENER TYPE	LVL DEPTH	3/4" WIDE		5/4" WIDE		7" WIDE	
		2-Ply 1 3/4"	3-Ply 1 3/4"	1 3/4" + 3 1/2"	4-Ply 1 3/4"	2-Ply 1 3/4" + 3 1/2"	2-Ply 3 1/2"
10d (0.128" x 3") Nails	7/4" ≤ d < 14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.	-	3 rows @ 12" o.c. (ES)	-
	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 3 1/2") Nails	7/4" ≤ d < 14"	2 rows @ 12" o.c.	2 rows @ 12" o.c. (ES)	2 rows @ 12" o.c.	-	2 rows @ 12" o.c. (ES)	-
	d ≥ 14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.	-	3 rows @ 12" o.c. (ES)	-
1/2" Through Bolts	d ≥ 7/4"	2 rows @ 24" o.c.	2 rows @ 24" o.c.		2 rows @ 24" o.c.		
SDS 1/4" x 3 1/2", WS35, 3 3/8" TrussLok		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		-	-	-	2 rows @ 24" o.c. (ES)		
5" TrussLok		-	2 rows @ 24" o.c.		-		
6 3/4" TrussLok		-	-	-	2 rows @ 24" o.c.		

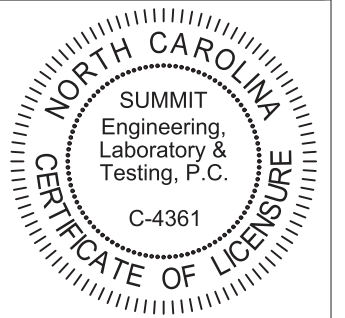
**NOTES:**

- 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 7/4" 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;
  - 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
  - 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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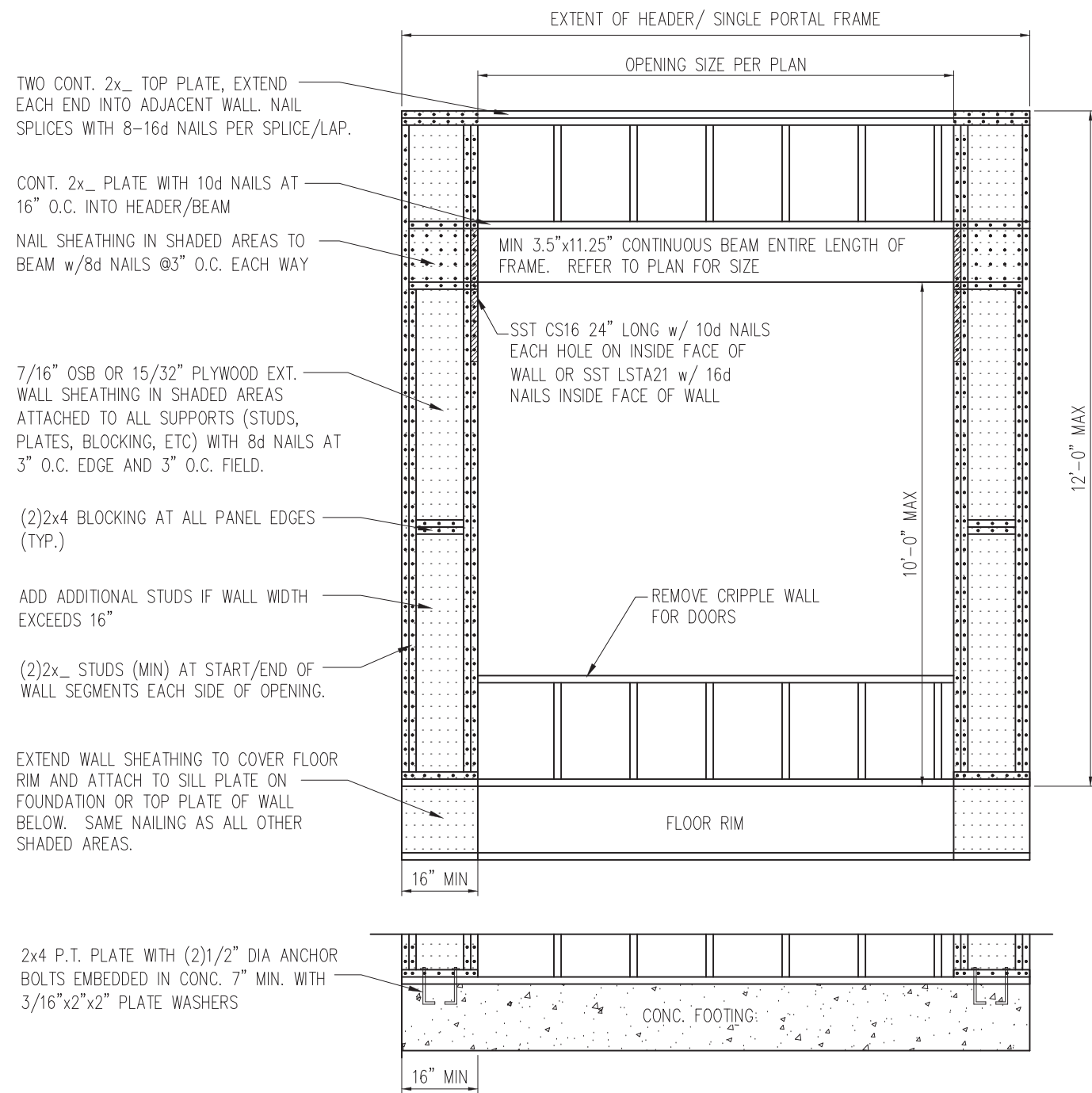


