NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

05/11/2021

Harnett COUNTY NORTH CAROLINA

# LANCASTER

SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

CANE MILL ESTATES
LOT 18

PLAN ID: 090120.1101

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 |


## GOVERNMENTAL CODES & STANDARDS

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

## BUILDING CODE ANALYSIS / DESIGN CRITERIA

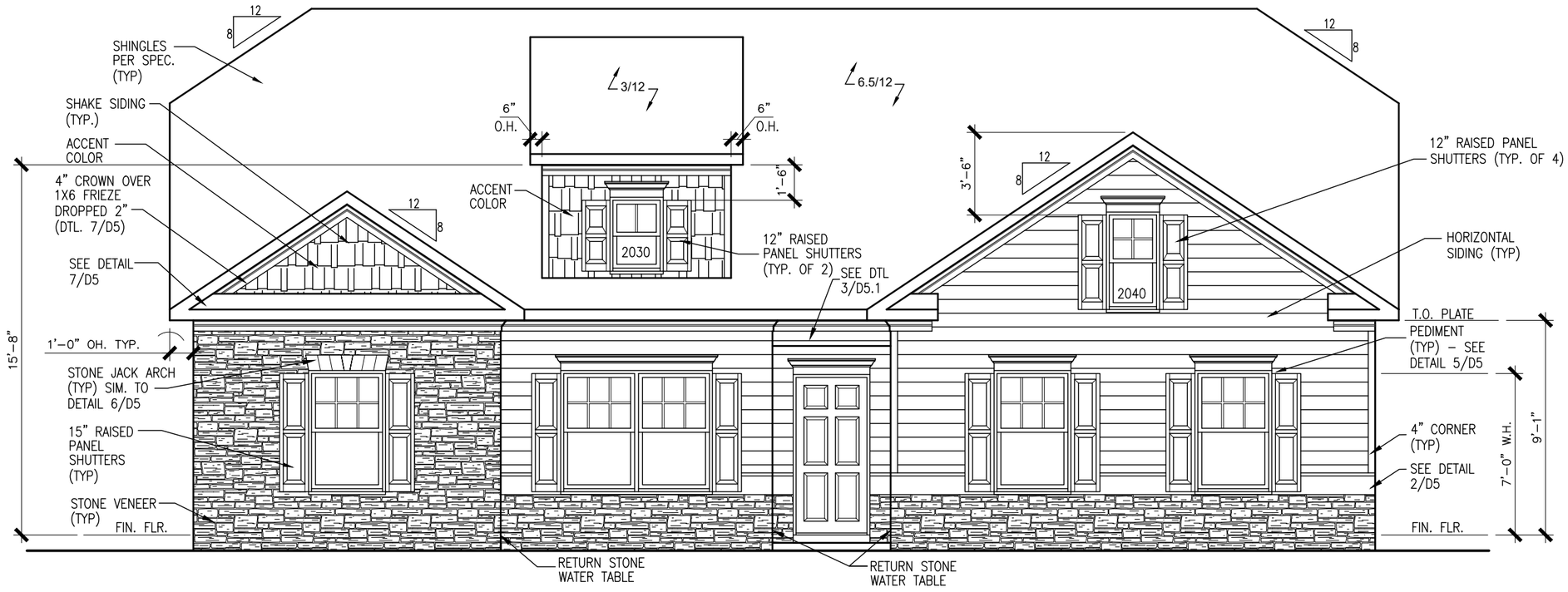
HOME TO BE BUILT TO MEET OR EXCEED ALL LOCAL CODES AND DESIGN CRITERIA

| AREA TABULATION | |
|---|---|
| FIRST FLOOR | 2015 |
| TOTAL | 2015 |
| GARAGE | 402 |
| REAR PATIO (COVERED) | 112 |
| FRONT PORCH (COVERED) | 23 |

PLAN REVISIONS

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

# CANE MILL ESTATES
# LOT 18




## FRONT ELEVATION "F"

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

## OPTIONAL SIDE ENTRY GARAGE

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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



| REVISION | DATE | BY |
|---|---|---|
| # | # | # |
| # | # | # |
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| # | # | # |

SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

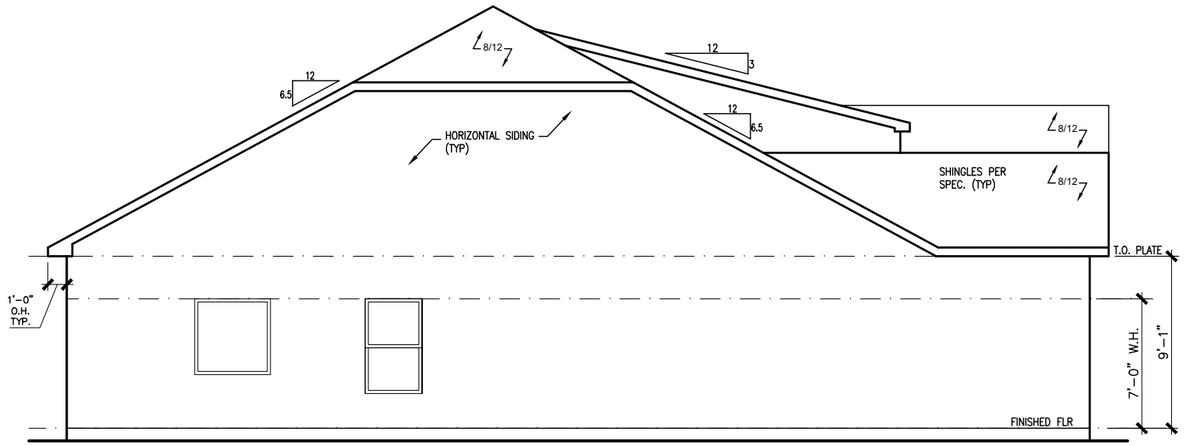
ELEVATIONS
FRONT ELEVATION
LANCASTER

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



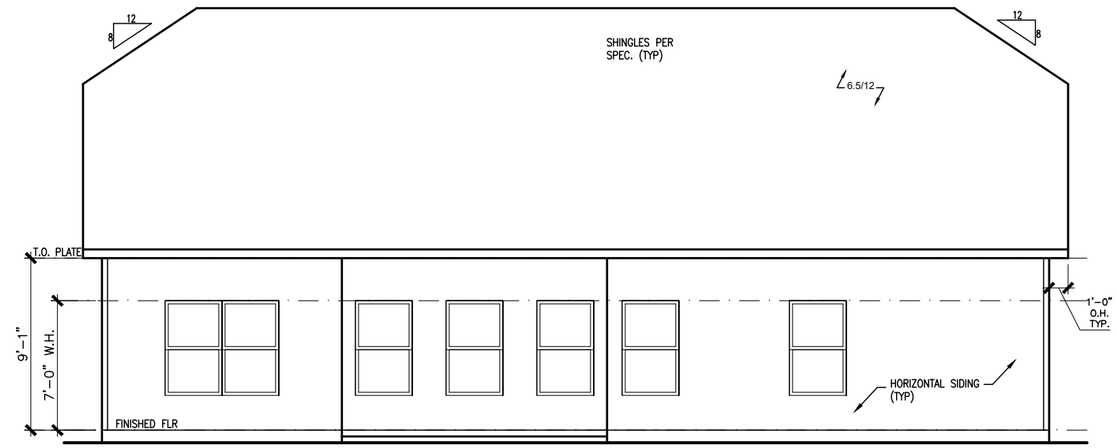
| BY: | CH: |
|---|---|
| SL | AW |
| DATE: 4/29/2021 | |
| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | ELEV: F |
| PAGE NO: A1.1 | |

# CANE MILL ESTATES
# LOT 18



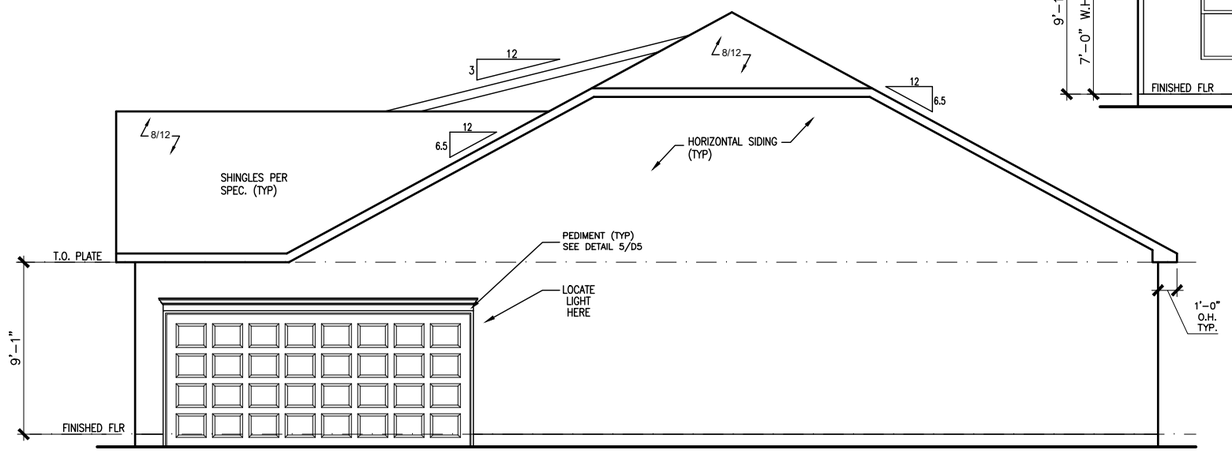

LEFT ELEVATION "F"

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




REAR ELEVATION "F"

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




RIGHT ELEVATION "F" SIDE ENTRY GARAGE

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



REVISION | BY | DATE

SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

ELEVATIONS
SIDES AND REAR
LANCASTER

SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115
WOODSTOCK, GA 30188
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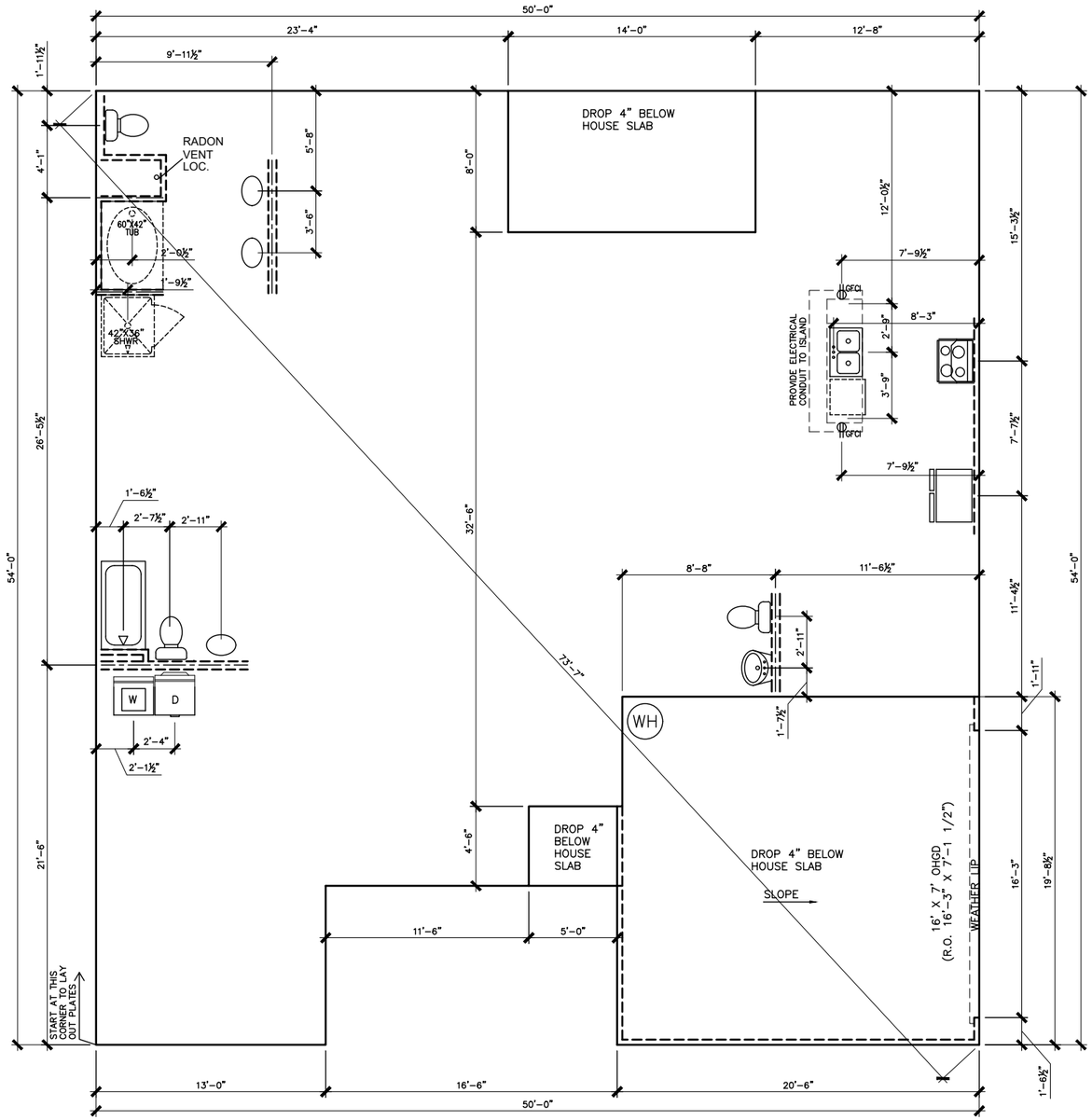
| BY: SL | CH: AW |
|---|---|
| DATE: 4/29/2021 | |
| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | ELEV: F |
| PAGE NO: A2.1 | |

# CANE MILL ESTATES
# LOT 18




SLAB PLAN

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

*RADON VENT PROVIDED PER LOCAL CODE

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

| BY | REVISION | DATE |
|---|---|---|
| # | # | # |
| # | # | # |
| # | # | # |
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| # | # | # |
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SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

FOUNDATION PLAN
SLAB PLAN
LANCASTER


SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115
WOODSTOCK, GA 30188
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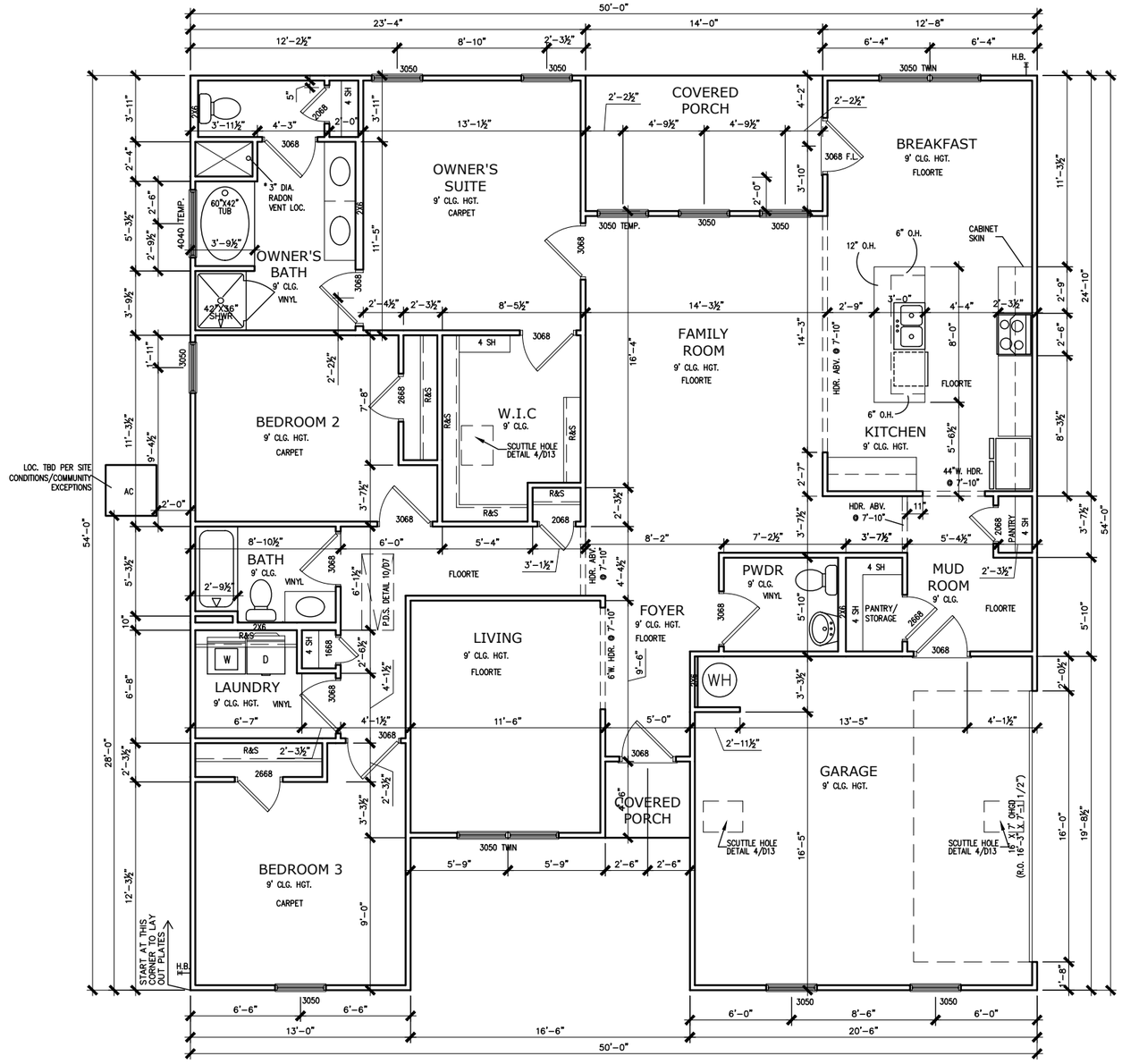
| BY: | CH: |
|---|---|
| SL | AW |
| DATE: | 4/29/2021 |
| FACADE OPT: | C |
| PLAN ID: | |
| FND: | ELEV: |
| ALL | F |
| PAGE NO: | A3.1 |

# CANE MILL ESTATES
# LOT 18




FIRST FLOOR PLAN

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

REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12,D12.1,D12.2 & D13.3

*RADON VENT PROVIDED PER LOCAL CODE



| REVISION | DATE | BY |
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SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

FLOOR PLAN
FIRST FLOOR
LANCASTER

SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115
WOODSTOCK, GA 30188
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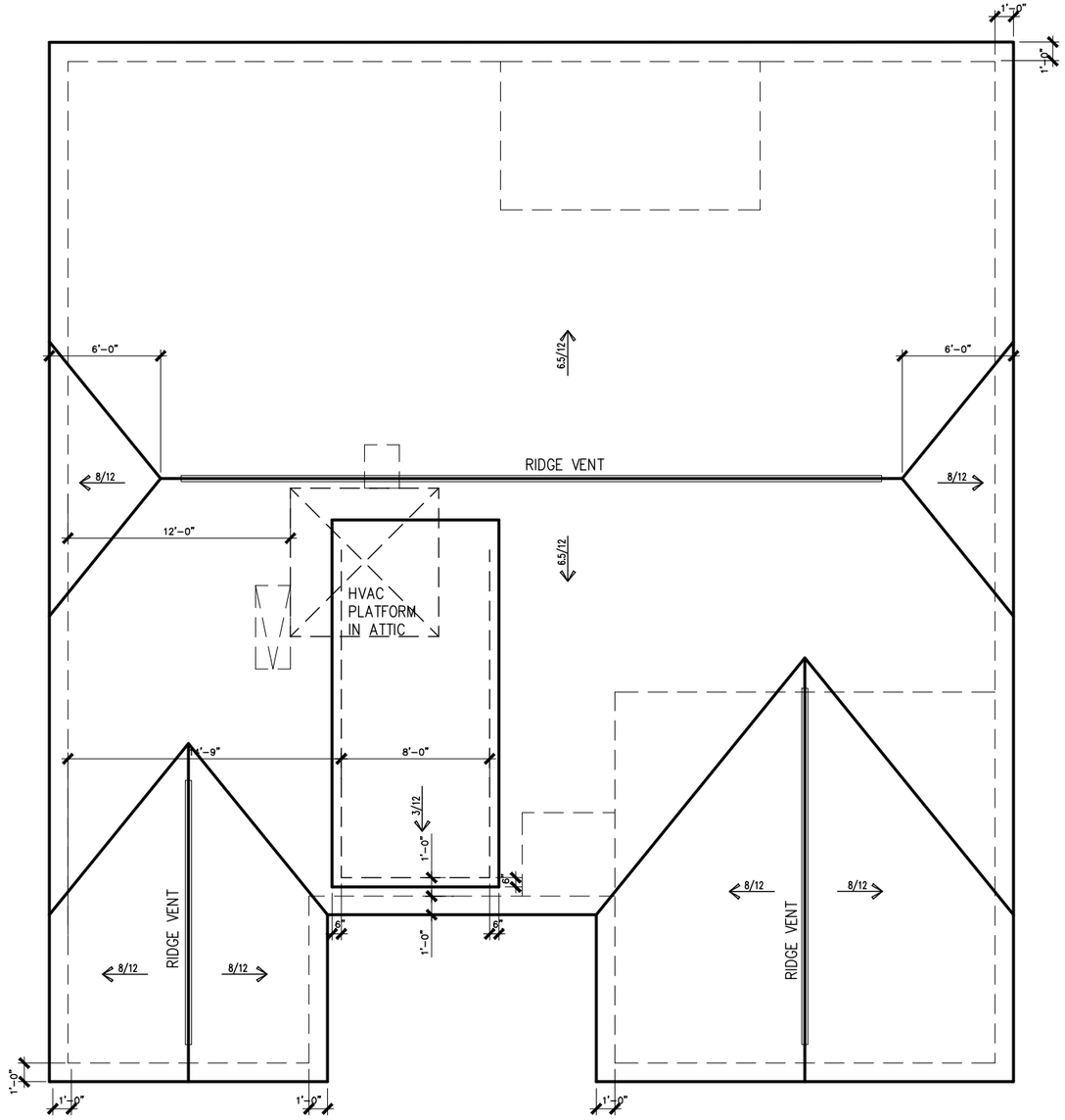
| BY: | CH: |
|---|---|
| SL | AW |

DATE: 4/29/2021
FACADE OPT: C
PLAN ID:
FND: ALL
ELEV: F
PAGE NO: A5.1

# CANE MILL ESTATES
# LOT 18




ROOF PLAN "F"

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

| BY | REVISION | DATE |
|---|---|---|
| # | # | # |
| # | # | # |
| # | # | # |
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SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

