

Approved

britton 12/28/2018



OWNER / CONTRACTOR NOTES:

THE SEALING OF THIS PLAN AUTHORIZES THE CONSTRUCTION FROM THESE PLANS FOR ONE HOUSE ON ONE LOT. UNSEALED PLANS MUST NOT BE USED FOR CONSTRUCTION. CONSTRUCTION FROM THESE PLANS MUST BE FROM THE LATEST APPROVED DATE PLANS, INCLUDING REVISIONS AND

. CONSTRUCTION DEVIATING FROM THESE PLANS WILL INVALIDATE THEIR PLANS REVIEW PERMITTED USE. THE ARCHITECT MUST BE NOTIFIED IMMEDIATELY OF CONSTRUCTION DEVIATING FROM DEPICTED OR IMPLIED INFORMATION HEREIN. LETTER FROM THE ARCHITECT/ENGINEER MAY BE OBTAINED FOR A FEE TO VERIFY THE FEASIBILITY AND COMPLIABILITY OF ANY CHANGES. HOWEVER, THE OWNER/CONTRACTOR ASSUMES ALL RISK FROM DEVIATING FROM THESE PLANS.

3. DO NOT SCALE DRAWINGS, BUT RATHER INQUIRE OF PLANWORX ARCHITECTURE. REPRODUCTION OF THESE DRAWINGS ARE PROHIBITED UNLESS GRANTED WRITTEN CONSENT FROM PLANWORX ARCHITECTURE.

4. THE OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE FOLLOWING INFORMATION (NON-EXHAUSTIVE): BUILDING PERMITS, SITE ENGINEERING INCLUDING SURVEYING, TOPOGRAPHIC STUDIES, GEOTECHNICAL REPORTS, AND SEPTIC PERMITS: INTERIOR CASEWORK DESIGN + PLUMBING, MECHANICAL, AND ELECTRICAL DESIGN.

BUILDING CODE NOTES

THIS PLAN HAS BEEN DESIGNED UNDER THE

2018 NORTH CAROLINA RESIDENTIAL CODE.

APPLICABLE CODES:

N.C. MECHANICAL CODE, 2018

N.C. PLUMBING CODE, 2018

N.C. ELECTRICAL CODE, 2017

N.C. ENERGY CODE, 2018

N.C. FIRE CODE, 2018

N.C. GAS CODE 2018

THE FOLLOWING IS A NON-EXHAUSTIVE LIST OF SOME COMMONLY MISSED CODE REQUIREMENTS AND ARE ENFORCEABLE IN THE CONSTRUCTION FROM THESE PLANS. SEE THE N.C. RESIDENTIAL CODE BOOK FOR MORE INFO.

(R308.4) ALL GLAZING WITHIN 24" OF EITHER SIDE OF A DOOR IN A CLOSED POSITION, AND ON THE SAME WALL PLANE SHALL BE TEMPERED. ALL WINDOWS THAT MEET ALL OF THE FOLLOWING CONDITIONS SHALL BE TEMPERED: A) INDIVIDUAL PANES OF MIN. 9 S.F., B) BOTTOM EDGE IS WITHIN 18" OF FLOOR, C) TOP EDGE IS AT LEAST 36" ABOVE FLOOR, AND D) GLAZING IS WITHIN 36" HORIZ.OF WALKING SURFACE. TEMPERED GLAZING IS ALSO REQUIRED WITHIN 60" OF HOT TUBS OR STAIR LEADING AND FINISH EDGES. TEMPERED WINDOWS ALSO REQUIRED PER REMAINDER OF THIS

2. (R310.1) ALL SLEEPING ROOMS AND BASEMENTS WITH HABITABLE SPACE SHALL HAVE AT LEAST ONE EGRESS WINDOW CONFORMING TO THE FOLLOWING: A) MIN. 40 SF. CLEAR OPENING: B) MIN. TOTAL GLASS AREA OF 5.0 SQ (GROUND FLOOR WINDOW) AND 5.7 S.F. (UPPER STORY WINDOW). IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHOSE THE PROPER CONFORMING WINDOW, AND HAVE EGRESS WINDOWS PROPERLY DISTRIBUTED AND INSTALLED AS REQUIRED.

3. (R311.2) ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE.

4. (R311.7.5) MAXIMUM STAIR RISER HEIGHT SHALL BE 8-1/4", AND MINIMUM TREAD SHALL BE 9".

5. (R314.3) SMOKE ALARMS SHALL BE INSTALLED AND INTERCONNECTED, WITH BATTERY BACK-UP IN THE FOLLOWING AREAS: EACH SLEEPING ROOM± IN THE AREA (HALLWAY) RIGHT OUTSIDE THE SLEEPING ROOMS: AND EACH STORY. THE ONE OUTSIDE THE SLEEPING ROOMS WILL SATISFY THAT STORY.

6. (R402.12) ALL LUMBER SHALL BE PRESSURE TREATED AND DRIED AFTER TREATMENT IN ACCORDANCE WITH AWPA UI AND SHALL BEAR THE LABEL OF AN

7. (R406.1) BITUMINOUS DAMPPROOFING SHALL BE APPLIED TO EXTERIOR FOUNDATIONS OF ALL HABITABLE AND USABLE (STORAGE, ETC) SPACES. 8. (R408.12) INSTALL ONE FOUNDATION VENT WITHIN 3' OF EACH CORNER (NOT ONE EACH SIDE OF EACH CORNER).

9. (R703.4) FLASH ALL VALLEYS AND WALL/ROOF INTERSECTIONS, AND CHIMNEY AND OTHER ROOF PENETRATIONS. USE ICE AND WATER SHIELD ON ALL ROOFS LESS THAN 4:12 SLOPE. FLASHING TO BE NON-CORROSIVE.

10. (R807.1) BUILDER TO LOCATE 22"x30" ATTIC ACCESS IN ALL ATTICS WITHOUT STAIR ACCESS. LOCATE ACCESS TO PROVIDE A 30" CLEAR SPACE ABOVE ACCESS

II. (RIDDI) MASONRY FIREPLACE WALLS TO BE MIN. 8" THICK, AND MIN. 2" TO FRAMING. POURED HEARTHS TO HAVE MIN *4912" O.C. EACH WAY. HEARTHS TO BE MIN. 20" FROM FIREBOX AND HAVE MIN. 12" WIDER THAN FIREBOX ON EACH SIDE.

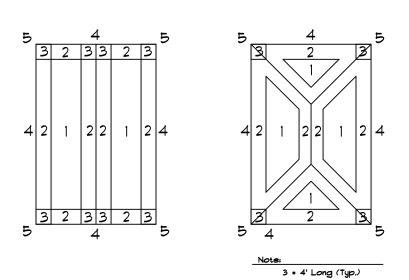
12. (R4Ø3.16) ANCHOR BOLTS SHALL BE MIN. $\frac{1}{2}$ " DIAMETER & SHALL EXTEND A MINIMUM T" INTO MASONRY OR CONCRETE. ANCHOR BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12" OF THE

13. (R315) INSTALL APPROVED CARBON MONOXIDE ALARM OUTSIDE EACH BEDROOM AND IN IMMEDIATE VICINITY OF EACH SEPARATE SLEEPING AREA.

| | TABLE NII@2.1.2 (R4@2.1.2) | | | | | | | | | | |
|-----------------|----------------------------|-----------------|--------------------|--------------------------|---------|-----------------------------|---------|--------------------------|--|--|--|
| CLIMATE ZONE | FENESTRATION U-FACTOR | FENEST. SHGC | CEILING R-YALUE | FRAME WALL R-VALUE | R-VALUE | BASEMENT WALL R-YALUE | R-VALUE | CRAWL WALL R-YALUE | | | |
| 3 | Ø.35 | 0.30 | 38 OR 30 CONT. | 15, 13+2.5 | 19 | 5/13 | 0 | 5/13 | | | |
| 4 | Ø.35 | 0.30 | 38 OR 30 CONT. | 15, 13+2.5 | 19 | 10/15 | 10 | 10/15 | | | |
| 5 | Ø.35 | NR | 38 OR 30 CONT. | 19 , 13+5, OR 15+3 | 3Ø | 10/15 | 10 | 10/19 | | | |