PROJECT  
 Standard Details  
 Framing Details - Bracing  
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SHEET  
**D7f**



TWO CONT. 2x\_ TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

CONT. 2x\_ PLATE WITH 10d NAILS AT 16" O.C. INTO HEADER/BEAM

NAIL SHEATHING IN SHADED AREAS TO BEAM w/8d NAILS @3" O.C. EACH WAY

7/16" OSB OR 15/32" PLYWOOD EXT. WALL SHEATHING IN SHADED AREAS ATTACHED TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC) WITH 8d NAILS AT 3" O.C. EDGE AND 3" O.C. FIELD.

(2)2x4 BLOCKING AT ALL PANEL EDGES (TYP.)

ADD ADDITIONAL STUDS IF WALL WIDTH EXCEEDS 16"

(2)2x\_ STUDS (MIN) AT START/END OF WALL SEGMENTS EACH SIDE OF OPENING.

EXTEND WALL SHEATHING TO COVER FLOOR RIM AND ATTACH TO SILL PLATE ON FOUNDATION OR TOP PLATE OF WALL BELOW. SAME NAILING AS ALL OTHER SHADED AREAS.

2x4 P.T. PLATE WITH (2)1/2" DIA ANCHOR BOLTS EMBEDDED IN CONC. 7" MIN. WITH 3/16"x2"x2" PLATE WASHERS

2x\_ BLOCKING BETWEEN ROOF TRUSSES ALONG LENGTH OF BRACED WALL PANELS. LAP SHEATHING 2" MIN.

NAIL SHEATHING TO BLOCKING AND TRUSS WEB WITH 8d NAILS @6" O.C. (TYP.)

2x4 BLOCKING BETWEEN ROOF TRUSSES ATTACHED TO TOP PLATES WITH 8d NAILS @6" O.C. ALONG LENGTH OF BRACED WALL PANELS

\*BLOCKING IS NOT REQUIRED WITH HEEL HEIGHTS LESS THAN 9.25"

HEEL HEIGHT GREATER THAN 15.25"

HEEL HEIGHT LESS THAN 15.25" \*

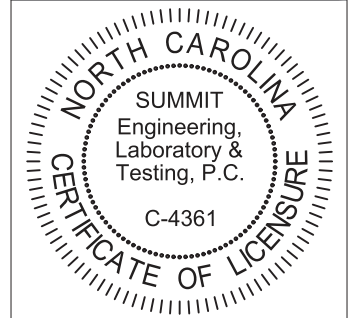
1 METHOD PF: PORTAL FRAME DETAIL  
D8f 3/4" = 1'-0" OPENINGS UNDER 8'-0"

