# Residence for

# Adams Homes AEC, LLC Plan 3119 "A" FE (L) CW016

#### **GENERAL NOTES:**

- ALL WORK IS TO BE DONE IN STRICT ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE, 2018 EDITION (HEREWITH SHOWN AS N.C.S.R.B.C.).
- 2. DIMENSIONS SHOWN ON DRAWINGS GOVERN OVER SCALE.
- 3. STUD WALL DESIGN SHALL CONFORM TO ALL N.C.S.R.B.C. REQUIREMENTS.
- 4. CONTRACTOR SHALL USE TEMPERED SAFETY GLASS IN ALL LOCATIONS AS REQUIRED BY N.C.S.R.B.C., SECTION R308.4
- 5. ANY HABITABLE ROOM SHALL MEET ALL LIGHT/VENTILATION AND EGRESS AS REQUIRED BY N.C.S.R.B.C., SECTIONS R-303.1 AND R-310.1
- 6. ALL WALLS SHOWN ON FLOOR PLANS ARE 2x4 FRAME UNLESS NOTED OTHERWISE.
- ALL ANGLED WALLS SHOWN ON FLOOR PLANS ARE 45° UNLESS NOTED OTHERWISE.
- 8. ALL WINDOWS SHALL HAVE A MINIMUM DPI RATING OF 25. BUILDER SHALL VERIFY WITH WINDOW MANUFACTURER THAT UNITS INSTALLED MEET THESE REQUIREMENTS AS PER N.C.S.R.B.C., TABLE 301.2(6).
- ENERGY EFFICIENCY REQUIREMENTS FOR THE SPECIFIC CLIMATE ZONE WHERE STRUCTURE IS BEING BUILT SHALL BE IN ACCORDANCE WITH CHAPTER II OF THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, AS SHOWN IN TABLES NIIOI.2 AND NIIO2.I
- 10. TERMITE TREATMENT BORATE APPLIED TO ALL FRAME MEMBERS WITHIN 24" AFF.

**INDEX TO DRAWINGS:** 

FRONT AND LEFT SIDE ELEVATIONS REAR AND RIGHT SIDE ELEVATIONS FIRST FLOOR PLAN

SECOND FLOOR PLAN FIRST FLOOR ELECTRICAL PLAN

SECOND FLOOR ELECTRICAL PLAN FLOOR PLAN OPTIONS OPT1 REAR PORCH OPTION OPT2

CONSTRUCTION DETAILS CONSTRUCTION DETAILS D2 CONSTRUCTION DETAILS

COVER SHEET

STEM WALL SLAB FOUNDATION PLAN FIRST FLOOR CEILING FRAMING PLAN S2 SECOND FLOOR CEILING FRAMING PLAN S3

ROOF FRAMING PLAN STRUCTURAL DETAILS STRUCTURAL DETAILS STRUCTURAL SPECIFICATIONS

#### REAR PORCH OPTION

- PLANS ARE DESIGNED TO THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- 2. HOUSE IS DESIGNED FOR 115 MPH, 3 SECOND GUST (89 MPH FASTEST WIND), EXPOSURE B.
- 3. ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER WITH STANDARD WASHER AND NUT AND SHALL EXTEND 7" MIN. INTO MASONRY OR CONCRETE. BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12" OF CORNERS. ALTERNATE ANCHOR STRAPS CAN BE USED INSTEAD OF ANCHOR BOLTS SPACED AT THE EQUIVALENT SPACING AND INSTALLED PER MANUFACTURER'S SPECIFICATION'S EXCEPT AT GARAGE LUG FTG.

RESIDENTIAL BUILDING CODE SUMMARY

- 4. MEAN ROOF HEIGHT: 24'-4"
- 5. COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS: MEAN ROOF HGT: UP TO 30' 30'-1"TO 35' 35'-1"TO 40' 40'-1"TO 45'

ZONE I	16.5, -18.0	17.3, -18.9	18.0, -19.6	18.5, -20.2
ZONE 2	16.5, -21.0	17.3, -22.1	18.0, -22.9	18.5, <b>-</b> 23.5
ZONE 3	16.5, -21.0	17.3, <b>-</b> 22.l	18.0, -22.9	18.5, <b>-</b> 23.5
ZONE 4	18.0, -19.5	18.9, -20.5	19.6, <b>-</b> 21.3	20.2, <b>-</b> 21.8
ZONE 5	18.0, -24.1	18.9, -25.3	19.6, -26.3	20.2, -27.0

- 6. MINIMUM VALUES FOR ENERGY COMPLIANCE: ZONE 4
- 7. MAXIMUM GLAZING U-FACTOR: 0.35
- 8. INSULATING VALUES: CEILING: R-30\* / WALLS: R-15 / FLOOR: R-19 SLABS: R-IO. CODE REFERENCE: TABLE NIIO2.I (\*R-30 ONLY IF UNCOMPRESSED, R-38 REQUIRED IF COMPRESSED)
- 9. FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R703.8 OF THE N.C.R.B.C.
- IO. FIREBLOCKING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R602.8 OF THE N.C.R.B.C.
- II. DRAFTSTOPPING SHALL BE INSTALLED IN ACCORDANCE WITH THE N.C.R.B.C.

#### **AREA CALCULATIONS**

IST FLOOR:	1533	GARAGE:	423
2ND FLOOR:	1586	FRONT PORCH:	77
REC. ROOM:	0	PATIO:	140
TOTAL:	3119	BRICK:	0
		TOTAL:	640
MIDTH:	45'-6"		
DEPTH.	51'-0"	COV PATIO OPTION.	224

#### **TOILET ACCESSORIES LEGEND**

**MATERIALS LEGEND** 

ROUGH MOOD

BLOCKING

PLYMOOD

BATT INSULATION

RIGID INSULATION

PROVIDE 2x4 BLOCKING IN THE WALL FOR THE FOLLOWING:

TOWEL BAR

CONCRETE BLOCK/STONE

CONCRETE

BRICK

- TOILET PAPER HOLDER TOWEL RING
- MEDICINE CABINET
- MAGAZINE RACK

THE PURPOSE OF THESE DRAWINGS IS TO SHOW THE INTENT OF THE DESIGN AND CONSTRUCTION OF THIS HOME. ANY ERRORS AND/OR OMISSIONS FOUND IN THIS SET SHOULD IMMEDIATELY BE REPORTED TO ADAMS HOMES FOR CLARIFICATION OR CORRECTION. THE CONTRACTOR SHOULD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.

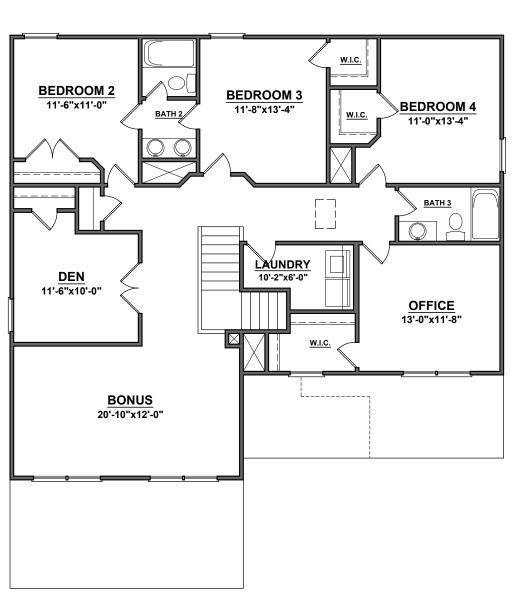
NOT NEEDED WITH SLAB FOUNDATION

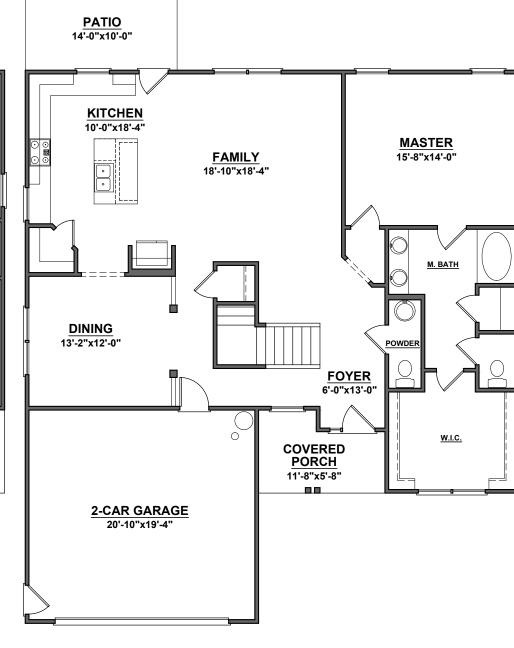
FOUNDATION VENTING CALCULATIONS

#### ATTIC VENTILATION REQUIREMENTS

NATURAL ROOF VENTILATION	MECHANICAL ROOF VENTILATOR
2 <i>0</i> 3350. FT.	20335a. FT. = <b>6.78</b> SQ. FT. VENT REQ'I
15.99 9Q. FT. VENT REQ D	300 - 6.10 9Q. FT. VENT REQ I
BUILDER TO PROVIDE APPROPRIATE	VENTU ATING AS REQUIRED PER CODE



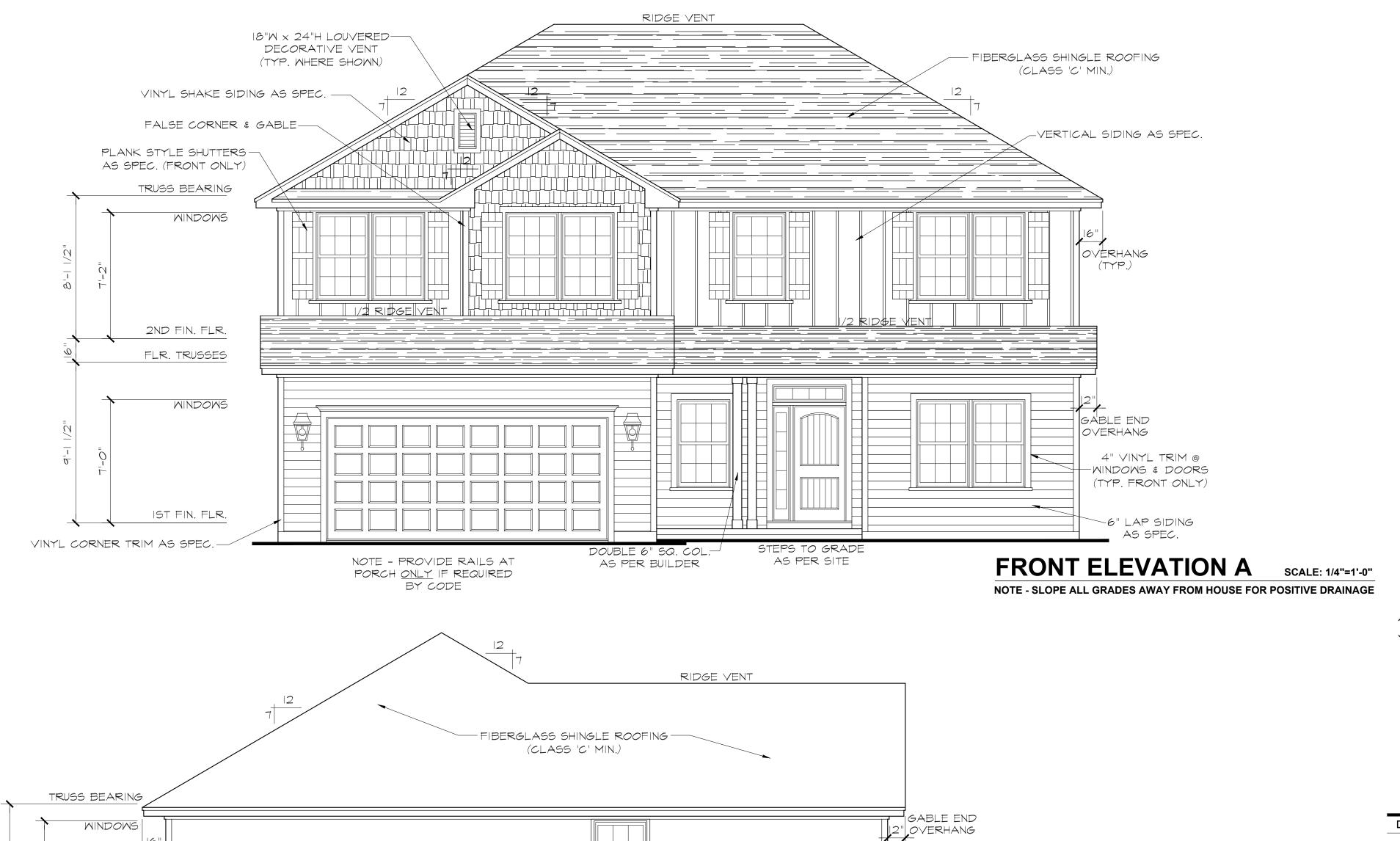






HOMES AEC, LLC

5455



PARGED FND. AS SPEC.

