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

Harnett
C 0 U N T Y
NORTH CAROLINA

ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE I TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

GROSS ATTIC AREA TO BE VENTILATED 1816 SQ.FT.
1816/300 = 6.05 SQ.FT. NET FREE AREA

50% OF VENTING MUST BE 3FT. ABOVE EAVE OR SOFFIT VENTS.

THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2015 IRC)

NC (2018 NCRC) : Wind : 115 - 120 mph

RIDGE VENT AS RQUIRED



FRONT ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

SCALE |/4" = |'-0"



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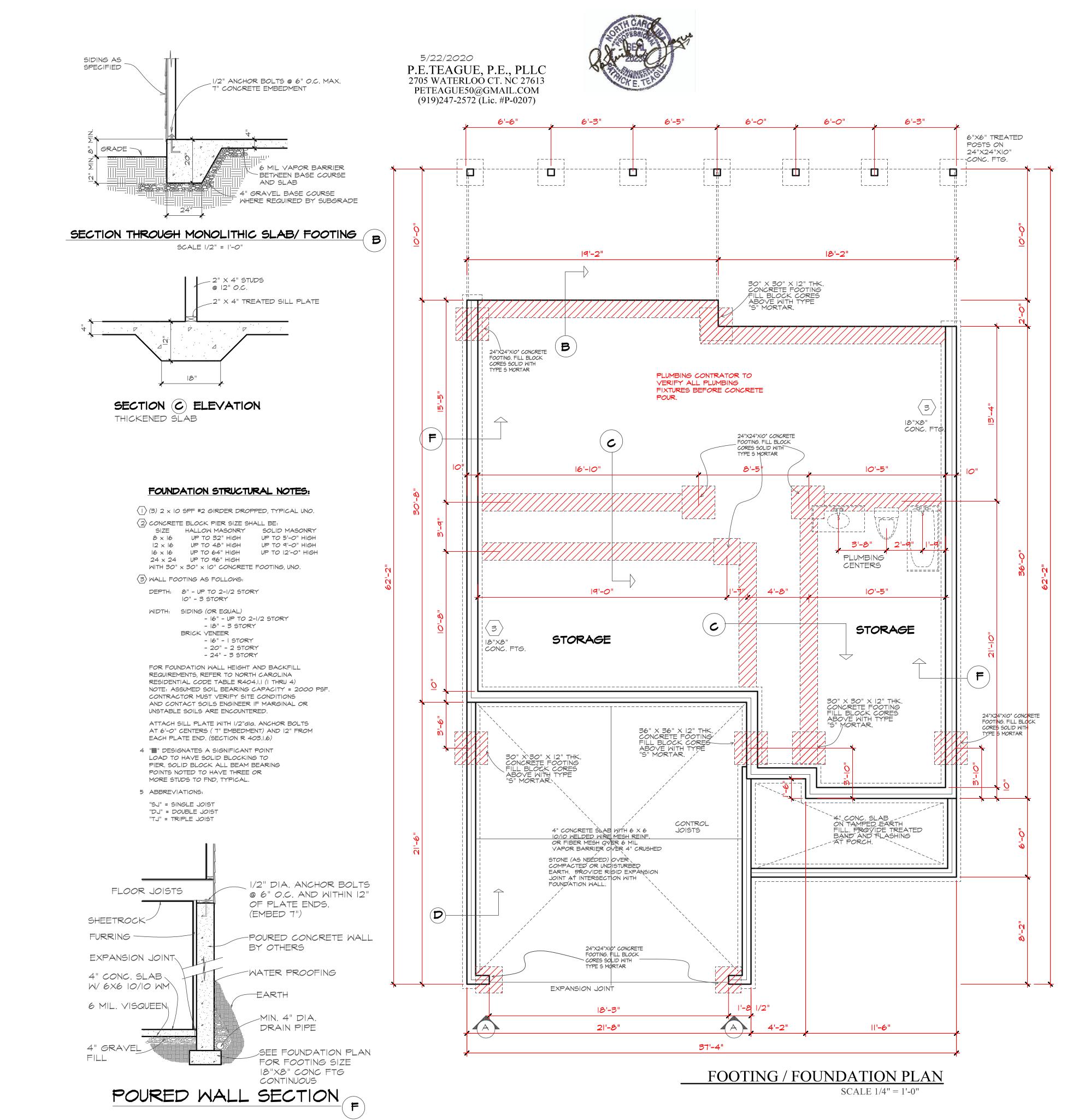
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A 2-2"XIO" FLUSH (B) 2-2"XIO" DROPPED (c) 2-2"X8 FLUSH (D) 2-2"XI2" DROPPED (E) 2-1.75"X9.25" LVL FLUSH (F) 2-1.75"X9.25" DROPPED (H) 2-1.75"XI6" LVL DROPPED (J) 2-1.75"XI4" LVL DROPPED (K) 3-1.75"X|4" LVL FLUSH (L) 2-1.75"XI8" LVL DROPPED (M) 2-1.75"X16" LVL FLUSH N | -1.75"X|6" LVL FLUSH P) 2-1.75"XII 7/8" LVL FLUSH (R) 2-1.75"XII 7/8" LVL DROPPED FOUNDATION STRUCTURAL NOTES: (1) (3) 2 x 10 SPF #2 GIRDER DROPPED, TYPICAL UNO. 2 CONCRETE BLOCK PIER SIZE SHALL BE: SIZE HALLOW MASONRY SOLID MASONRY 8×16 UP TO 32" HIGH UP TO 5'-0" HIGH 12 x 16 UP TO 48" HIGH UP TO 9'-0" HIGH 16 x 16 UP TO 64" HIGH UP TO 12'-0" HIGH 24 x 24 UP TO 96" HIGH WITH 30" \times 30" \times 10" CONCRETE FOOTING, UNO. (3) WALL FOOTING AS FOLLOWS: DEPTH: 8" - UP TO 2-1/2 STORY WIDTH: SIDING (OR EQUAL) FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.I.I (I THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED. ATTACH SILL PLATE WITH 1/2"dia. ANCHOR BOLTS AT 6'-0" CENTERS (7" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 403.1.6) 4 "= " DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL. 5 ABBREVIATIONS: "SJ" = SINGLE JOIST "DJ" = DOUBLE JOIST "TJ" = TRIPLE JOIST