ROOF PLAN
ROOF PLAN
LANCASTER

SMITH DOUGLAS HOMES
110 VILLAGE TRAIL
SUITE 115
WOODSTOCK, GA 30188
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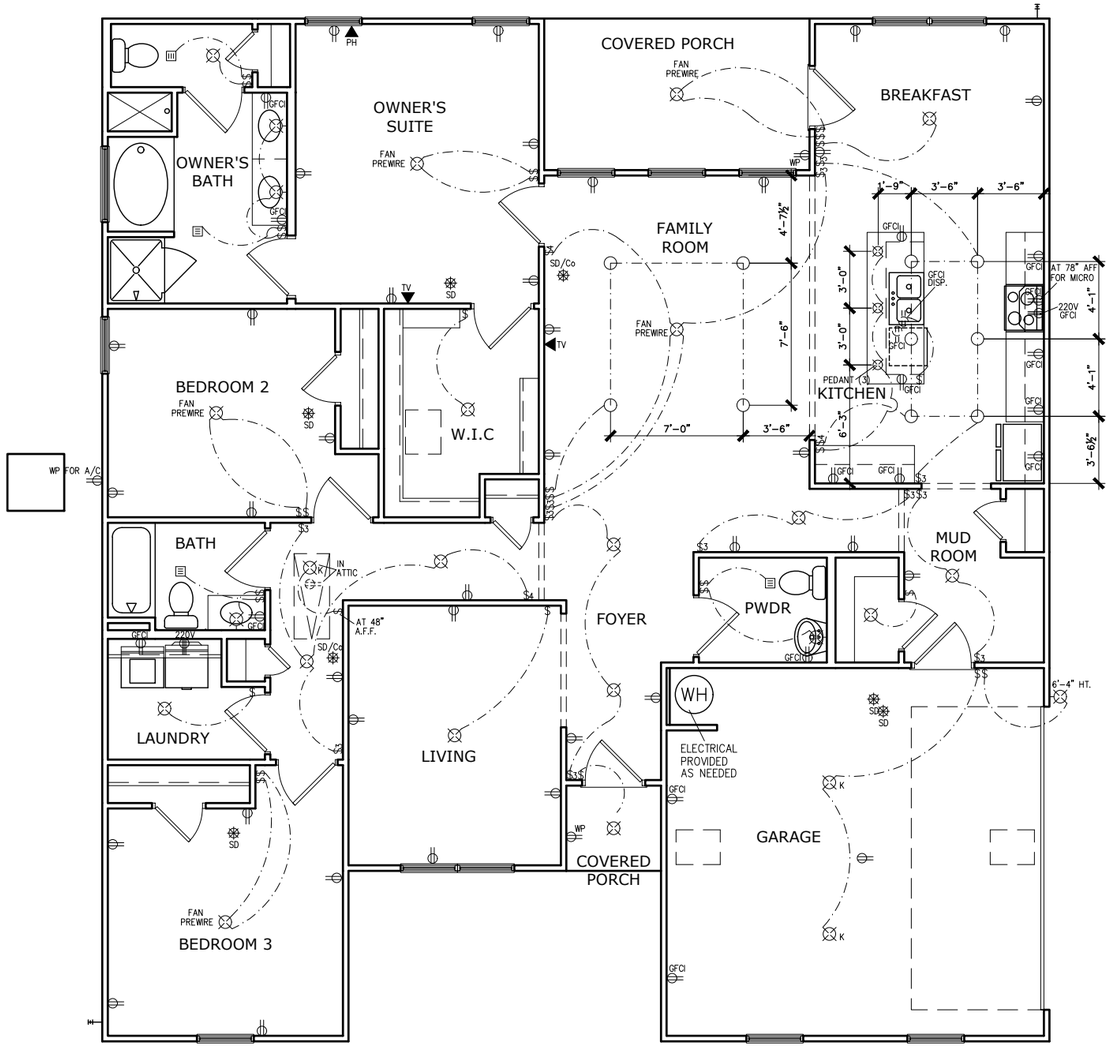
| BY: | CH: |
|---|---|
| SL | AW |
| DATE: | 4/29/2021 |
| FACADE OPT: | C |
| PLAN ID: | |
| FND: | ELEV: |
| ALL | F |
| PAGE NO: | A6.1 |

# CANE MILL ESTATES
# LOT 18




FIRST FLOOR ELECTRICAL PLAN

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

## ELECTRICAL LEGEND

| | | | |
|---|---|---|---|
| $ | SWITCH | TV | TV |
| $3 | 3 WAY SWITCH | | 120V RECEPTACLE |
| $4 | 4 WAY SWITCH | | 120V SWITCHED RECEPTACLE |
| | CEILING FIXTURE | | 220V RECEPTACLE |
| K | KEYLESS | GFCI | GFCI OUTLET |
| | WALL MOUNT FIXTURE | AFCI | ARCH FAULT CIRCUIT INTERRUPTER |
| | CEILING FIXTURE | GL | GAS LINE |
| | FLEX CONDUIT | WL | 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 | | |
| | EXHAUST FAN | | ELECTRICAL WIRING |
| | FAN/LIGHT | | CEILING FIXTURE |

ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES

APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)

| | |
|---|---|
| BREAKFAST/DINING ROOM | 63" ABOVE FINISHED FLOOR |
| KITCHEN PENDANT LIGHTS | 33" ABOVE COUNTER TOP |
| TWO STORY FOYER FIXTURE | 96" ABOVE FINISHED FLOOR |
| CEILING FAN | 96" ABOVE FINISHED FLOOR |

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



REVISION | BY | DATE

SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

ELECTRICAL PLAN
FIRST FLOOR
LANCASTER

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



| | |
|---|---|
| BY: SL | CH: AW |
| DATE: 4/29/2021 | |
| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | ELEV: F |
| PAGE NO: A7.2 | |

# CANE MILL ESTATES
# LOT 18

## Lot Definition

**Project:** Cane Mill Estates
**Building:** 000
**Unit:** 0018
**Community:** Cane Mill Estates
**Builder:** Thomas Kenneth Barlow
**Status:** Sold

Plan: Lancaster F Ranch Side Entry
Orientation: Garage Right
Sq. Ft: 2,015
Bedrooms: 3
Bathrooms: 2.5
Address: 172 Planters Lane
Coats
NC 27521
RTeam: Raleigh West
Slot: 5472
Permit:
Notes:

| Sales Data | |
|---|---|
| Contract: | 89245 |
| Buyer: | Francesca McNeill |
| Sales Agent: | Nicole Stinard |

| Dates | |
|---|---|
| Ratified: | 03/30/2021 |
| Original Start: | 04/23/2021 |
| Start: | 04/23/2021 |
| Scheduled Complete: | 09/02/2021 |



## Lot Definition

| Option | Description | Quantity |
|---|---|---|
| 36" Cabinet 1st Upgr | Note: Bath cabinets to match | 1 |
| Automatic Garage Door Opener | Garage Door Opener - Per Door | 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 |
| Chrome Interior Finish Color Package | Includes chrome kitchen faucet, bath faucets, & fixtures, brushed nickel door hardware (hinges, bumps, knobs/levers, deadbolts), Pkg1 (bn) lighting fixtures, & pewter oval mirror. Separate options also effected: shower door, bath hardware (towel bar/ring, tp holder), shower grab bar, cabinet hardware | 1 |
| Family/Great Room Ceiling Fixture Lights | Family/Great Room Lights - Low Profile Flush Mount LED Lights per plan. | 1 |
| FlPkg 5AA-Floorte Pro, StdCpt (f/Pkg1) | Flooring Package 5AA - Floorte Pro, Standard Carpet (from Package 1). SPC (solid polymer core) 0.5 mm vinyl top layer plank | 1 |
| G-Tub & PF Shwr FD OBATHC | (Garden tub and separate shower with framed door ILO of Large prefab shower . (obathc)) | 1 |
| Kitchen Ceiling Fixture Lights ILO Std | Kitchen Lights - Low Profile Flush Mount LED Lights per Plan ILO Standard Light. | 1 |
| Owner Bath Marble 1 Double ilo LamSgl | ***Includes Vanity Double Bowl Option Do Not Select Both*** | 1 |
| Pendant Lights per Plan | Pendant Lights above Island/Bar Top per plan electrical diagram. To match lighting package selected. NOTE: Choose this option only once. | 1 |
| PreWire for Ceiling Fan | Pre-wire a light location for a future ceiling fan. | 3 |
| Stone 16 C ExtColPkg(f) | | 1 |

| Activity | Description | Selection Description |
|---|---|---|
| Del&Install AppliancePkg | Appliance Package Select - All | Appliance Package Selected |
| Deliver & Install Blinds | Blind Color | White |
| Install Cabinets Complet | Kitchen Counter Tops - All | 5010K-07 Drama Marble |
| Install Cabinets Complet | Secondary Bath Vanity Tops-All | 5010K-07 Drama Marble |
| Install Carpet | Carpet - Standard ALL | Smith Grove II Glimmer 00501 |
| Install Floorte Pro (LP) | Floorte Pro 1stUpgr ALL | Presto Plus - 400 Weathered Barnboard |
| Install Marble Tops | RDU Marble Vanity Top Lvl 1 | Matte-#190 White w/Parchment w/oval bowl |
| 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-Option Baths | Highlands II Sparta 565 |
| PM Install Vinyl Floor | VinylPkg-Owner Bath | Highlands II Sparta 565 |
| PM Install Vinyl Floor | VinylPkg-Std 2nd Baths/Laundry | Highlands II Sparta 565 |



| REVISION | DATE | BY |
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SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

DETAILS
LOT DEFINITION
LANCASTER

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



| BY: | CH: |
|---|---|
| SL | AW |

DATE: 4/29/2021
FACADE OPT: C
PLAN ID:
FND: ALL
ELEV: F
PAGE NO: A9.1

DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ Residential ☒

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

Design Loads:

1. Roof
   - 1.1 Live ..... 20 PSF
   - 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 Sms = %g
     - 6.5.2 Sm1 = %g
   - 6.6 Seismic Base Shear
     - 6.6.1 Vx =
     - 6.6.2 Vy =
   - 6.7 Basic Structural System (check one)
     - ☒ Bearing Wall
     - ☐ Building Frame
     - ☐ Moment Frame
     - ☐ Dual w/ Special Moment Frame
     - ☐ Dual w/ Intermediate R/C or Special Steel
     - ☐ Inverted Pendulum
   - 6.8 Arch/Mech Components Anchored? ..... No
   - 6.9 Lateral Design Control: Seismic ☐ Wind ☒
7. Assumed Soil Bearing Capacity ..... 2000psf

SUMMIT
ENGINEERING LABORATORY TESTING

STRUCTURAL PLANS PREPARED FOR:

# LANCASTER

PROJECT ADDRESS:
TBD

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

ARCHITECT/DESIGNER:
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

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

PLAN ABBREVIATIONS:

| | | | |
|---|---|---|---|
| AB | ANCHOR BOLT | PT | PRESSURE TREATED |
| AFF | ABOVE FINISHED FLOOR | RS | ROOF SUPPORT |
| CJ | CEILING JOIST | SC | STUD COLUMN |
| CLR | CLEAR | SJ | SINGLE JOIST |
| DJ | DOUBLE JOIST | SPF | SPRUCE PINE FIR |
| DSP | DOUBLE STUD POCKET | SST | SIMPSON STRONG-TIE |
| 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 | WWF | WELDED WIRE FABRIC |

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

SHEET LIST:



| Sheet No. | Description |
|---|---|
| CS1 | Cover Sheet, Specifications, Revisions |
| CS2 | Specifications Continued |
| S1.0m | Monolithic Slab Foundation |
| S1.0s | Stem Wall Foundation |
| S1.0c | Crawl Space Foundation |
| S1.0b | Basement Foundation |
| S2.0 | Basement Framing Plan |
| S3.0 | First Floor Framing Plan |
| S4.0 | Second Floor Framing Plan |
| S5.0 | Roof Framing Plan |
| S6.0 | Basement Bracing Plan |
| S7.0 | First Floor Bracing Plan |
| S8.0 | Second Floor Bracing Plan |



REVISION LIST:

| Revision No. | Date | Project No. | Description |
|---|---|---|---|
| 1 | 2.25.19 | 3832.236 | Revised per 2018 NCRC |
| 2 | 11.27.19 | 3832.236R | Removed truss bearing at rear porch beam w/ non-bonus option |
| 3 | 1.6.19 | 3832.309 | Revised per new architectural files and truss layouts |
| 4 | 8.28.20 | 3832.309R | Update HVAC and pull down stair location |

Cane Mill
Lot 18

NORTH CAROLINA PROFESSIONAL SEAL 046048 ENGINEER BRIAN C. PHILBRICK, JR.
8/31/20

STRUCTURAL MEMBERS ONLY


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


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

PROJECT
Lancaster (RH)
Coversheet
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave
Apex, NC 27539

CURRENT DRAWING
DATE: 08/28/2020
SCALE: 1/8"=1'-0"
PROJECT #: 3832.309R
DRAWN BY: EMB
CHECKED BY: WAJ

ORIGINAL DRAWING

| DATE | PROJECT # |
|---|---|
| 11/16/2018 | 3832.175 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
CS1

GENERAL STRUCTURAL NOTES:

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

FOUNDATIONS:

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

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 +2% of target values as follows:
   3.1. Footings: 5%
   3.2. Exterior Slabs: 5%
4. No admixtures shall be added to any structural concrete without written permission of the SER
5. Concrete slabs-on-grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction".
6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.
7. Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
9. Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
10. All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF. shall be securely supported during the concrete pour. Fibermesh may be used in lieu of WWF.

CONCRETE REINFORCEMENT:

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 (1.5 pounds per cubic yard)
4. Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard.
5. Steel Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
7. Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
9. Where reinforcing dowels are required , they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

WOOD FRAMING:

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

WOOD TRUSSES:

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

WOOD STRUCTURAL PANELS:

1. Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.
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 are recommended in accordance with the AFA.

EXTERIOR WOOD FRAMED DECKS:

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

STRUCTURAL STEEL:

1. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and of the manual of Steel Construction "Load Resistance Factor Design" latest editions.
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 shopt and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.

Cane Mill
Lot 18

NORTH CAROLINA PROFESSIONAL SEAL 046048 ENGINEER BRIAN C. PHILBRICK, JR. 8/31/20

STRUCTURAL MEMBERS ONLY

SUMMIT
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3070 Hammond Business Place
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NORTH CAROLINA CERTIFICATE OF LICENSURE
SUMMIT Engineering, Laboratory & Testing, P.C.
C-4361

PROJECT
Lancaster (RH)
Coversheet
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave
Apex, NC 27539

CURRENT DRAWING
DATE: 08/28/2020
SCALE: 1/8"=1'-0"
PROJECT #: 3832309R
DRAWN BY: EMB
CHECKED BY: WAJ

ORIGINAL DRAWING

| DATE | PROJECT # |
|---|---|
| 11/16/2018 | 3832.115 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
CS2

FOUNDATION NOTES:

1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
2. STRUCTURAL CONCRETE TO BE $F_c$ = 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
3. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" 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 THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
5. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.
6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
7. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
8. PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
9. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
11. CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
12. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 7" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
13. ABBREVIATIONS:

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

14. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICAL. (UNO)
15. WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.
16. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR 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 FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
17. ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLDOWNS. ADDITIONAL INFO. PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCRC.

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES, COMPLETED/REVISED ON 08/01/2020. 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 GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1 PER TABLE R405.1

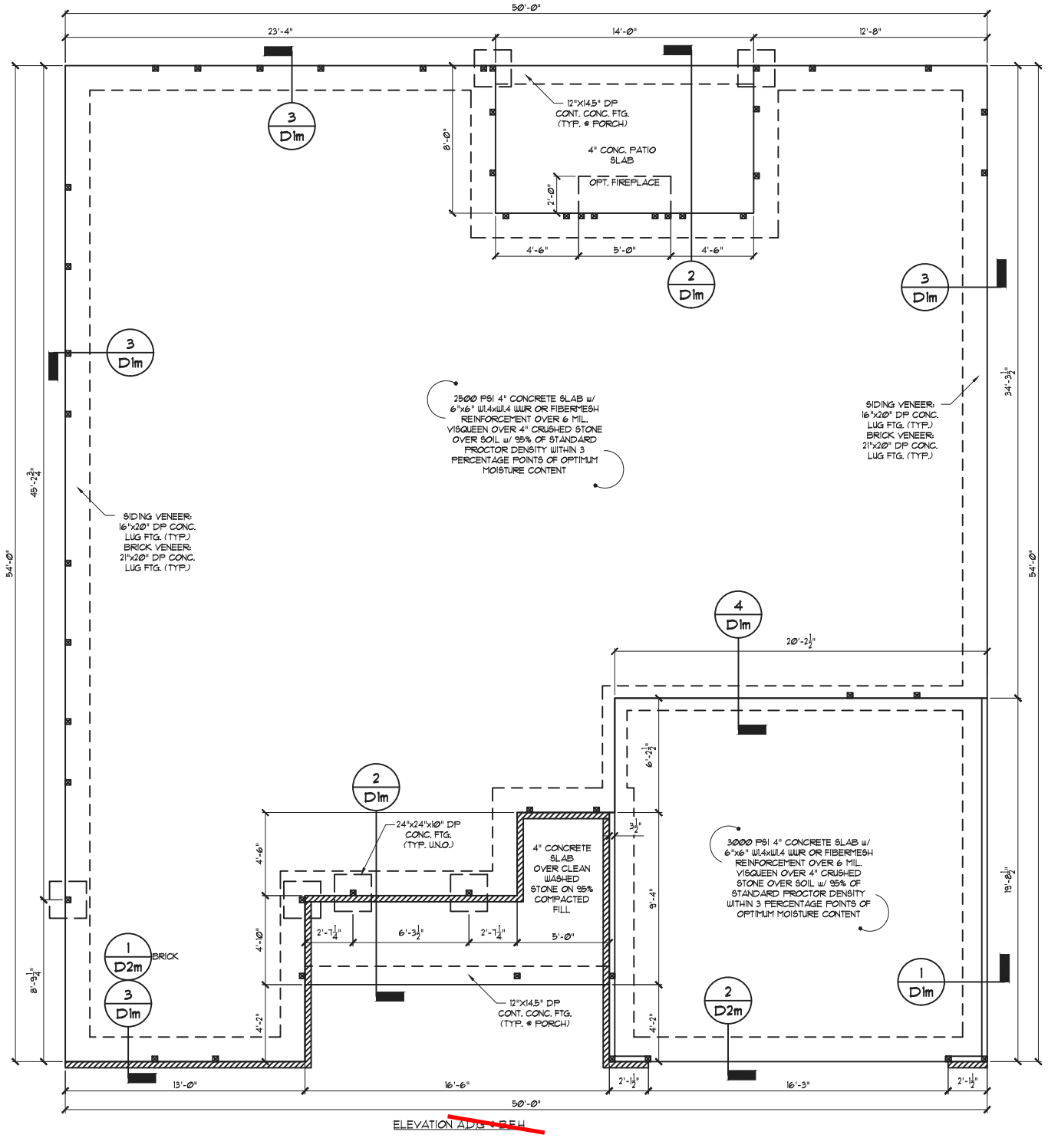
## STRUCTURAL MEMBERS ONLY

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

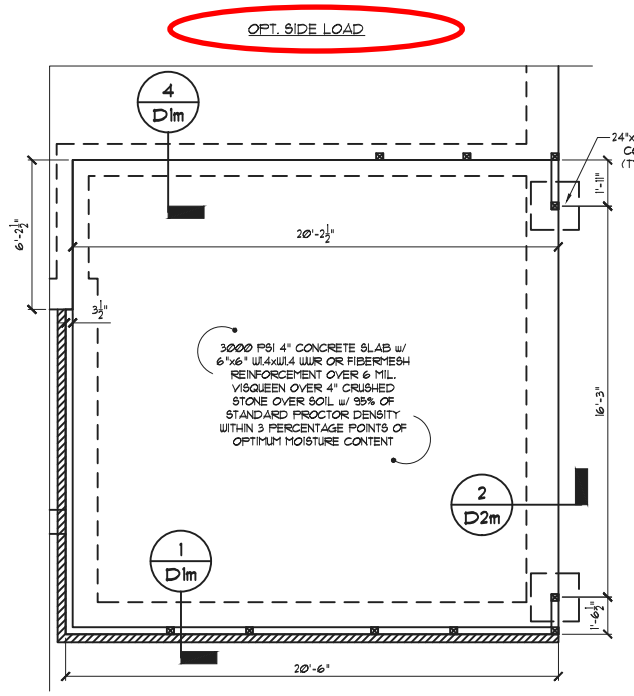
## MONOLITHIC SLAB FOUNDATION

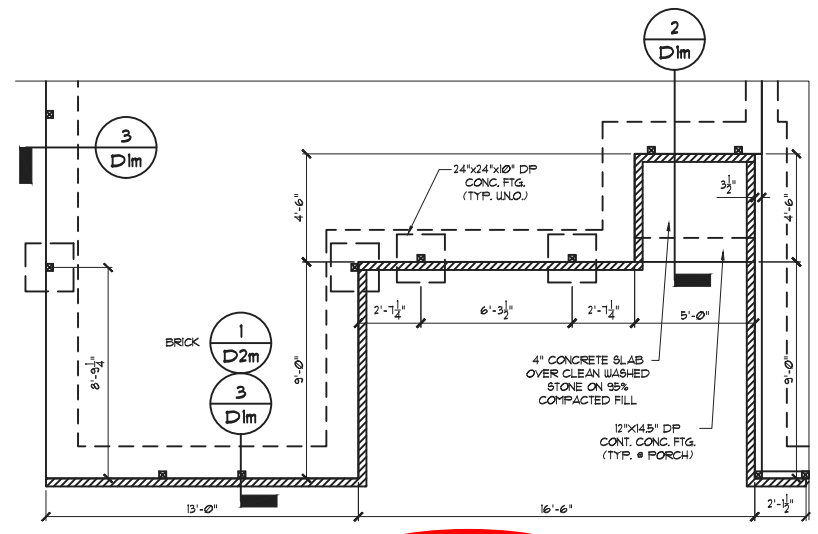
SCALE: 1/8"=1'




ELEVATION A/B/1 REV

OPT. SIDE LOAD




ELEVATION C.F.I

Cane Mill Lot 18

STRUCTURAL MEMBERS ONLY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NORTH CAROLINA CERTIFICATE OF LICENSURE
SUMMIT Engineering, Laboratory & Testing, P.C.
C-4361

PROJECT
Lancaster (RH)
Monolithic Slab Fnd.