OVERHÅNG

6" LAP SIDING AS SPEC.

2ND FIN. FLR.

FLR. TRUSSES

WINDOWS

IST FIN. FLR.

**.EVA** 

LEFT SIDE ELEVATION
SCALE: 1/4"=1'-0"

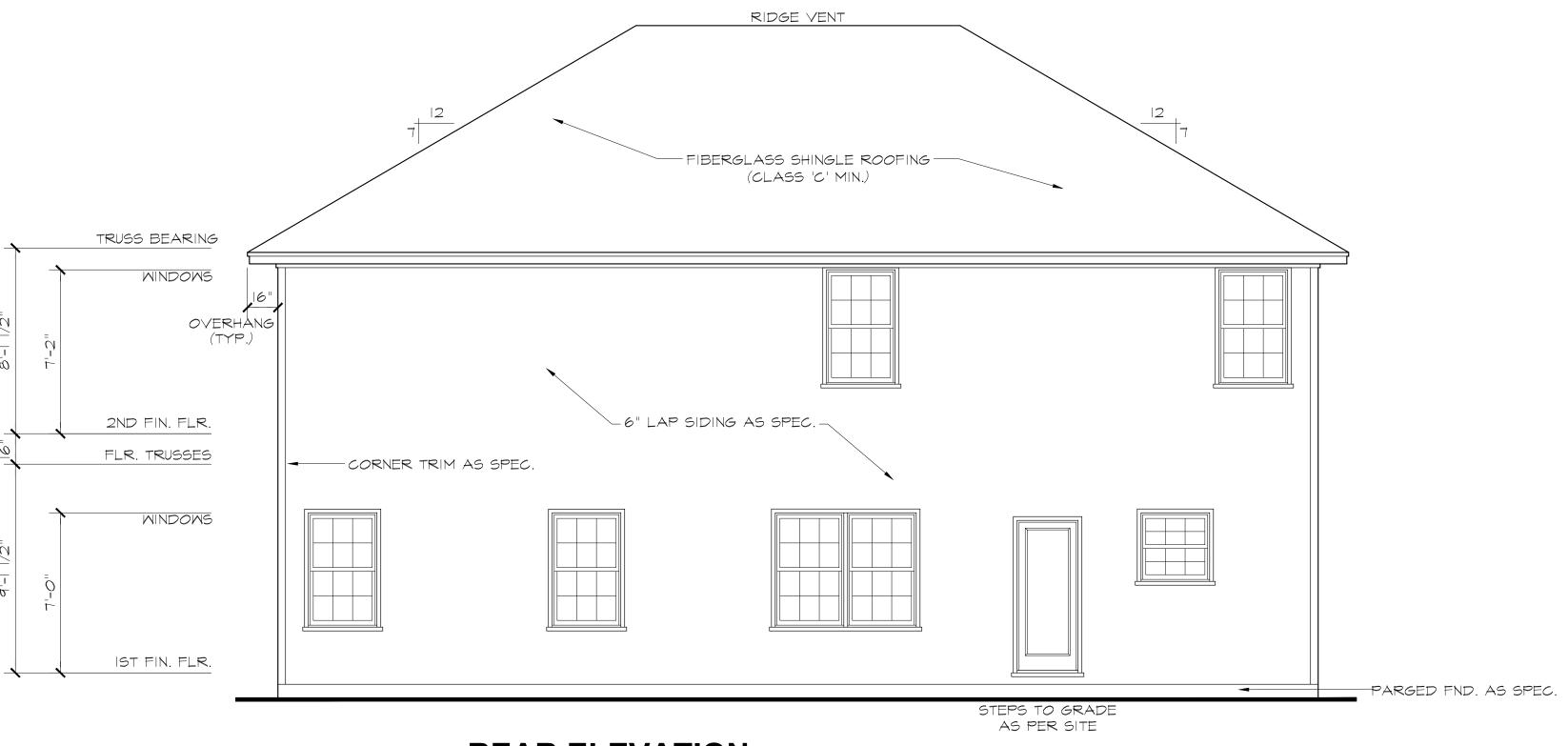
CORNER TRIM AS SPEC.

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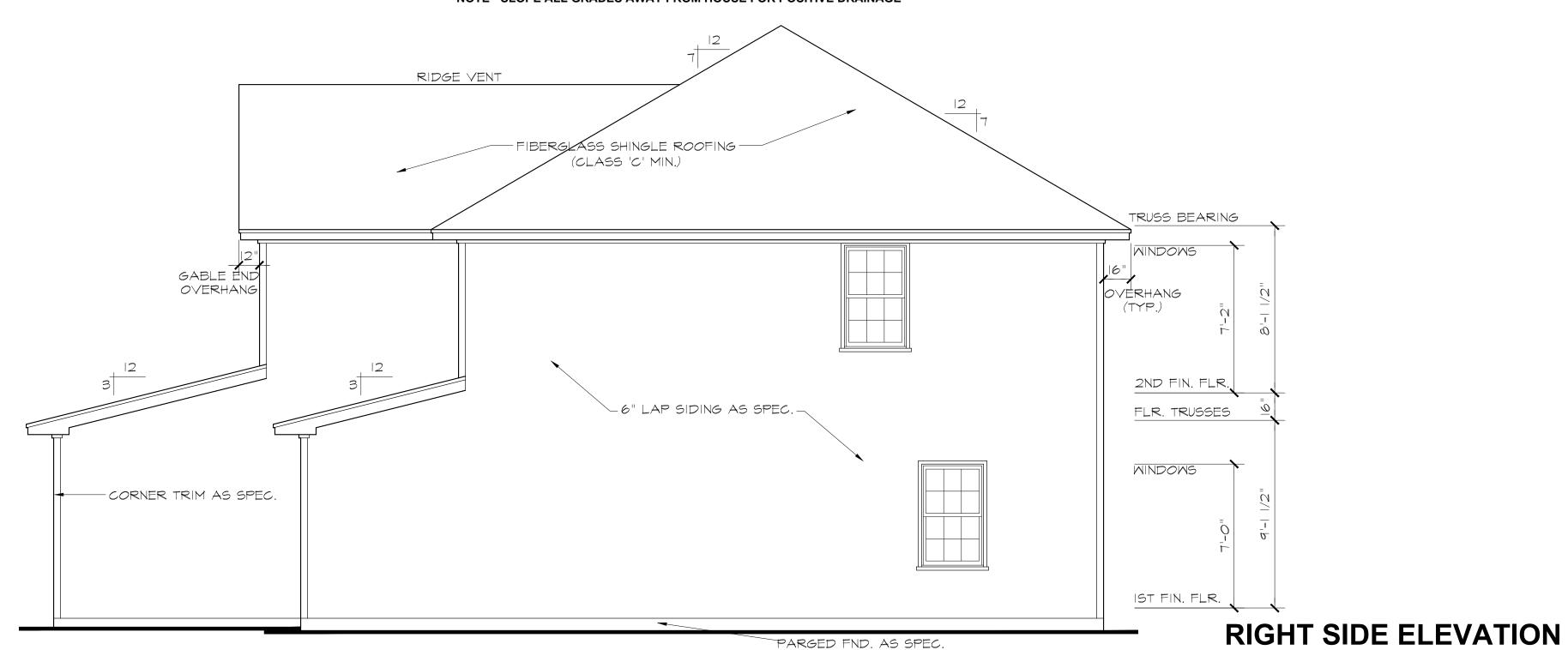
SCALE: 1/4"=1'-0"



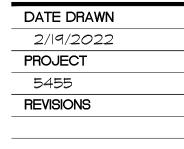
# **REAR ELEVATION**

SCALE: 1/4"=1'-0"