CLIMATIC AND GEOGRAPHIC NOTES:

| | CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA (TABLE 13/012(1)) | | | | | | | | LEAD DESIGN C | ORPORATION: | | | |
|----------------------|---|-------------------------------|------------|------------|-----------------|-------|---------------------------|---|------------------|-------------|------------------------|-------------------------|-------------|
| ROOF SNOW LOAD | WIND SPEED (MPH) (FIGURE 3Ø12(4) 4 (5)) | SEISMIC DESIGN CATEGORY | SUBJECT | TO DAMAGE | FROM | | WINTER DESIGN TEMP. | ICE BARRIER UNDERLAYMENT REQUIRED | FLOOD HAZARDS | FREEZING | MEAN ANNUAL TEMP | Planworx Archite | |
| 20 | 3 SEC. GUST: 130 | В | WEATHERING | FROST LINE | TERMITE | DECAY | | | | | | | |
| PSF | FASTEST MILE: 85 | (REF: FIG. 310/2(2)) | MODERATE | 12" | MOD TO HEAVY | MOD. | 20 | LOCAL | LOCAL | LOCAL | LOCAL | | |
| <u>u</u> | lind Load: | | | c Wind S | | | 100 85 | MPH (3- | STEST | | T) | | |
| | | | , | osure Ca | itegor | y . | В | _ (Suburba | an) | | | <u>PLAN</u> DESIGNER | <u>FIRM</u> |
| <u>_W</u> | <u>ind Zone Ex</u> p | oosure Pla | ıns: | | | | | | | | | | |



| Component and Cladding Loads: | | | | | | | | | |
|-------------------------------|--|---|--|--|--|---|--|--|--|
| Worst Case - 10 s.f. (typ.) | | | | | | | | | |
| Mean Roof Hgt. Up to 30' | | | | <u>35'-1</u> | " - 4 <u>0'</u> | <u>40'-1" - 45'</u> | | | |
| <u>Design</u> Pressure | <u>Uplift</u> Force | <u>Design</u> <u>Pressure</u> | <u>Uplift</u> Force | <u>Design</u> <u>Pressure</u> | <u>Uplift</u> Force | <u>Design</u> <u>Pressure</u> | <u>Uplift</u> Force | | |
| <u>16.7 psf</u> | <u>-18.0 psf</u> | 17.5 psf | <u> 18.9 psf</u> | <u>18.2 psf</u> | <u>-19,6 psf</u> | 18.7 psf | -20.2 psf | | |
| <u>16.7 psf</u> | <u>-21.0 psf</u> | <u>17.5 psf</u> | <u>-22.l psf</u> | <u>18.2 psf</u> | <u>-22.9 psf</u> | <u>18.7 psf</u> | <u>-23.5 pef</u> | | |
| <u>16.7 psf</u> | <u>-21.0 psf</u> | <u>17.5 psf</u> | <u>-22.1 psf</u> | <u>18.2 psf</u> | <u>-22.9 psf</u> | <u>18.7 psf</u> | <u>-23.5 psf</u> | | |
| <u>18.2 psf</u> | <u>-19.0 psf</u> | <u>19.1 psf</u> | <u>-20.0 psf</u> | <u>19,8 psf</u> | <u>-20.7 psf</u> | <u>20.4 psf</u> | <u>-21.3 psf</u> | | |
| <u>18.2 psf</u> | -24.0 psf | <u>19.1 psf</u> | <u>-25.2 psf</u> | <u>19,8 pef</u> | -20.7 psf | 20.4 psf | <u>-26.9 psf</u> | | |
| | Design Pressure IE.T psf IE.T psf IE.T psf IE.T psf IE.T psf | Design Uplift Pressure Force 6.1 psf -18.0 psf 6.1 psf -21.0 psf 6.1 psf -21.0 psf 6.2 psf -19.0 psf 6.2 psf -19.0 psf | Design Uplift Design Pressure 15 psf -12.0 psf 17.5 psf 16.1 psf -21.0 psf 17.5 psf 16.2 psf -21.0 psf 17.5 psf 16.2 psf -21.0 psf 17.5 psf 16.2 psf -19.0 psf 19.1 psf | Design Uplift Design Uplift Pressure Force Force Force Force Design Uplift Pressure Force Design Uplift Pressure Force Design Uplift Pressure Force Design Uplift Pressure Force Design Design | Lip to 30' 30'-1" - 35' 35'-1 Design Uplift Design Uplift Design Fressure Force Fressure Lip to 30' 30'-1" - 35' 35'-1 Design Uplift Design Fressure Lip to 5 17.5 pef -18.9 pef 18.2 pef Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 35'-1 35' 35'-1 Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 17.5 pef -18.9 pef 18.2 pef 18.2 pef Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 17.5 pef -22.1 pef 18.2 pef Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 30'-1" - 35' 35'-1 Lip to 30' 17.5 pef -18.9 pef 18.2 pef Lip to 30' 17.5 pef -22.1 pef 18.2 pef Lip to 30' 17.5 pef -22.1 pef 18.2 pef Lip to 30' 17.5 pef -22.1 pef 18.2 pef Lip to 30' 17.5 pef -22.1 pef 18.2 pef Lip to 30' 17.5 pef -22.1 pef 18.2 pef Lip to 30' 17.5 pef -22.1 pef 18.2 pef Lip to 30' 17.5 pef -22.0 pef 19.8 pef Lip to 30' 17.5 pef -20.0 pef 19.8 pef | Up to 30' 30'-1" - 35' 35'-1" - 40' | TABLE R30 Sp. Table R30 Tabl | | |

***All windows shall be labeled to conform with AAMA/WDMA/CSA 101/1.52/A440 ***All windows shall be rated with impact Glazing if windspeeds are equall to or exceed 145 MPH

CERTIFICATION * CERT. NO. 50909

| DESIGNER | <u>FIRM</u> | <u>NAME</u> | <u>License</u> * | <u>Telephone *</u> |
|---------------|-----------------------------|---------------------|------------------|--------------------|
| Architectural | Planworx Architecture, P.A. | Marc W. Mills, R.A. | <u> </u> | (919) 846-8100 |
| Structural | Planworx Architecture, P.A. | Marc W. Mille, R.A. | 7579 | (919) 846-8100 |
| | | | | |

DESIGN DATA:

PROJECT SQUARE FOOTAGES

| Heated Square Footage | |
|-------------------------|-------|
| Second Floor Htd. | 974 |
| Total Htd. | 974 |
| Unheated Square Footage | 2 |
| Garage - Three Car | 1,130 |
| Porch Alcove | 37 |

BUILDING DATA:

Construction Type: <u>V-B</u> Use Group: Building Height: 28'-0''Mean Roof Height: $\frac{20'-11-1/4"}{2}$ <u>Structure:</u>

REV: 12/05/1

HEIGHTS ARE BASED ON GRADE LINE PROVIDED ON ELEVATIONS - VERIFY IN FIELD

Number of Stories: 2

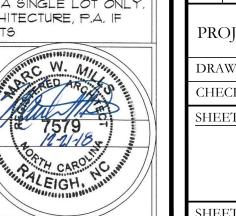
<u>Bearing Wall</u> Basic Structural System: Earthquake 🗌 Lateral Design Control: Wind 🛛 2,000 psf (Presumptive) Soil Bearing Capacity:

INDEX OF DRAWINGS:

| SHEET | SHEET NAME |
|-------|-------------------------------------|
| CS | Cover Sheet |
| A-1 | Exterior Elevations |
| A-2 | Wall Section Details |
| A-3 | Floor Plans |
| AS-1 | Foundation & Second Floor Framing |
| AS-2 | Second Floor Ceiling & Roof Framing |
| D-1 | Standard Details |
| D-2 | Standard Details |
| D-3 | Standard Details |
| D-4 | Standard Details |

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MARC W. MILLS, RA DATE SEALED: INVALID IF UNSEALED NORTH CAROLINA LICENSE # 1519



Cover Sheet

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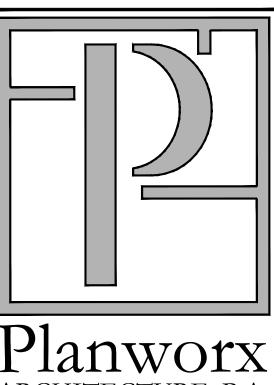
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ARCHITECTURE, P.A 5711 Six Forks Road, Suite 10 Raleigh, NC 2760