2 TYP. WALL PANEL TO ROOF TRUSS CONNECTION  
D8f 1" = 1'-0"



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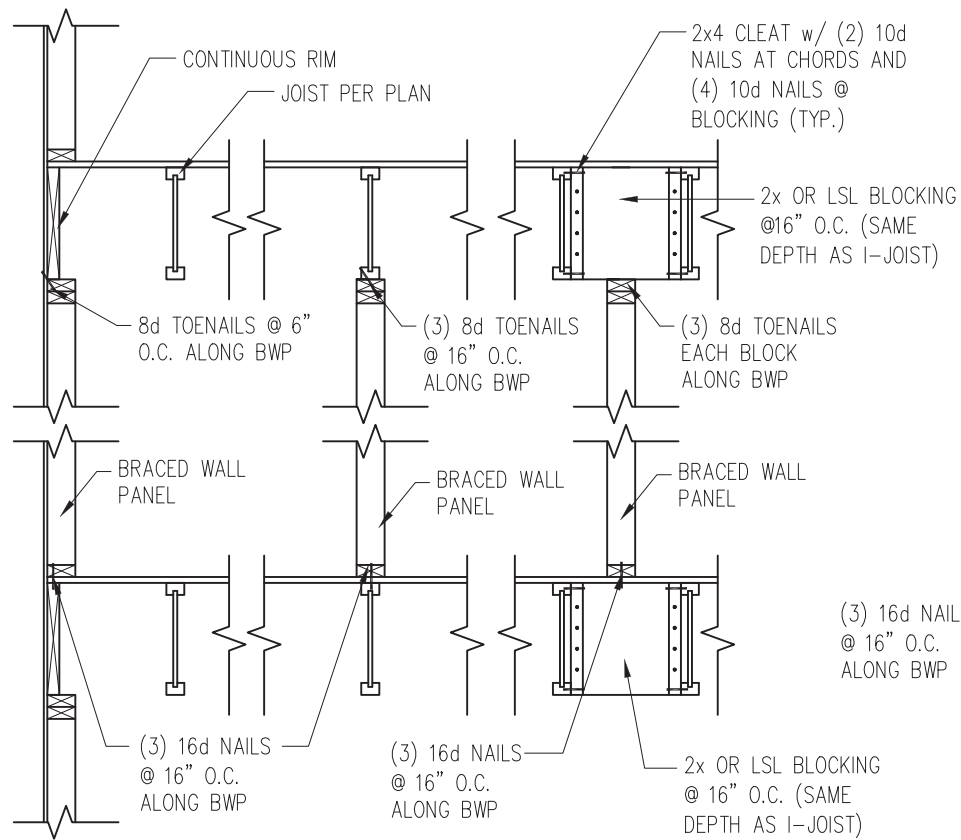
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**Standard Details**  
**Framing Details - Bracing**  
CLIENT  
**Smith Douglas Homes**  
110 Village Trail, Suite 215  
Woodstock, GA 30188

CURRENT DRAWING  
DATE: 2/18/20  
SCALE: NTS  
PROJECT #: 3832  
DRAWN BY: LBV  
CHECKED BY: WAJ

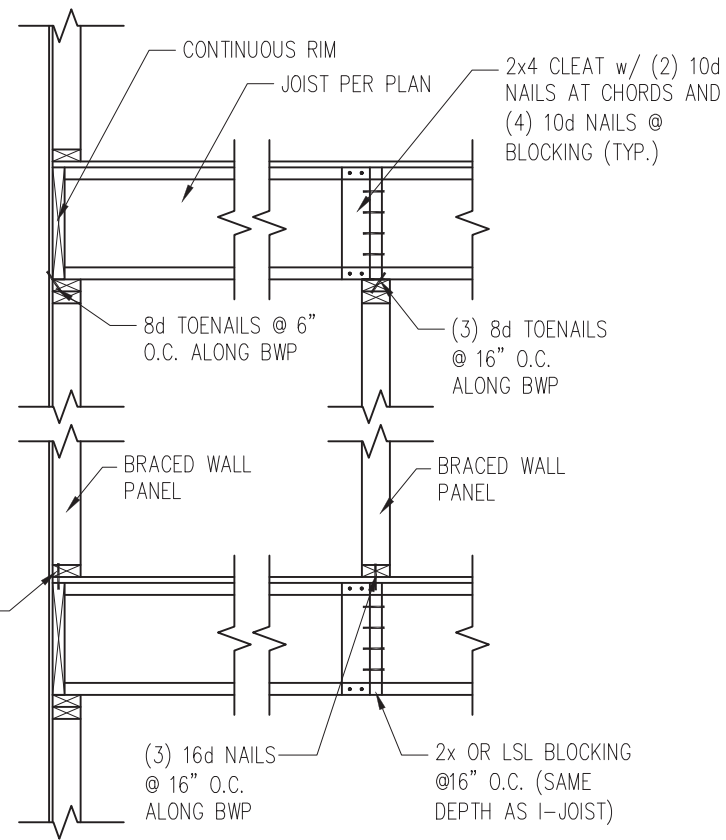
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NO. DATE PROJECT #  
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET  
**D8f**