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

CURRENT DRAWING
DATE: 08/28/2020
SCALE: 1/8"=1'-0"
PROJECT #: 3832.309R
DRAWN BY: EMB
CHECKED BY: WAJ

ORIGINAL DRAWING

| DATE | PROJECT # |
|---|---|
| 11/16/2018 | 3832.115 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S1.0m

NORTH CAROLINA PROFESSIONAL SEAL 046048 ENGINEER BRIAN C. PHILBRICK, JR. 8/31/20

GENERAL STRUCTURAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
4. PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:
   MICRO=LAM (LVL) $F_b$ = 2600 PSI, $F_v$ = 285 PSI, E = 1.9x10$^6$ PSI
   PARALLAM (PSL) $F_b$ = 2900 PSI, $F_v$ = 290 PSI, E = 1.25x10$^6$ PSI
5. ALL WOOD MEMBERS SHALL BE #2 SYP UNLESS NOTED ON PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE #2 SYP (UNO).
6. ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 #2 SYP STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
7. ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 7" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
9. CONTRACTOR TO PROVIDED LOCKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
10. FLITCH BEAMS, 4-PLY LVL'S AND 3-PLY SIDE LOADED LVL'S SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3f. MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
11. ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP #2, DROPPED. (UNLESS NOTED OTHERWISE)
12. ABBREVIATIONS:

| | |
|---|---|
| DJ = DOUBLE JOIST | SJ = SINGLE JOIST |
| GT = GIRDER TRUSS | FT = FLOOR TRUSS |
| SC = STUD COLUMN | DR = DOUBLE RAFTER |
| EE = EACH END | TR = TRIPLE RAFTER |
| TJ = TRIPLE JOIST | OC = ON CENTER |
| CL = CENTER LINE | 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 & 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 COMPLETED/REVISED ON 08/28/2020. 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 GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

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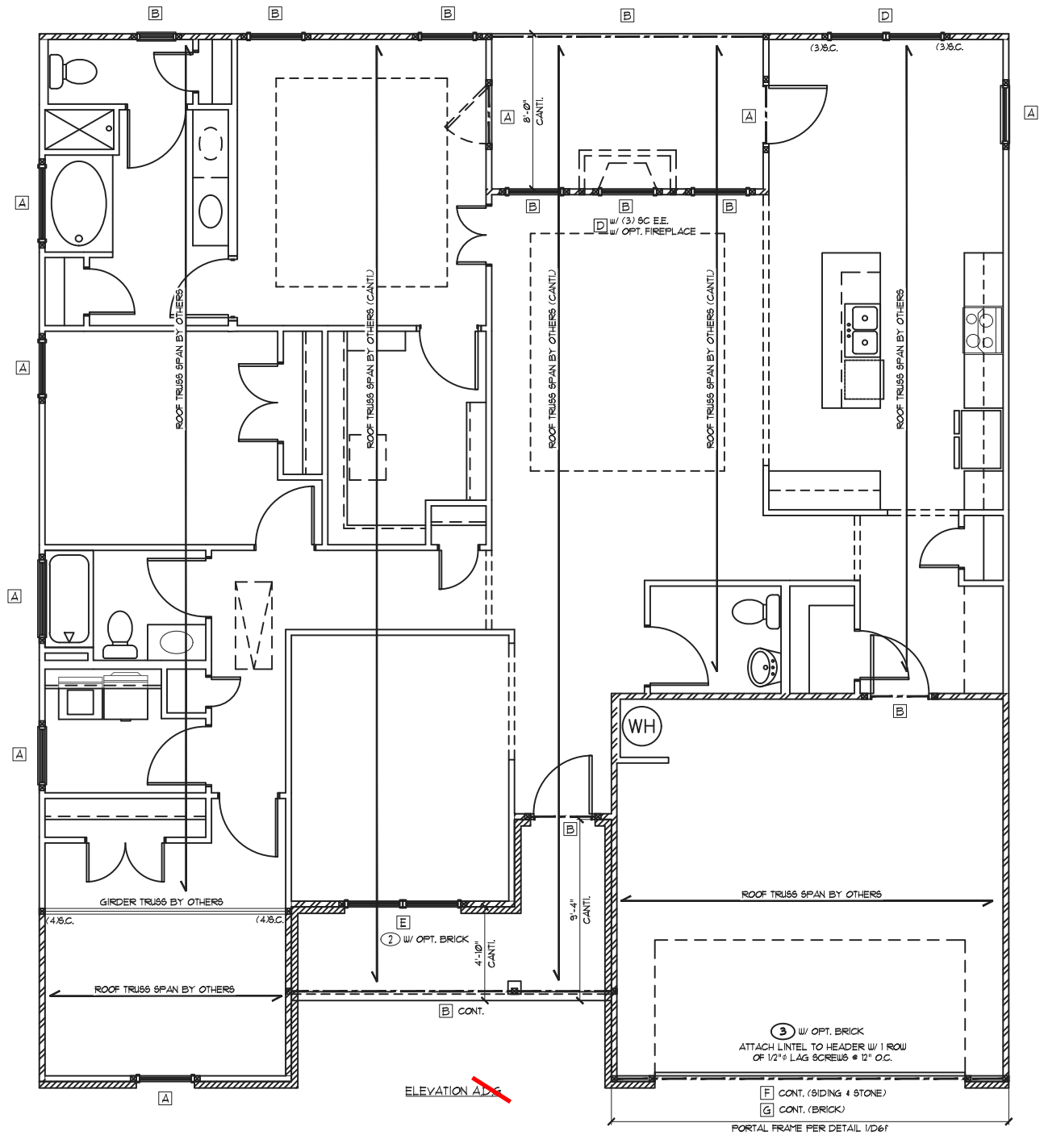
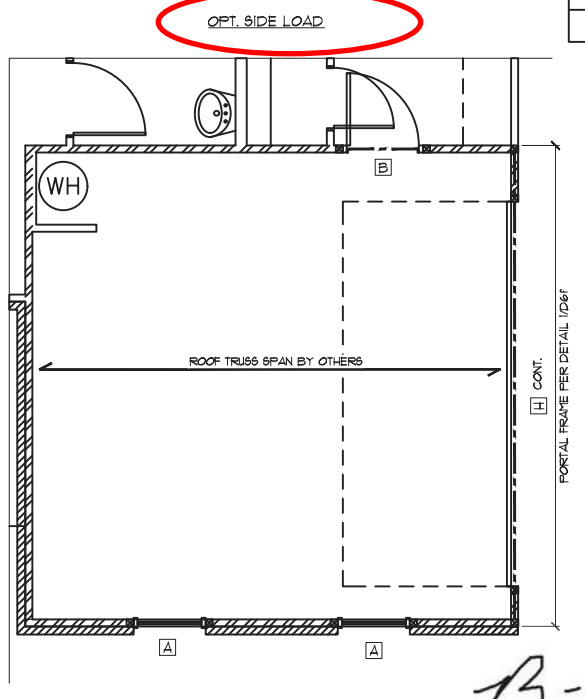
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

## FIRST FLOOR FRAMING PLAN

SCALE: 1/8"=1'

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




## 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) 2x8 | (2) |
| C | B5 | (2) 2x10 | (2) |
| D | B6 | (2) 2x12 | (2) |
| E | B7 | (2) 9-1/4" LVL | (3) |
| F | B8 | (2) 11-7/8" 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) 9-1/4" LVL | (3) |
| L | B14 | (3) 11-7/8" LVL | (3) |
| M | B16 | (3) 14" LVL | (3) |
| N | B17 | (3) 16" LVL | (3) |
| O | B18 | (3) 18" LVL | (3) |
| P | B19 | (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 | L5x3-1/2"x5/16" | GREATER THAN 10'-0" |
| 4 | L5x3-1/2"x5/16" ROLLED OR EQUIV. | ALL ARCHED OPENINGS |

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

ALL HEADERS WITH BRICK ABOVE: 1(UNO)

## WALL STUD SCHEDULE

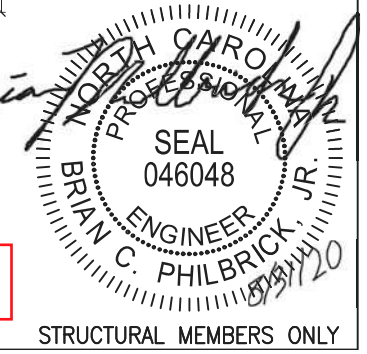
1ST & 2ND FLOOR LOAD BEARING STUDS:
2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C.
1ST FLOOR LOAD BEARING STUDS W/ WALK-UP ATTIC:
2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C.
BASEMENT LOAD BEARING STUDS:
2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C.
NON-LOAD BEARING STUDS (ALL FLOORS):
2x4 STUDS @ 24" O.C.
TWO STORY WALLS:
2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-0" O.C. VERTICALLY

## KING STUD REQUIREMENTS

| OPENING WIDTH | KINGS (EACH END) |
|---|---|
| LESS THAN 3'-0" | (1) |
| 3'-0 TO 4'-0" | (2) |
| 4'-0" TO 8'-0" | (3) |
| 8'-0" TO 12'-0" | (5) |
| 12'-0" TO 16'-0" | (6) |

KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

Cane Mill
Lot 18

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

PROJECT
Lancaster (RH)
First Floor Framing

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

CURRENT DRAWING
DATE: 08/28/2020
SCALE: 1/8"=1'-0"
PROJECT #: 3832.309R
DRAWN BY: EMB
CHECKED BY: WAJ

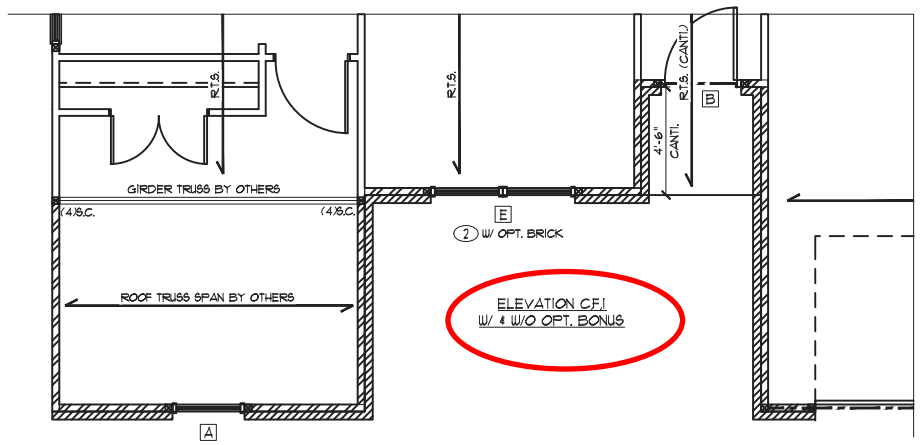
ORIGINAL DRAWING

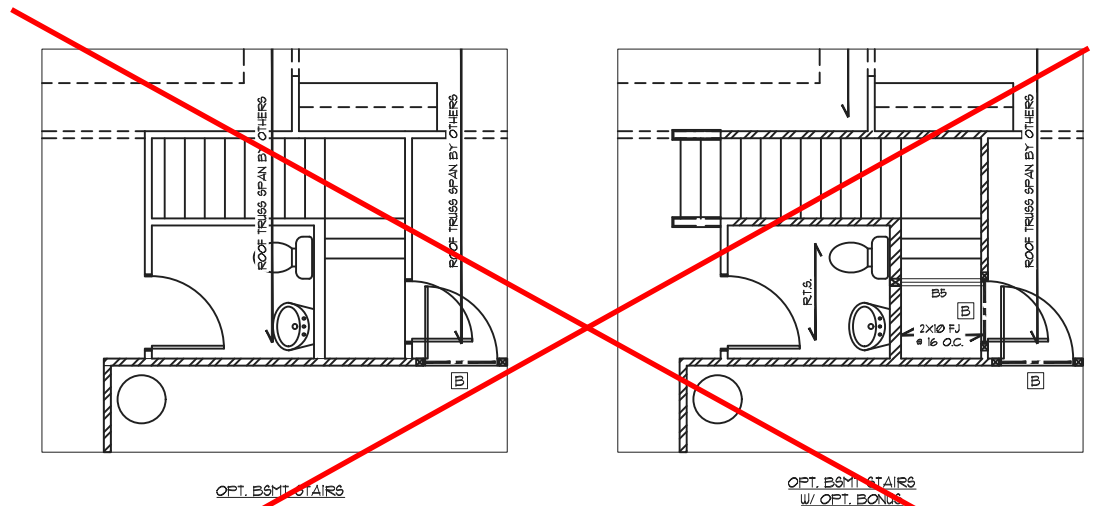
| DATE | PROJECT # |
|---|---|
| 11/16/2018 | 3832.175 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S3.0

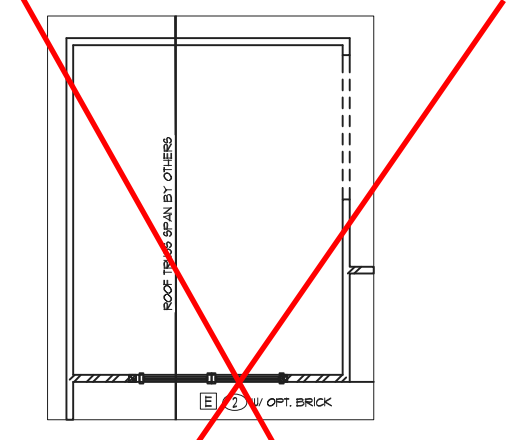
SEE SHEET S3.Ø FOR NOTES AND MORE INFORMATION



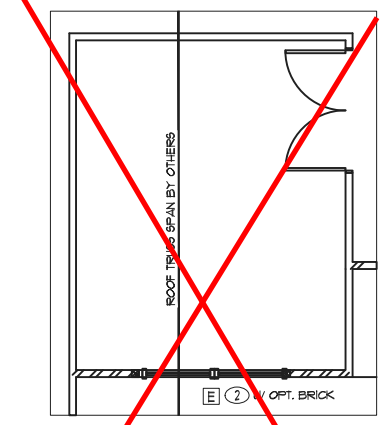




OPT. BSMT. STAIRS

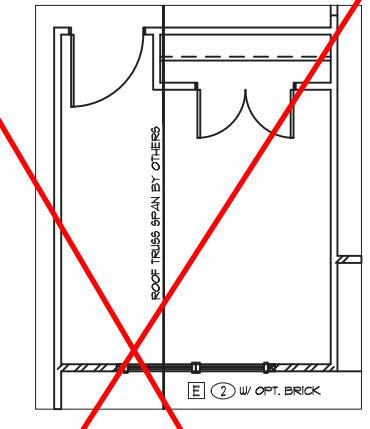
OPT. BSMT. STAIRS
W/ OPT. BONUS




OPT. DINING ILO LIVING




OPT. STUDY ILO LIVING




OPT. BEDROOM 4
ILO DINING/LIVING/STUDY

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**STRUCTURAL ANALYSIS BASED ON 2018 NCRC.**

## FIRST FLOOR FRAMING PLAN

SCALE: 1/8"=1'

Cane Mill
Lot 18

NORTH CAROLINA PROFESSIONAL SEAL 046048 ENGINEER BRIAN C. PHILBRICK, JR. 07/31/20

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PROJECT
Lancaster (RH)
First Floor Framing
CLIENT
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Apex, NC 27539

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ORIGINAL DRAWING

| DATE | PROJECT # |
|---|---|
| 11/16/2018 | 3832.115 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S3.2

## TRUSS UPLIFT CONNECTOR SCHEDULE

| MAX. UPLIFT | ROOF TO WALL | FLOOR TO FLOOR | FLOOR TO FND |
|---|---|---|---|
| 600 LBS | H2.5A | PER WALL SHEATHING & FASTENERS | |
| 1200 LBS | (2) H2.5A | CS16 (END = 11") | DTT2Z |
| 1450 LBS | HTS20 | CS16 (END = 11") | DTT2Z |
| 2000 LBS | (2) HTS20 | (2) CS16 (END = 11") | DTT2Z |
| 2900 LBS | (2) HTS20 | (2) CS16 (END = 11") | HTT4 |
| 3685 LBS | LGT3-SDS2.5 | MSTC52 | HTT4 |

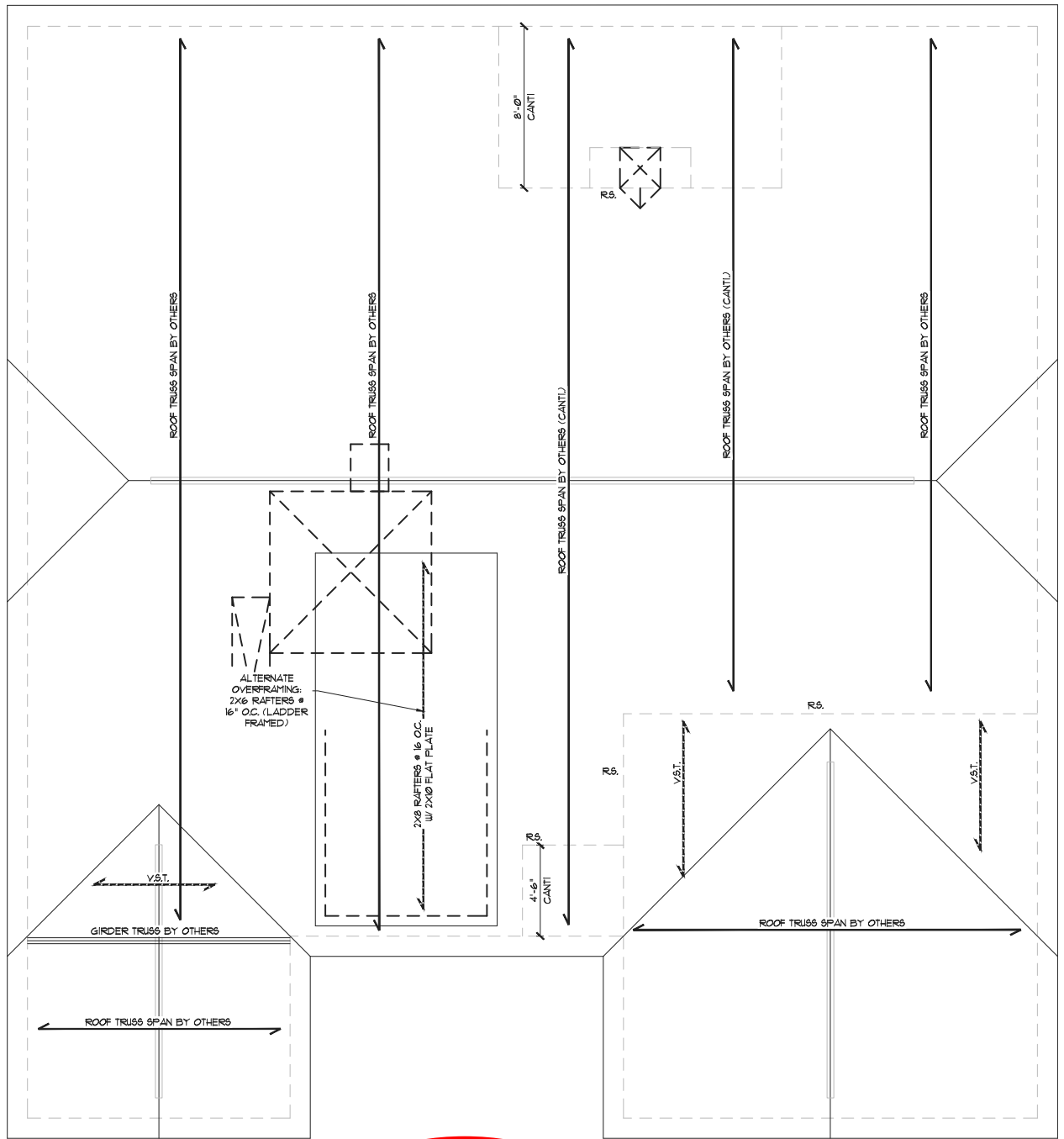
1. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
2. UPLIFT VALUES LISTED ARE FOR STP #2 GRADE MEMBERS.
3. REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE 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, UNO)

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

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R802.11.1. 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 NCRC. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED/REVISED ON 09/01/2020. 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 GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.




ELEVATION C.F.I

RS. = ROOF SUPPORT

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**STRUCTURAL ANALYSIS BASED ON 2018 NCRC.**

## ROOF FRAMING PLAN

SCALE: 1/8"=1'

Cane Mill
Lot 18

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C-4361

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

CURRENT DRAWING
DATE: 08/28/2020
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PROJECT #: 3832.309R
DRAWN BY: EMB
CHECKED BY: WAJ

ORIGINAL DRAWING

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|---|---|
| 11/16/2018 | 3832.115 |

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SHEET
S5.2

| REQUIRED BRACED WALL PANEL CONNECTIONS | | | | |
|---|---|---|---|---|
| METHOD | MATERIAL | MIN. THICKNESS | REQUIRED CONNECTION @ PANEL EDGES | REQUIRED CONNECTION @ INTERMEDIATE SUPPORTS |
| CS-WSP | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS @ 6" O.C. | 6d COMMON NAILS @ 12" O.C. |
| GB | GYPSUM BOARD | 1/2" | 5d COOLER NAILS** @ 7" O.C. | 5d COOLER NAILS** @ 7" O.C. |
| WSP | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS @ 6" O.C. | 6d COMMON NAILS @ 12" O.C. |
| FF | WOOD STRUCTURAL PANEL | 7/16" | PER FIGURE R602.10.1 | PER FIGURE R602.10.1 |
| **OR EQUIVALENT PER TABLE R1002.3.5 | | | | |

BRACED WALL NOTES:

1. WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2018 NORTH CAROLINA RESIDENTIAL CODE.
2. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
3. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
4. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R602.10.1
5. 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.
6. MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.1.
7. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO.)
8. FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
9. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
10. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
11. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
12. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.4.3 OF THE 2018 NCRC.
13. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.4
14. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.5
15. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.4.6
16. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.1 (UNO.)
17. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
18. ABBREVIATIONS:

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

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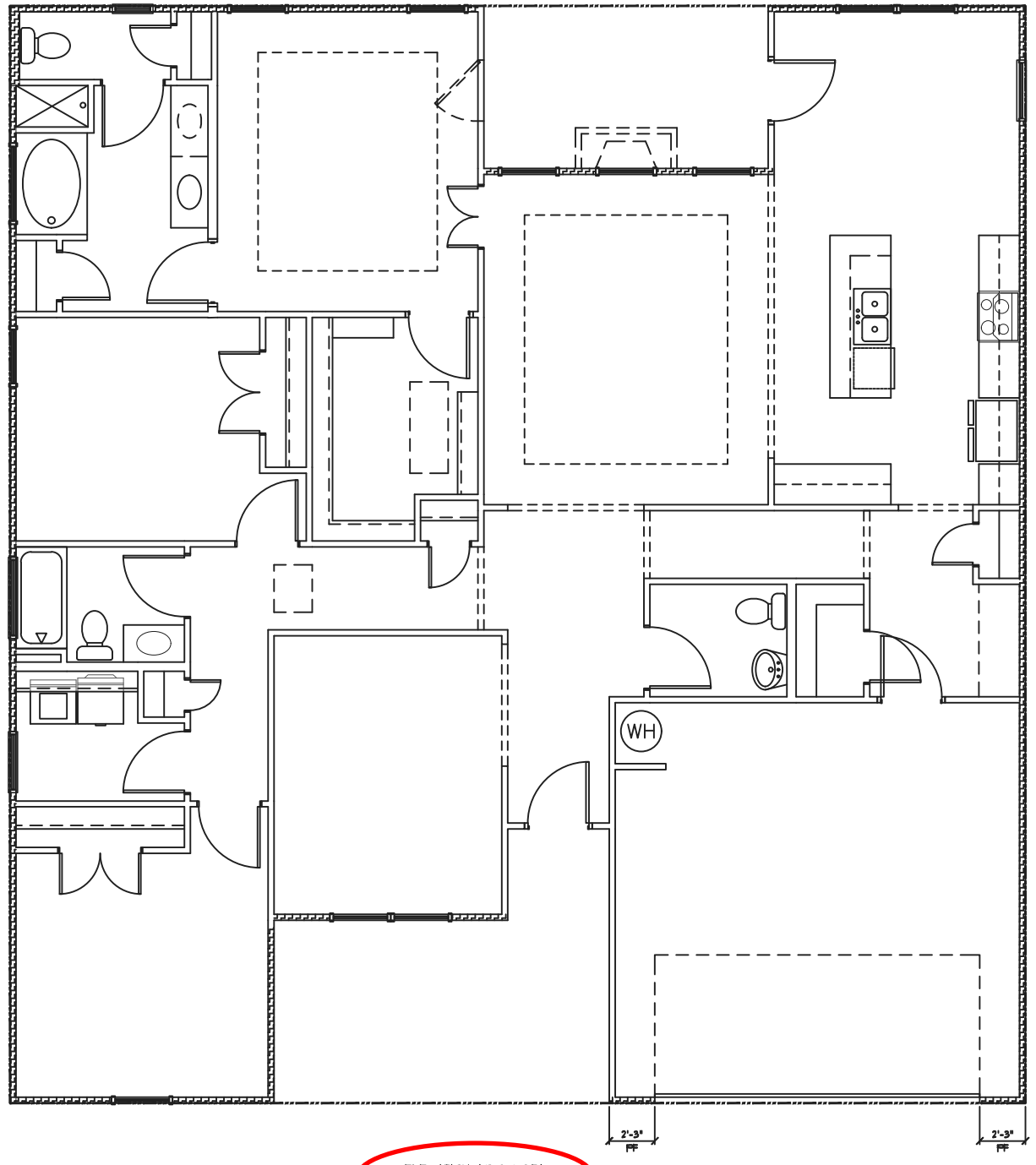
INSTALL HOLD-DOWNS PER SECTION R602.10.4 AND FIGURE R602.10.3.4) OF THE 2018 NCRC.