1/2" ANCHOR BOLTS -PER R403.1.6 (2) MIN.

MASONRY WALL

BEAM SCHEDULE

10" - 3 STORY

BRICK VENEER

- 16" - UP TO 2-1/2 STORY

PONY WALL WITH DBL. TOP PLATE

- MINIMUM 1000 LB. STRAP TO BE CENTERED ON THE BOTTOM OF THE HEADER VERTICALLY AND ON THE IST JACK STUD HORIZONTALLY AND INSTALLED ON THE INTERIOR SIDE OF THE WALL.

3" X II-I/4" HEADER (MIN) OR AS SPECIFIED

18' MAX OPENING WIDTH

FASTEN SHEATHING TO HEADER WITH 8d COMMON NAILS ON 3" GRID PATTERN.

- EXTEND HEADER TO CORNER KING STUD OR 16" MIN. WHICHEVER IS LESS. FASTEN HEADER TO KING STUD WITH 6-16d SINKER NAILS.

- PANEL BREAKS, IF NEEDED, TO BE WITHIN 24" OF MID-HEIGHT. BLOCK EACH PANEL EDGE WITH 2X \$ NAIL SHEATHING WITH 8d NAILS @ 3" O.C NAIL BLOCKING TOGETHER WITH 3-16d SINKERS. ATTACH SHEATHING WITH TWO (2) ROWS OF 8d NAILS @ 3" O.C. AROUND PERIMETER.

— MIN LENGTH OF PANEL TO BE 16" OR HEIGHT/6, WHICHEVER IS GREATER

INTERMEDIATE STUD AS NEEDED. NAIL WITH 6d NAILS @ 6" O.C.

JACK STUDS AS SPECIFIED (2) MIN.

7/16" THICK STRUCTURAL PANEL (OSB OR PLYWOOD) WITH STONGER AXIS VERTICAL.

TREATED SPACER STUD (GARAGE DOOR OPENING)

FOUNDATION.

CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION OVER MASONRY OR CONCRETE

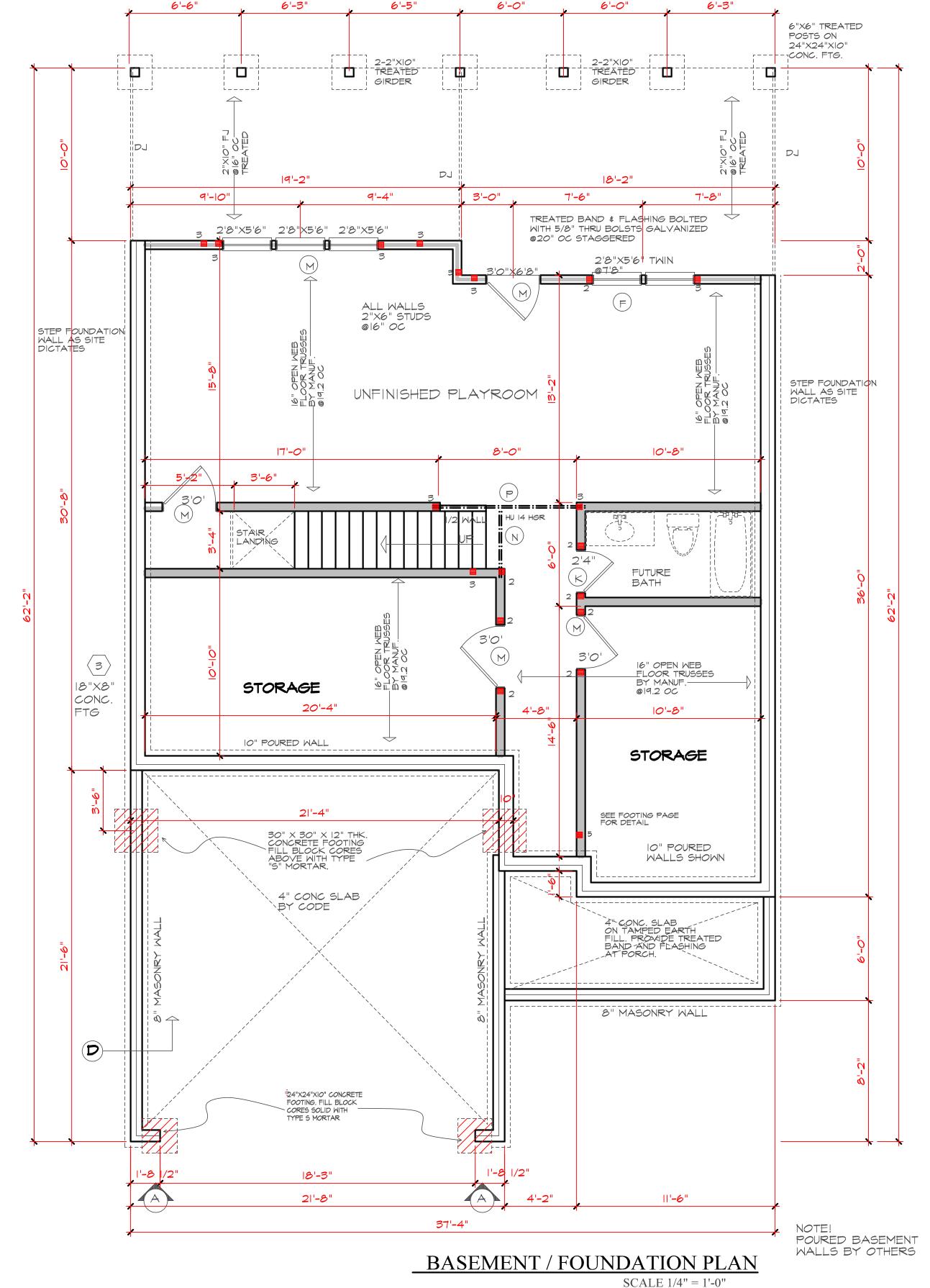
- 18" - 3 STORY

- 16" - 1 STORY - 20" - 2 STORY

- 24" - 3 STORY

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MSP: CS-MSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 7/16". EXPOSURE G: 15/32"). SHEATHING (MSP/(EXPOSURE B: 1/16). EXPOSURE G: 15/32"). SHEATHING SHALL BE ATTACHED MITH & NAILIS AT A 6"/12" NAILING PATTERN (6" O.C. AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. 3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF AND ATTACH 4. "HD" = HOLDOWN : HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY. **GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR EQUIV). **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS22 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 7/16" WSP SHEATHING WITH &A NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.