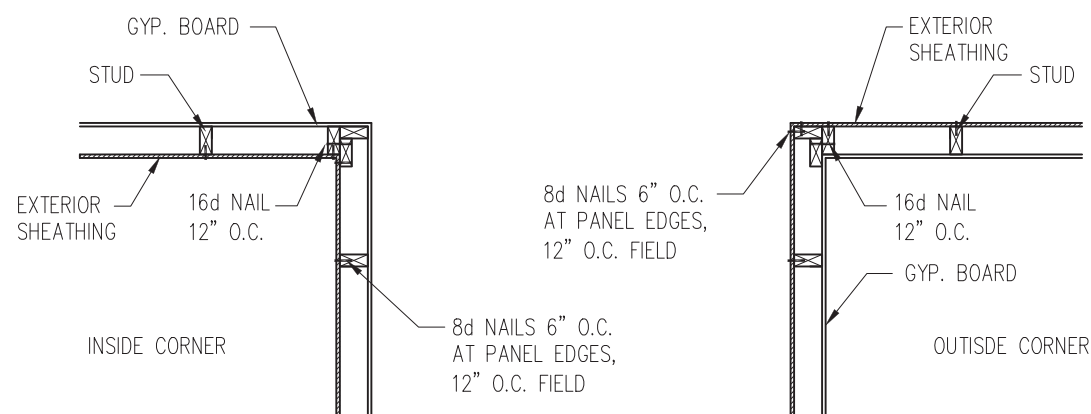


JOISTS PARALLEL TO BRACED WALLS

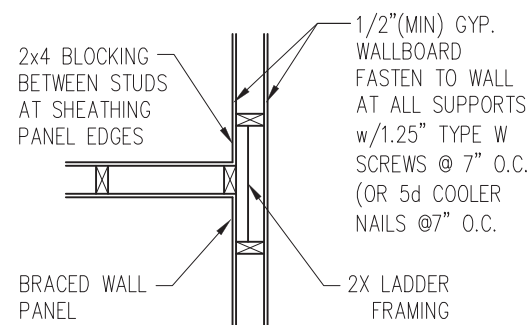


JOISTS PERPENDICULAR TO BRACED WALLS

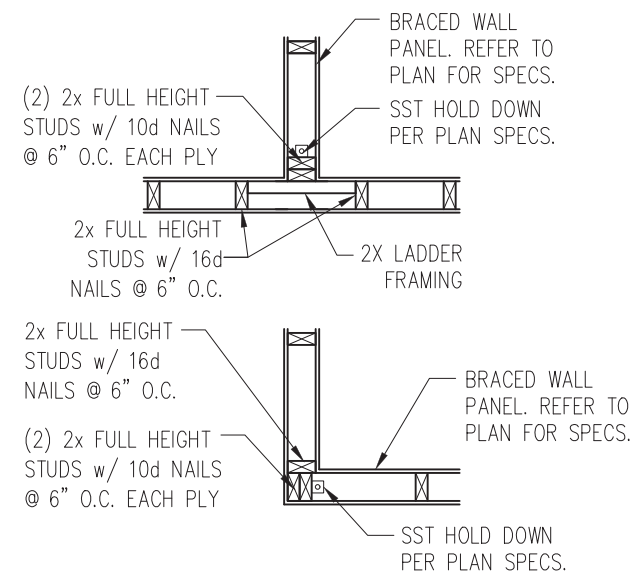
1 TYP. WALL PANEL TO FLOOR/CEILING CONNECTION  
D9f 1" = 1'-0"



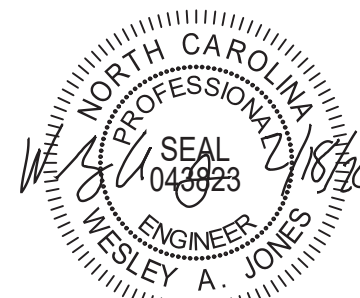
2 TYP. EXTERIOR CORNER FRAMING  
D9f 1" = 1'-0"