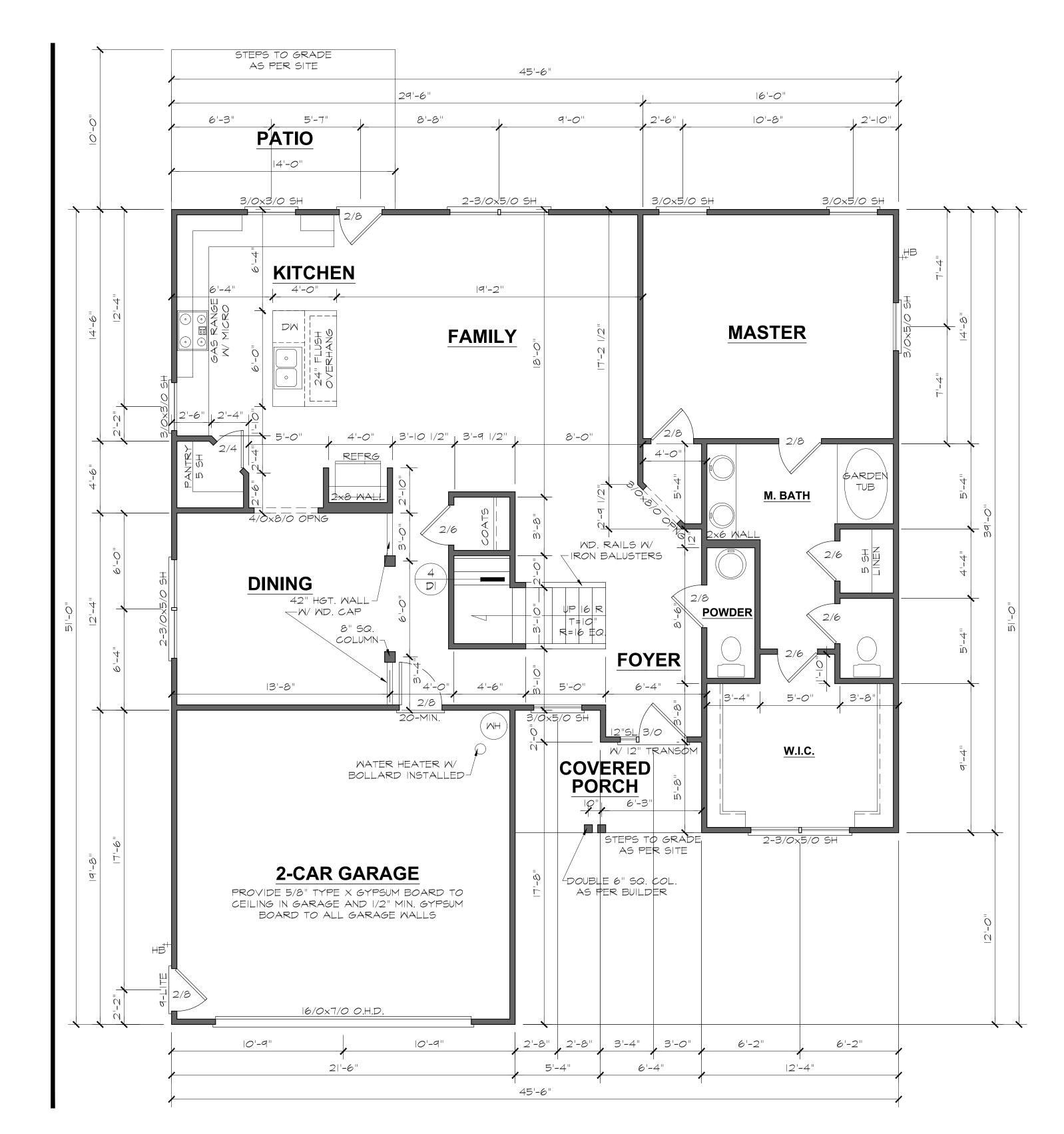
NOTE - SLOPE ALL GRADES AWAY FROM HOUSE FOR POSITIVE DRAINAGE





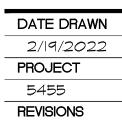


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### FIRST FLOOR PLAN

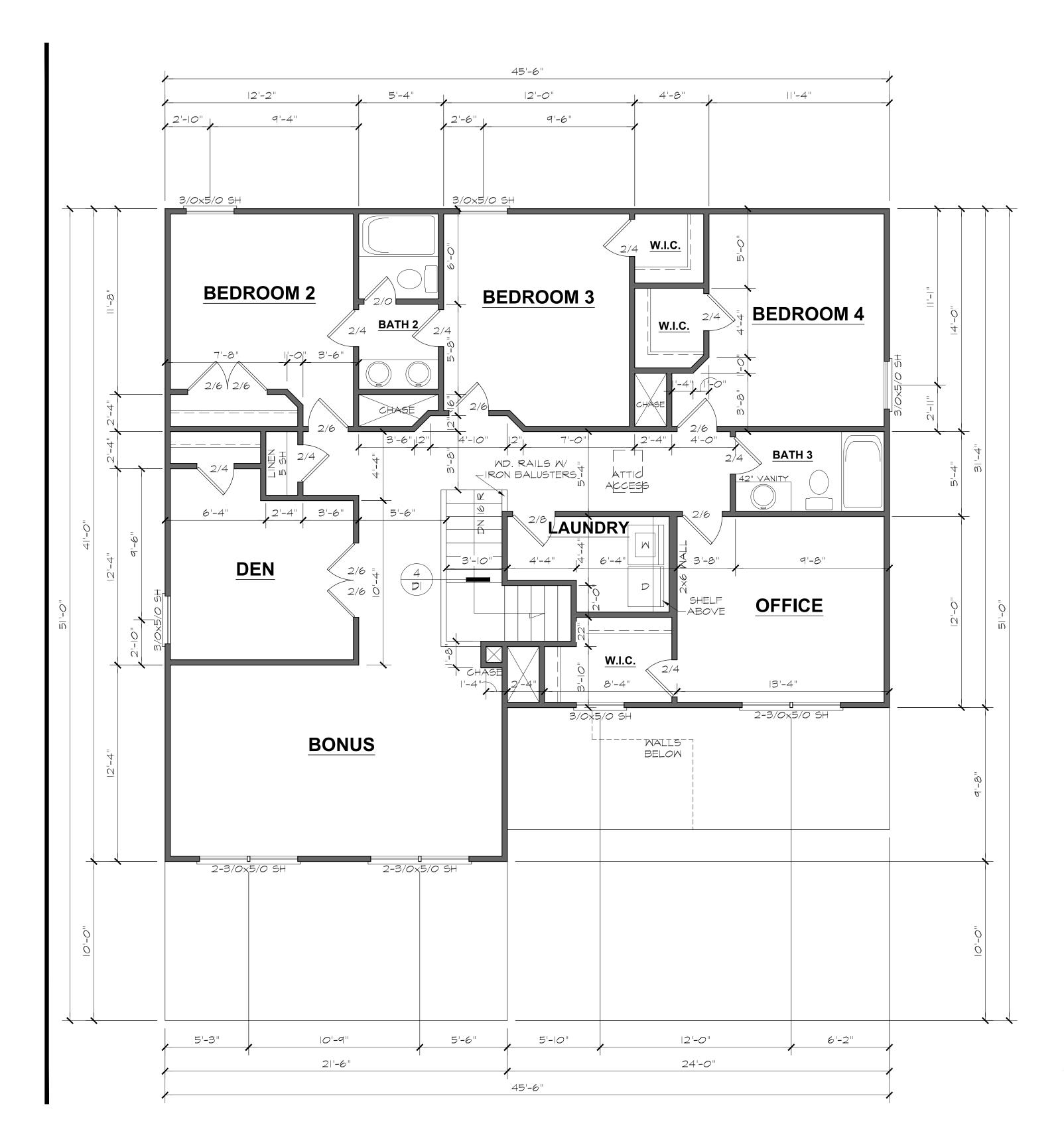
9'-0" (NOM.) CLG. HGT. U.N.O. SCALE: 1/4"=1'-0" SET WINDOWS @ 7'-0" U.N.O.



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**SECOND FLOOR PLAN** 

8'-0" (NOM.) CLG. HGT. U.N.O. SCALE: 1/4"=1'-0" SET WINDOWS @ 7'-2" U.N.O.

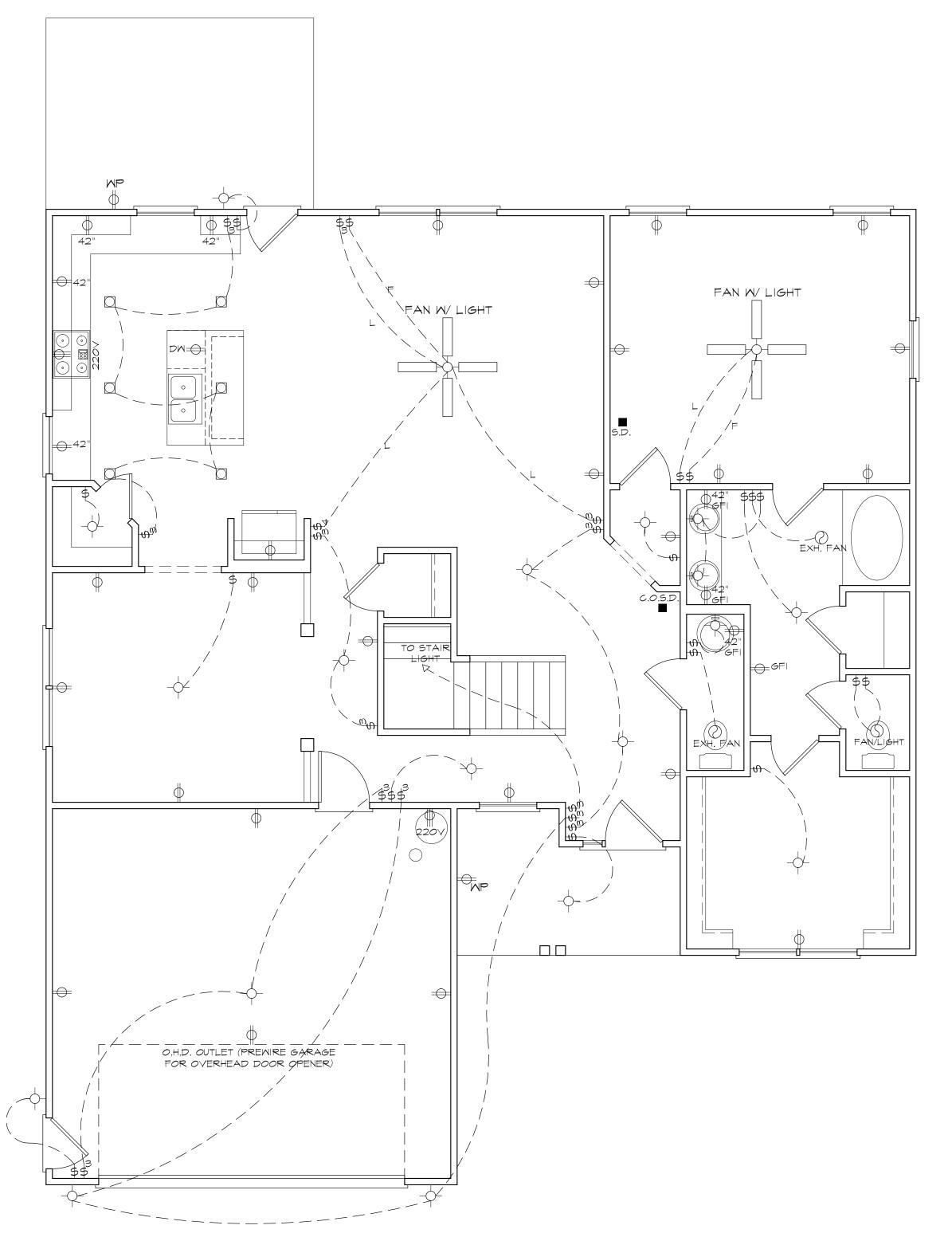


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#### - RECESSED LIGHTING \$ - SINGLE PULL SMITCH \$ - 3-WAY SMITCH $\frac{5}{4}$ - 4-MAY SWITCH \$ - DIMMER SWITCH SMOKE DETECTOR - FLOOD LIGHTS 7 - EYEBALL SPOTS DUPLEX RECEPTACLE (IIOV) - 220 VOLT RECEPTACLE - SWITCHED RECEPTACLE (TOP WIRE ONLY) - GROUND FAULT CIRCUIT INTERRUPTOR - CLG FAN/LIGHTS - TRACK LIGHTS

- FLUORESCENT LIGHTING

ELECTRICAL LEGEND

S - FAN/LIGHT

♦ MP- WATERPROOF OUTLET

# FIRST FLOOR ELECTRICAL PLAN

O - CABLE OUTLET ▲ - TELEPHONE OUTLET

 $\triangle$  - COMPUTER DATA OUTLET

NOTE: ALL ELECTRICAL TO BE VERIFIED BY OWNER/BUILDER BEFORE ROUGH-IN.