BEAM SCHEDULE

(F) 2-1.75"X9.25" DROPPED

(H) 2-1.75"XII 7/8" LVL flush

(J) 3-1.75"XII 7/8" LVL FLUSH

(M) 2-2"XI2" DROPPED

(N) | -1.75"X|6" LVL FLUSH

(P) 2-1.75"XI6" LVL FLUSH

HEADER/BEAM & COLUMN NOTES

I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2×10 (4" WALL) OR (3) 2×10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED

2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE

COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN

- OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO 11' SPAN: (3) KINGS STUDS

I. BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED

REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS

2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED

BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER

STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND

5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS)

ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL

WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

ATTACH EACH END W/ (7) 8d NAILS.

AND SPECIFICATIONS FOR WALL BRACING AND WALL

NUMBER OF SUPPORT STUDS

REQUIRED IN STUD POCKET OR

TABLE R602.3(5) OR AS BELOW:

- UP TO 4' SPAN: (I) KING STUD

- OVER II' SPAN: (4) KING STUDS

OTHERWISE.

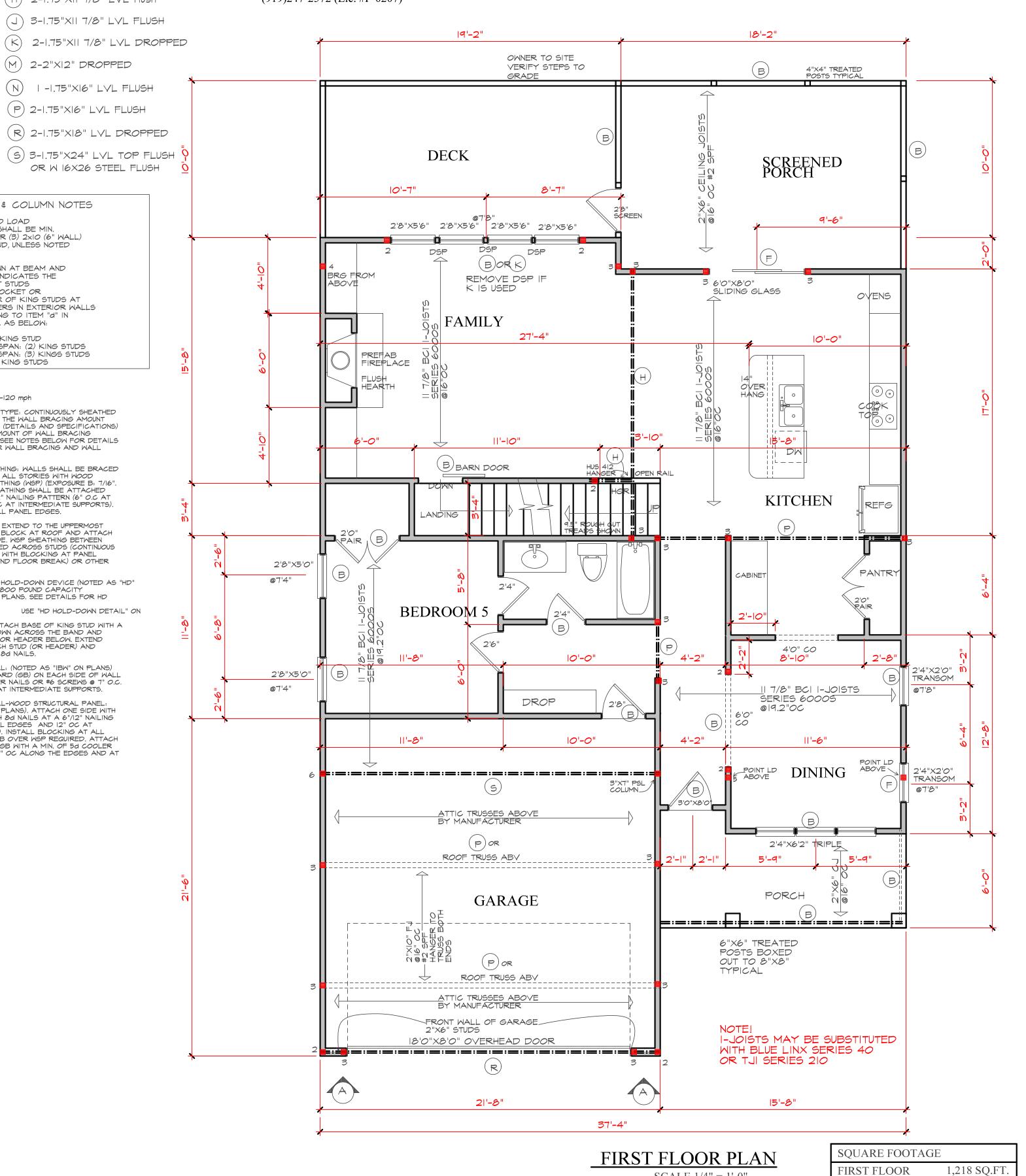
FRAMING NOTES:

APPROVED METHOD.