| FIRST FLOOR BRACING (FT) | | |
|---|---|---|
| CONTINUOUS SHEATHING METHOD ELEV ADG & CFI | | |
| | REQUIRED | PROVIDED |
| FRONT | 8.8 | 22.2 |
| LEFT | 8.4 | 40.0 |
| REAR | 8.8 | 21.2 |
| RIGHT | 8.4 | 51.0 |

| FIRST FLOOR BRACING (FT) | | |
|---|---|---|
| CONTINUOUS SHEATHING METHOD - ELEV BEH | | |
| | REQUIRED | PROVIDED |
| FRONT | 8.8 | 19.2 |
| LEFT | 8.4 | 40.0 |
| REAR | 8.8 | 21.2 |
| RIGHT | 8.4 | 51.0 |

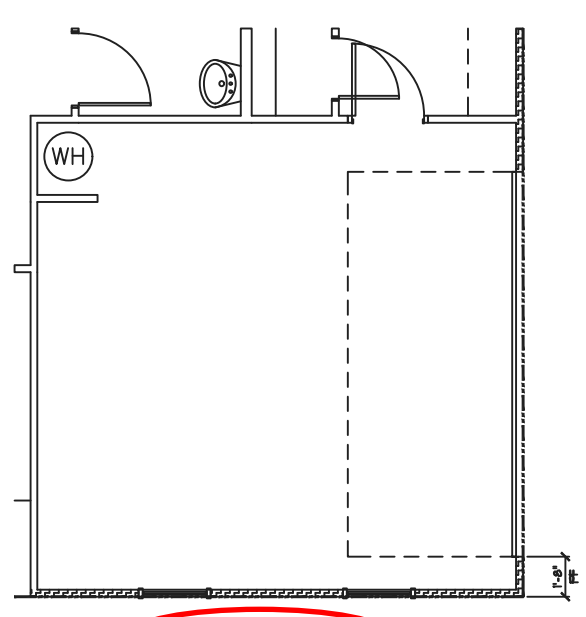
REAR / LEFT / HOUSE / RIGHT / FRONT




ELEVATION ADG & CFI

ELEVATION BEH

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




OPT. SIDE ENTRY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

## FIRST FLOOR BRACING PLAN

SCALE: 1/8"=1'


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PROJECT
Lancaster (RH)
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CLIENT
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Apex, NC 27539

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ORIGINAL DRAWING

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| 11/16/2018 | 3832.115 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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NORTH CAROLINA PROFESSIONAL SEAL 046048 ENGINEER BRIAN C. PHILBRICK, JR. 8/31/20

Cane Mill
Lot 18

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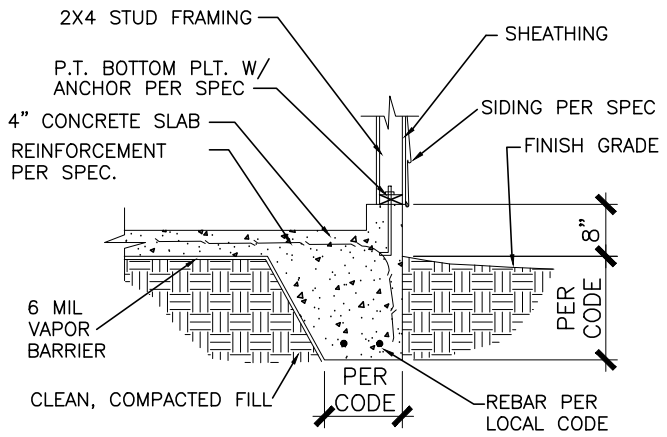


1 D1 GARAGE CURB DETAIL

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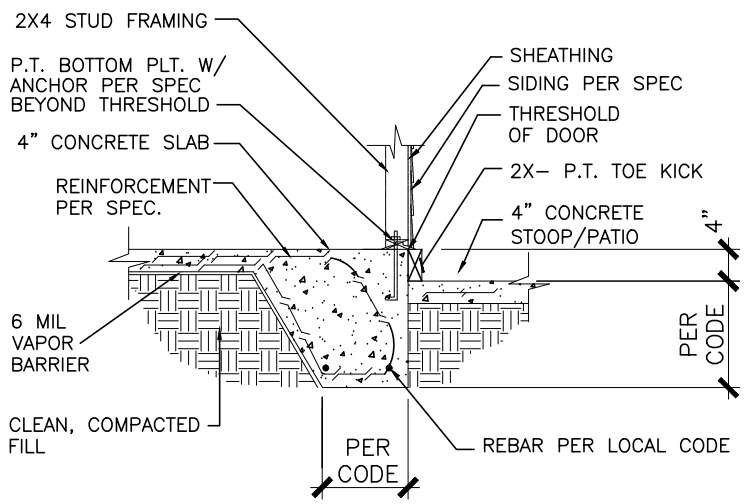


2 D1 SECTION @ PORCH/PATIO

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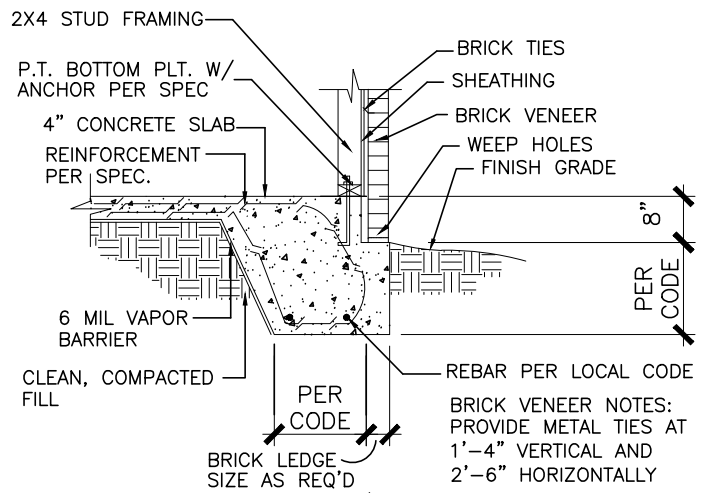


3 D1 SECTION W/BRICK LEDGE

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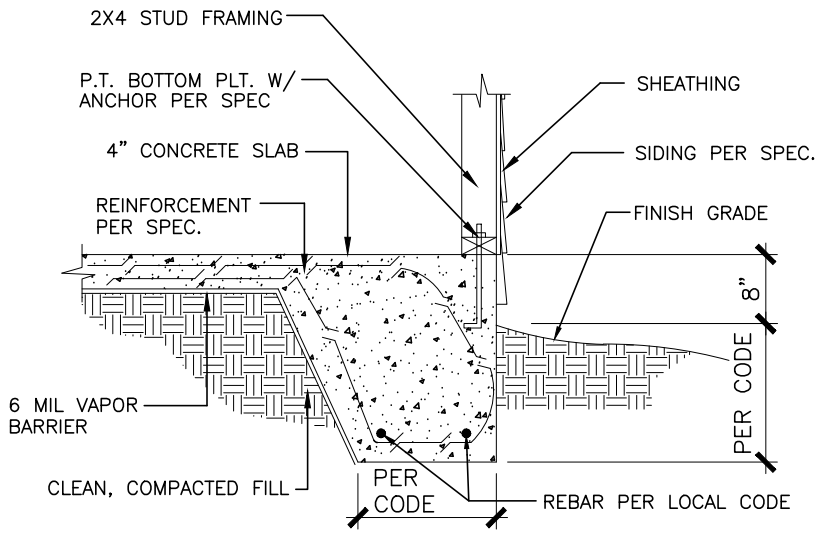


4 D1 TYPICAL SLAB DETAIL

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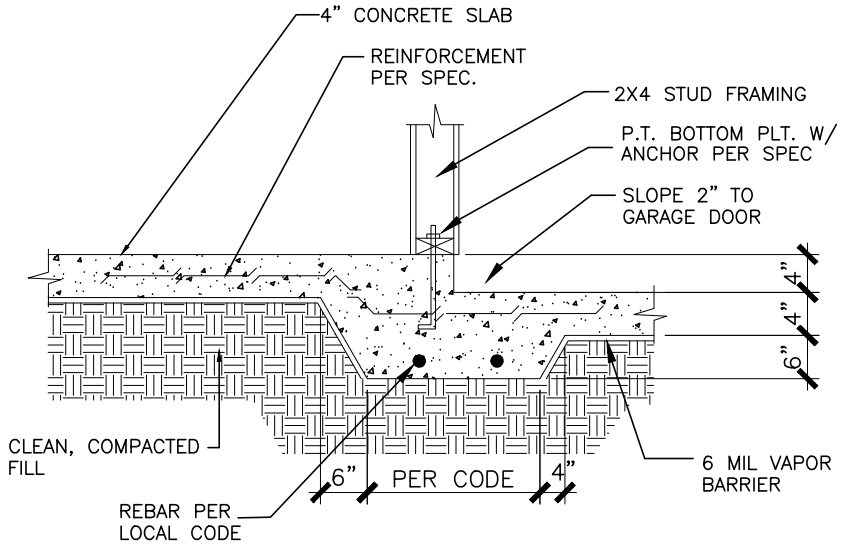


5 D1 SECTION @ GARAGE

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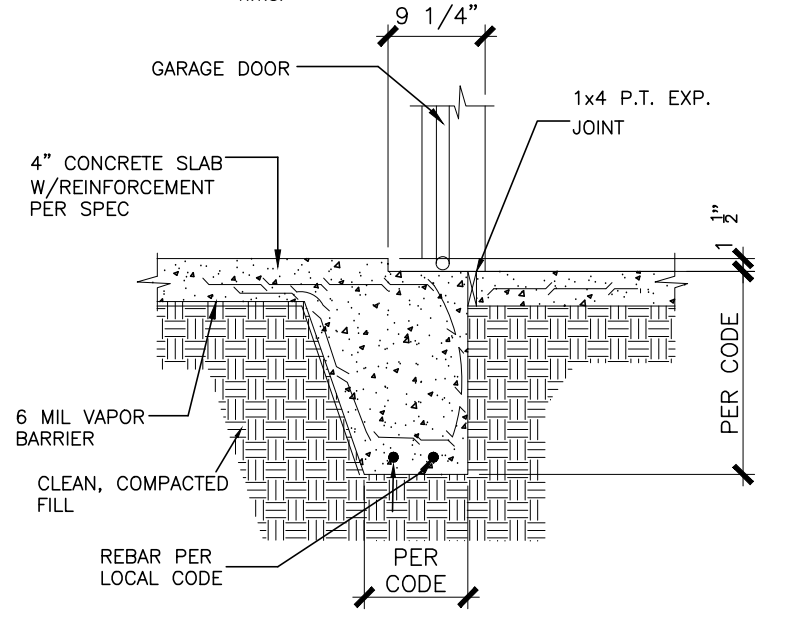


6 D1 TYPICAL GARAGE DOOR DETAIL

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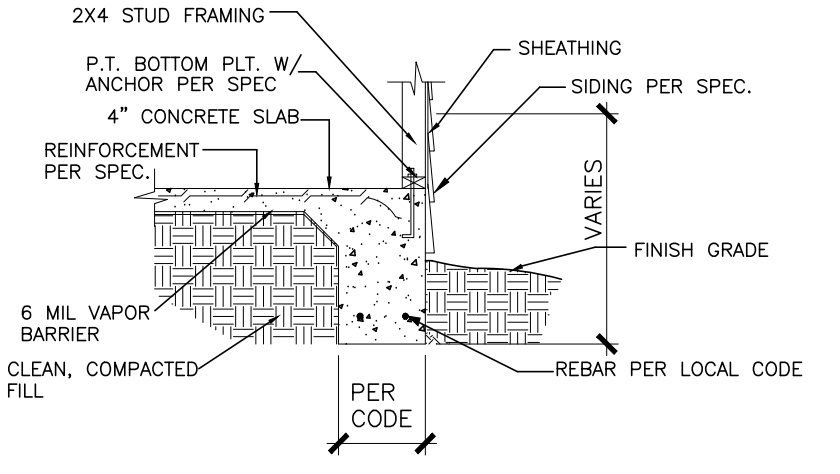


7 D1 TYPICAL TURNDOWN SLAB DETAIL

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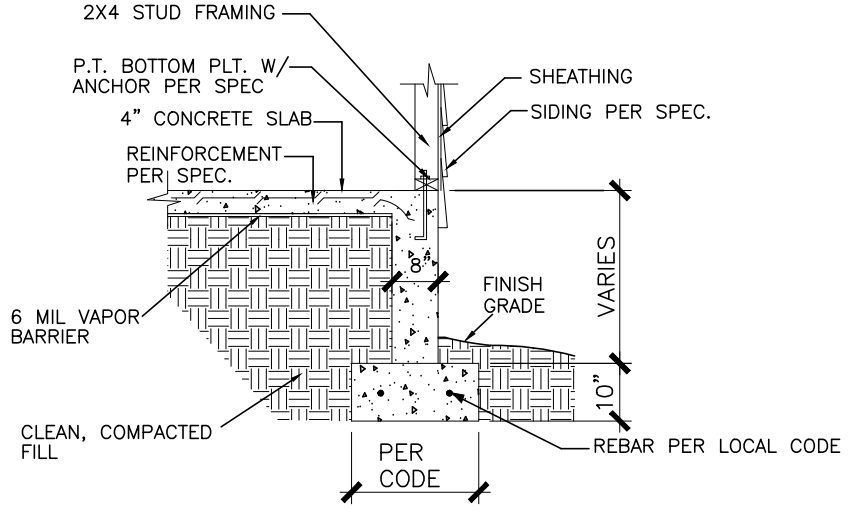


8 D1 TYPICAL STEM WALL DETAIL

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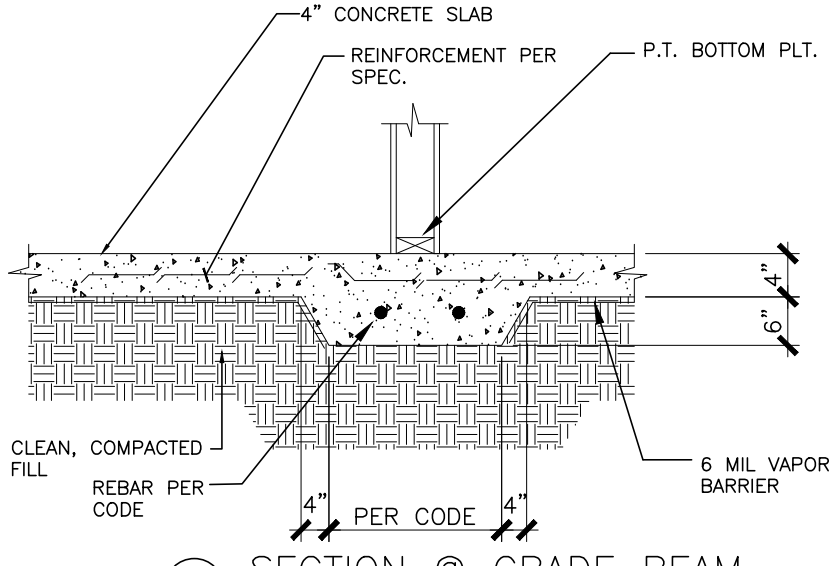


9 D1 SECTION @ GRADE BEAM

N.T.S.



| REVISION | DATE | BY |
|---|---|---|
| UPDATED PER KN. REDLINES | 9/1/16 | AW |

**SMITH DOUGLAS** HOMES
QUALITY | INTEGRITY | VALUE

SLAB FOUNDATION DETAILS

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



| BY: | CH: |
|---|---|
| BB | AW |
| DATE: 6/17/16 | |
| FACADE OPT: | |
| PLAN ID: ALL | |
| FND: ALL | ELEV: |
| PAGE NO: D1 | |

GENERAL STRUCTURAL NOTES:

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

FOUNDATIONS:

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

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 +2% of target values as follows:
   3.1. Footings: 5%
   3.2. Exterior Slabs: 5%
4. No admixtures shall be added to any structural concrete without written permission of the SER
5. Concrete slabs-on-grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction".
6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.
7. Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
9. Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour. Fibermesh may be used in lieu of W.W.F.

CONCRETE REINFORCEMENT:

1. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual 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 (1.5 pounds per cubic yard)
4. Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard.
5. Steel Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
7. Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
9. Where reinforcing dowels are required , they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

WOOD FRAMING:

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

WOOD TRUSSES:

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

WOOD STRUCTURAL PANELS:

1. Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.
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 are recommended in accordance with the AFA.

EXTERIOR WOOD FRAMED DECKS:

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

STRUCTURAL STEEL:

1. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and of the manual of Steel Construction "Load Resistance Factor Design" latest editions.
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 shopt and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.

NORTH CAROLINA PROFESSIONAL SEAL 043823 ENGINEER WESLEY A. JONES — 2/18/20

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

PROJECT
Standard Details
Notes and Specifications

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

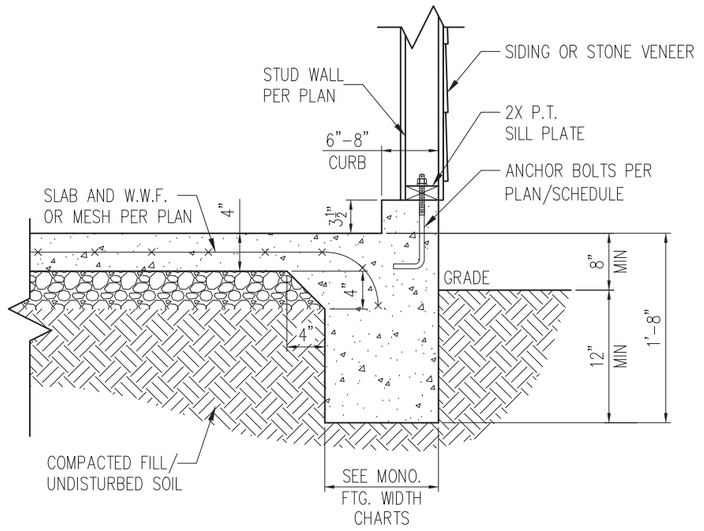
CURRENT DRAWING
DATE: 2/18/20
SCALE: NTS
PROJECT #: 3832
DRAWN BY: LBV
CHECKED BY: WAJ

ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

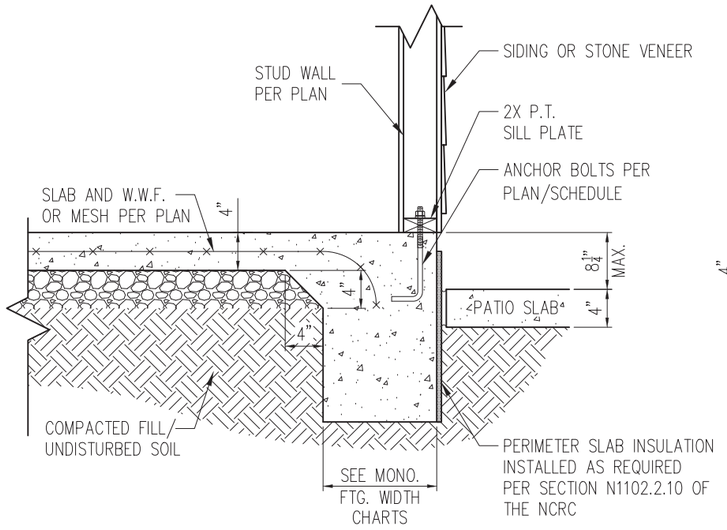
SHEET
CS2




STANDARD – SIDING/STONE

1 D1m TYP. GARAGE CURB DETAIL

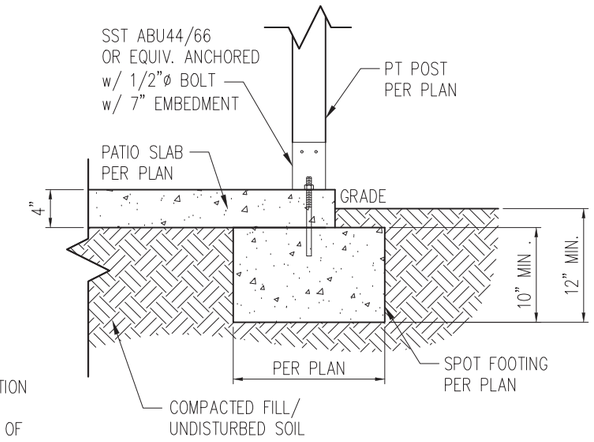
3/4" = 1'-0"




STANDARD – SIDING/STONE

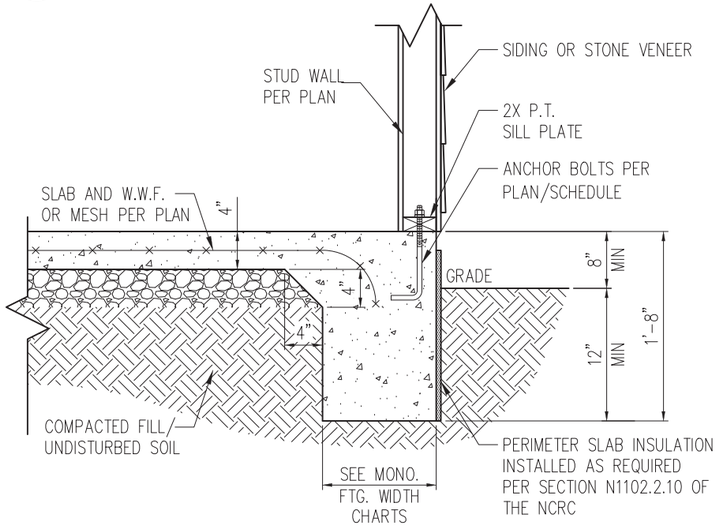
2 D1m PATIO SLAB DETAIL

3/4" = 1'-0"




2A D1m COVERED PATIO DETAIL

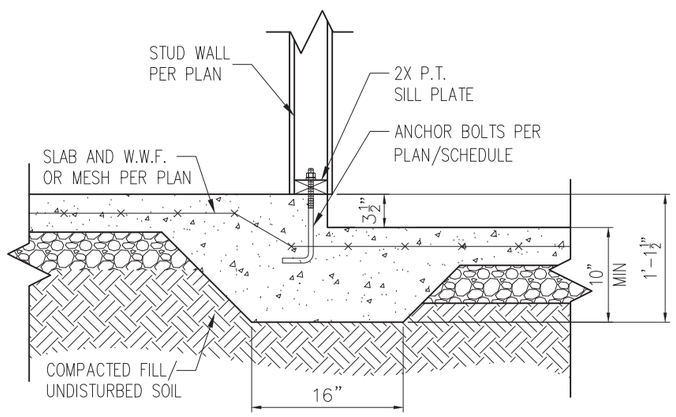
3/4" = 1'-0"




STANDARD – SIDING/STONE

3 D1m TYP. SLAB DETAIL

3/4" = 1'-0"




4 D1m STEP IN GARAGE

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.