□ - BURGLAR ALARM

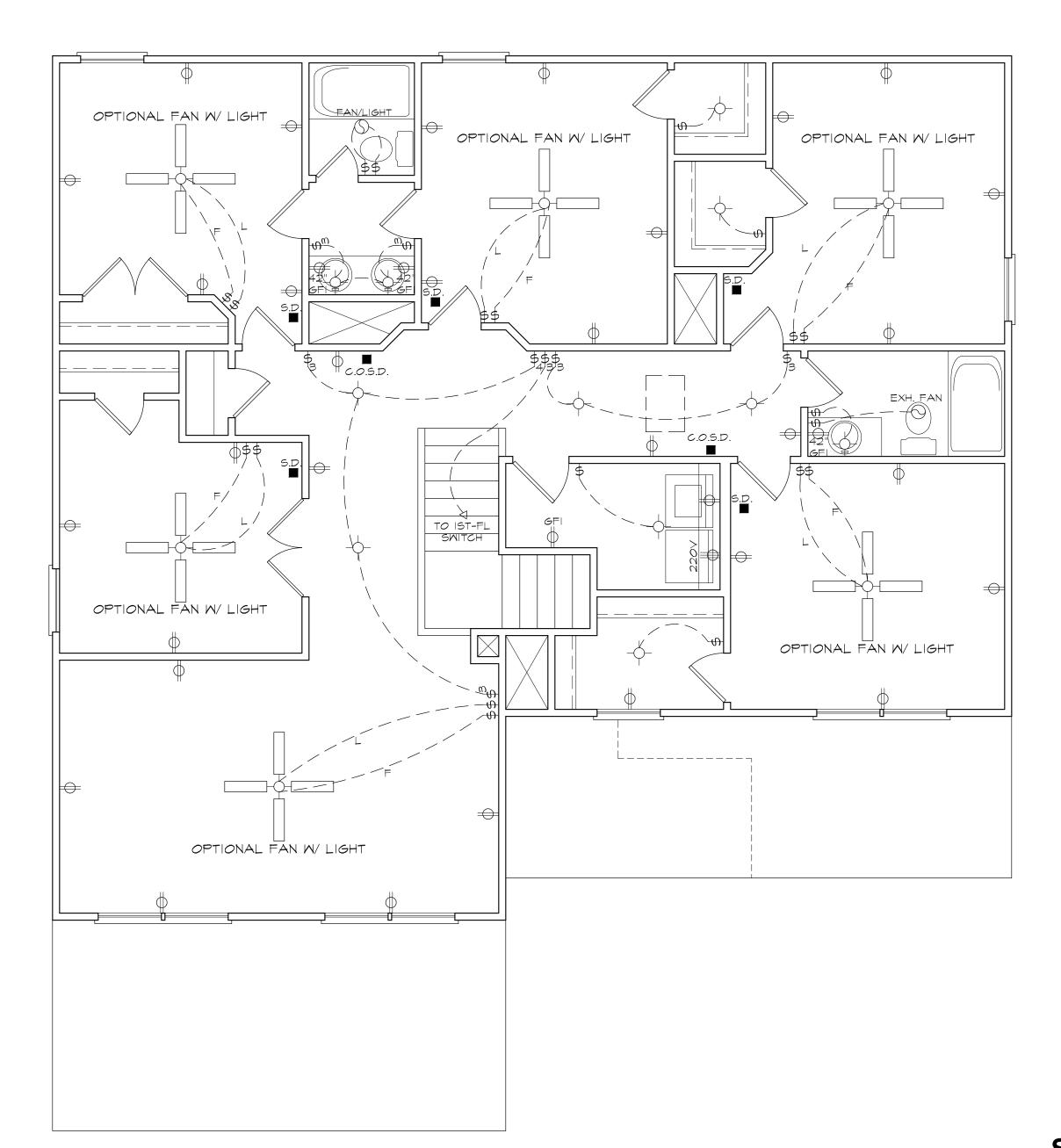
- INTERCOM

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AND LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER **EXCEPT WHERE CODE REQUIREMENTS APPLY.** 

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# ELECTRICAL LEGEND

S - FAN/LIGHT

WP- WATERPROOF OUTLET - RECESSED LIGHTING

\$ - SINGLE PULL SWITCH

\$ - 3-MAY SMITCH

 $\frac{5}{4}$  - 4-MAY SWITCH

\$ - DIMMER SWITCH

 SMOKE DETECTOR - FLOOD LIGHTS

- DUPLEX RECEPTACLE (110V)

- 220 VOLT RECEPTACLE

- SWITCHED RECEPTACLE (TOP WIRE ONLY)

- GROUND FAULT CIRCUIT INTERRUPTOR

- CLG FAN/LIGHTS - TRACK LIGHTS - FLUORESCENT LIGHTING

○ - CABLE OUTLET

▲ - TELEPHONE OUTLET  $\triangle$  - COMPUTER DATA OUTLET

🛛 - BURGLAR ALARM

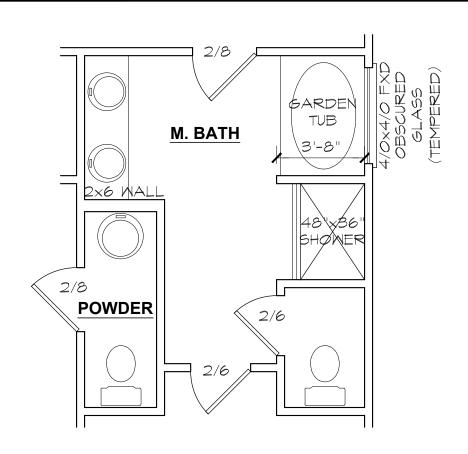
- INTERCOM

NOTE: ALL ELECTRICAL TO BE VERIFIED BY OWNER/BUILDER BEFORE ROUGH-IN.

# SECOND FLOOR ELECTRICAL PLAN

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AND LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.

Υ	N	OPTIONAL MASTER BATH
		$4' \times 3'$ (I) PC. FIBERGLASS SHOWER IN LIEU OF LINEN CLOSET
		4' X 4' FIXED OBSCURED GLASS MINDOM



**OPTIONAL MASTER BATH** 

SEE FLOOR PLAN FOR TYPICAL NOTES & DIMENSIONS

# OPTIONAL FIREPLACE FAMILY 4'-9"

# **OPTIONAL FIREPLACE**

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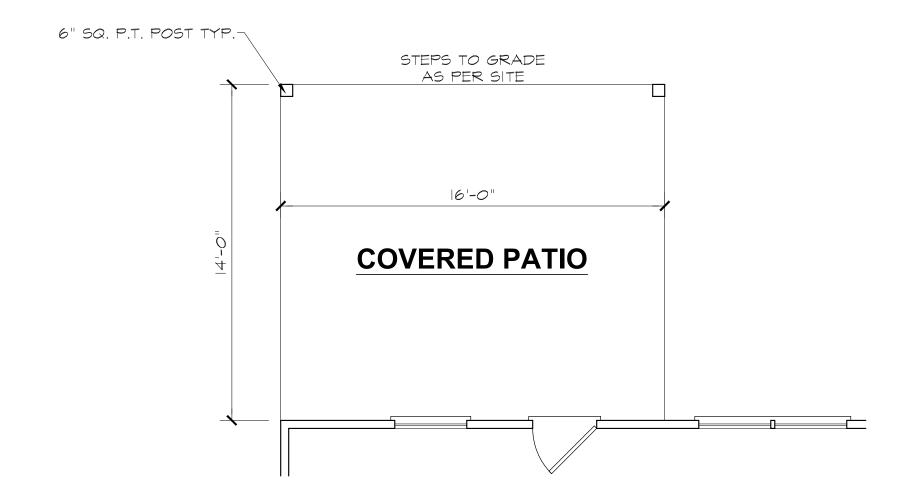
RIGHT SIDE ELEVATION SCALE: 1/4"=1'-0"

(LEFT SIDE OPPOSITE)

# **REAR ELEVATION**

SCALE: 1/4"=1'-0"

NOTE - SLOPE ALL GRADES AWAY FROM HOUSE FOR POSITIVE DRAINAGE



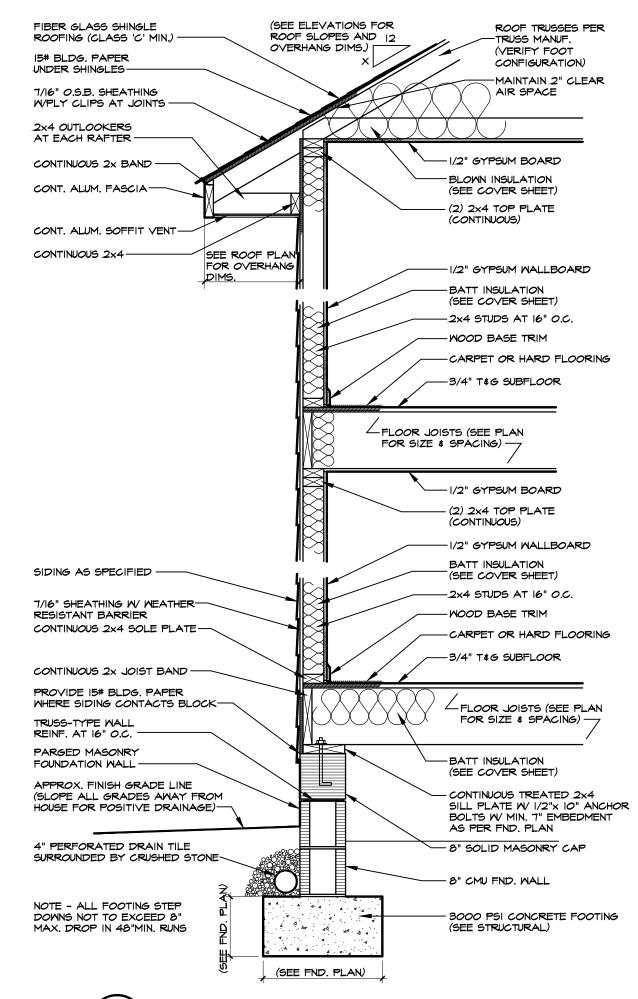
COVERED PORCH SCALE: 1/4"=1'-0"

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3119 "A" FE (L) CW016

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MN.O. ΣX # 60 | 40 | 60 10" U.N.O.[ \* 7 3/4" FOR S.C. 8 1/4" FOR N.C. STAIR PICKETS SHALL BE SPACED SUCH THAT A 4" DIA. SPHERE MAY NOT BE ABLE TO PASS THRU BETWEEN

> TYPICAL STAIR DETAIL SCALE: 3/4"=1'-0"

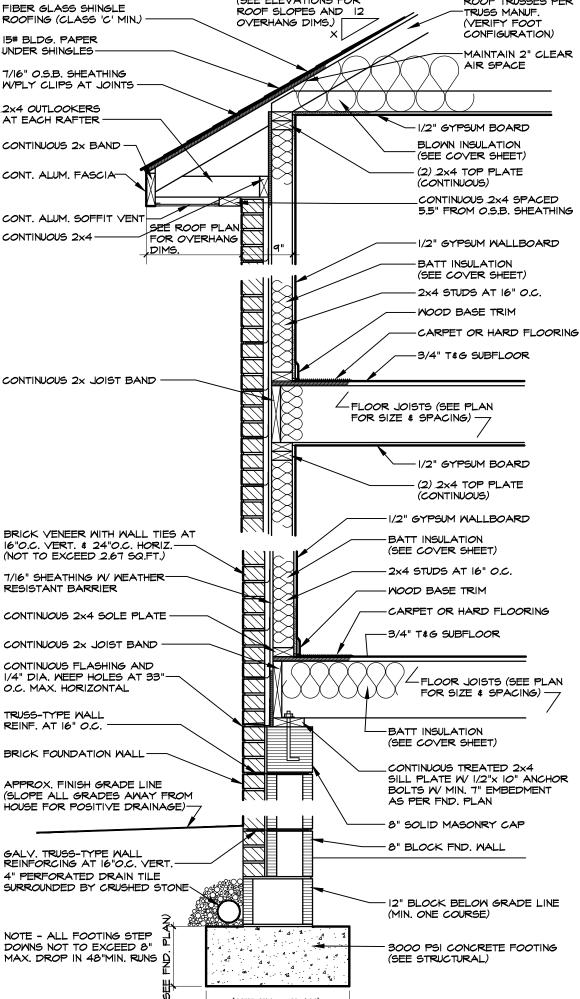
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SCALE: 3/4"=1'-0"