NC (2018 NCRC): Wind: 115-120 mph

OR W 16X26 STEEL FLUSH

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

DESIGNS

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1547 SQ.FT

2765 SQ.FT.

321 SQ.FT.

188 SQ.FT.

1128 SQ.FT 463 SQ.FT.

SECOND FLOOR

UNF. BASEMENT

TOTAL

DECK

GARAGE PORCHES

BEAM SCHEDULE

A 2-2"XIO" FLUSH

B) 2-2"XIO" DROPPED

(c) 2-2"X8 FLUSH

D 2-2"X8 DROPPED

E) 2-1.75"X9.25" LVL FLUSH

F) 2-1.75"X9.25" DROPPED

H 2-1.75"XII 7/8" LVL flush

3-1.75"X|| 7/8" LVL FLUSH

(K) 2-1.75"X|| 7/8" LVL DROPPED

M 2-2"XI2" DROPPED

(N) | -1.75"X|6" LVL FLUSH

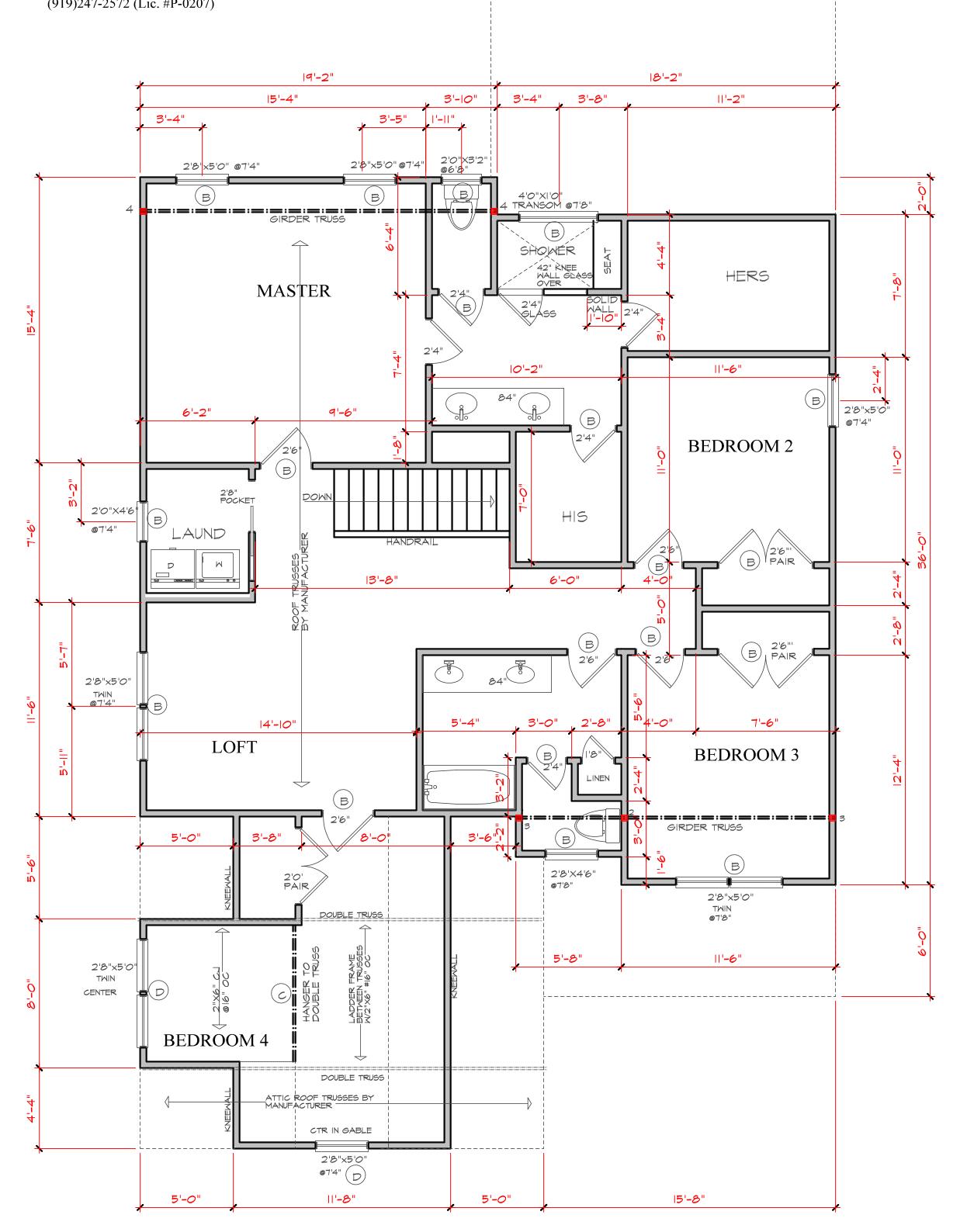
P 2-1.75"XI6" LVL FLUSH

R 2-1.75"XI8" LVL DROPPED

S 3-1.75"X24" LVL TOP FLUSH OR W 16X26 STEEL FLUSH



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SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

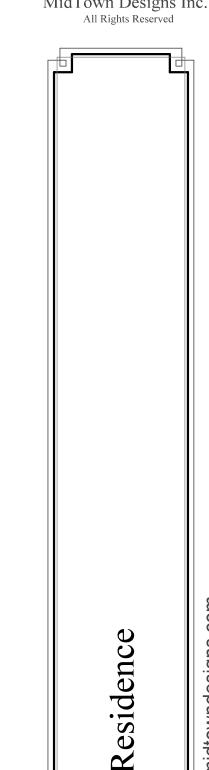
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Jarl Meleh Signature Series

SCALE

ROOF FRAMING NOTES: TRUSS SYSTEM REQUIREMENTS (115 MPH WIND ZONE) I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS)
SHALL BE DESIGNED IN ACCORDANCE WITH
SEALED STRUCTURAL PLANS, ANY NEED TO
CHANGE TRUSSES SHALL BE COORDINATED
WITH SOUTHERN ENGINEERS.