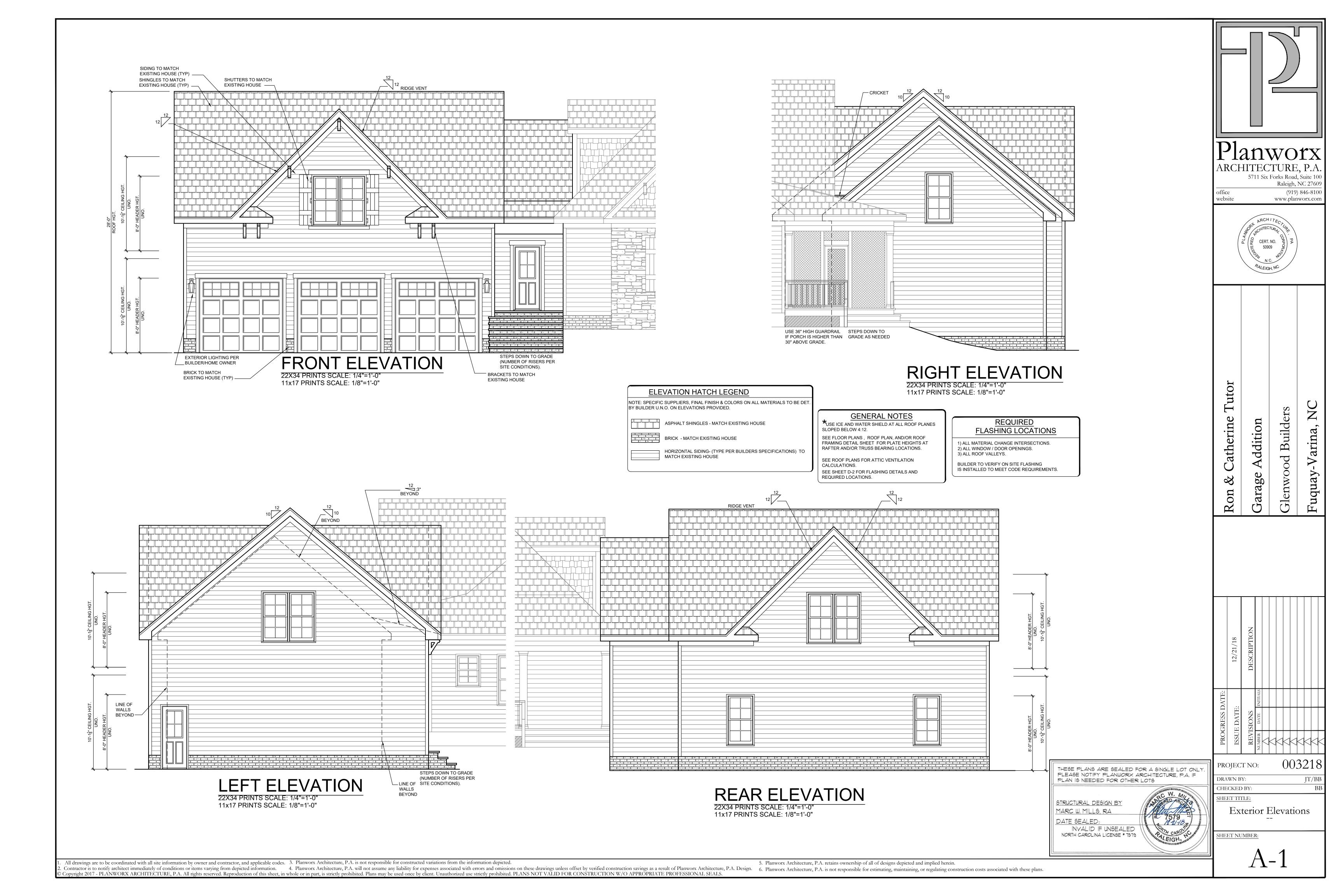
(919) 846-810 www.planworx.com

Builders

003218 PROJECT NO:

DRAWN BY: CHECKED BY: SHEET TITLE:

SHEET NUMBER:



**NOTE: DETAILS PROVIDED ARE FOR PLATE DETAILS ONLY. REFER TO STRUCTURAL SHEETS & TRUSS LAYOUT PLANS TO CONFIRM FLOOR MEMBER SIZE & DIRECTIONS, RAFTER / TRUSS SIZES & DIRECTIONS, TRUSS WEBBING AND ROOF OVERHANGS.

GENERAL NOTES *USE ICE AND WATER SHIELD AT ALL ROOF PLANES

SLOPED BELOW 4:12.

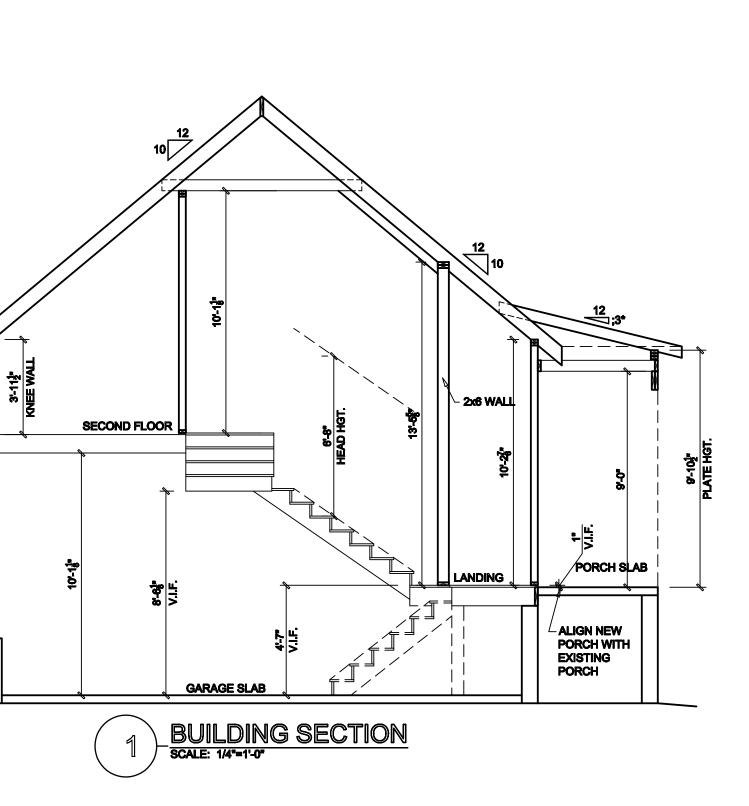
SEE FLOOR PLANS, ROOF PLAN, AND/OR ROOF FRAMING DETAIL SHEET FOR PLATE HEIGHTS AT RAFTER AND/OR TRUSS BEARING LOCATIONS.

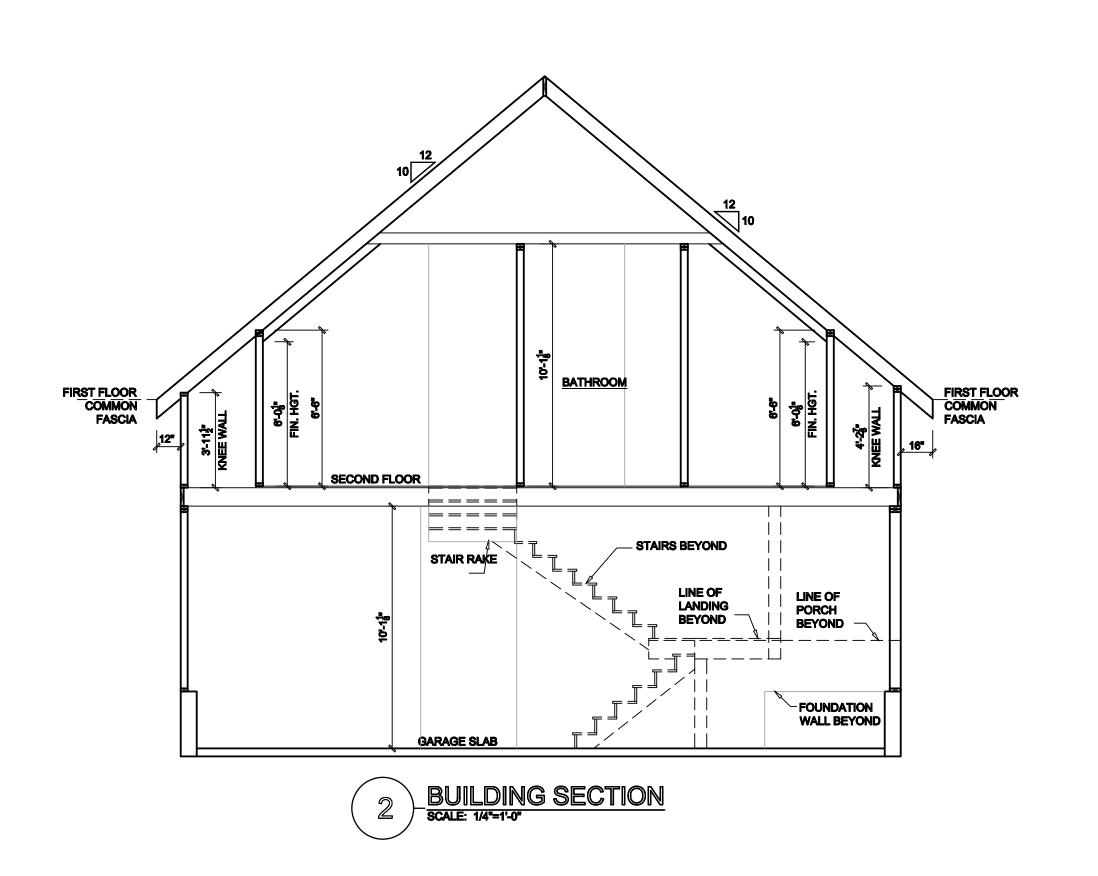
SEE ROOF PLANS FOR ATTIC VENTILATION CALCULATIONS. SEE SHEET D-2 FOR FLASHING DETAILS AND REQUIRED LOCATIONS.