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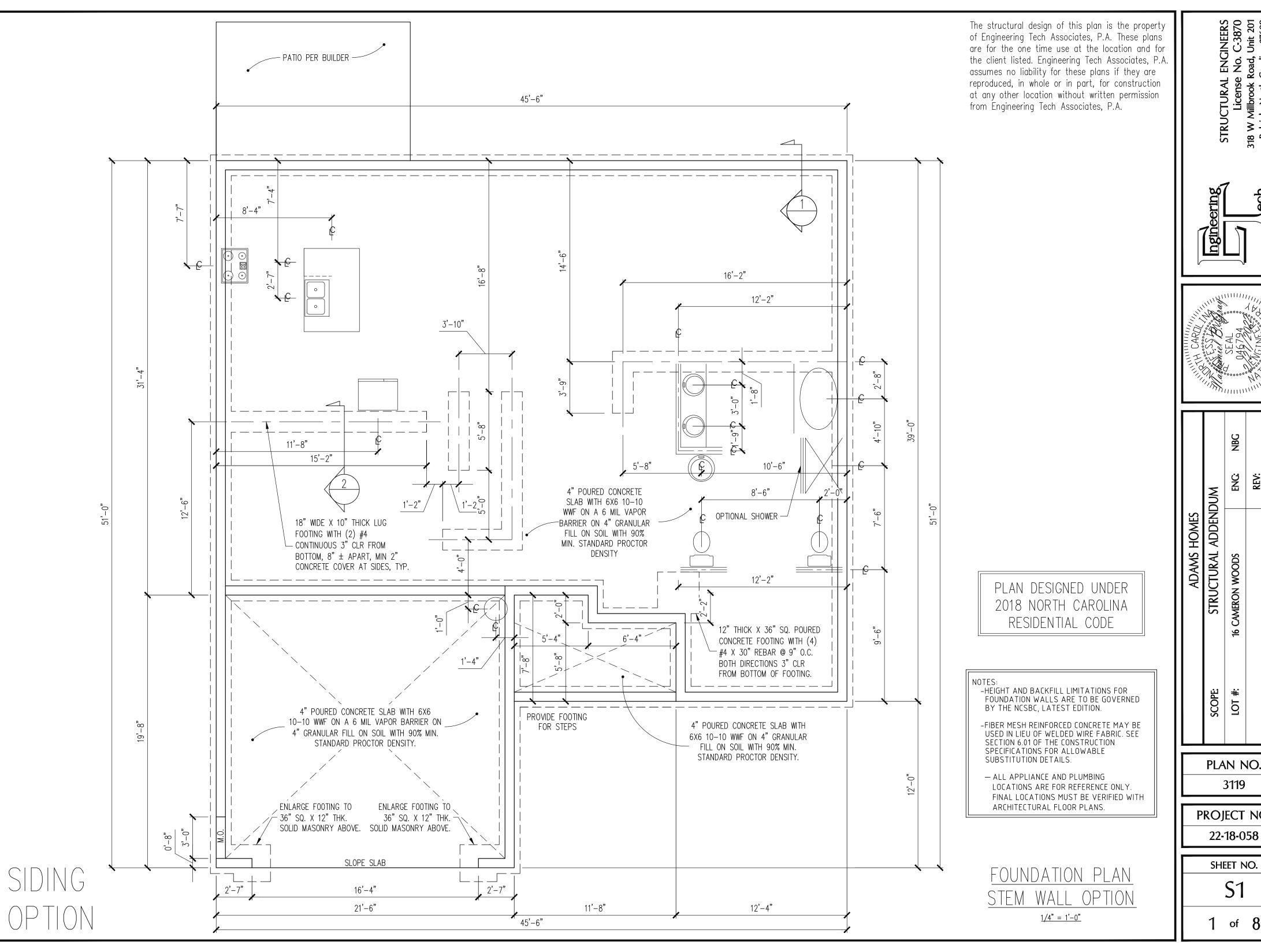
(W/ 12" FOUNDATION WALL)

DATE DRAWN REVISIONS



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DATE DRAWN **REVISIONS** 





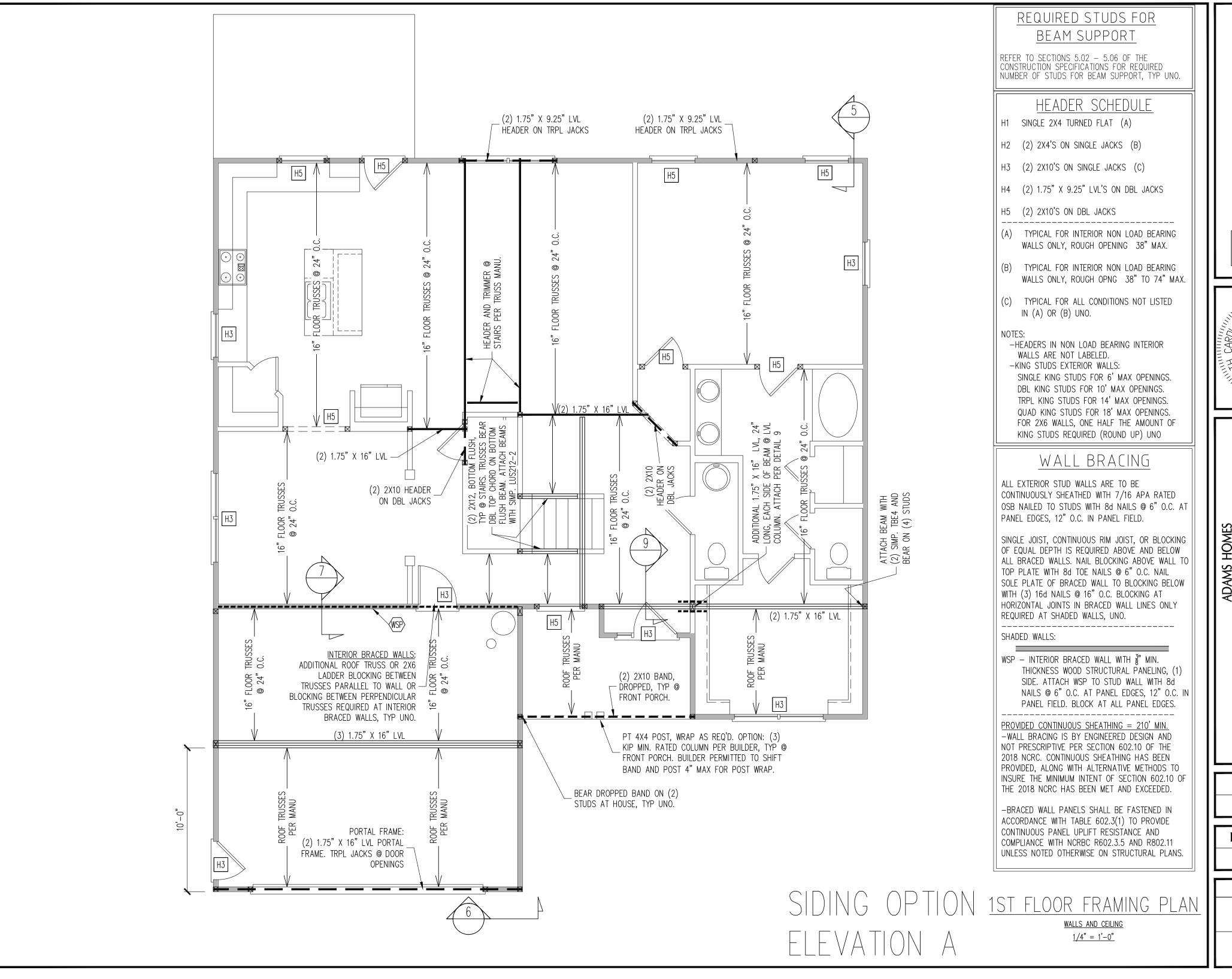


2/27/2	DATE 2/27/2	3119 MASTER	
	REV:		
NB(	ENG	16 CAMERON WOODS	:# IOI
	MUC	STRUCTURAL ADDENDUM	SCOPE
		ADAMS HOMES	

PLAN NO.

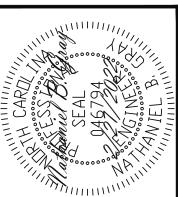
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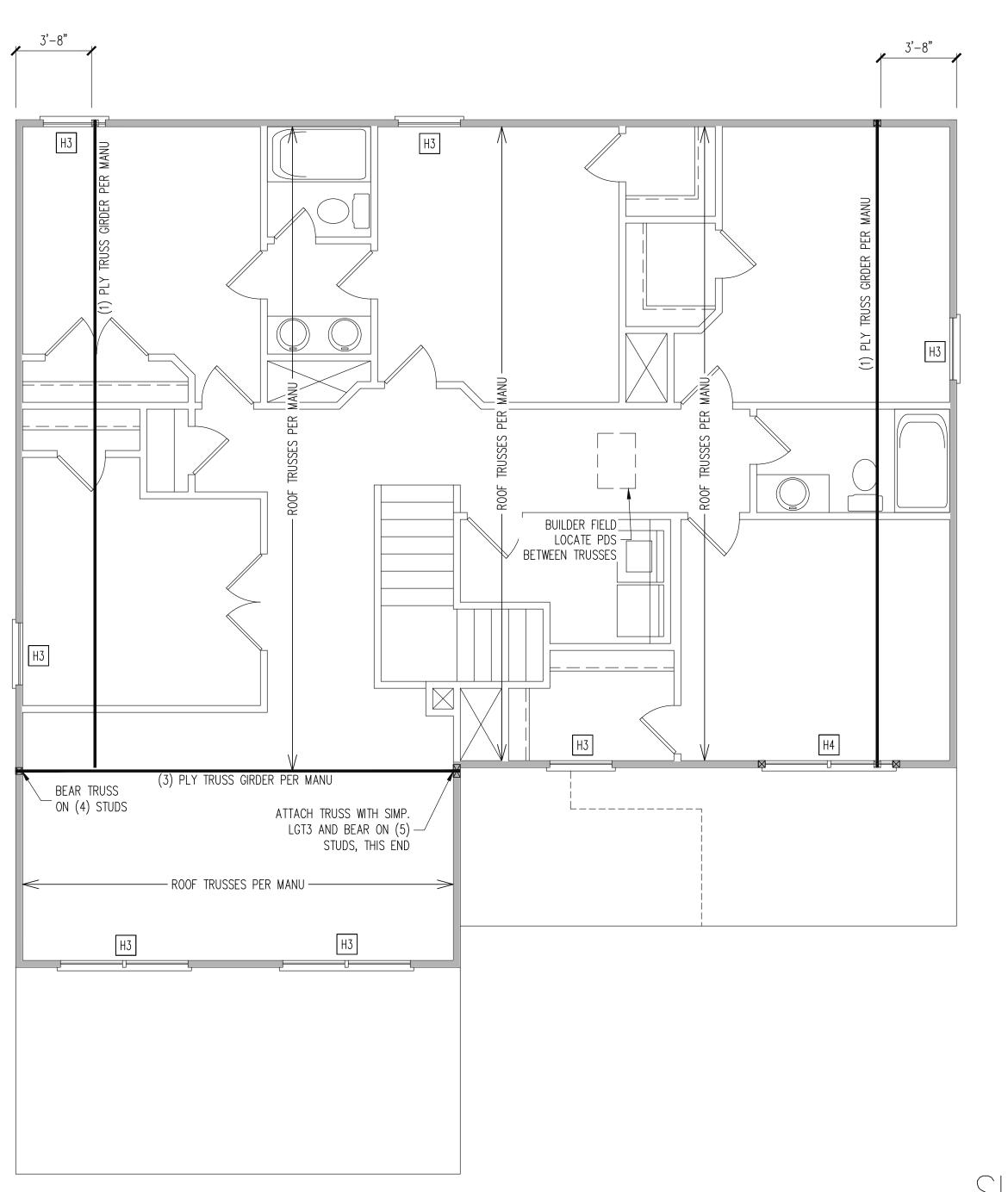
SCOPE	STRUCTURAL ADDENDUM	MU	
LOT #:	16 CAMERON WOODS	ENG	NBC
		REV:	
	3119 MASTER	DATE	DATE 2/27/202