2. TRUSS SCHEMATICS (PROFILES) SHALL BE
PREPARED AND SEALED BY TRUSS
MANUFACTURER. (I.) ALL RAFTERS TO BE 2x8 @ 16" O.C. WITH 2 X 12 RIDGE, UNO. (2) (2)2×10 OR (1) 1.75" X 11 7/8" LVL HIP. (2)2×10 HIPS MAY BE SPLICED WITH A MINIMUM 6'-O" OVERLAP AT CENTER. (3.) (2)2x10 OR (1) 1.75" X 9.25" LVL VALLEY. DO NOT SPLICE VALLEYS 3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (4.) 1.75×11 7/8" LVL VALLEY 4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS. (5.) FALSE FRAME VALLEY ON 2XIO FLAT PLATE (6.) 2"X6" RAFTERS @16" O.C. W/ 2X10 RIDGE (7.) 2"XIO" RAFTERS @I6" O.C. W/ 2xI2 RIDGE - "SR" = SINGLE RAFTER - "DR" = DOUBLE RAFTER - "TR" = TRIPLE RAFTER - "RS" = ROOF SUPPORT FOR RAFTER SPLICE 8/12 8/12 - "■" = (3) STUD OR 4×4 POST FOR ROOF SUPPORT ·----------- FIR DOWN 2x8 RAFTERS OR USE 2x10 AT GIRDER TRUSS CATHEDRAL CEILINGS - ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS: SIMPSON "H-5" OR EQUIVALENT 2"x6" COLLAR TIES @32" TYPICAL 5/22/2020 P.E.TEAGUE, P.E., PLLC 2705 WATERLOÓ CT. NC 27613 PETEAGUE50@GMAIL.COM OVER FRAME HERE STICK BUILD OR TRUSSE BY MANUFACTURER (919)247-2572 (Lic. #P-0207) 6 GIRDER TRUSS 12/12 ADJUST PITCH FOR FLUSH RIDGES DOUBLE TRUSS 12/12 12/12 NOTE! ATTIC TRUSSES OVER GARAGE BY MANUFACTURER