REQUIRED FLASHING LOCATIONS

1) ALL MATERIAL CHANGE INTERSECTIONS. 2) ALL WINDOW / DOOR OPENINGS. 3) ALL ROOF VALLEYS.

BUILDER TO VERIFY ON SITE FLASHING IS INSTALLED TO MEET CODE REQUIREMENTS.





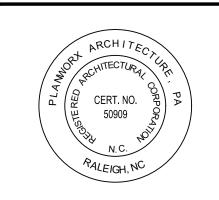
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ARCHITECTURE, P.A 5711 Six Forks Road, Suite 100

Raleigh, NC 27609 (919) 846-8100 www.planworx.com



Tutor Builders Addition Varina, pc

Catherine Garage

003218 PROJECT NO:

DRAWN BY: CHECKED BY:

Wall Section Details

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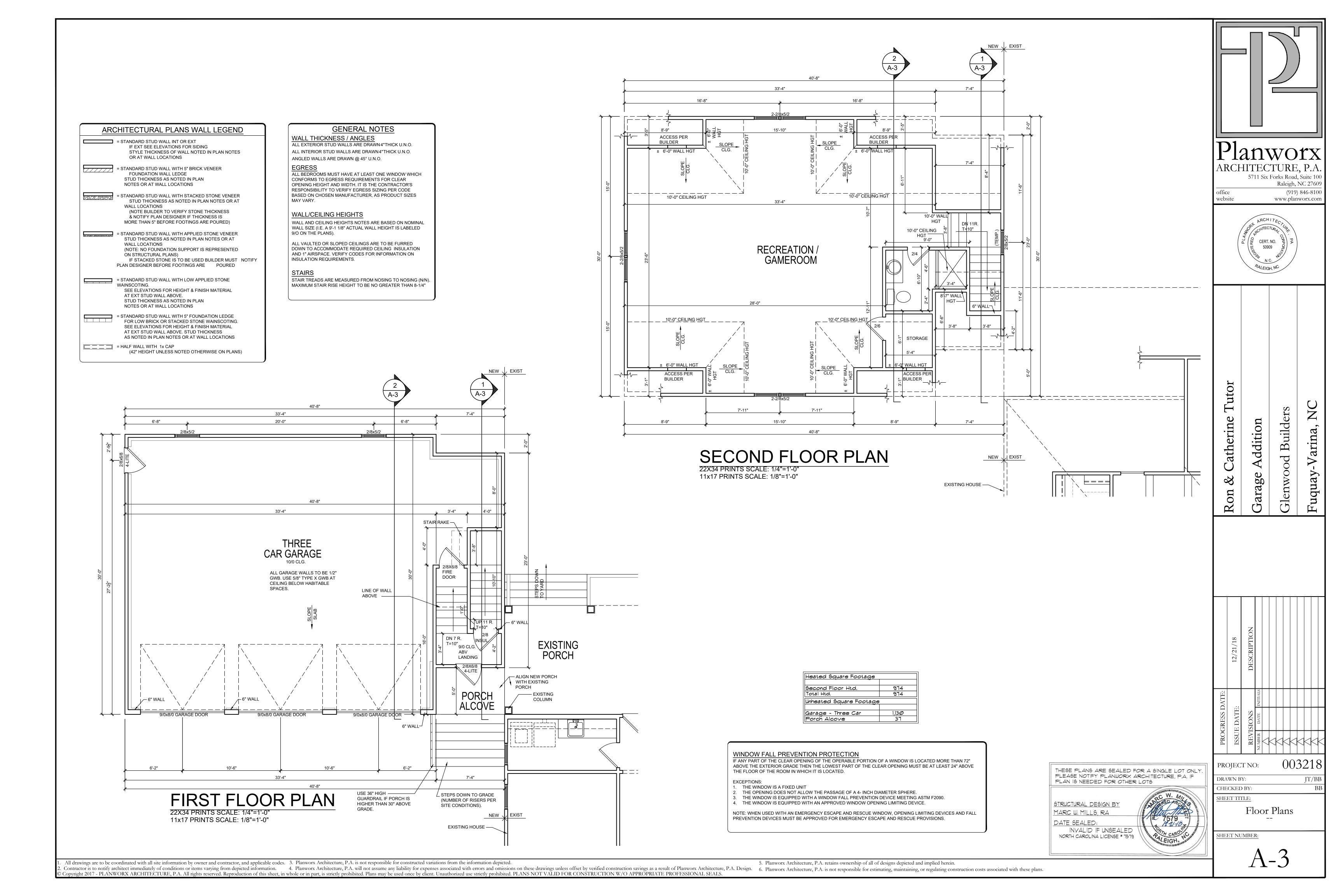
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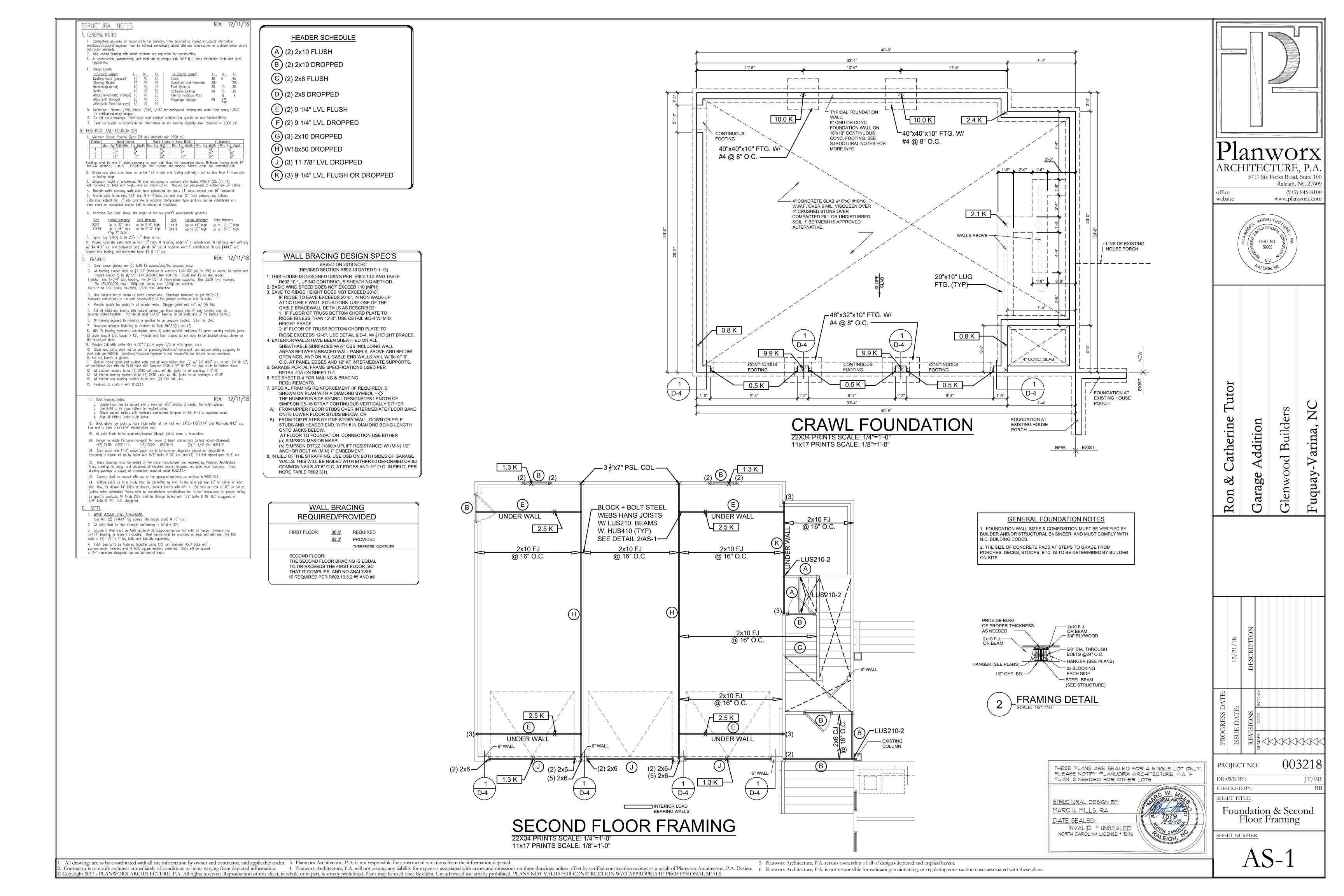
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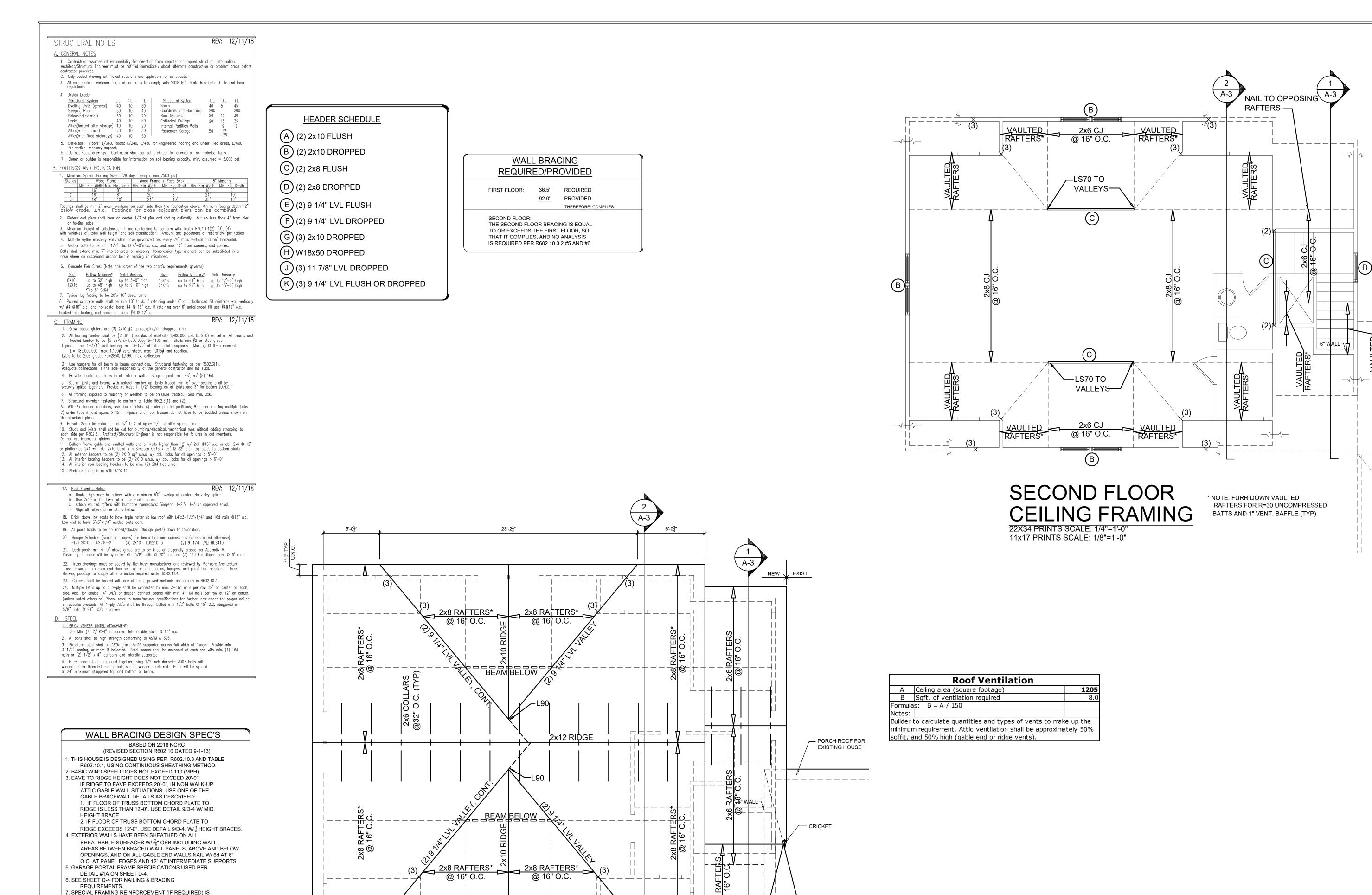
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STRUCTURAL DESIGN BY