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 | | | |

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SUMMIT Engineering, Laboratory & Testing, P.C.
C-4361

PROJECT
Standard Details
Monolithic Slab Details

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

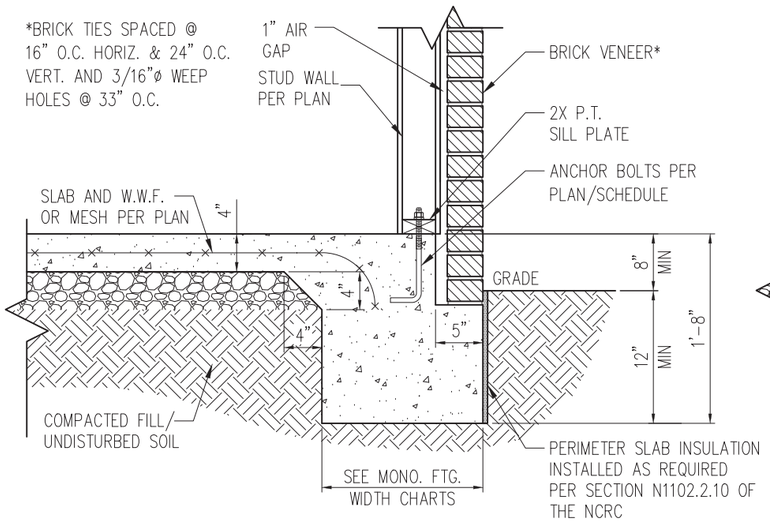
CURRENT DRAWING
DATE: 2/18/20
SCALE: NTS
PROJECT #: 3832
DRAWN BY: LBV
CHECKED BY: WAJ

ORIGINAL DRAWING

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

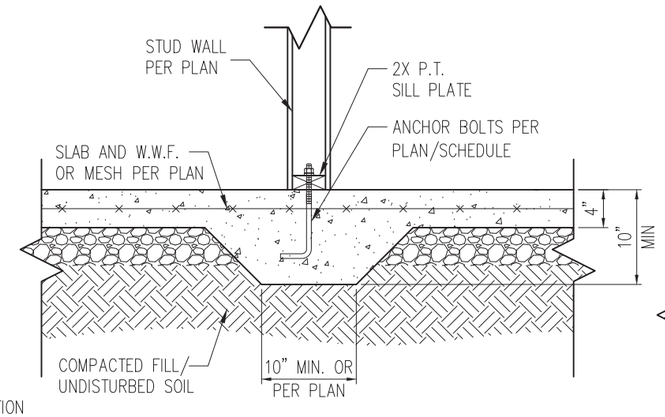
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D1m

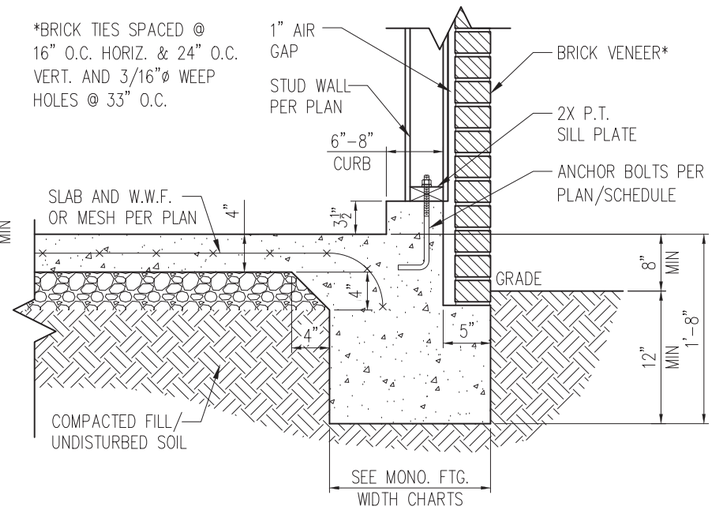



STANDARD – BRICK

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

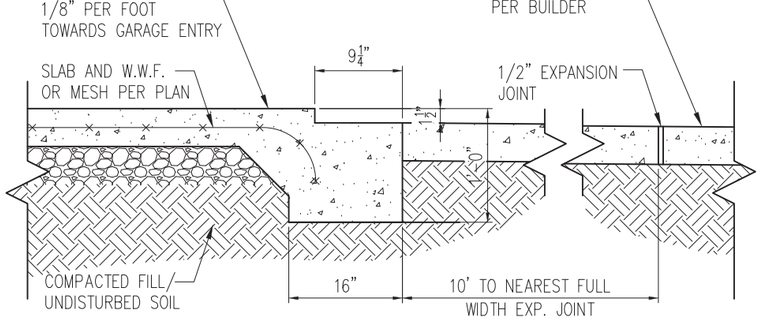



3 D2m TYP. THICKENED SLAB DETAIL
3/4" = 1'-0"

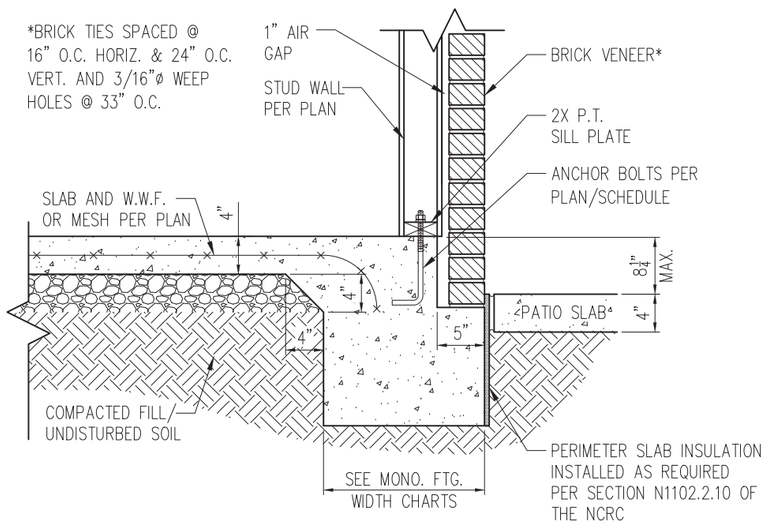



STANDARD – BRICK

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




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




STANDARD – BRICK

4 D2m PATIO SLAB DETAIL W/ BRICK VENEER
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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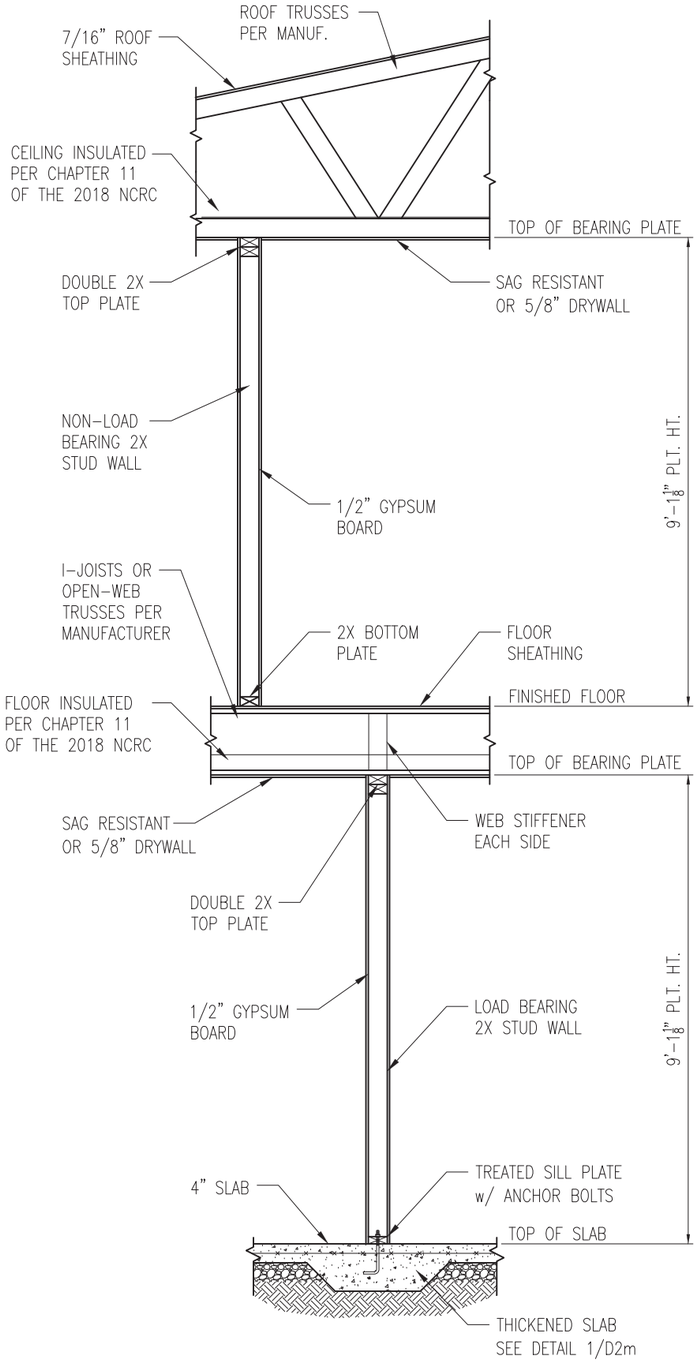
| 0 | 1/7/16 | 3832 |

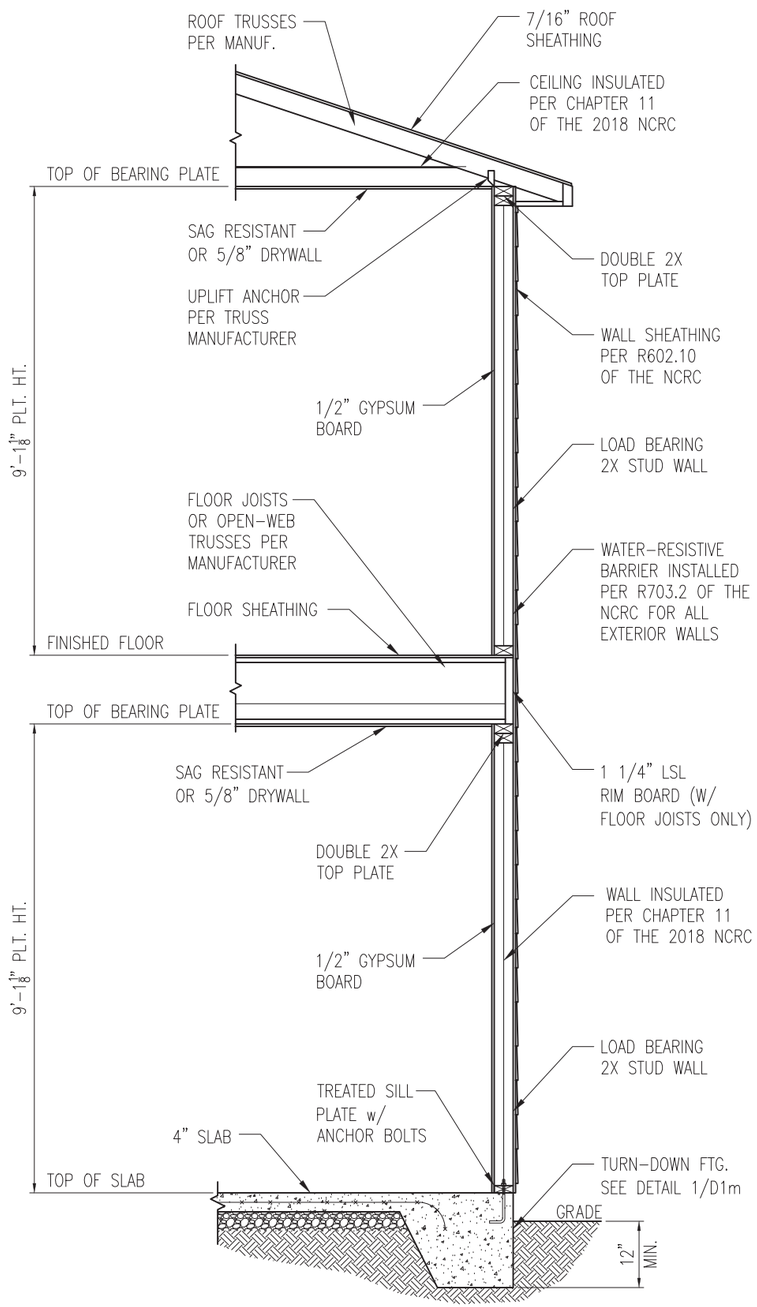
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D2m




1 D3m TYP. INTERIOR LOAD BEARING WALL SECTION

3/4" = 1'-0"




2 D3m TYP. EXTERIOR LOAD BEARING WALL SECTION

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.

NORTH CAROLINA PROFESSIONAL SEAL 043923 ENGINEER WESLEY A. JONES

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PROJECT
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Monolithic Slab Details

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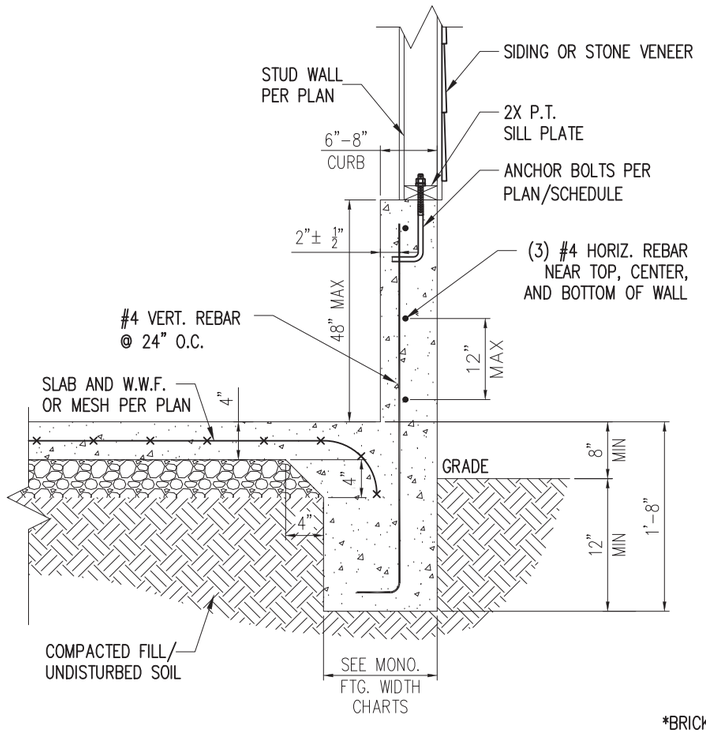
|---|---|---|
| 0 | 1/7/16 | 3832 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

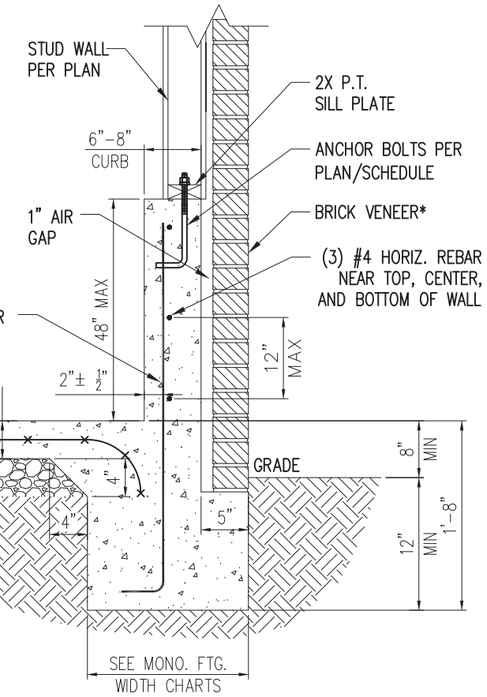
SHEET
D3m




STANDARD – SIDING/STONE

1 D4m NTS

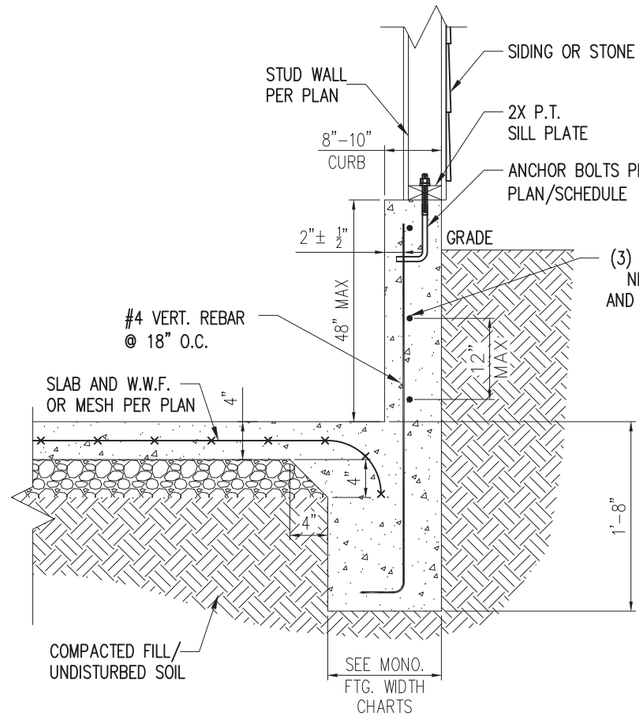
## EXTENDED GARAGE CURB DETAIL




STANDARD – BRICK

3 D4m NTS

## EXTENDED GARAGE CURB DETAIL W/ BRICK VENEER




STANDARD – SIDING/STONE

2 D4m NTS

## EXTENDED GARAGE CURB DETAIL W/ UNBALANCED FILL

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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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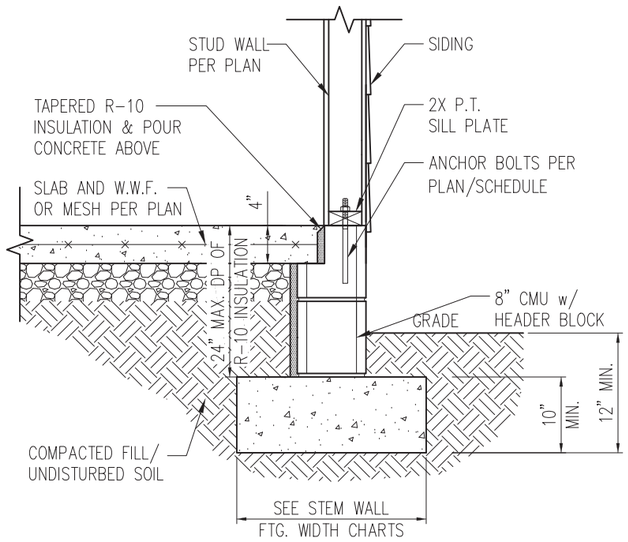
ORIGINAL DRAWING

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

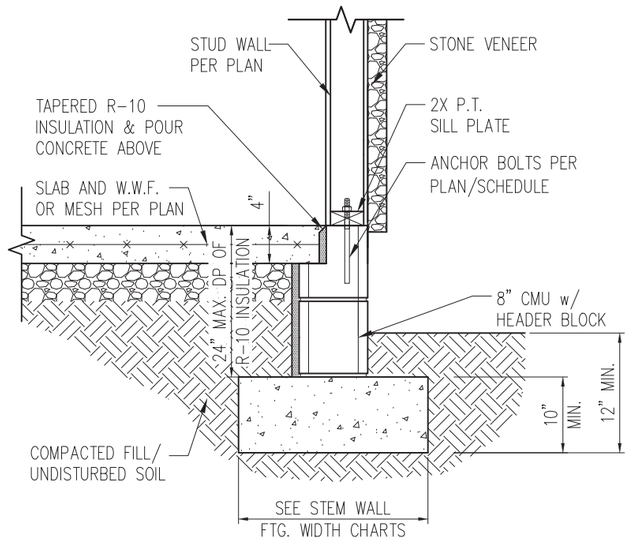
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

NORTH CAROLINA PROFESSIONAL SEAL 043823 ENGINEER WESLEY A. JONES
2/18/20

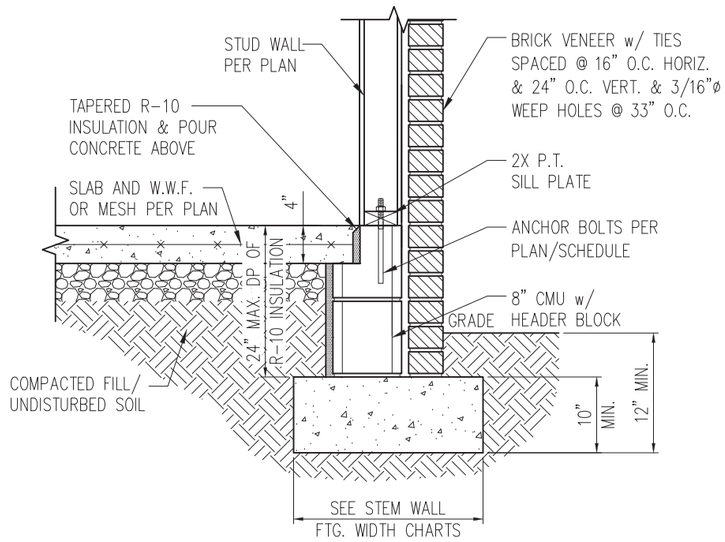
SHEET
D4m




STANDARD – SIDING



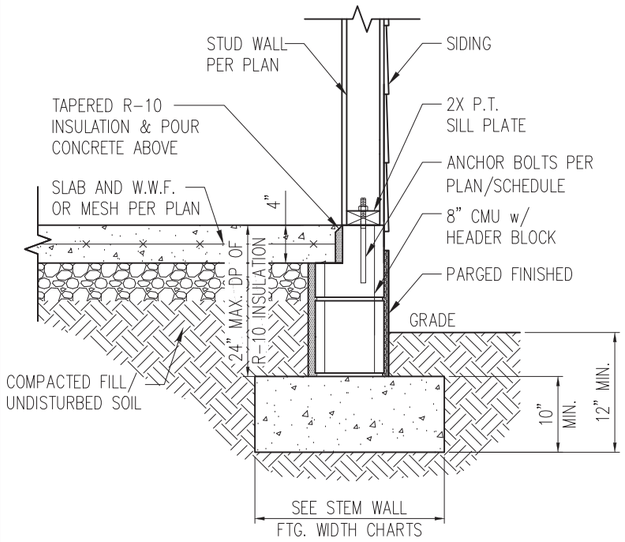

STANDARD – STONE



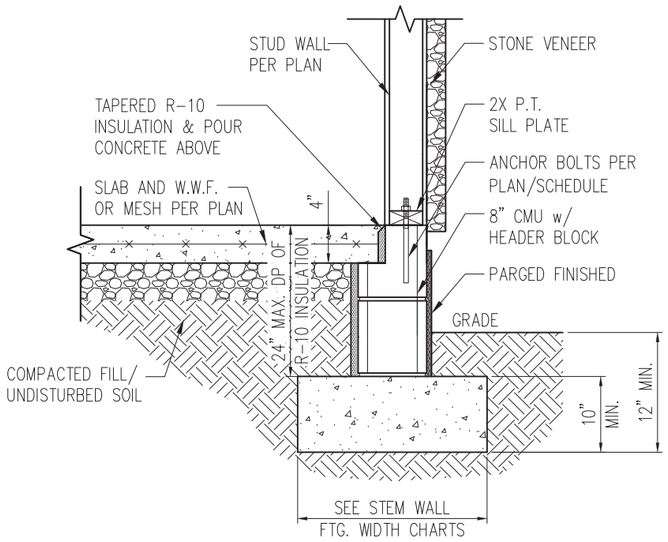

STANDARD – BRICK

## 1 / D1s TYP. STEM WALL DETAIL

3/4" = 1'-0"




STANDARD – SIDING




STANDARD – STONE

## 1a / D1s STEM WALL DETAIL w/ PARGED FINISH

3/4" = 1'-0"

STEM WALL FOOTING WIDTH

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

WALL ANCHOR SCHEDULE

| TYPE OF ANCHOR | MIN. CONC. 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.