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

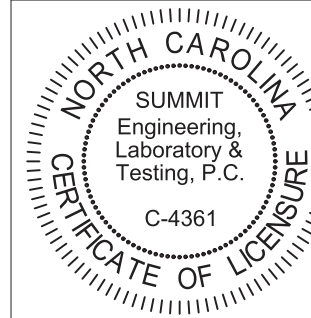


4 TYP. HOLD DOWN DETAIL  
D9f 1" = 1'-0"



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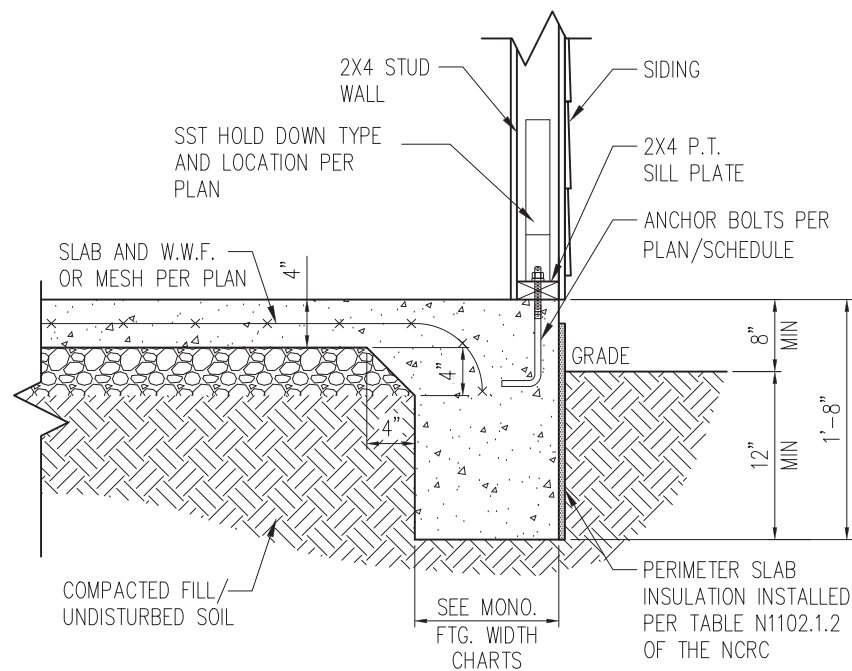
PROJECT  
**Standard Details**  
**Framing Details - Bracing**  
CLIENT  
**Smith Douglas Homes**  
110 Village Trail, Suite 215  
Woodstock, GA 30188

CURRENT DRAWING  
DATE: 2/18/20  
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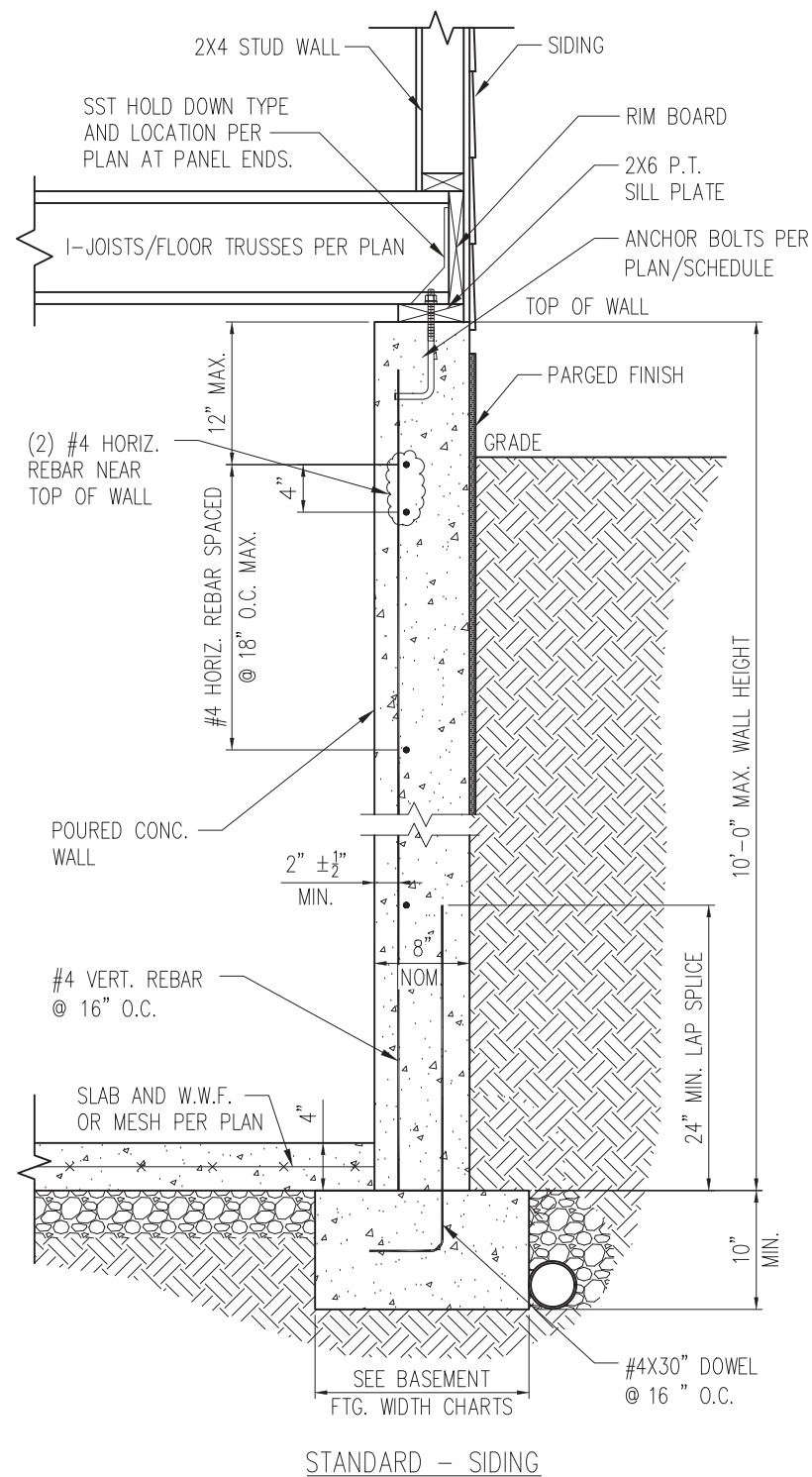
ORIGINAL DRAWING  
NO. DATE PROJECT #  
0 1/7/16 3832