PLAN NO. 3119

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**S**2



# REQUIRED STUDS FOR BEAM SUPPORT

REFER TO SECTIONS 5.02 - 5.06 OF THE CONSTRUCTION SPECIFICATIONS FOR REQUIRED NUMBER OF STUDS FOR BEAM SUPPORT, TYP UNO.

#### HEADER SCHEDULE

- H1 SINGLE 2X4 TURNED FLAT (A)
- H2 (2) 2X4'S ON SINGLE JACKS (B)
- H3 (2) 2X10'S ON SINGLE JACKS (C)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.
- (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.
- (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

#### NOTES:

-HEADERS IN NON LOAD BEARING INTERIOR
WALLS ARE NOT LABELED.
-KING STUDS EXTERIOR WALLS:
SINGLE KING STUDS FOR 6' MAX OPENINGS.
DBL KING STUDS FOR 10' MAX OPENINGS.
TRPL KING STUDS FOR 14' MAX OPENINGS.
QUAD KING STUDS FOR 18' MAX OPENINGS.
FOR 2X6 WALLS, ONE HALF THE AMOUNT OF
KING STUDS REQUIRED (ROUND UP) UNO

#### WALL BRACING

ALL EXTERIOR STUD WALLS ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE WITH 8d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.

#### SHADED WALLS:

PROVIDED CONTINUOUS SHEATHING = 172' MIN.

-WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED.

-BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.

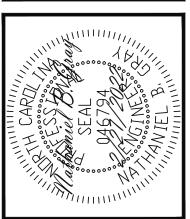
SIDING
OPTION

# SIDING 2ND FLOOR FRAMING PLAN

WALLS AND CEILING  $\frac{1/4" = 1'-0"}{}$ 

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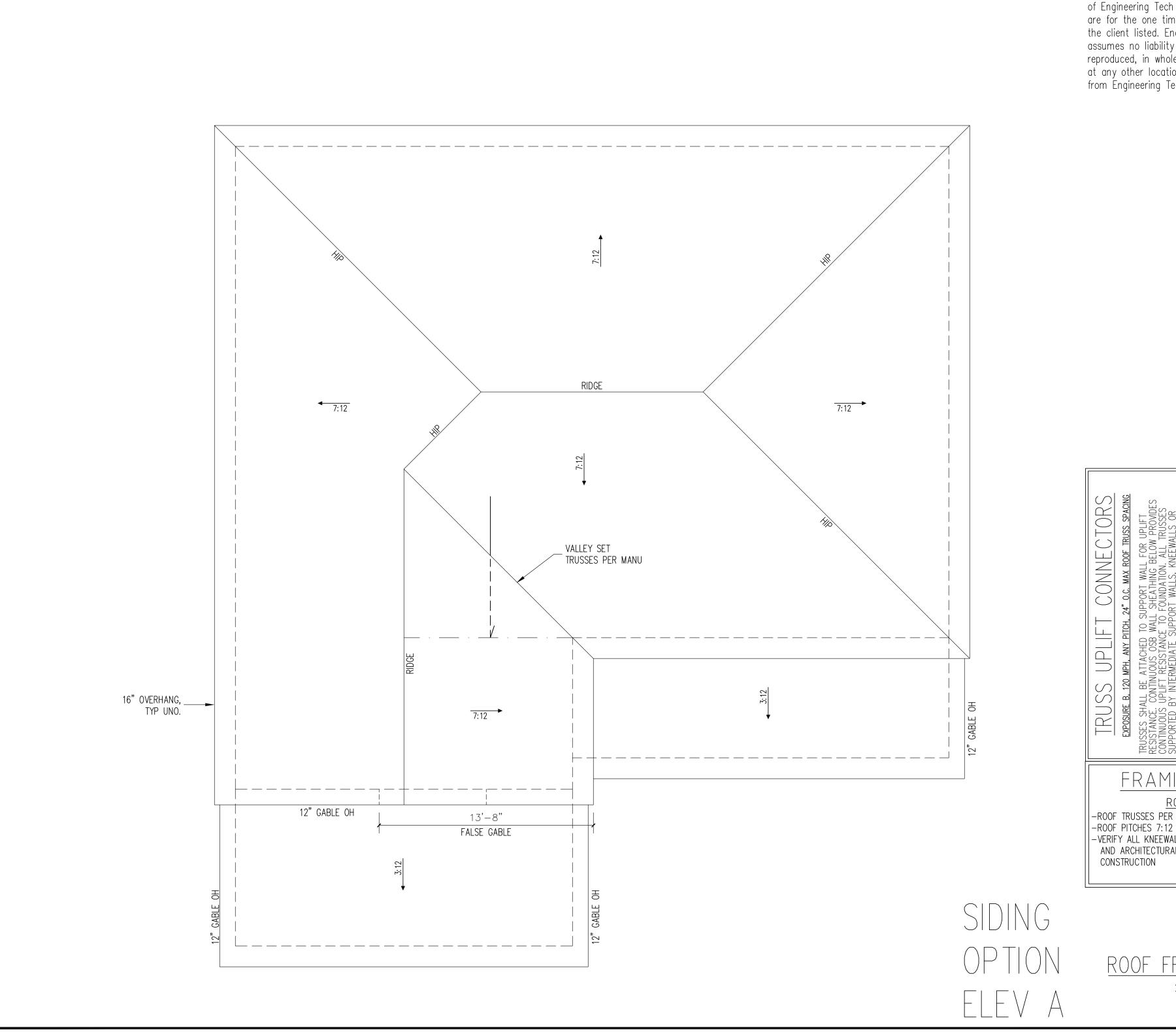


	ADAIMS HOIMES		
SCOPE	STRUCTURAL ADDENDUM	WNG	
LOT #:	16 CAMERON WOODS	ENG	NBG
		REV:	
	3119 MASTER	DATE	DATE 2/27/20

PLAN NO. 3119

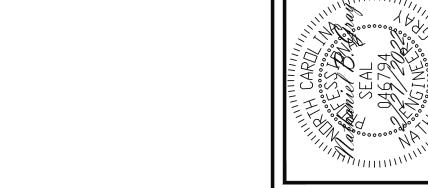
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	INTINUOUS UPLIFT PPORTED BY INTEL AMS SHALL BE AT LOW.	CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.	IRUSSES ILS OR IER SCHEDULE
RO	OF SPAN IS MEAS PPORT POINTS.	ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.	THEST
0 <u>N</u> U	ROOF SPAN UP TO 18'	CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION	
\ \ \ \	OVER 18'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM	IP T0
1			
		ADAMS HOMES	
COPE		STRUCTURAL ADDENDUM	MNC
OT #:		16 CAMERON WOODS	ENG
			REV:

PLAN NO. 3119

NBG

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> SHEET NO. **S4**

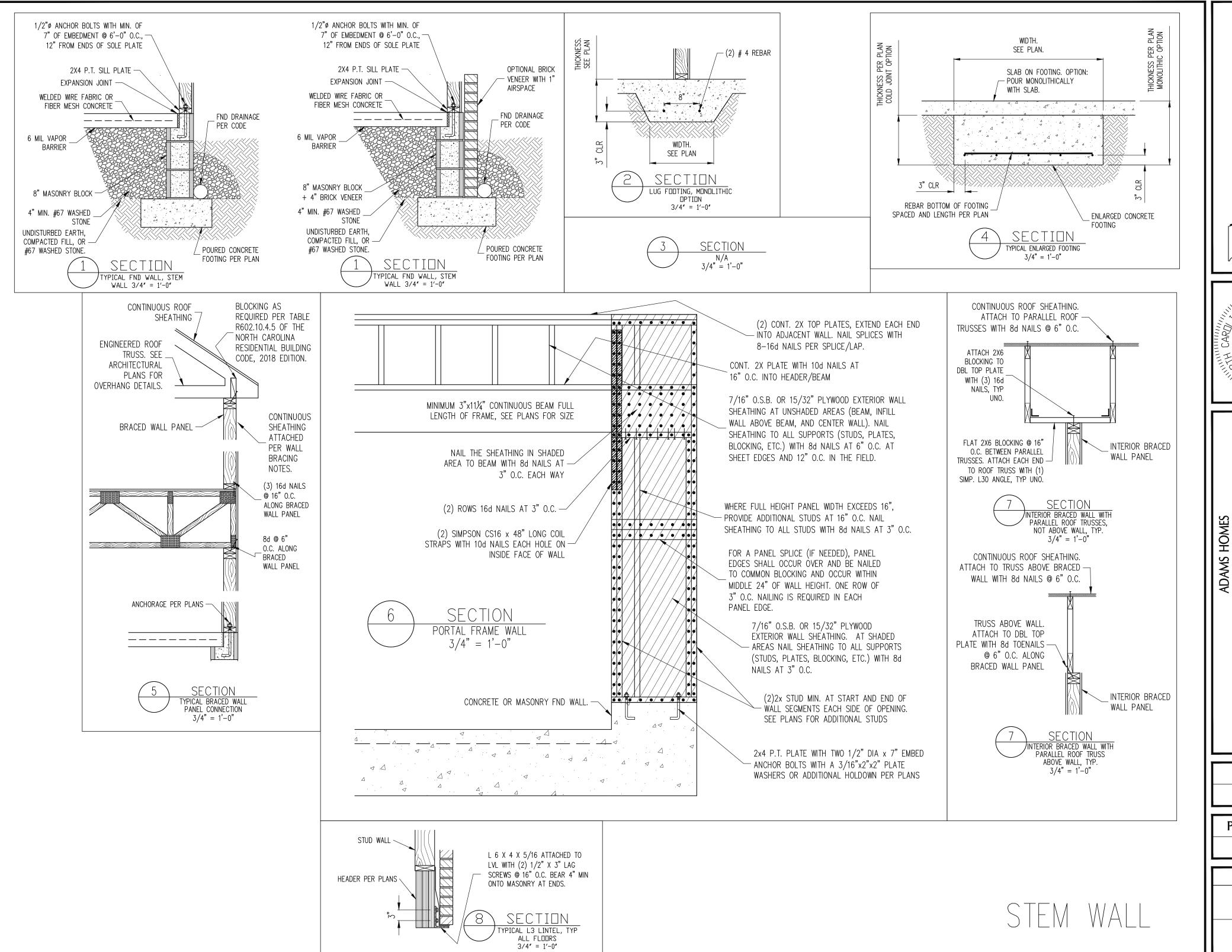
4 of 8

FRAMING NOTES

ROOF ONLY

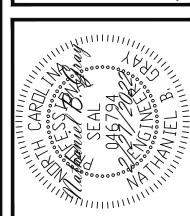
-ROOF TRUSSES PER MANU. TYPICAL U.N.O. -ROOF PITCHES 7:12 TYP U.N.O. -VERIFY ALL KNEEWALL HEIGHTS, ROOF PITCHES, AND ARCHITECTURAL OVERHANGS PRIOR TO