MARC W. MILLS, RA

DATE SEALED:

STUDS AND HEADER END, WITH # IN DIAMOND BEING LENGTH ONTO JACKS BELOW. (a) SIMPSON MAS OR MASB

ONTO LOWER FLOOR STUDS BELOW, OR

NCRC TABLE R602.3(1).

SHOWN ON PLAN WITH A DIAMOND SYMBOL = . THE NUMBER INSIDE SYMBOL DESIGNATES LENGTH OF

AT FLOOR TO FOUNDATION CONNECTION USE EITHER (b) SIMPSON DTT2Z (1800lb UPLIFT RESISTANCE) W/ (MIN) 1/2"

B) FROM TOP PLATES OF ONE STORY WALL, DOWN CRIPPLE

ANCHOR BOLT W/ (MIN) 7" EMBEDMENT. IN LIEU OF THE STRAPPING, USE OSB ON BOTH SIDES OF GARAGE WALLS. THIS WILL BE NAILED WITH EITHER 6d DEFORMED OR 8d COMMON NAILS AT 6" O.C. AT EDGES AND 12" O.C. IN FIELD, PER

SIMPSON CS-16 STRAP CONTINUOUS VERTICALLY EITHER

A) FROM UPPER FLOOR STUDS OVER INTERMEDIATE FLOOR BAND

5'-0³"

RAFTERS FOR R=30 UNCOMPRESSED

BATTS AND 1" VENT. BAFFLE (TYP)

* NOTE: FURR DOWN VAULTED

NEW

EXISTING ROOF FOR

EXISTING HOUSE ·

EXIST

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utor atherine

Builder Addition p Garage

003218

PROJECT NO:

DRAWN BY: CHECKED BY:

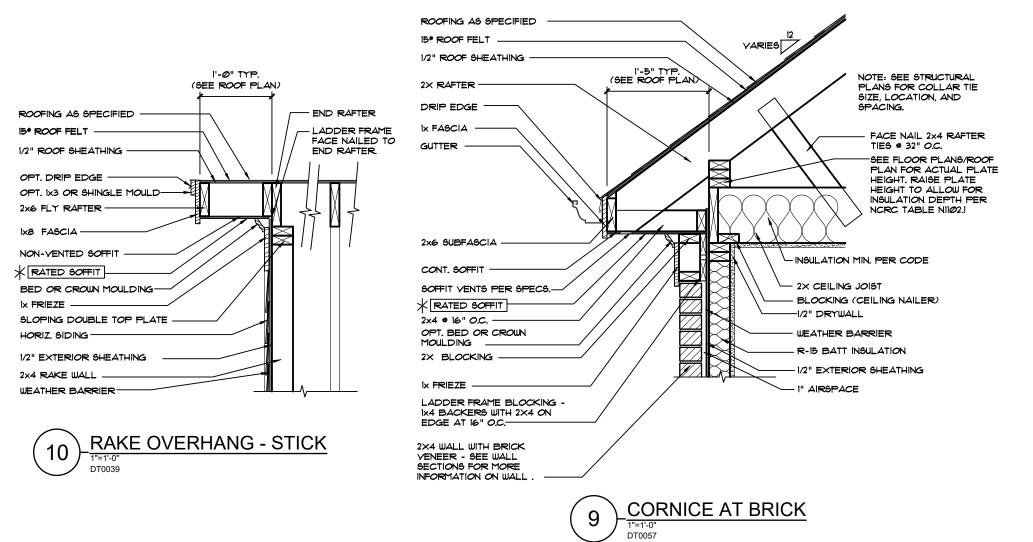
SHEET TITLE:

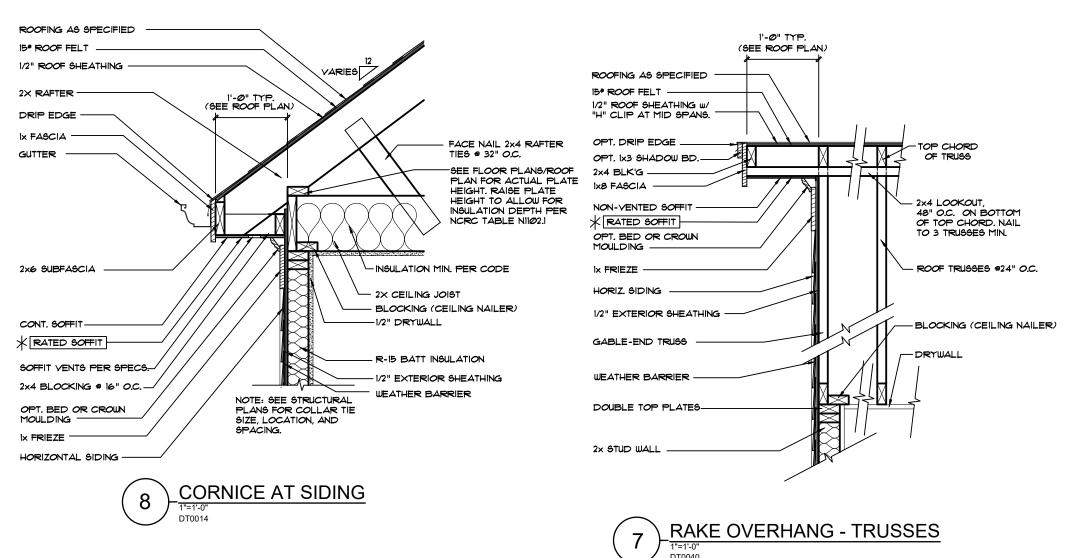
Second Floor Ceiling & Roof Framing

SHEET NUMBER:

ROOF FRAMING

11x17 PRINTS SCALE: 1/8"=1'-0"







www.planworx.com CERT. NO. 50909

Builder Addition p

atherine

Garage

003218 PROJECT NO:

DRAWN BY:

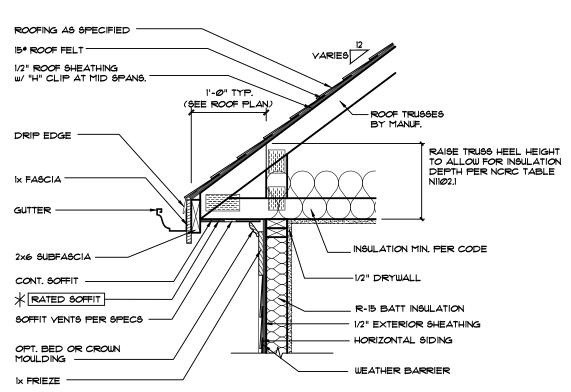
CHECKED BY: HEET TITLE:

Typical Details

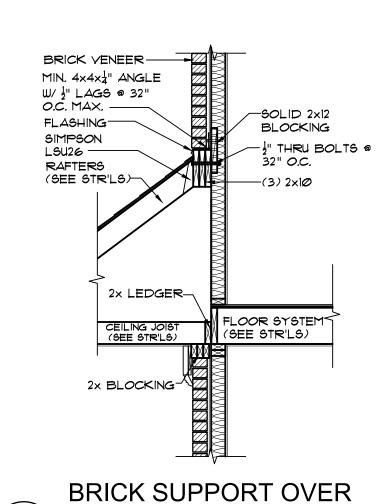
SHEET NUMBER:

ACCEPTABLE MANUFACTURER: G-P DENSE GLASS GOLD FIREGUARD EXTERIOR GUARD OR EQUAL. GA FILE NO. WP 8105 **GENERIC** 1 HOUR FIRE GYPSUM WALLBOARD, GYPSUM SHEATHING, WOOD STUDS EXTERIOR SIDE: One layer 48" wide 5/8" type X gypsum sheathing applied parallel to 2 x 4 wood studs with 13/4" galvanized roofing nails, 0.120" shank, 7/16" or 1/2" heads, 4" o.c. at vertical joints and 7" o.c. at intermediate studs and top and bottom plates. Joints of gypsum sheathing may be left untreated. Exterior cladding to be attached through INTERIOR SIDE: One layer $^{5}/8^{\shortparallel}$ type X gypsum wallboard, water-resistant gypsum backing board, or gypsum veneer base applied parallel or at right angles to studs with 6d coated nails, 17/8" long, 0.0915" shank, 1/4" heads, 7" o.c. (LOAD-BEARING) Approx. Weight: 7 psf (UL R3501-47, -48, 9-17-65, UL R1319-129, 7-22-70, UL Design U314)

I HOUR RATED (PRESCRIPTIVE 1.33 HR) W/ (2) LAYERS 5 TYPE X GYP BD. AT UNDERSIDE OF SOFFIT/RAKE AS REQUIRED. SEE PLANS FOR LOCATIONS. USE EXTERIOR GRADE (G-P FIREGUARD EXTERIOR OR EQUAL) UNDER FINISHED NON-VENTED SOFFIT.

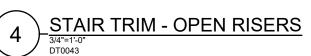


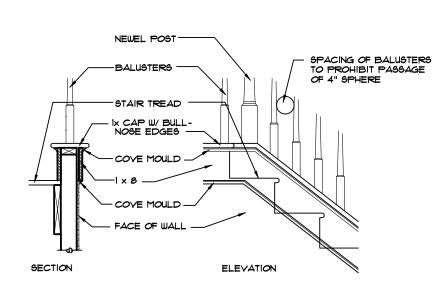
TYP. CORNICE - TRUSSES



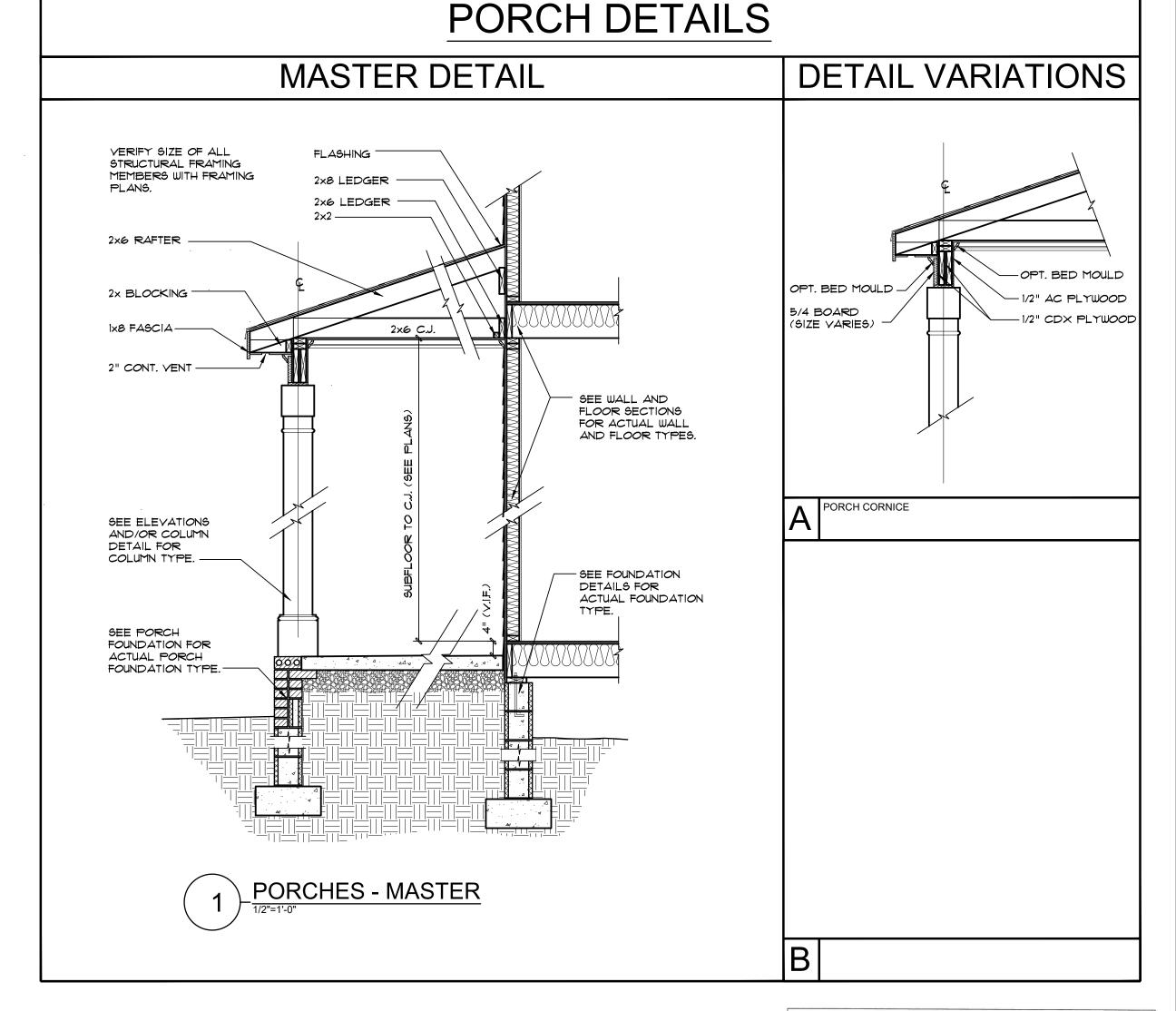
All drawings are to be coordinated with all site information by owner and contractor, and applicable codes. 3. Planworx Architecture, P.A. is not responsible for constructed variations from the information depicted.