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SHEET  
**D9f**



1 SLAB DETAIL w/ HOLD-DOWN  
 D10f 3/4" = 1'-0"

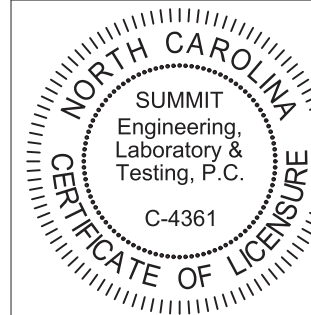


2 BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN  
 D10f 3/4" = 1'-0"



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PROJECT  
**Standard Details**  
**Framing Details - Bracing**  
 CLIENT  
**Smith Douglas Homes**  
 110 Village Trail, Suite 215  
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CURRENT DRAWING  
 DATE: 2/18/20  
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 PROJECT #: 3832  
 DRAWN BY: LBV  
 CHECKED BY: WAJ

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

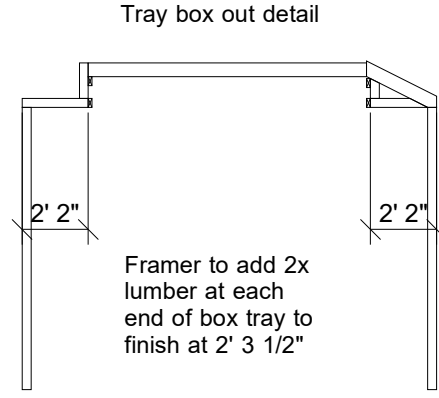
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