ROOF FRAMING PLAN 1/4" = 1'-0"



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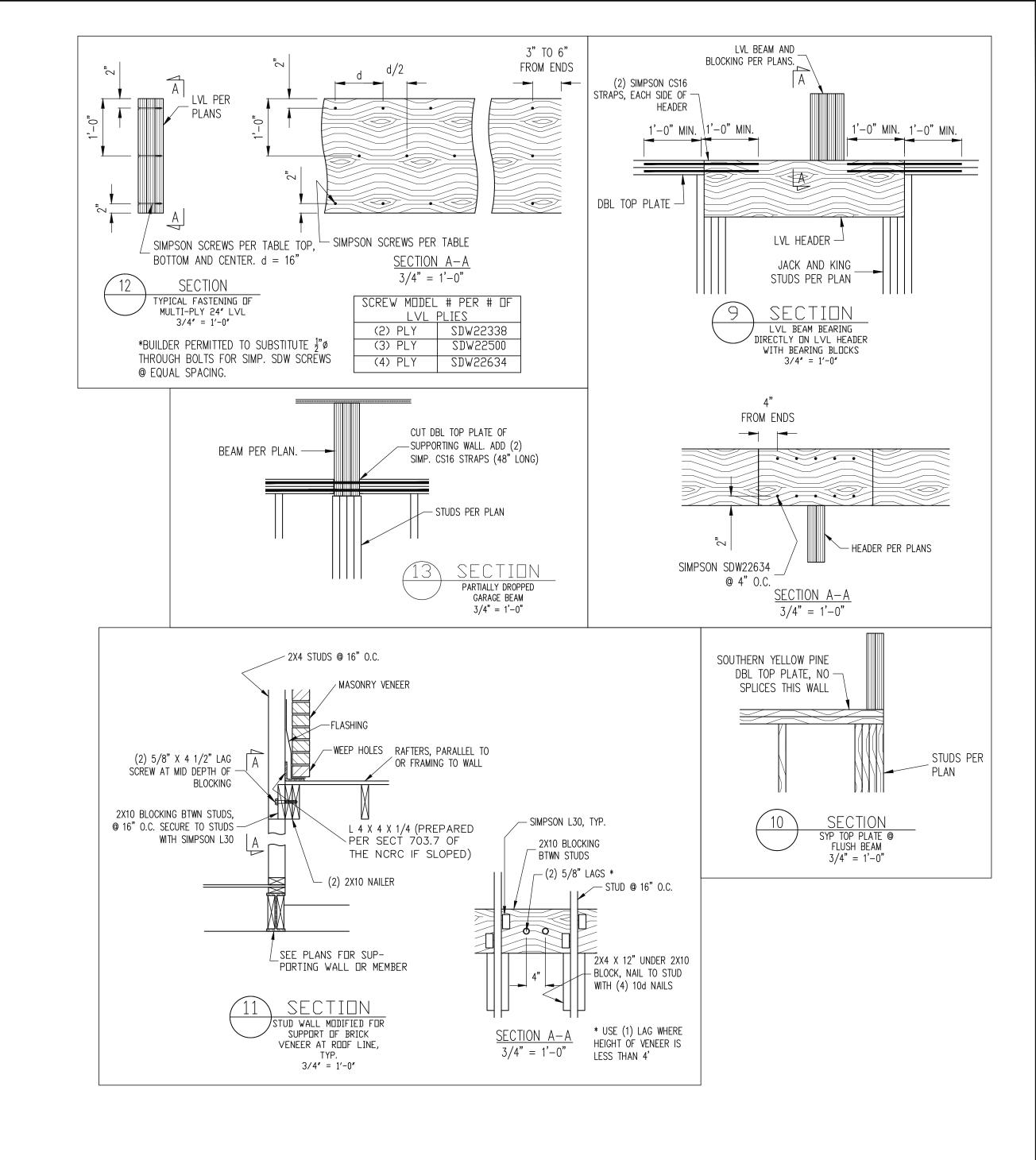


		NBC		DATE 2/27/2022
	WNC	ENG	REV:	DATE
ADAMS HOMES	STRUCTURAL ADDENDUM	16 CAMERON WOODS		3119 MASTER
	SCOPE	<b>#</b> 101		

PLAN NO. 3119

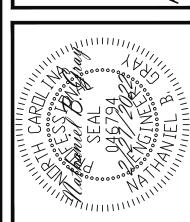
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		NBG		DATE 2/27/2022
	MNG	ENG	REV:	DATE
ADAMS HOMES	SCOPE STRUCTURAL ADDENDUM	LOT #: 16 CAMERON WOODS		3119 MASTER

PLAN NO. 3119

PROJECT NO. 22-18-058

SHEET NO.

#### CONSTRUCTION SPECIFICATIONS

DEAD LOAD (PSF)

#### <u>PART 1: GENERAL</u>

- 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1.02 STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- 1.03 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
- 1.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530-95. LATEST EDITION.
- 1.05 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF

#### PART 2: DIMENSIONS

2.01 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.

#### PART 3: DESIGN LOADS

USE

3.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS (INCLUDUNG SLEEPING ROOMS), ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES	40	10
GARAGES (PASSENGER CARS ONLY)	50	
ATTICS (NO STORAGE, LESS THAN 5' HEADROOM)	10	10
ATTICS (WITH STORAGE)	20	10
ROOF	20	10 (15 FOR VAULTS)

LIVE LOAD (PSF)

- NOTES: INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. IN., WHICHEVER PRODUCES THE GREATER STRESS
  - GUARD RAILS AND HAND RAILS ARE TO BE DESIGNED FOR A SINGLE CONCENTRATED LOAD OF 200 LB. APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED
- 3.02 INTERIOR WALLS: 5 PSF LATERAL.
- 3.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.
- 3.04 LOAD DURATION FACTOR FOR ROOF STRUCTURAL MEMBERS IS 1.15.
- 3.05 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

#### PART 4: MATERIALS

- 4.01 STRUCTURAL STEEL SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM GRADE. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 MINIMUM GRADE TYP UNO.
- 4.02 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
- SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR FOR JOISTS, 4.03 RAFTERS, WOOD GIRDERS/BEAMS, STUDS, ETC. ALLOWANCE HAS BEEN MADE FOR SYP #2
- 4.04 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.9 X 10E6 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI
- 4.05 LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI
- 4.06 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO
- 4.07 WELDING ELECTRODES SHALL BE E70XX
- 4.08 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A)

#### 4.09 CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO.

- 4.10 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90 OR ASTM C 55.
- 4.12 NAILS SHALL BE COMMON WIRE NAILS TYP UNO.

4.11 MORTAR SHALL BE TYPE S CONFORMING TO ASTM C 476.

4.13 LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981.

#### PART 5: CONSTRUCTION

- FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PIECES TOGETHER USING 1/2" Ø BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 6" FROM
- 5.02 STEEL, LVL AND FLITCH PLATE BEAMS BEARING ON A STUD WALL PERPENDICULAR TO THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO.
- 5.03 STEEL, LVL AND FLITCH PLATE BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.
- 5.04 SOLID SAWN LUMBER GANGED BEAMS BEARING ON A STUD WALL PERPENDICULAR TO THE BEAM SHALL SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RIM JOIST) AND SHALL BE SUPPORTED BY A GAŃGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO.
- 5.05 SOLID SAWN LUMBER GANGED BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO.
- 5.06 EXTRA JOISTS OR SINGLE LVL MEMBERS OF 1.75" OR LESS WIDTH, BEARING ON A STUD WALL PERPENDICULAR TO THE BEAM SHALL BEAR ON THE WALL A MINIMUM OF 2" AND SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.
- SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d
- 5.08 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP UNO
- 5.09 STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS @ 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHALL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED FOR THE FULL WIDTH OF THE STUD COLUMN WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS.
- 5.10 STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS.
- 5.11 PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS.
- 5.12 ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER
- 5.13 ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP UNO.
- 5.14 BOLTS AND LAG SCREWS USED FOR BOLTING WOOD MEMBERS SHALL HAVE STANDARD WASHERS INSTALLED FOR THE NUTS AND BOLT / SCREW HEADS

#### PART 6: SUBSTITUTIONS

- 6.01 IN LIEU OF WELDED WIRE FABRIC IN SLABS: SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD.
- 6.02 OTHER MATERIAL OR MEMBER SIZE SUBSTITUTIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE

- A DECK IS AN EXPOSED EXTERIOR WOOD FLOOR STRUCTURE WHICH MAY BE ATTACHED TO A STRUCTURE OR BE FREE STANDING. ROOFED PORCHES, OPEN OR SCREENED IN, MAY BE CONSTRUCTED USING THESE PROVISIONS.
- 2. SUPPORT POSTS SHALL BE SUPPORTED BY A FOOTING.
  - WHEN ATTACHED TO A STRUCTURE, THE STRUCTURE TO WHICH ATTACHED SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION RESISTANT FLASHING SHALL BE USED TO PREVENT MOISTURE FROM COMING IN CONTACT WITH THE UNTREATED FRAMING OF THE STRUCTURE. THE DECK BAND AND THE STRUCTURE BAND SHALL BE CONSTRUCTED IN CONTACT WITH EACH OTHER EXCEPT AT BRICK VENEER AND WHERE PLYWOOD SHEATHING IS REQUIRED AND PROPERLY FLASHED. SIDING SHALL NOT BE INSTALLED BETWEEN THE STRUCTURE AND THE DECK BAND. IF ATTACHED TO A BRICK VENEER STRUCTURE, NEITHER FLASHING NOR A TREATED BAND FOR THE BRICK STRUCTURE IS REQUIRED. IN ADDITION, THE TREATED DECK BAND SHALL BE CONSTRUCTED IN CONTACT WITH THE BRICK VENEER.
  - WHEN THE DECK IS SUPPORTED AT THE STRUCTURE BY ATTACHING THE DECK TO THE STRUCTURE, THE FOLLOWING ATTACHMENT SCHEDULES SHALL APPLY FOR ATTACHING THE DECK BAND TO THE STRUCTURE:
  - A. ALL STRUCTURES EXCEPT BRICK VENEER STRUCTURES

	JOIST I	LENGTH
	UP TO 8' MAX.	UP TO 16' MAX.
REQUIRED FASTENERS	ONE- 5/8" Ø BOLT @ 42" O.C. AND (2) ROWS OF 12d NAILS @ 8" O.C. OR TWO ROWS OF SIMPSON SDWS22400DB @ d = 32" O.C. STAGGERED	ONE- 5/8" Ø BOLT @ 20" O.C. AND (3) ROWS OF 12d NAILS @ 6" O.C. OR TWO ROWS OF SIMPSON SDWS22400DB @ d = 16" O.C. STAGGERED

A . BRICK VENEER STRUCTURES

	JOIST I	ENGTH
	UP TO 8' MAX.	UP TO 16' MAX.
REQUIRED FASTENERS	ONE- 5/8" Ø BOLT @ 28" O.C.	ONE- 5/8" Ø BOLT @ 16" O.C.