SPACING OF BALUSTERS TO PROHIBIT PASSAGE OF 4" SPHERE NEWEL POST -- STAIR TREAD-NOSE EDGES -- COVE MOULD -COVE MOULD — SECTION ELEVATION

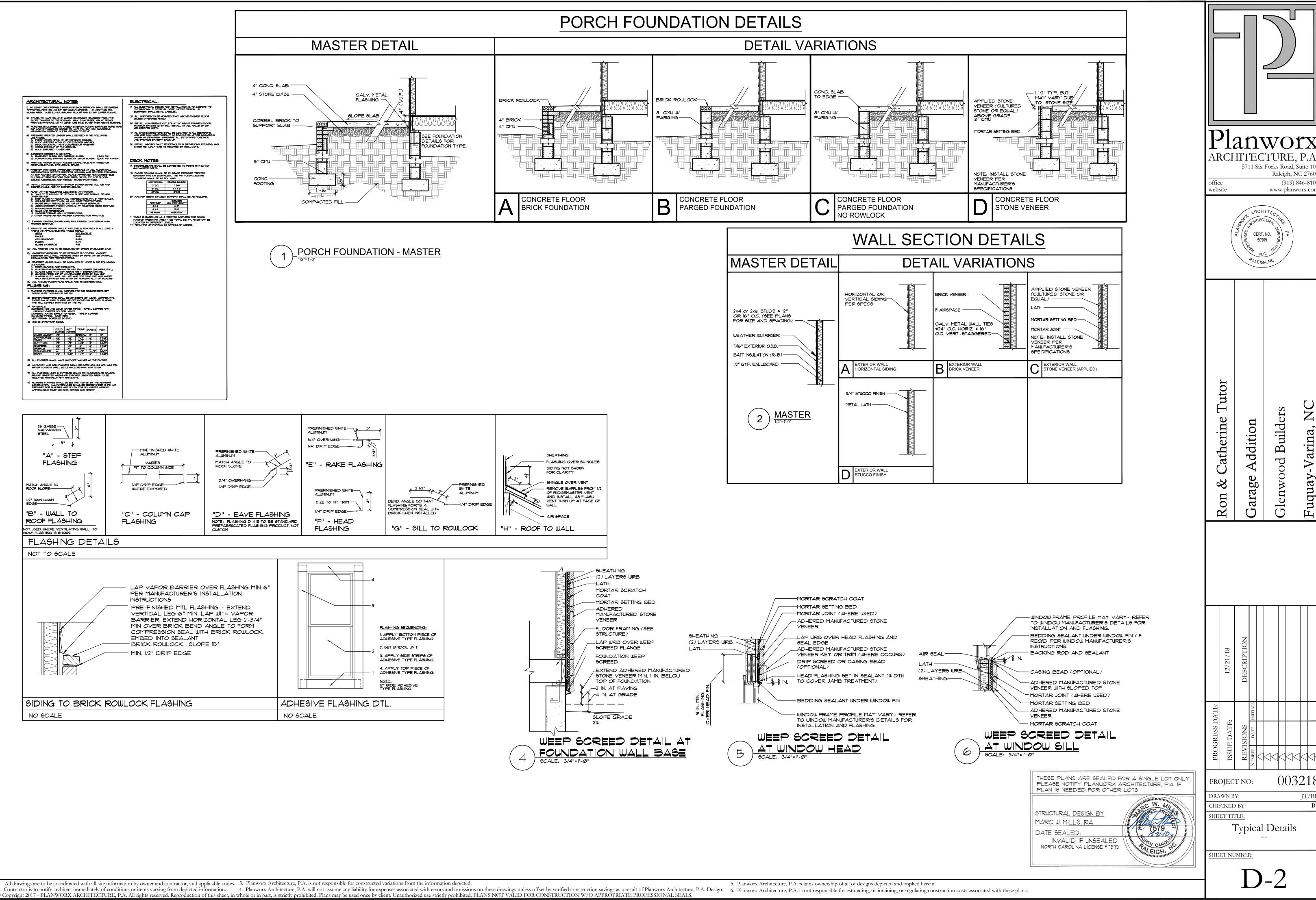




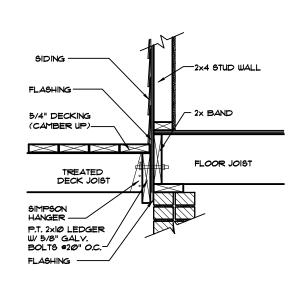
STAIR TRIM - CLOSED RISERS



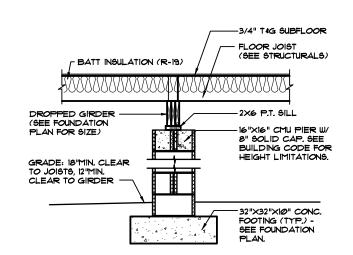
THESE PLANS ARE SEALED FOR A SINGLE LOT ONLY PLEASE NOTIFY PLANWORX ARCHITECTURE, P.A. IF PLAN IS NEEDED FOR OTHER LOTS STRUCTURAL DESIGN BY MARC W. MILLS, RA INVALID IF UNSEALED NORTH CAROLINA LICENSE # 7579



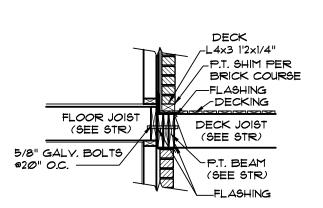
5711 Six Forks Road, Suite 10 Raleigh, NC 2760 (919) 846-810 www.planworx.com