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

NORTH CAROLINA PROFESSIONAL SEAL 043823 ENGINEER WESLEY A. JONES
2/18/20

STRUCTURAL MEMBERS ONLY

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SUMMIT Engineering, Laboratory & Testing, P.C.
C-4361

PROJECT
Standard Details
Stemwall Details

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

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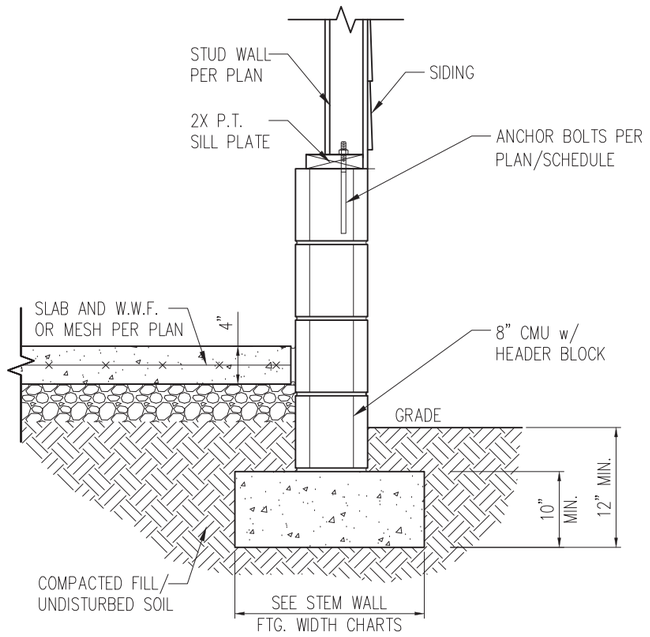
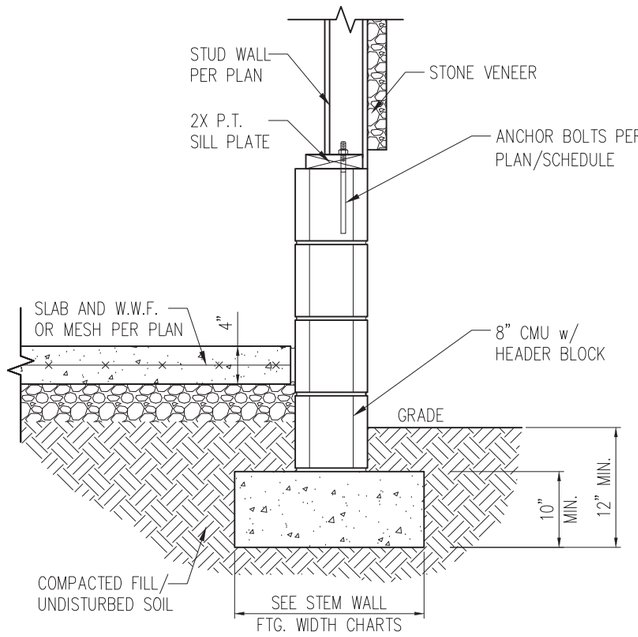
SHEET
D1s




STANDARD – SIDING

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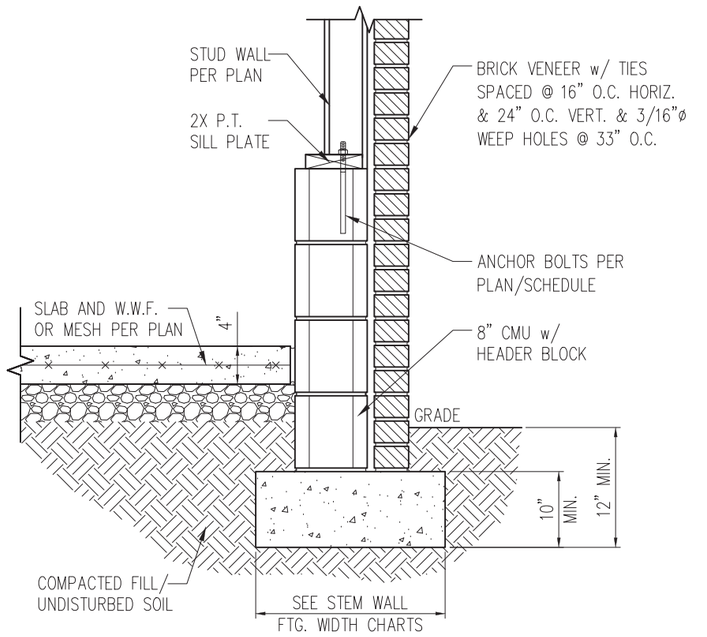
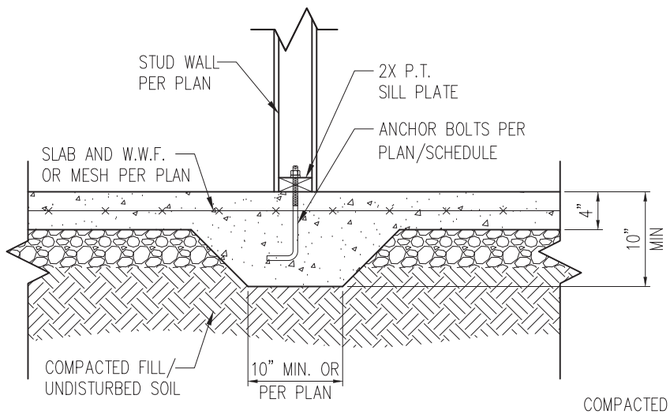



STANDARD – BRICK

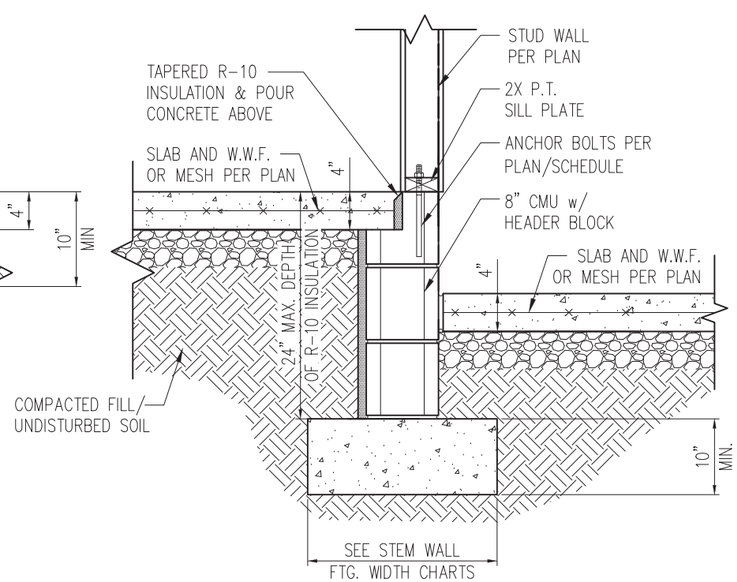
## 1 D2s TYP. GARAGE CURB DETAIL

3/4" = 1'-0"



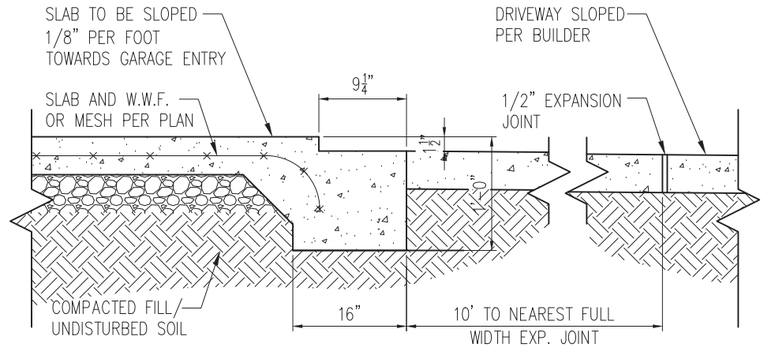

## 2 D2s TYP. THICKENED SLAB DETAIL

3/4" = 1'-0"




## 3 D2s HOUSE/GARAGE WALL DETAIL

3/4" = 1'-0"




## 4 D2s SLAB AT GARAGE DOOR

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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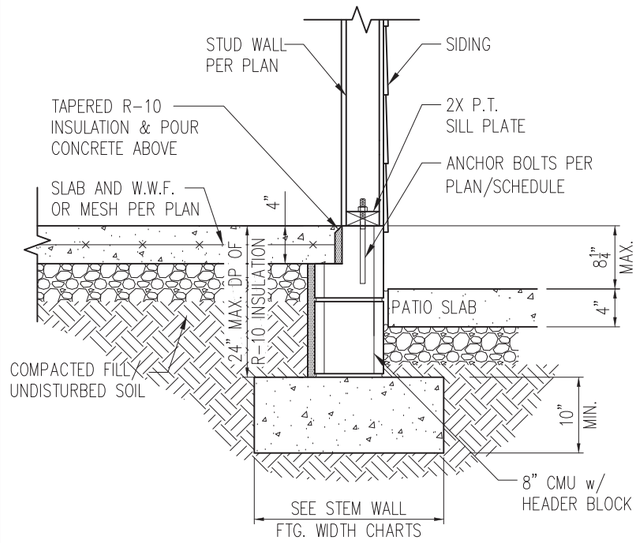
D2s

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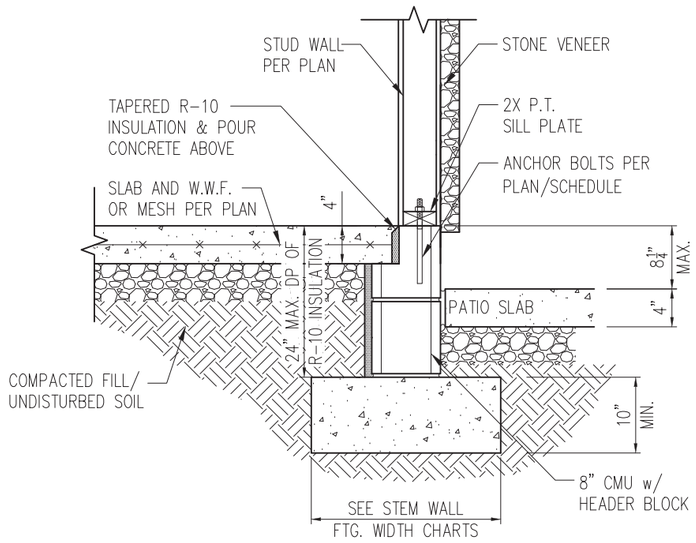


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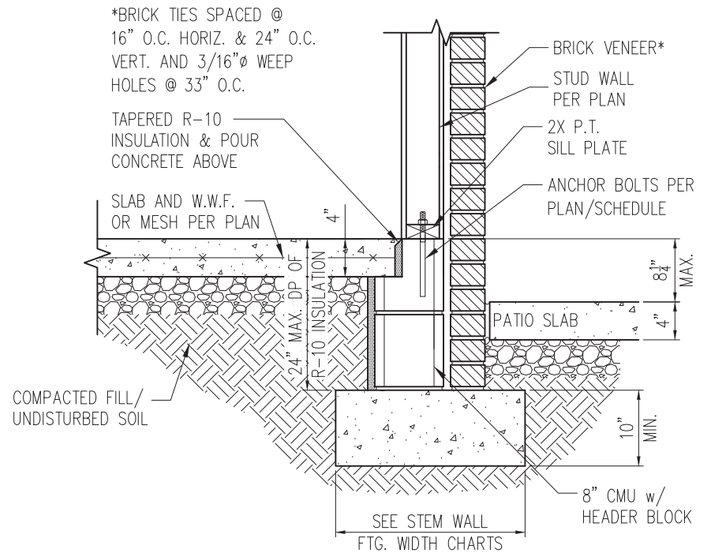
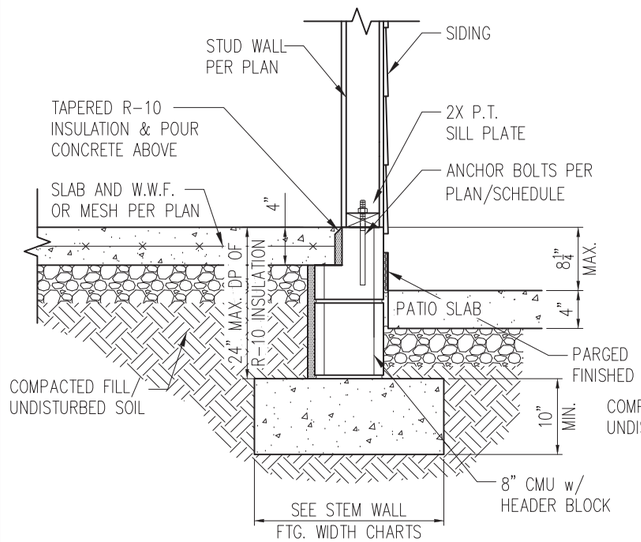



STANDARD – BRICK

## 1 / D3s PORCH SLAB DETAIL

3/4" = 1'-0"

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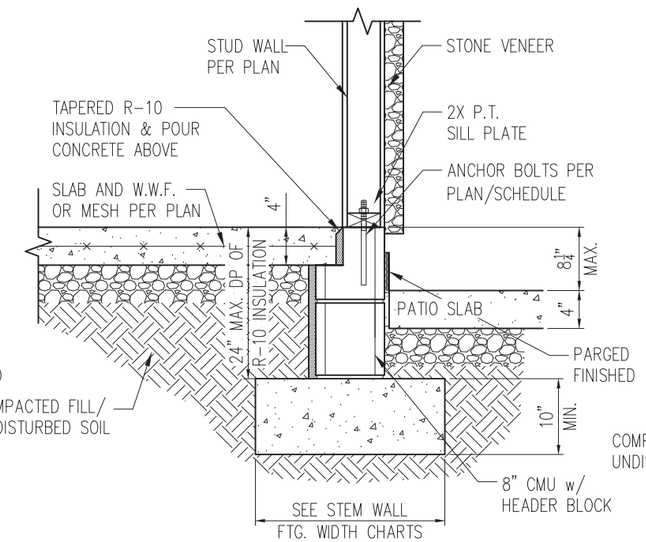
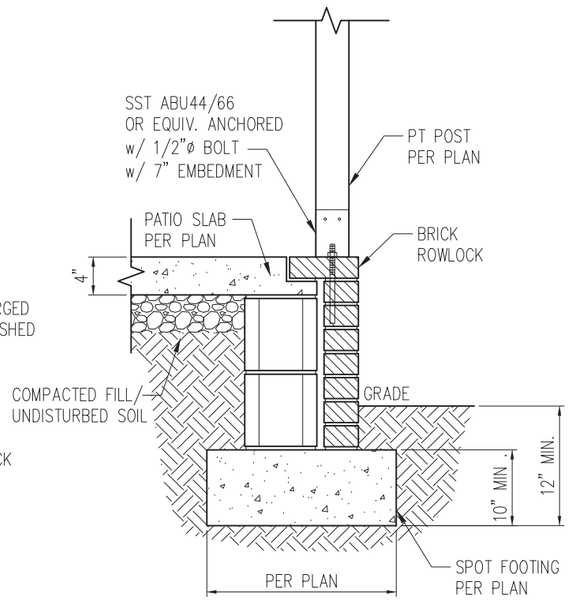



STANDARD – STONE

## 1a / D1s PORCH SLAB DETAIL w/ PARGED FINISH

3/4" = 1'-0"




## 2 / D3s COVERED PORCH DETAIL

3/4" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
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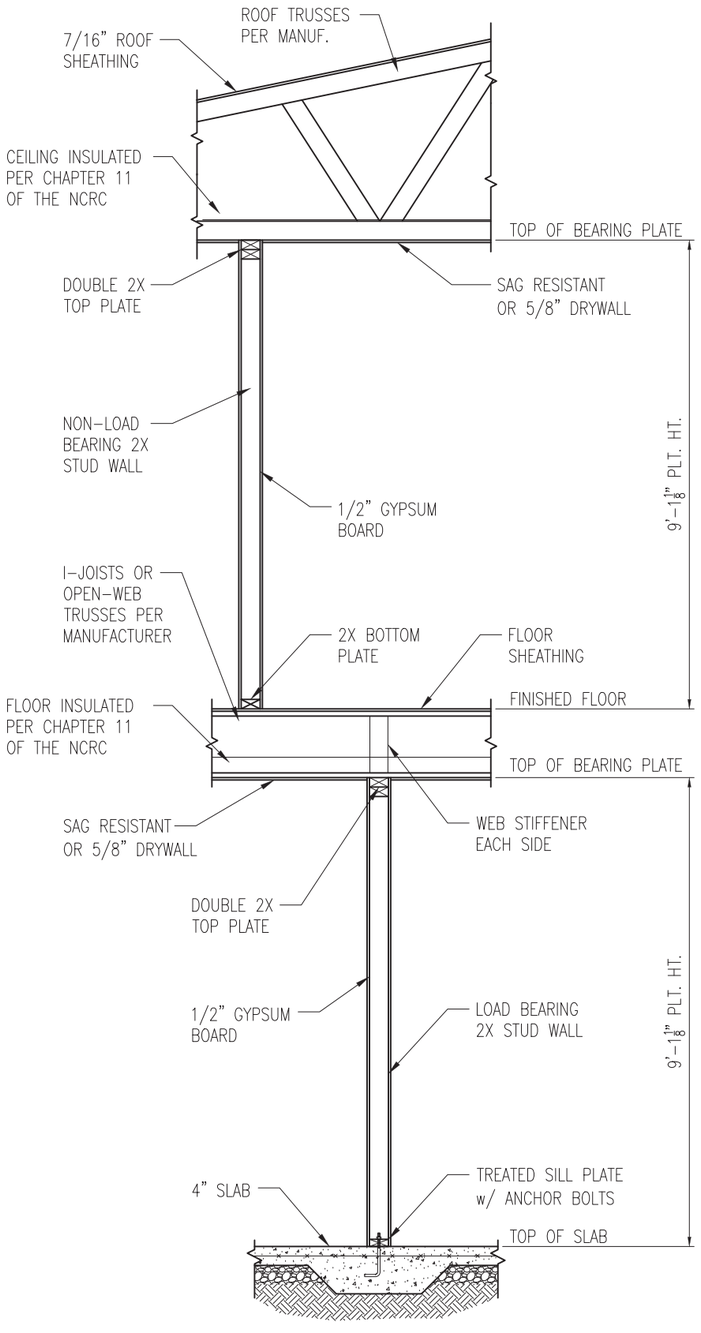
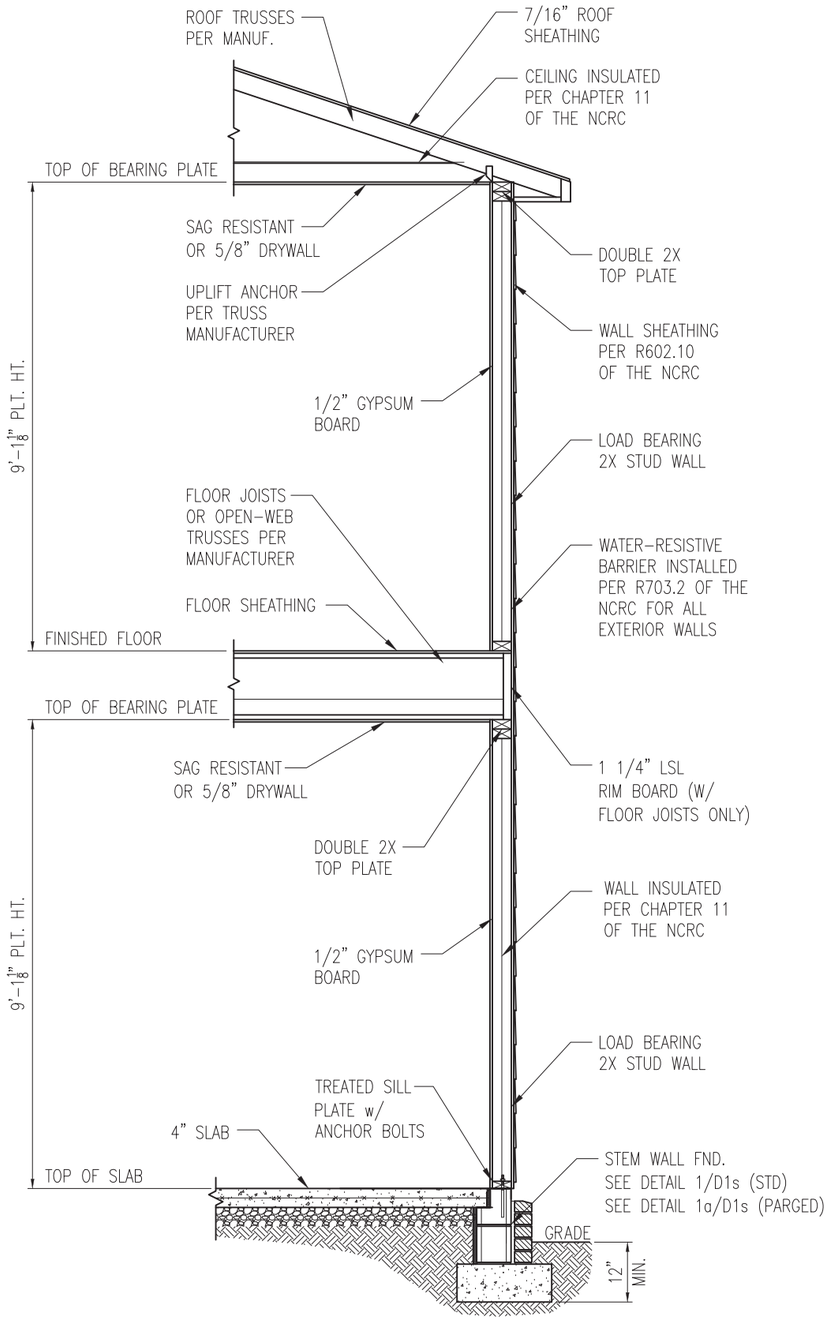
SHEET
D3s




1 D4s TYP. INTERIOR LOAD BEARING WALL SECTION

3/4" = 1'-0"




2 D4s TYP. EXTERIOR LOAD BEARING WALL SECTION

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:

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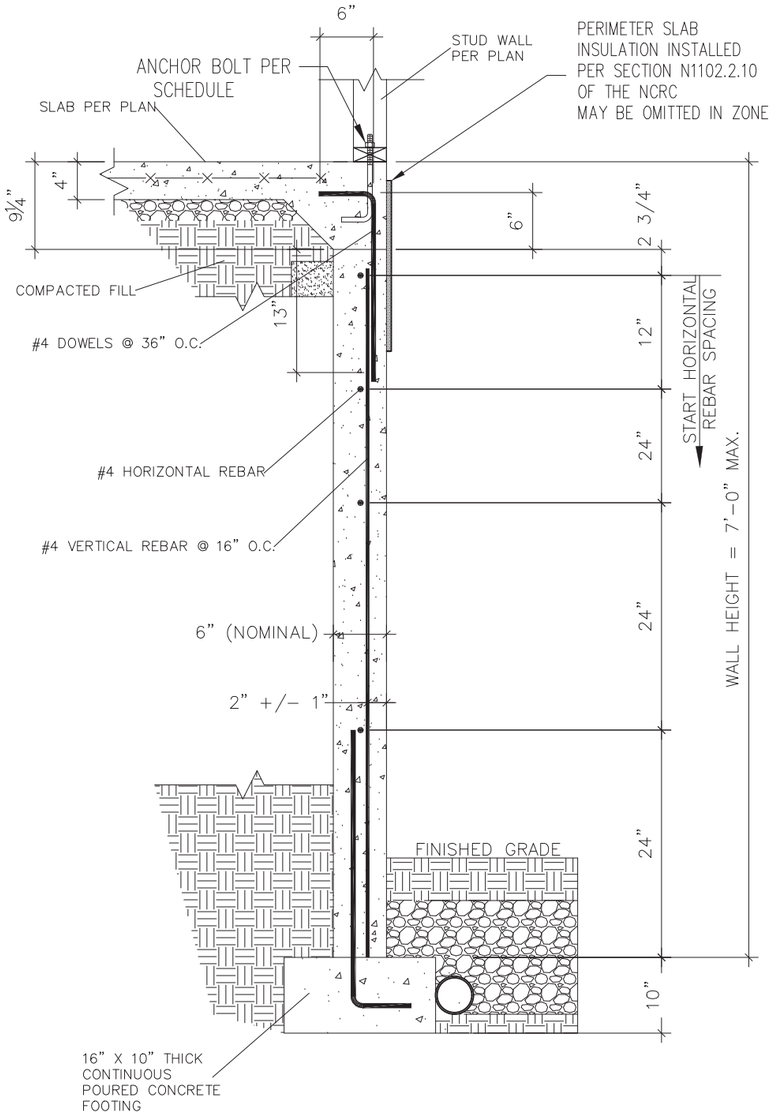
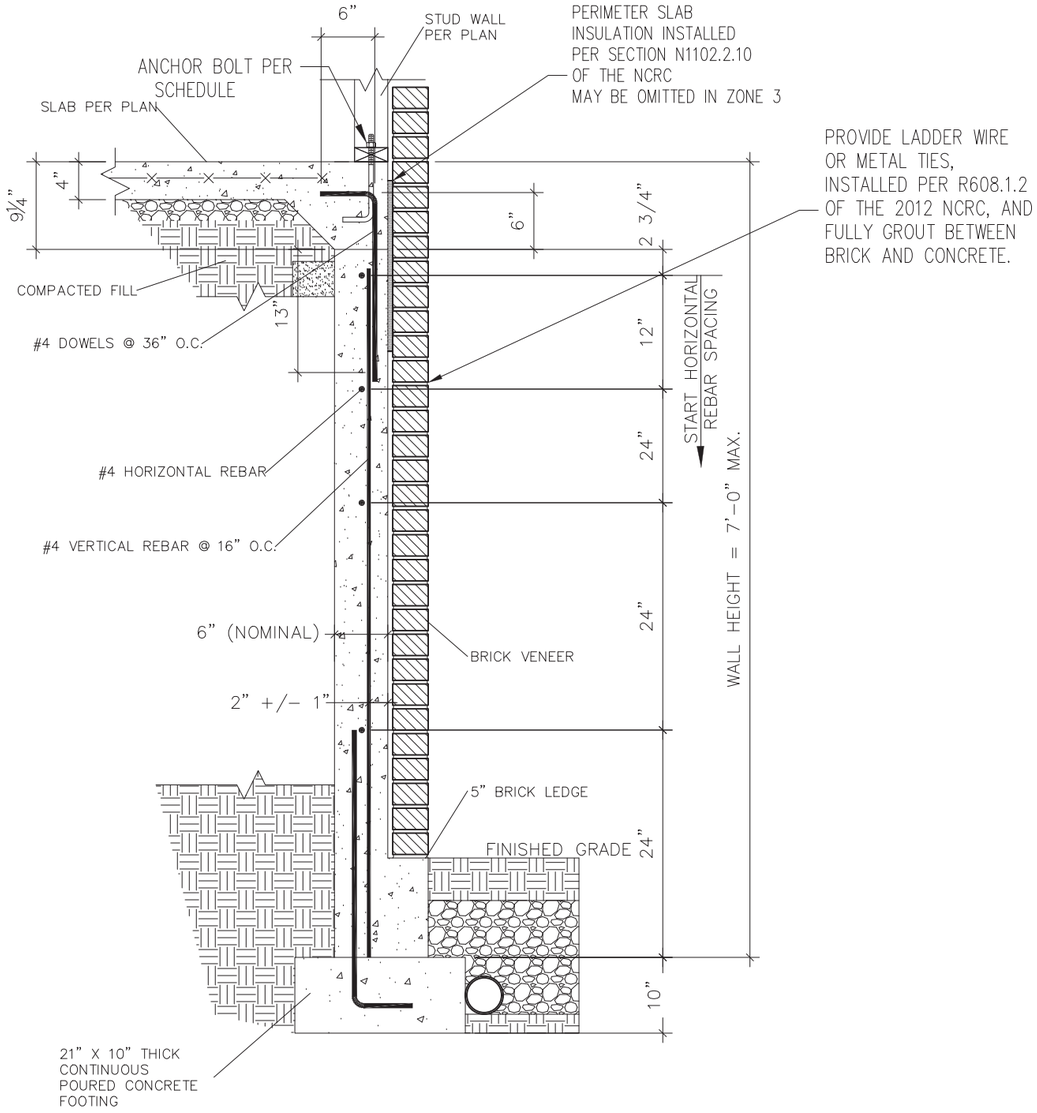
SHEET
D4s




1 D5s SUBWALL FOUNDATION

3/4" = 1'-0"




2 D5s SUBWALL FOUNDATION W/ BRICK VENEER

3/4" = 1'-0"

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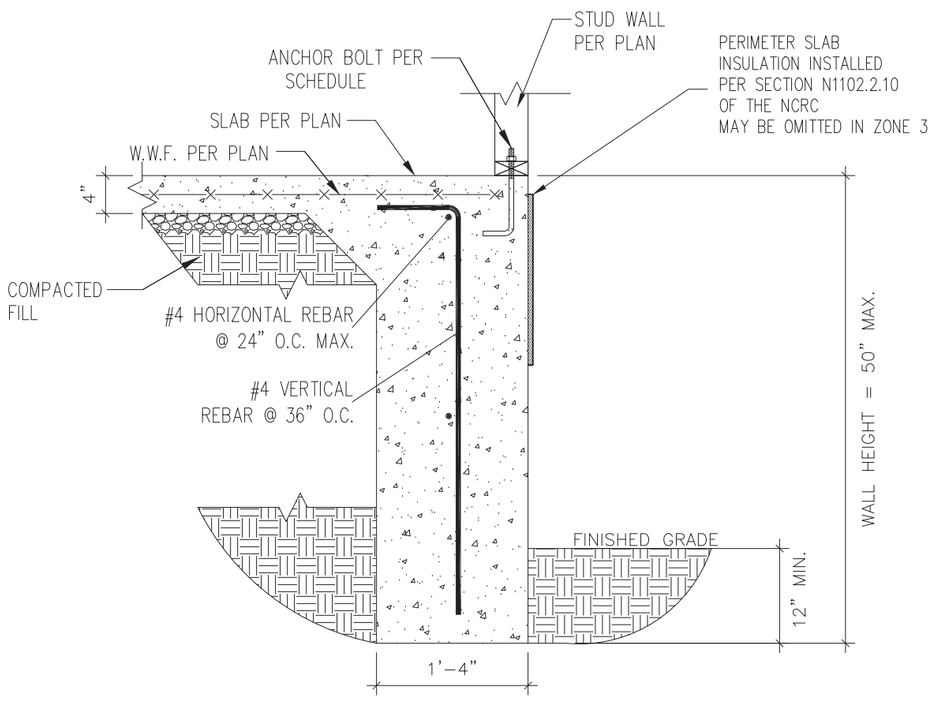
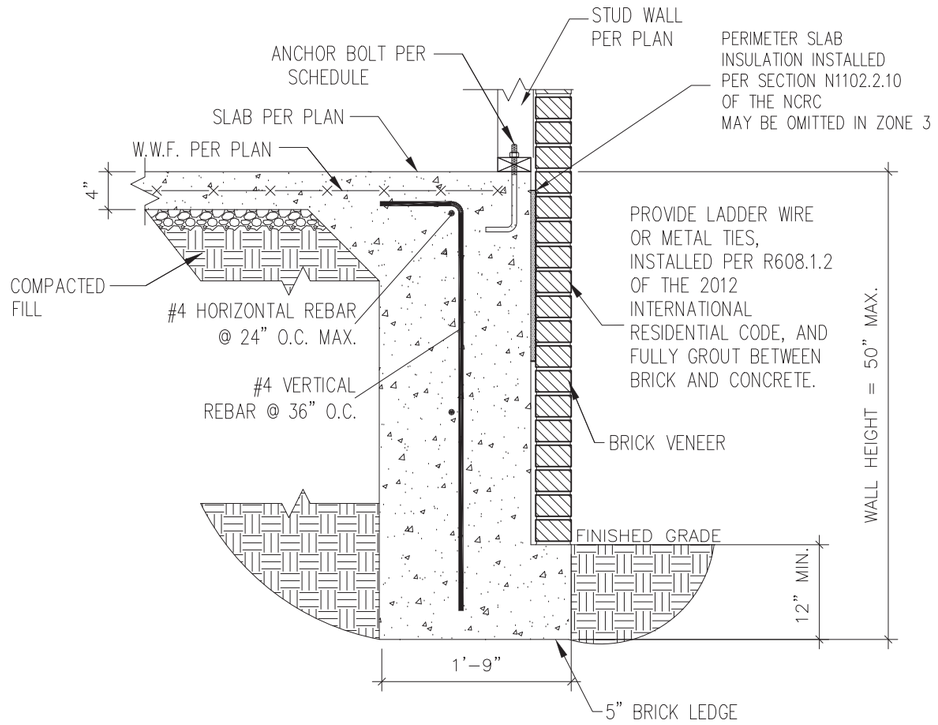


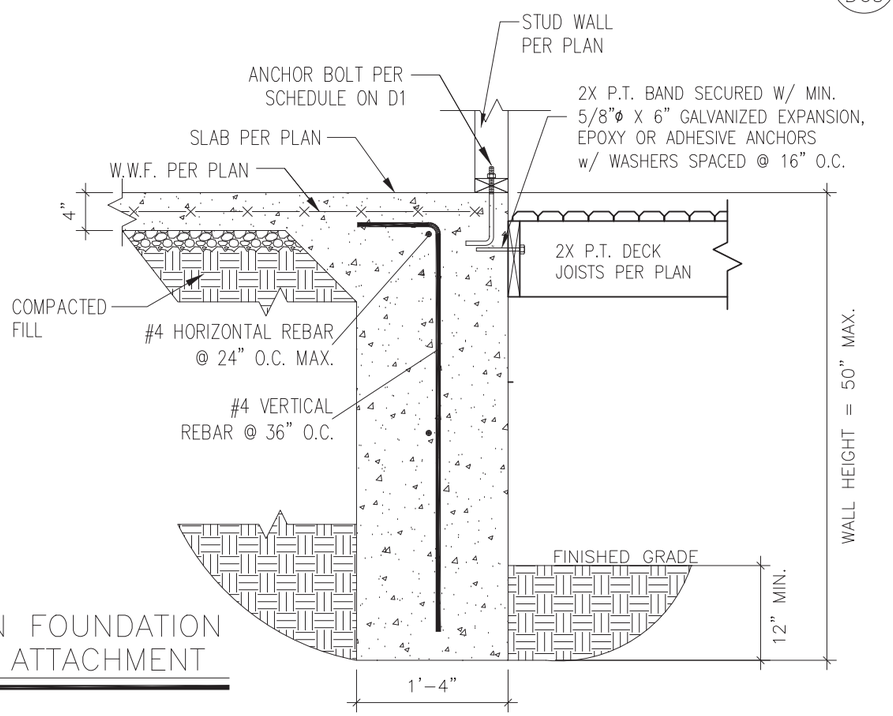

1 D6s TURNDOWN FOUNDATION

3/4" = 1'-0"




2 D6s TURNDOWN FOUNDATION W/ BRICK VENEER

3/4" = 1'-0"




3 D6s TURNDOWN FOUNDATION W/ DECK ATTACHMENT

3/4" = 1'-0"

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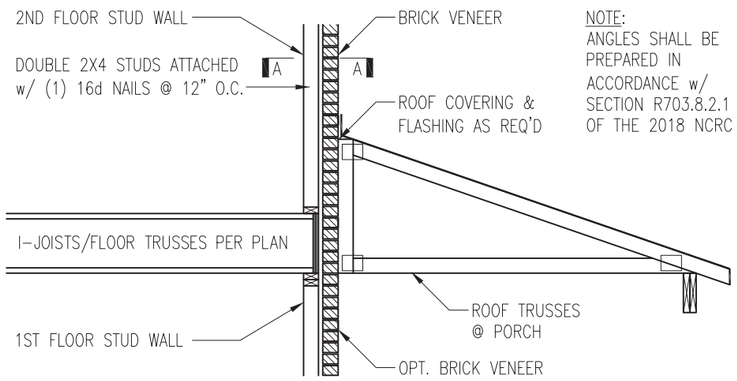
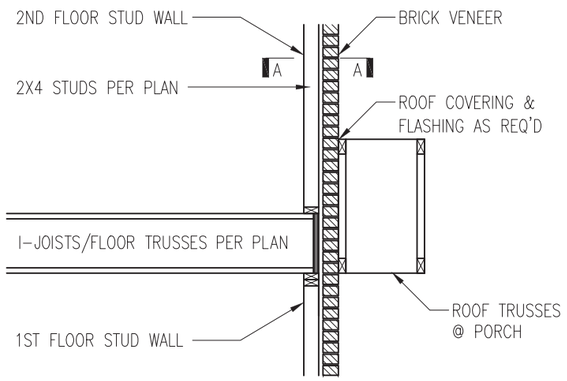



NOTE:
ANGLES SHALL BE PREPARED IN ACCORDANCE w/ SECTION R703.8.2.1 OF THE 2018 NCRC

TRUSSES PERPENDICULAR TO STUD WALL




TRUSSES PARALLEL TO STUD WALL
w/ CONTINUOUS BRICK VENEER

## 1 D5f BRICK SUPPORT ABOVE STORAGE/PORCH ROOF DETAIL

NTS




## 3 D5f BALCONY JOIST ATTACHMENT

NTS




SECTION A-A

NTS




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

## 4 D5f TYP. RANGE VENT FRAMING

VENTED TO EXTERIOR WALL

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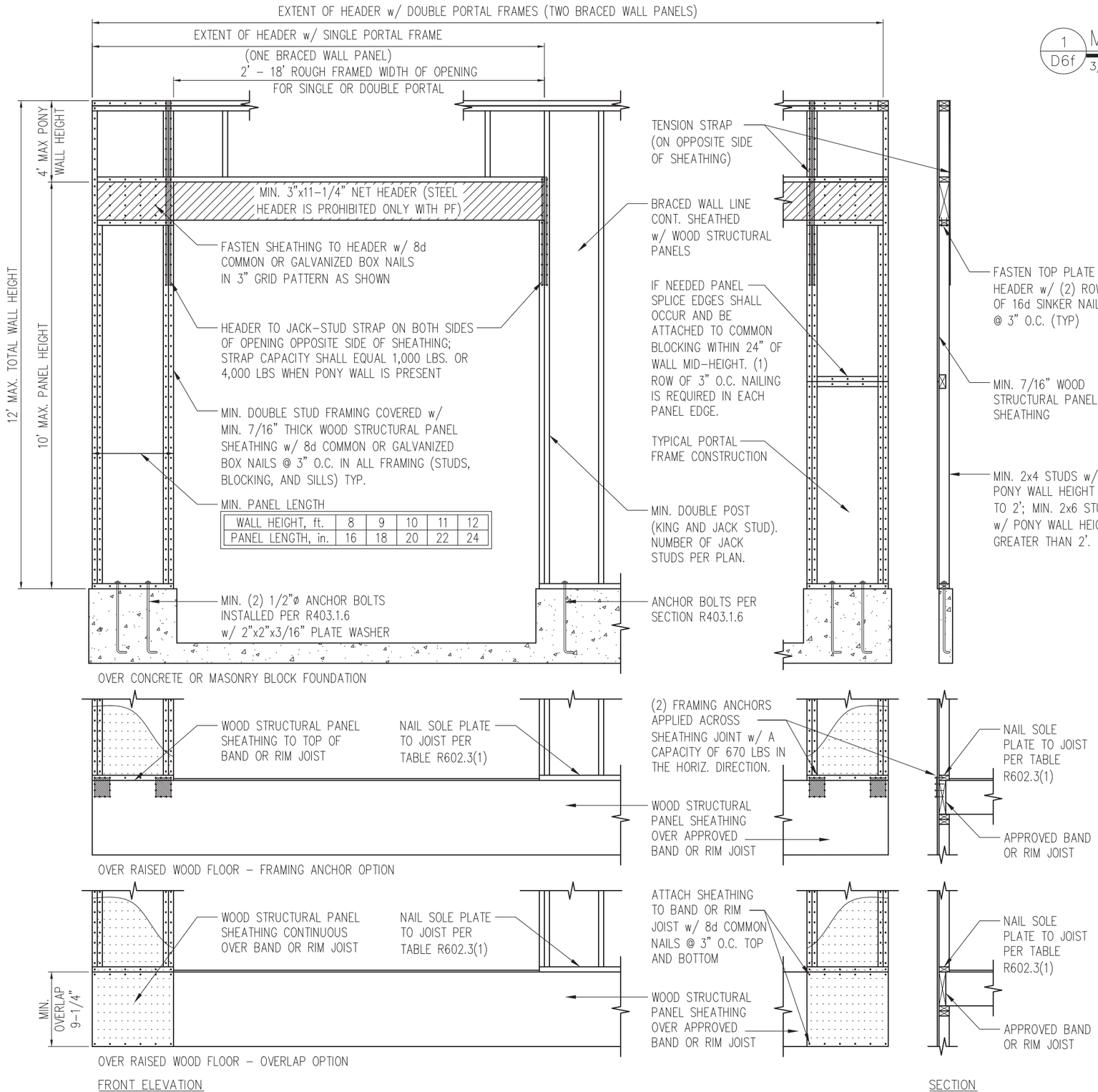
D5f

# 1 D6f METHOD PF: PORTAL FRAME DETAIL

3/8" = 1'-0"




| WALL HEIGHT, ft. | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|
| PANEL LENGTH, in. | 16 | 18 | 20 | 22 | 24 |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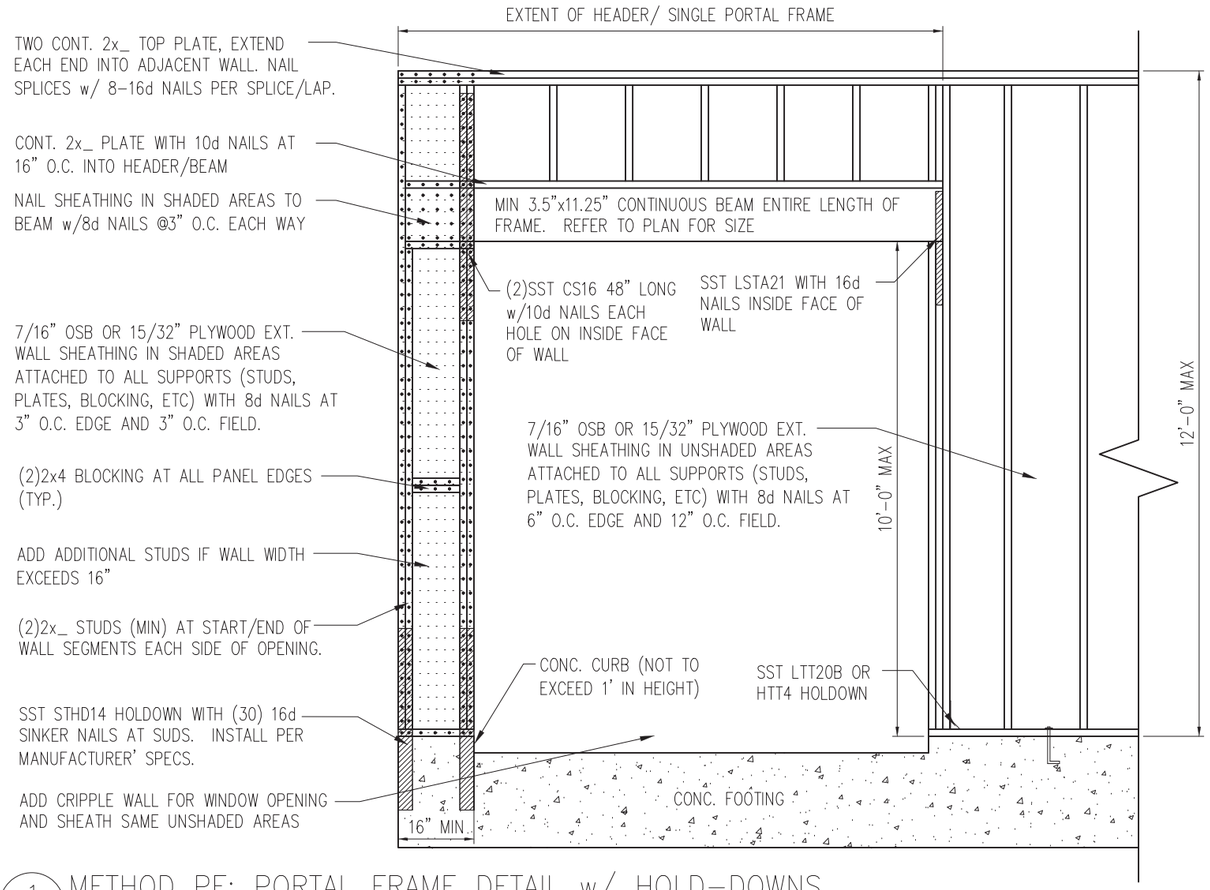
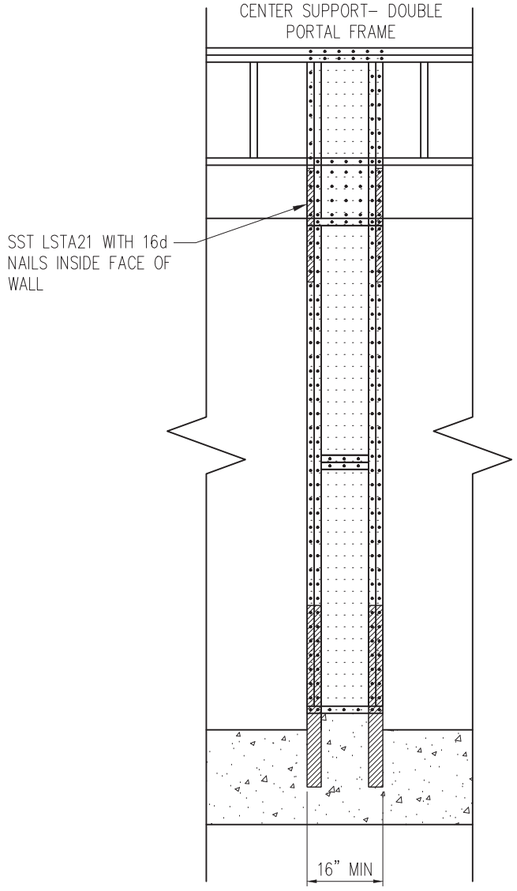
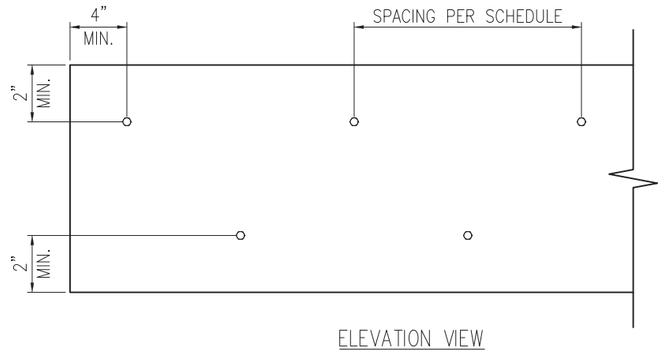



1 D7f METHOD PF: PORTAL FRAME DETAIL w/ HOLD-DOWNS

3/4" = 1'-0"