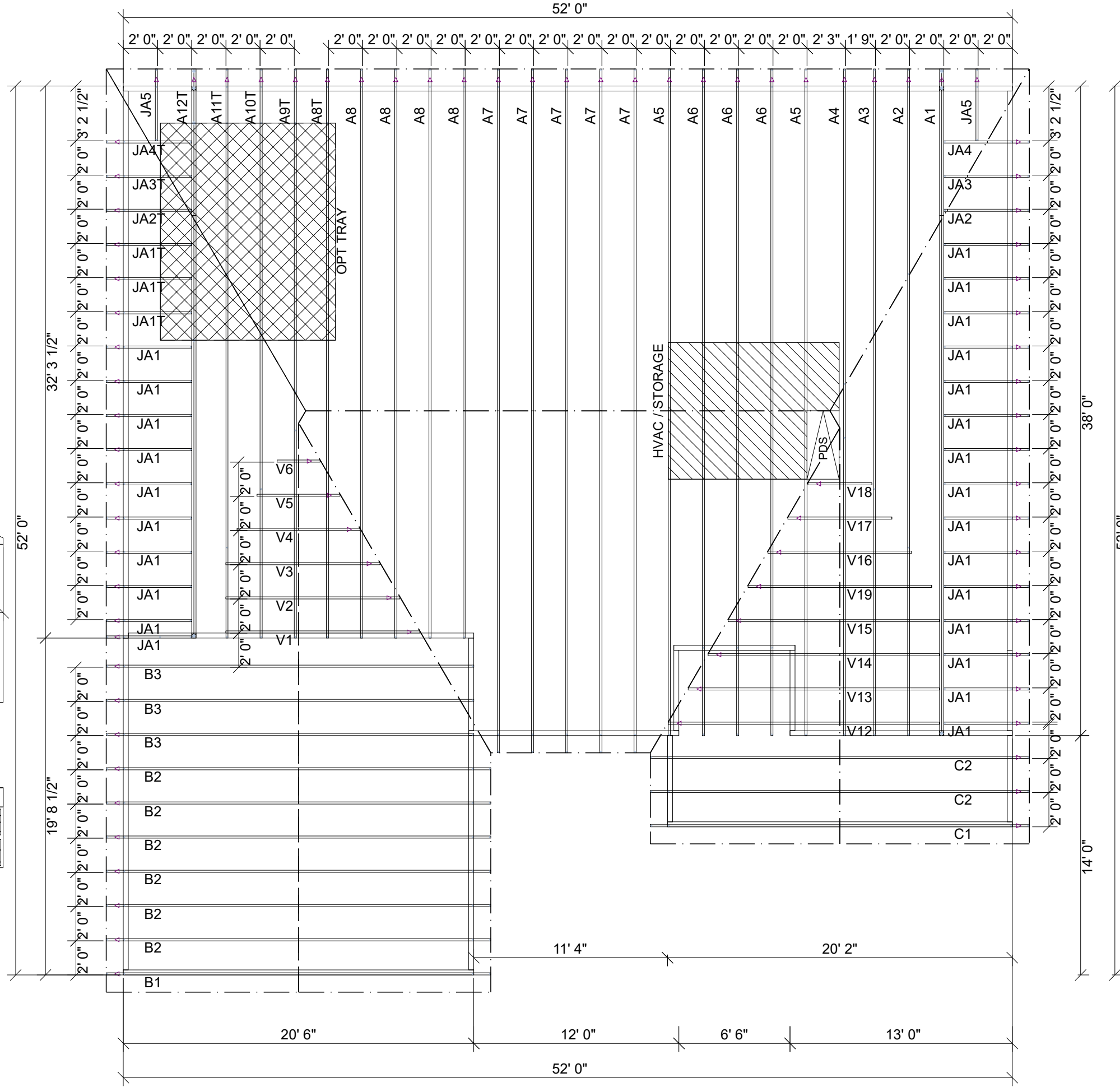
**D10f**

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# WINNINGS CFI WITH TRAY



Hatch Legend	
	OPT TRAY
	HVAC / STORAGE



ROOF AREA: 3342.68 RIDGE LINE: 88.29 VALLEY LINES: 49.63 HIP LINES: 54.08 Indicates Left End of Truss

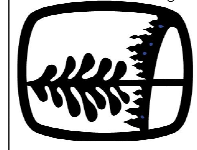
CUSTOMER  
**SMITH DOUGLAS**

Job Name  
**WINNINGS CFI**

Date: 02-20-20  
Scale: NTS  
Revision Date: \_\_\_\_\_  
Revision Date2: \_\_\_\_\_