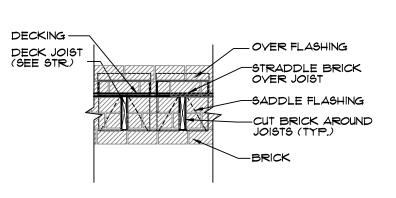
3 - DECK ATTACHMENT



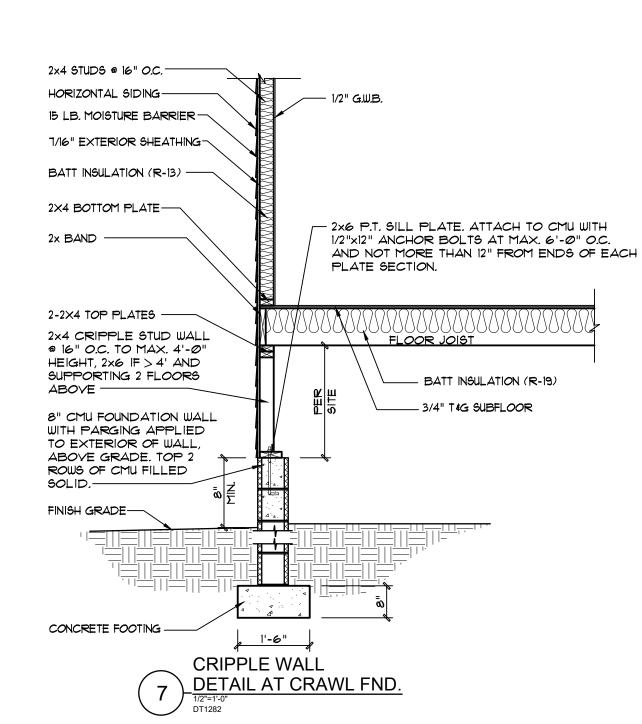
PIER/GIRDER AT CRAWL

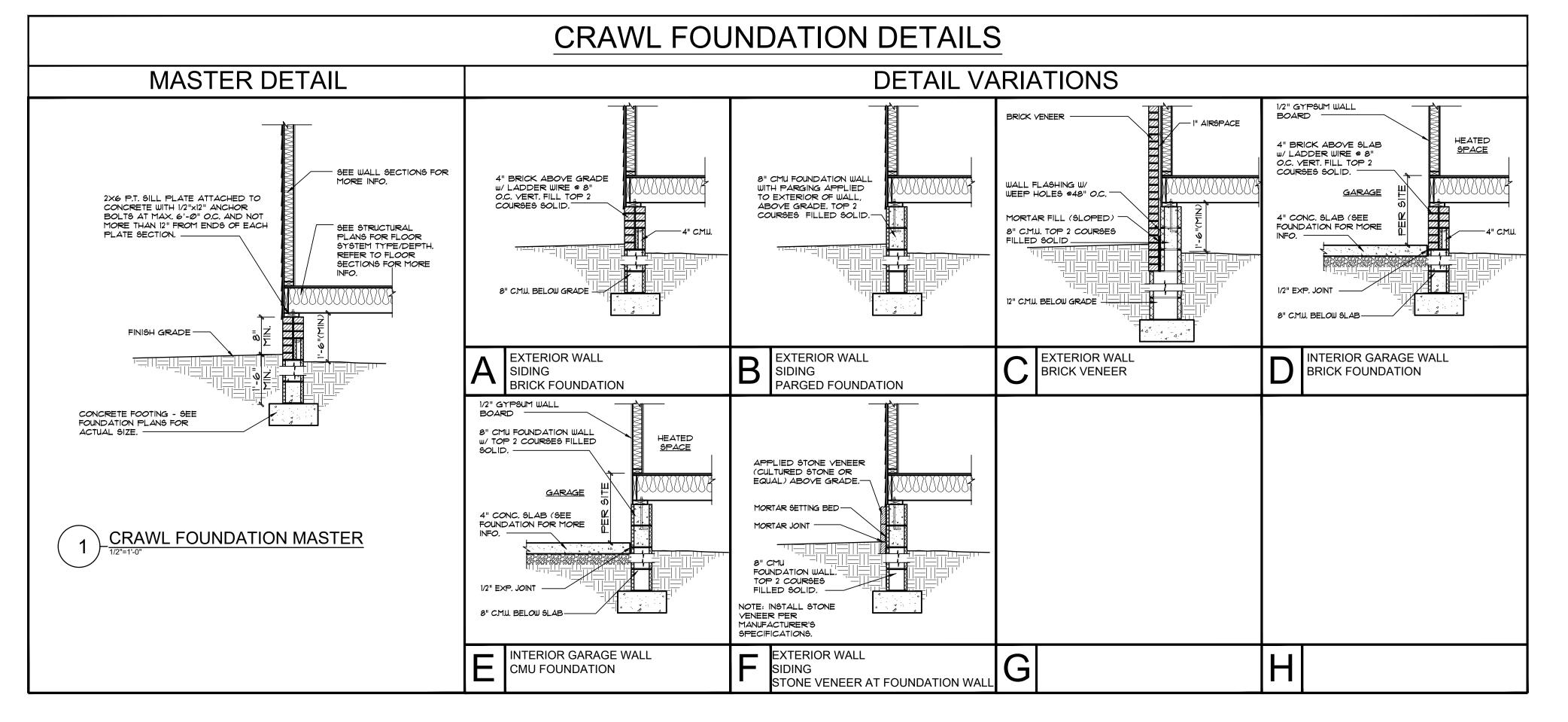


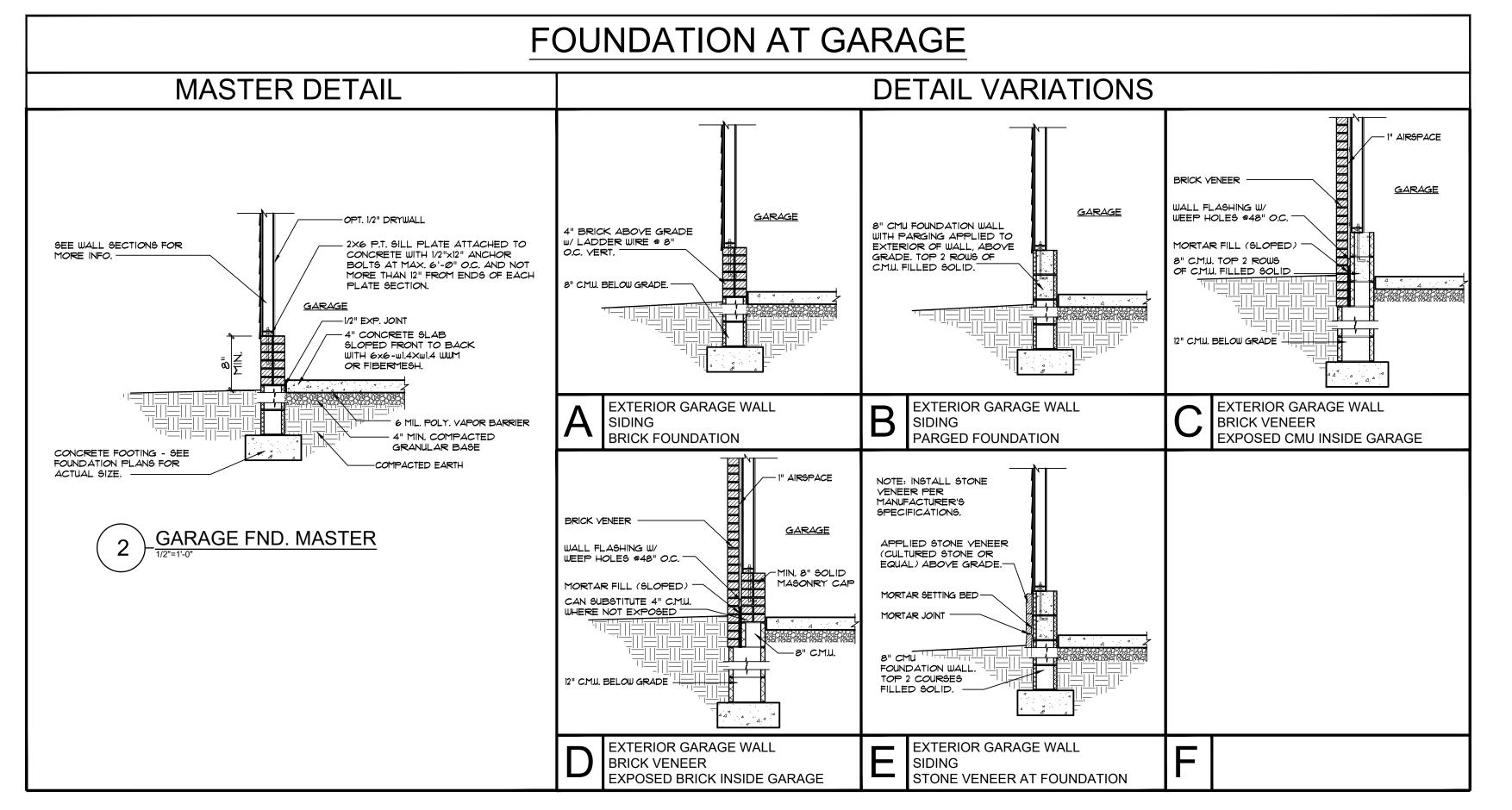
5 BLOCKED DECK ATTACHMENT 1/2"=1'-0" DT1200 SECTION VIEW

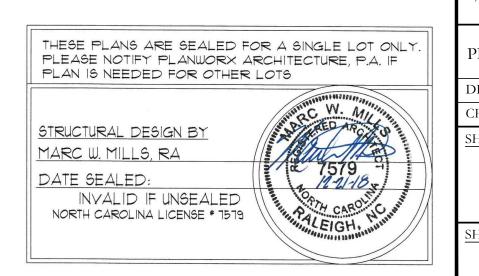


HANGERED BAND DECK ATTACHMENT 1/2"=1'-0" DT1201 VIEW PERPENDICULAR TO WALL









| ARCI- office website | | FURE Forks Road, Raleigh, 1 (919) www.plan | P.A. Suite 100 NC 27609 846-8100 |
|------------------------------------|---|--|---|
| | ARCH I ARCH I RECTION SOURCE N.C RALEIGH | , MOIT | |
| Ron & Catherine Tutor | Garage Addition | Glenwood Builders | Fuquay-Varina, NC |
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| PROGRESS DATE: 12/21/18 | REVISIONS DESCRIPTION NUMBER DATE INTIALS | | |
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