ELEVATION VIEW

2 D7f MULTI-PLY BEAM CONNECTION DETAIL

N.T.S

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

| | | 3½" WIDE | 5¼" WIDE | | 7" WIDE | | |
|---|---|---|---|---|---|---|---|
| FASTENER TYPE | LVL DEPTH | 2-Ply 1¾" | 3-Ply 1¾" | 1¾" + 3½" | 4-Ply 1¾" | 2-Ply 1¾" + 3½" | 2-Ply 3½" |
| 10d (0.128" x 3") Nails | 7¼"≤d<14" | 3 rows @ 12" o.c. | 3 rows @ 12" o.c. **(ES)** | 3 rows @ 12" o.c. | - | 3 rows @ 12" o.c. **(ES)** | - |
| | 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 3½") Nails | 7¼"≤d<14" | 2 rows @ 12" o.c. | 2 rows @ 12" o.c. **(ES)** | 2 rows @ 12" o.c. | - | 2 rows @ 12" o.c. **(ES)** | - |
| | d≥14" | 3 rows @ 12" o.c. | 3 rows @ 12" o.c. **(ES)** | 3 rows @ 12" o.c. | - | 3 rows @ 12" o.c. **(ES)** | - |
| ½" Through Bolts | d≥7¼" | 2 rows @ 24" o.c. | 2 rows @ 24" o.c. | | 2 rows @ 24" o.c. | | |
| SDS ¼" x 3½", WS35, 3⅜" TrussLok | | 2 rows @ 24" o.c. | 2 rows @ 24" o.c. **(ES)** | 2 rows @ 24" o.c. | - | 2 rows @ 24" o.c. **(ES)** | - |
| SDS ¼" x 6", WS6 | | - | - | | 2 rows @ 24" o.c. **(ES)** | | |
| 5" TrussLok | | - | 2 rows @ 24" o.c. | | - | | |
| 6¾" TrussLok | | - | - | | 2 rows @ 24" o.c. | | |

**NOTES:**

1. All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.
2. Minimum fastening requirements for depths less than 7¼" require special consideration. Please contact your technical representative.
3. Three general rules for staggering or offsetting for a certain fastener schedule:
   (1) if staggering or offsetting is not referenced, then none is required;
   (2) if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener clearances above; and
   (3) if "**ES**" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).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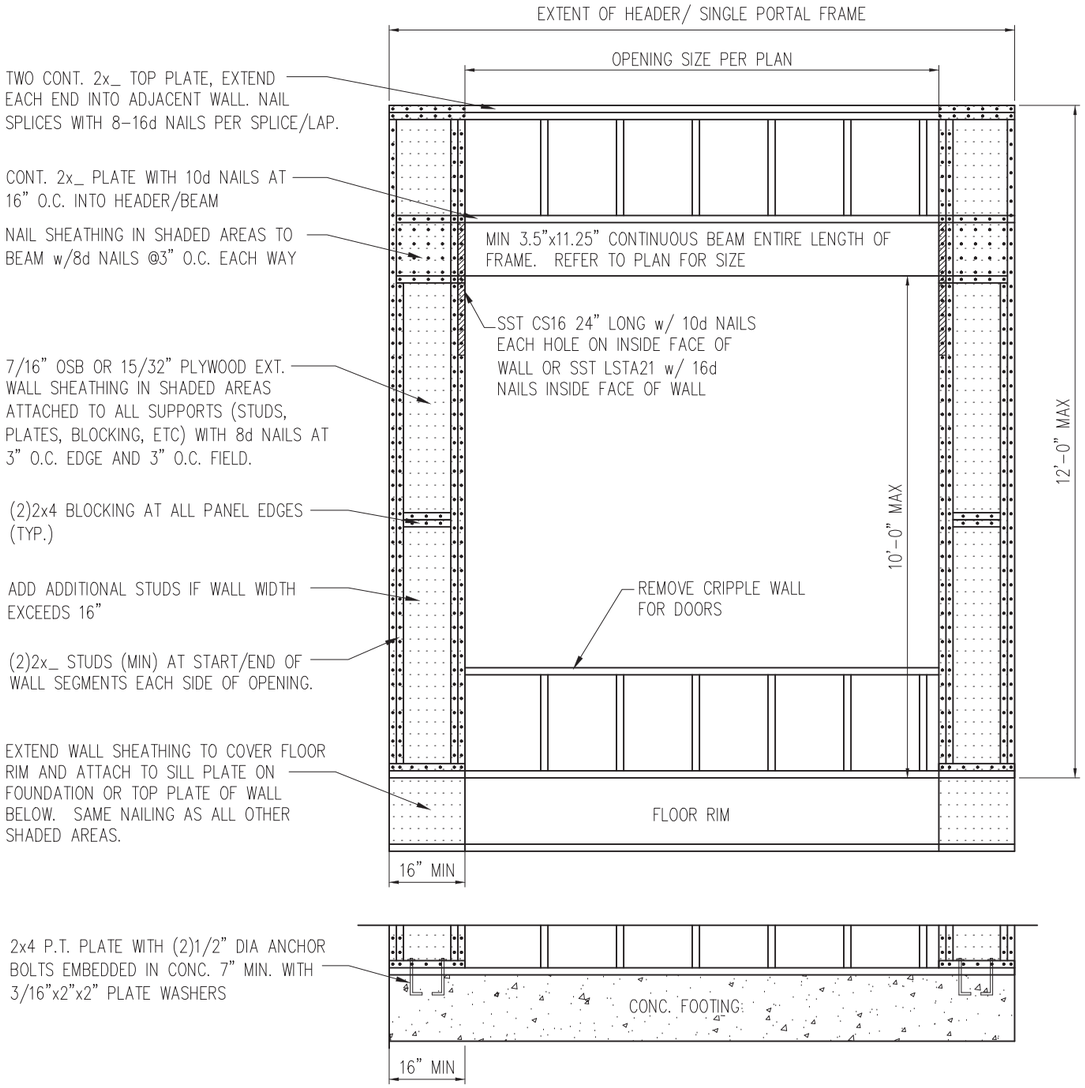
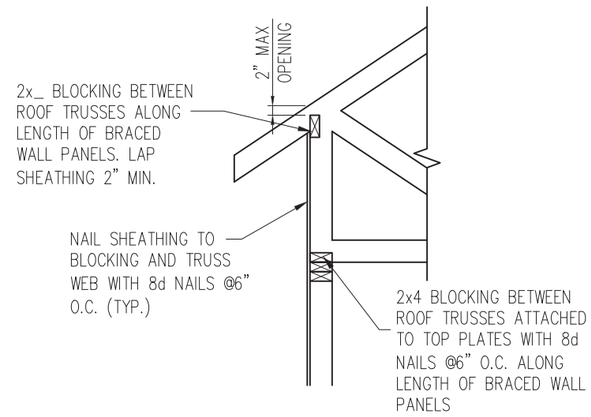
D7f

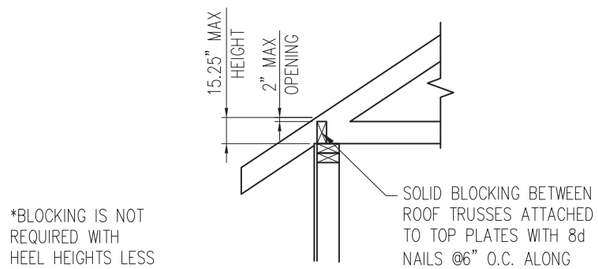



1 D8f METHOD PF: PORTAL FRAME DETAIL

3/4" = 1'-0" OPENINGS UNDER 8'-0"




HEEL HEIGHT GREATER THAN 15.25"




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

HEEL HEIGHT LESS THAN 15.25" *

2 D8f TYP. WALL PANEL TO ROOF TRUSS CONNECTION

1" = 1'-0"

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3070 HAMMOND BUSINESS PLACE,
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NORTH CAROLINA CERTIFICATE OF LICENSURE
SUMMIT Engineering, Laboratory & Testing, P.C.
C-4361

PROJECT
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

ORIGINAL DRAWING

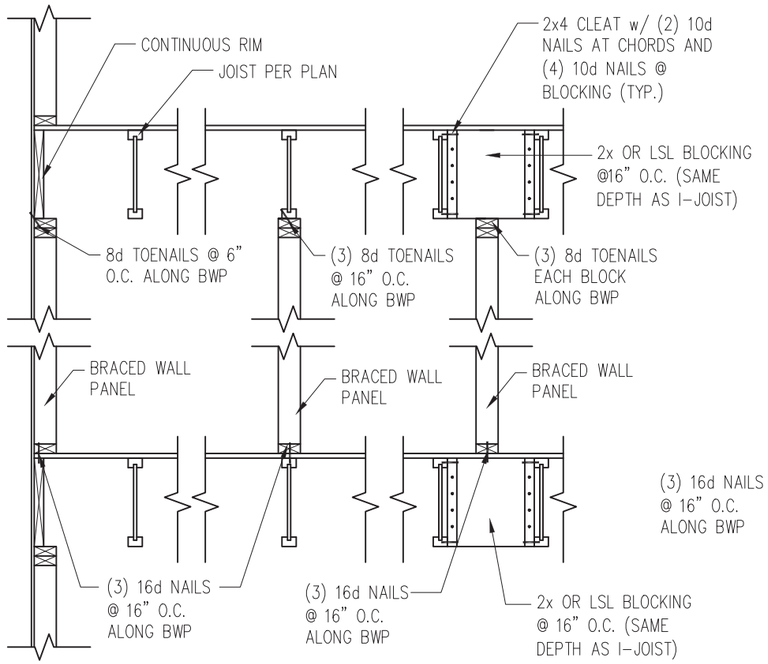
| NO. | DATE | PROJECT # |
|---|---|---|
| 0 | 1/7/16 | 3832 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

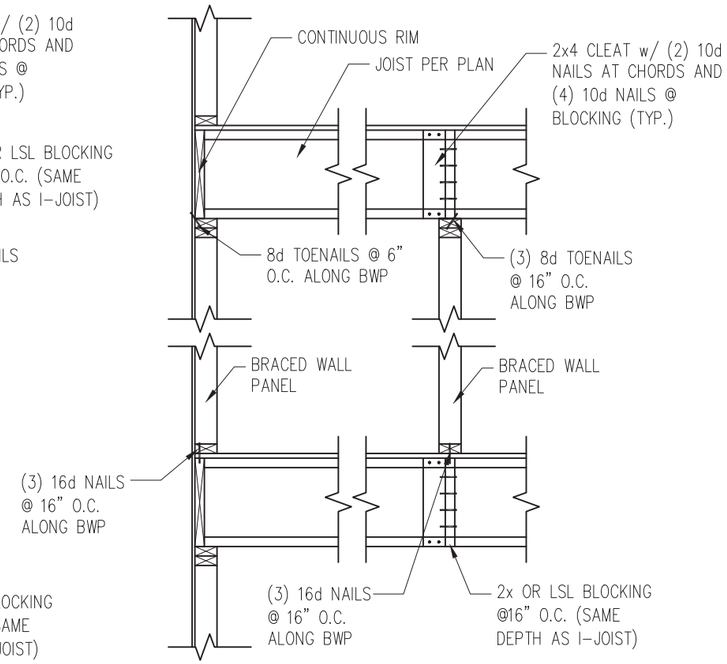
SHEET
D8f

NORTH CAROLINA PROFESSIONAL SEAL 043823 ENGINEER WESLEY A. JONES
2/18/20

STRUCTURAL MEMBERS ONLY



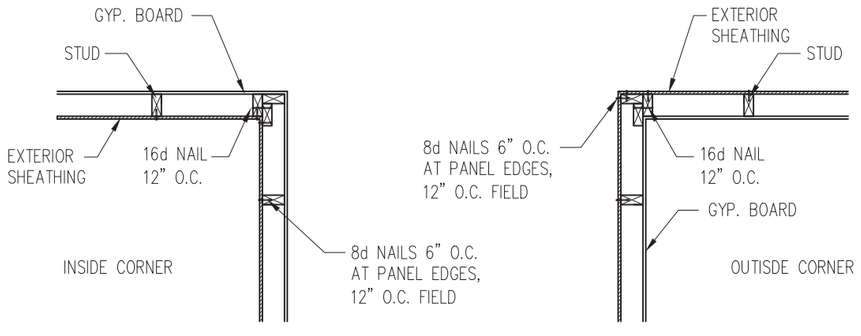

JOISTS PARALLEL TO BRACED WALLS




JOISTS PERPENDICULAR TO BRACED WALLS

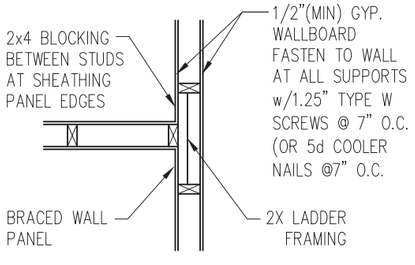
## 1/D9f TYP. WALL PANEL TO FLOOR/CEILING CONNECTION

1" = 1'-0"



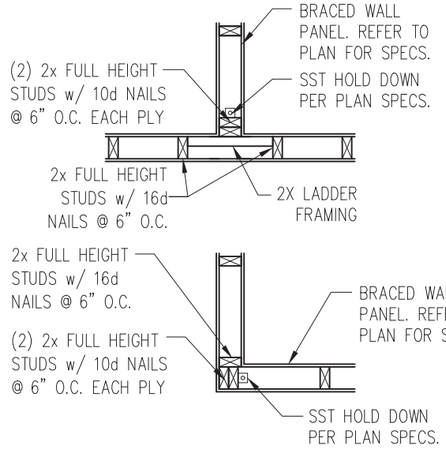

## 2/D9f TYP. EXTERIOR CORNER FRAMING

1" = 1'-0"




## 3/D9f INTERIOR 3-STUD WALL INTERSECTION

1" = 1'-0"




## 4/D9f TYP. HOLD DOWN DETAIL

1" = 1'-0"

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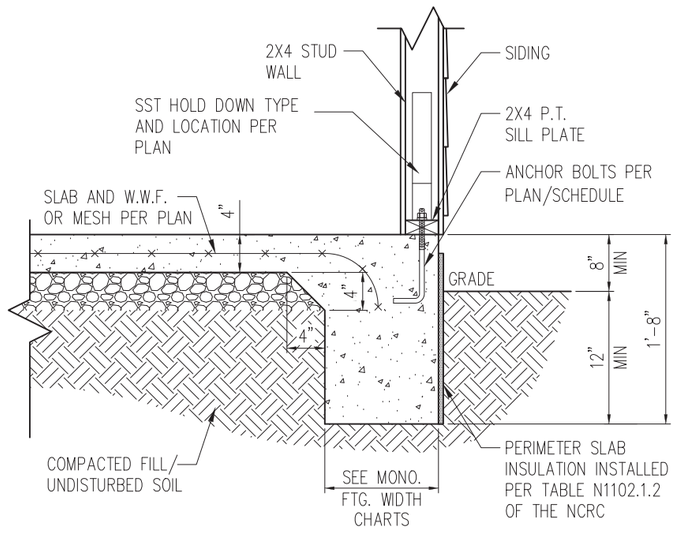
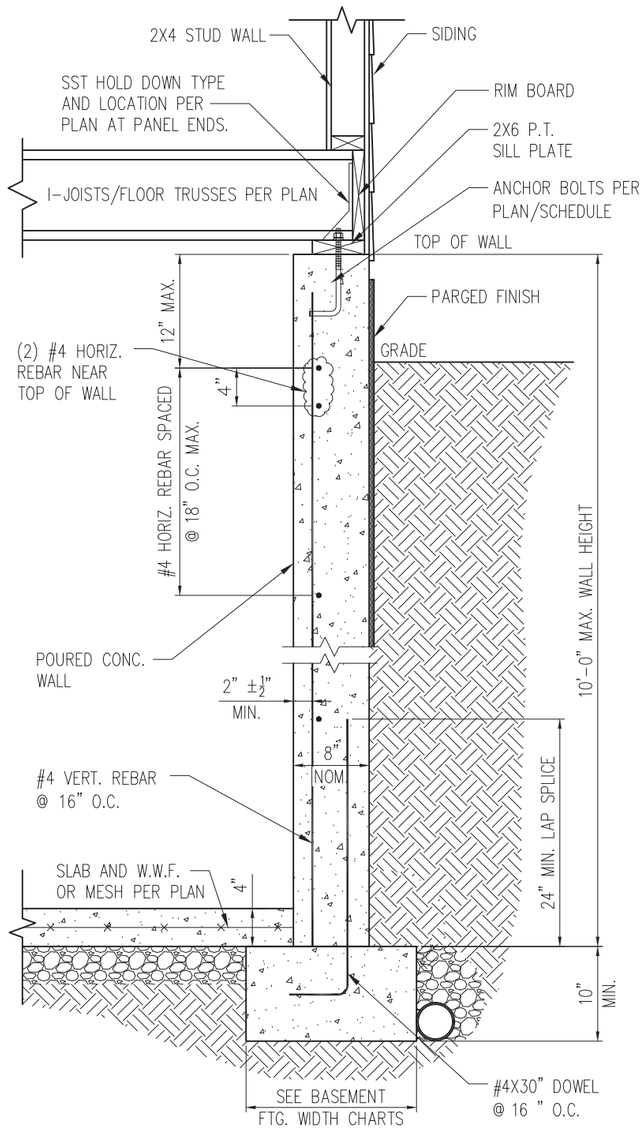
2/18/20

SHEET
D9f




1 D10f SLAB DETAIL w/ HOLD-DOWN

3/4" = 1'-0"




STANDARD - SIDING

2 D10f BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN

3/4" = 1'-0"

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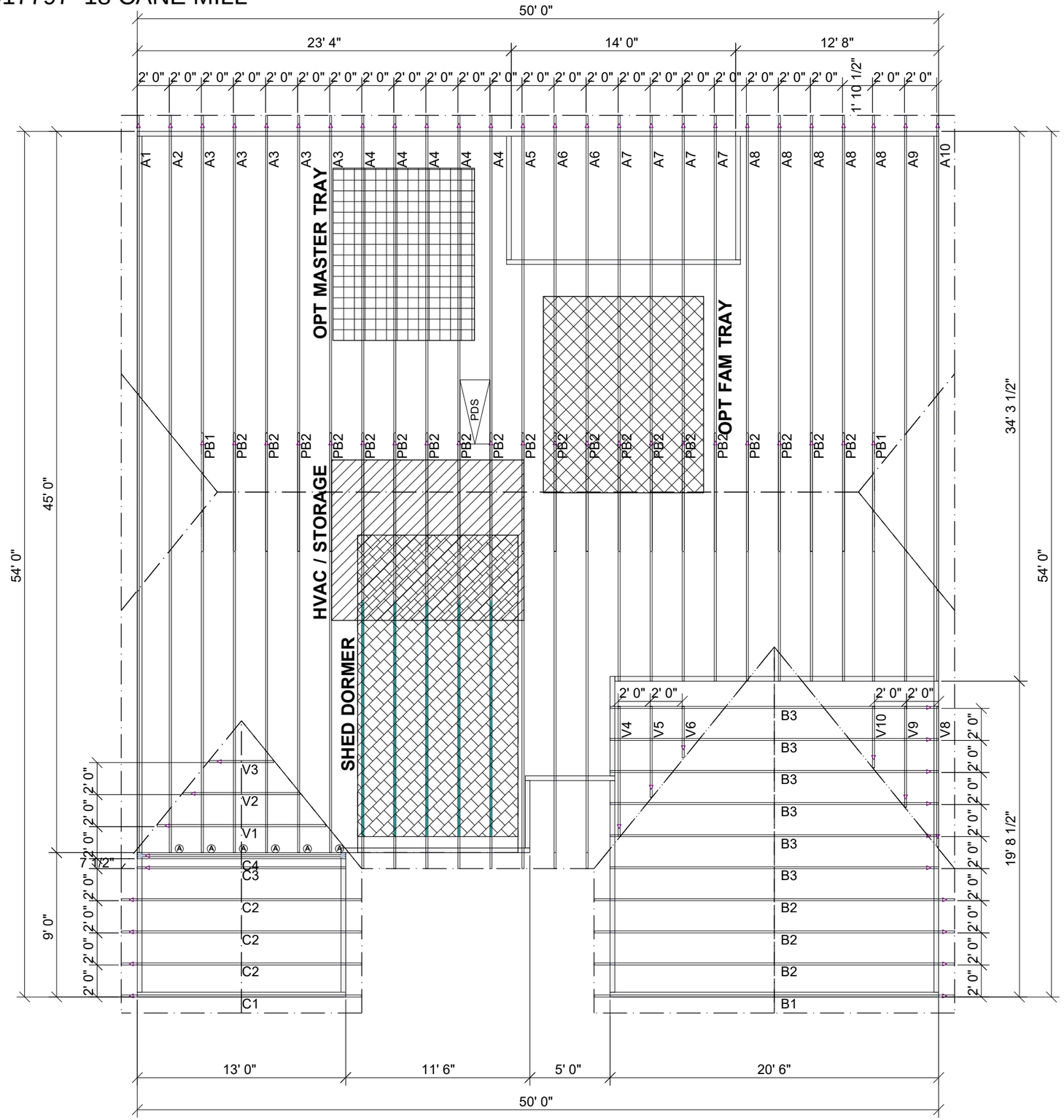
NORTH CAROLINA PROFESSIONAL SEAL 043923 ENGINEER WESLEY A. JONES
2/18/20

SHEET
D10f

# 71017797 18 CANE MILL




| Hatch Legend |
|---|
| OPT. MSTR TRAY |
| SHED DORMER |
| HVAC / STORAGE |
| OPT FAM TRAY |

**Roof Hanger List**

| MARK | TYPE | DESCRIPTION | QTY |
|---|---|---|---|
| Ⓐ | HUS26 | FACE MOUNT HANGER | 6 |

# LANCASTER CFI NO TRAY

TRUSS TO WALL CONNECTIONS, IF SHOWN, ARE FOR UPLIFT ONLY AND DO NOT CONSIDER LATERAL LOADS. ALL CONNECTORS ON THIS PROJECT ARE TO BE INSTALLED PER THE CONNECTOR MANUFACTURER'S SPECIFICATIONS. ALL CONNECTORS SHOWN THAT ARE NOT "TRUSS TO TRUSS" ARE SUGGESTIONS ONLY AND ARE TO BE VERIFIED BY THE BUILDING DESIGNER OR ENGINEER OF RECORD FOR SUITABILITY TO THIS PARTICULAR PROJECT. UFP MID-ATLANTIC, LLC. ACCEPTS NO RESPONSIBILITY FOR THE SPECIFIC APPLICATION OR SUITABILITY OF ANY CONNECTOR THAT IS NOT "TRUSS TO TRUSS" AS THEY APPLY TO THIS SPECIFIC STRUCTURE.

**ROOF AREA: 3409.65_RIDGE LINE: 81.08 _ VALLEY LINES: 64.51 _ HIP LINES:41.29 _ △ Indicates Left End of Truss**

**UFP MID-ATLANTIC,LLC**
A UNIVERSAL FOREST PRODUCTS COMPANY

| | |
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1. TEMPORARY BRACING TO BE INSTALLED w/T.P.I. STANDARD BCSI-B1.
2. SEE ENGINEERED DRAWING FOR PERMANENT BRACING MINIMUM REQUIREMENTS.
3. FRAMER TO VERIFY ALL DIMENSIONS, DROP, & RISE LOCATIONS PRIOR TO TRUSS PLACEMENT.
4. BLDR/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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Customer: **SMITH DOUGLAS**
Job Name: LANCASTER CFI
Date: 06-04-20
Scale: NTS
Revision Date1:
Revision Date2:
Quality Products for Quality Builders
Drawn By: BSC
Checked By: ***
Drawing Number: **MASTER**