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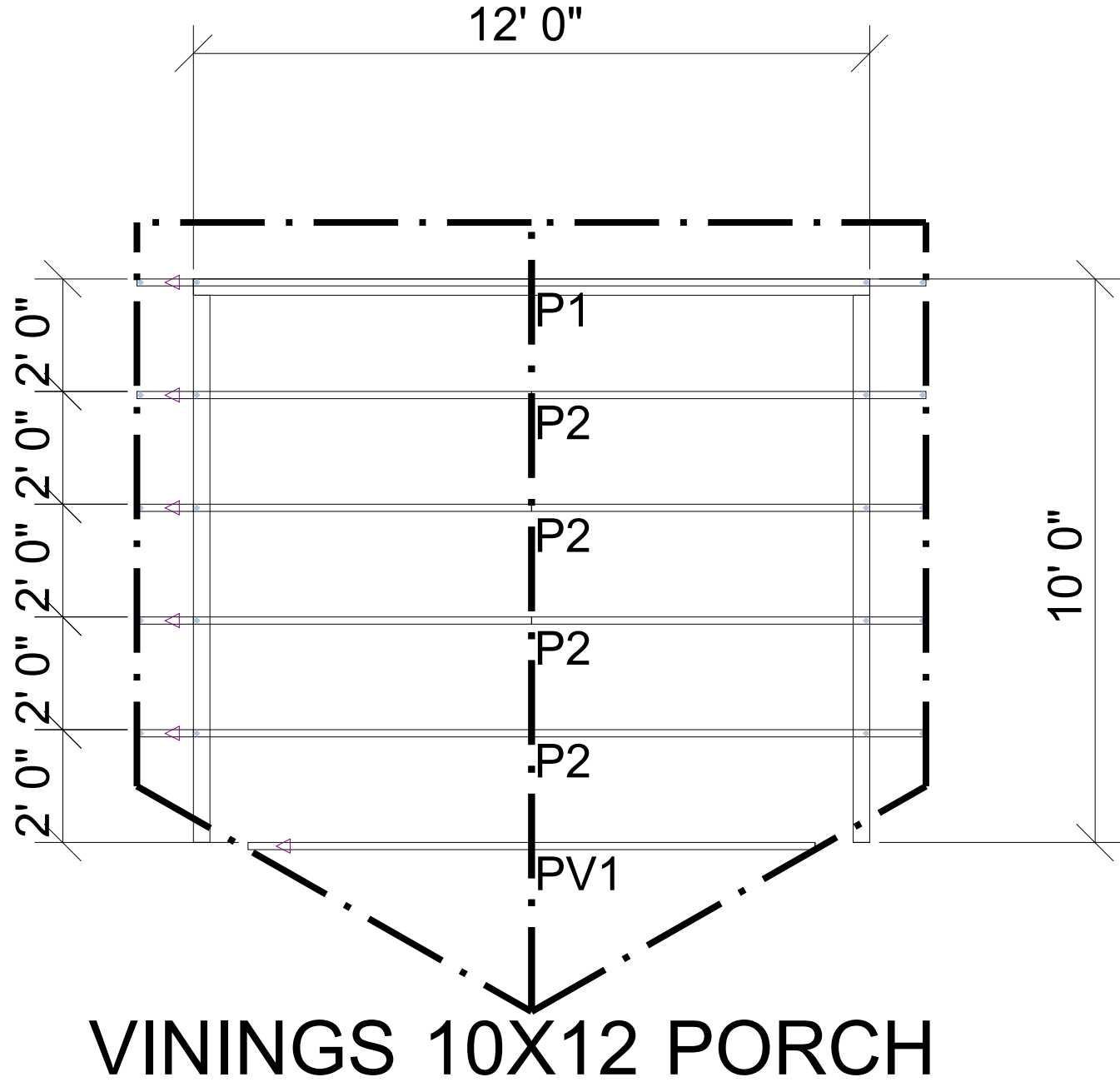
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JEFFERSON GA PHONE (800) 648-4038  
PEARISBURG, VA PHONE (800) 397-9571

1. TEMPORARY BRACING TO BE INSTALLED W/T.P.I. STANDARD BC5I-B1.  
2. SEE ENGINEERED DRAWING FOR PERMANENT BRACING MINIMUM REQUIREMENTS.  
3. FRAMER TO VERIFY ALL DIMENSIONS, DROP, & RISE LOCATIONS PRIOR TO TRUSS PLACEMENT.  
4. BLDG/FRAMER RESPONSIBLE FOR ADJUSTMENT OF TRUSS SPACING TO MISS PLUMBING DROPS, UNLESS NOTED OTHERWISE.

This layout is not an engineered drawing. This drawing was created to establish truss placement only. It is the responsibility of the builder to provide adequate support for all the elements shown in this drawing.

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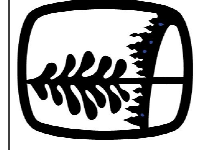
71035916 5 CANE MILL



ROOF AREA: 177.09 RIDGE LINE: 14 VALLEY LINES: 0 HIP LINES: 0 Indicates Left End of Truss

Customer	SMITH DOUGLAS
Job Name	VININGS 10X12 PORCH
Date:	8/27/2019
Scale:	NTS
Revision Date:	
Revision Date2:	
Quote Number	MASTER

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