- IF THE DECK BAND IS SUPPORTED BY A 1/2" MINIMUM MASONRY LEDGE ALONG THE FOUNDATION WALL, 5/8" Ø BOLTS SPACED @ 48" O.C. MAY BE USED FOR SUPPORT.
- OTHER MEANS OF SUPPORT, SUCH AS JOIST HANGERS, MAY BE USED TO CONNECT DECK
- GIRDERS SHALL BEAR DIRECTLY ON POSTS OR BE BE CONNECTED TO THE SIDES OF POSTS WITH 2- 5/8" Ø BOLTS

NOTES

FLOOR DECKING SHALL BE NO. 2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. THE MINIMUM FLOOR DECKING THICKNESS SHALL BE AS FOLLOWS:

#### DECK SPECIFICATIONS

JOIST SPAN	DECKING
12" O.C.	1" S4S
16" O.C.	1" T&G
24" O.C.	1 1/4" S4S
32" O.C.	2" \$4\$

MAXIMUM HEIGHT OF DECK SUPPORT POSTS IS AS FOLLOWS:

POST SIZE	MAX POST HEIGHT
4X4	8'
6X6	20'
ENGINEERED	20' +

- NOTES: 1) THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. ) THIS TABLE IS BASED ON A MAXIMUM TRIBUTARY AREA OF 128 SQ. FT. S) POST HEIGHT IS FROM TOP OF FOOTING TO BOTTOM OF GIRDER.
- 10. DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THE FOLLOWING
- A. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION 4, LATERAL BRACING IS NOT REQUIRED.
- B. 4X4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL. KNEE BRACES SHALL BE ATTACHED AT THE ENDS TO THE GIRDER AND THE POST WITH ONE - 5/8" BOLT
- C. FOR FREE STANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN CONCRETE IN ACCORDANCE WITH THE FOLLOWING:

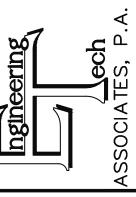
POST SIZE	TRIBUT. AREA	POST HEIGHT	EMB. DEPTH	CONC. DIAM.
4X4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
6X6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

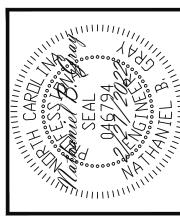
- D. 2X6 DIAGONAL VERTICAL CROSS BRACING SHALL BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREE STANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE BRACES SHALL BE ATTACHED TO THE POSTS WITH ONE -5/8"  $\phi$  BOLT AT EACH END OF THE BRACE.
- 1) ALL NAILS AND BOLTS ARE TO BE HOT DIPPED GALVANIZED. 2) MINIMUM EDGE DISTANCE FOR BOLTS IS 2 1/2". NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 1 1/2".

# **ABBREVIATIONS**

	110120		,	יטט	112 117 111 0110		
ALL WORK IS TO BE DONE IN STRICT	ACCORDANCE WITH STATE AND LOCAL CODES. THE BUILDER	ABV	ABOVE	FND	FOUNDATION	TJ	TRIPLE JOIST
IS RESPONSIBLE FOR REVIEWING PLAI	NS PRIOR TO CONSTRUCTION. IF ENGINEERING SERVICES HAS	В.	BOTH	FTG	FOOTING	TYP	TYPICAL
BEEN PROVIDED THE BUILDER SHALL	VERIFY THAT THE FOUNDATION AND STRUCTURAL PLANS	B.E.	BOTH ENDS	HDG	HOT DIPPED	TRPL	TRIPLE
HAVE BEEN SEALED BY AN ENGINEER	REGISTERED BY THE STATE. IF THE PLANS HAVE NOT BEEN	BTWN	BETWEEN		GALVANIZED	TSP	TRIPLE STUD POCKET
SIGNED AND SEALED, THE BUILDER S	HALL IMMEDIATELY CONTACT ENGINEERING TECH BEFORE	CONC	CONCRETE	HGR	HANGER	UNO	UNLESS NOTED
PROCEEDING FURTHER. ANY ERRORS	DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES	CS	CONTINUOUS SHEATHING	LVL	LAMINATED VENEER		OTHERWISE
SHALL NOT BE THE RESPONSIBILITY	OF ENGINEERING TECH. ALL FINAL SETS OF THE SAME PLAN	DIA	DIAMETER		LUMBER	XJ	EXTRA JOIST
ISSUED TO A BUILDER SHOULD BE R	EVIEWED FOR UNIFORMITY, ESPECIALLY IF PRIOR SETS OF	DBL	DOUBLE	NTS	NOT TO SCALE		
PLANS HAVE BEEN ISSUED AS STUD'	COPIES.	DJ	DOUBLE JOIST	0.C.	ON CENTER		
		DSP	DBL STUD POCKET	PSL	PARALLEL STRAND		
ENGINEERING TECH DOES NOT PERFO	RM FENESTRATION, ROOF VENT, OR ATTIC CALCULATIONS OR	EQ	EQUAL		LUMBER		
ANY OTHER AREA CALCULATIONS TH	AT ARE NOT RELATED TO STRUCTURAL ENGINEERING.	EA	EACH	PT	PRESSURE TREATED		
		FLG	FLANGE	QJ	QUAD JOIST		
TRUSSES TO BE DESIGNED BY AN EN	GINEER REGISTERED IN NORTH CAROLINA. FINAL TRUSS	FL PL	FLITCH PLATE	SP	STUD POCKET		
DRAWING SHOULD BE SUBMITTED TO	ENGINEERING TECH ASSOCIATES, PA FOR REVIEW	FLR	FLOOR	SQ	SQUARE		
1		1					

STRUCTURAL ENGINEERS
License No. C-3870
318 W Millbrook Road, Unit 201
Raleigh, North Carolina 27609
Phone: (919) 844-1661



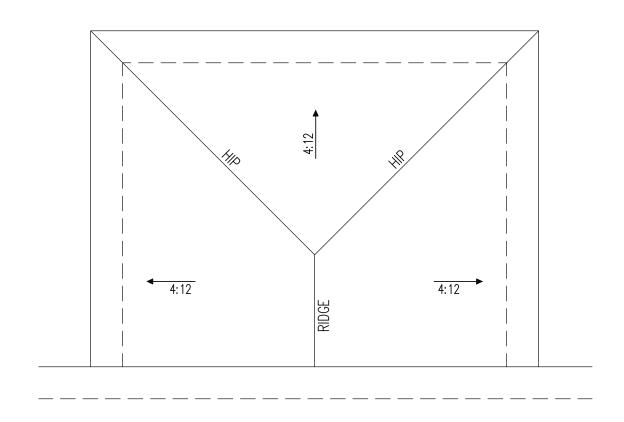


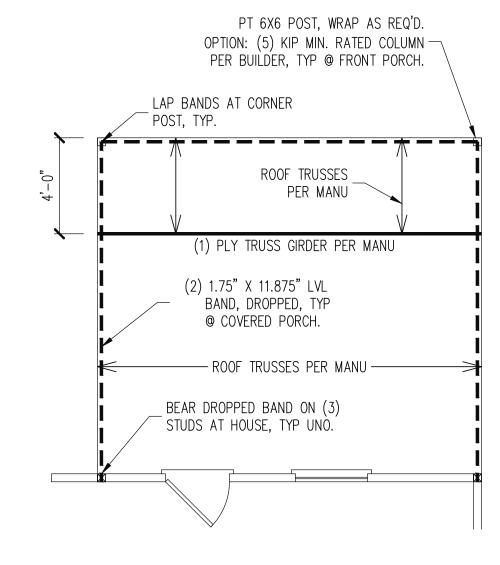
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ADAMS HOMES	STRUCTURAL ADDENDUM	16 CAMERON WOODS		3119 MASTER
	SCOPE	LOT #:		

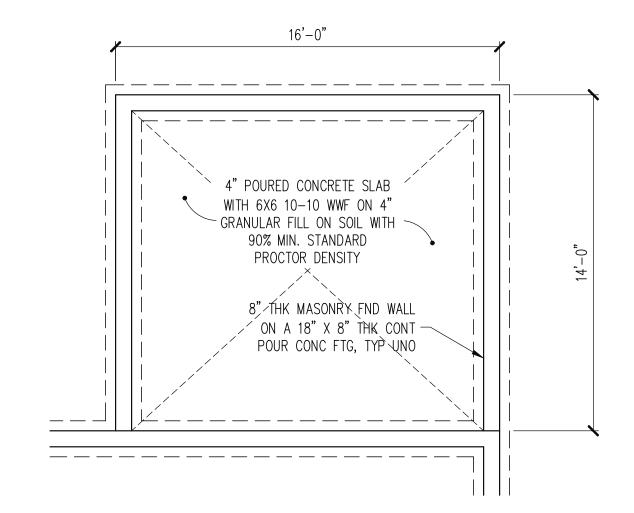
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PROJECT NO. 22-18-058

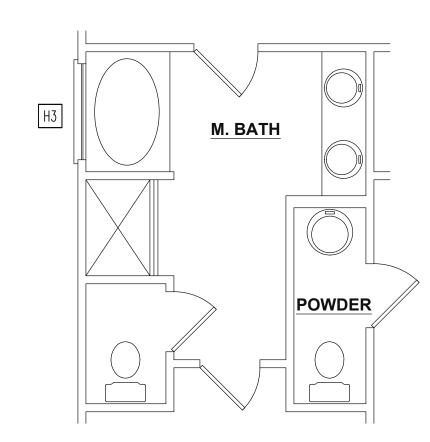
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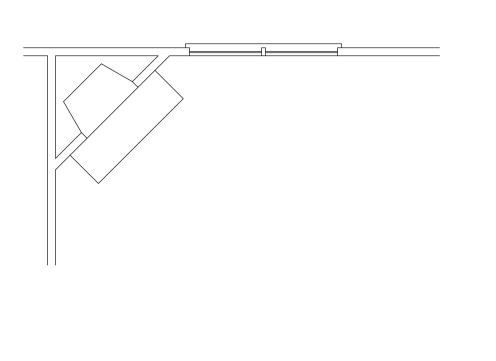




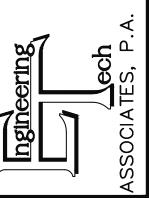


COVERED PORCH SCALE: 1/4"=1'-0"





STRUCTURAL ENGINEERS
License No. C-3870
318 W Millbrook Road, Unit 201
Raleigh, North Carolina 27609
Phone: (919) 844-1661



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The CARD III	046794 046794 0500000000000000000000000000000000000

DATE 2/27/2022	DATE	3119 MASTER	
	REV:		
NBC	ENG	16 CAMERON WOODS	#:
	MNC	STRUCTURAL ADDENDUM	SCOPE
		ADAMS HOMES	

PLAN NO. 3119

PROJECT NO. 22-18-058

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