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12/12

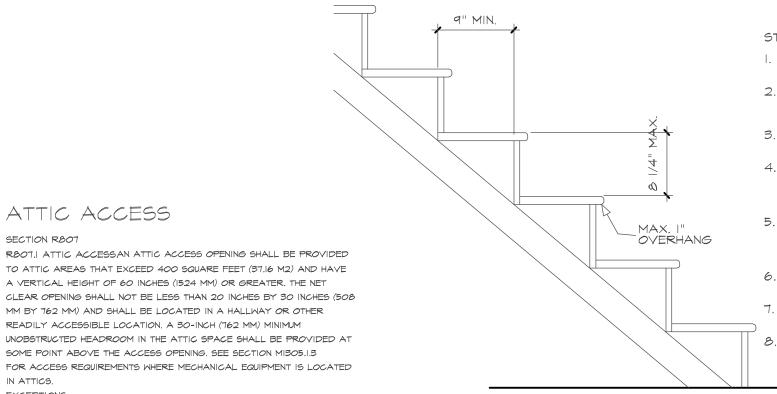
ROOF PLAN

SCALE 1/4" = 1'-0"

₹ 5/22/2020

PROJECT #

200503



I) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2015 IRC), PLUS ALL LOCAL CODES AND REGULATIONS. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE

2) DESIGN LOADS SEE TABLE R301.5

BUILDING CODE.

STRUCTURAL NOTES

WIND SPEED: (REFER TO TABLE R301.2.4) VERIFY ZONE BEFORE CONSTRUCTION.

3) WALL BRACING: WALLS SHALL BE BRACED ALONG BRACED WALL LINES ACCORDING TO SECTION R602.10. THE AMOUNT, LOCATION, AND CONSTRUCTION OF BRACING SHALL COMPLY WITH R602.10. NOTE THAT THE BRACING SHOWN ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/ORAPPROVED BY THE CODE OFFICIAL.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIT ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.

5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

6) ALL FRAMING LUMBER SHALL BE SPF #2(FB = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2 (FB=975 PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (FC(PERP) = 425 PSI - MIN). 7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 2×4 STUD COLUMN FOR 6'-0'' MAX. BEAM SPAN (UNO), (2) 2×4 STUDS FOR BEAM SPAN GREATER THAN 6'-0'' (UNO).

8) L.V.L SHALL BE LAMINATED VENEER LUMBER: FB=2600 PSI, FV=285 PSI, E=1,900,000 PSI. P.S.L SHALL BE PARALLEL STRAND LUMBER: FB=2900 PSI, FV=290 PSI, E=2,000,000 PSI. L.S.L SHALL BE LAMINATED STRAND LUMBER: FB=2250 PSI, FV=400 PSI, E=1,550,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND -JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S

IO) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER X 4" LONG). LATERAL SUPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.

II) REBAR SHALL BE DEFORMED STEEL. ASTM615, GRADE 60.

12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX). AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH FND

13) BRICK LINTELS SHALL BE 3 1/2"X3 1/2"X1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"X4"X5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS SEE R301.2(6)

DECK BRACING

PROVIDE LATERAL STABILITY.

BRACE PER FIGURE AMIO9.I

AND THE FOLLOWING:

SEE CHAPTER 45.

AMIO9.1 DECK BRACING. DECKS SHALL BE BRACED TO PROVIDE

LATERAL STABILITY. THE FOLLOWING ARE ACCEPTABLE MEANS TO

AMIO9.I.I. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-O"

AMIO9.1.2. 4 X 4 WOOD KNEE BRACES MAY BE PROVIDED ON

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

GALVANIZED BOLT WITH NUT AND WASHER AT BOTH ENDS OF THE

DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY

EMBEDDING THE POST IN ACCORDANCE WITH FIGURE AMIO9.2

POST TRIBUTARY AREA MAX. POST EMBEDMENT CONCRETE DEPTH DIAMETER

AMIO9.1.4. 2 X 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR

FREESTANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE

EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE 2 X 6S SHALL

BE ATTACHED TO THE POSTS WITH ONE 5/8 INCH HOT DIPPED

GALVANIZED BOLT WITH NUT AND WASHER AT EACH END OF

AMIO9.1.5. FOR EMBEDMENT OF PILES IN COASTAL REGIONS,

EACH BRACING MEMBER PER FIGURE AMIO9.3.

4 × 4 | 48 SF | 4'-0" | 2'-6" | 1'-0"

6 X 6 | 120 SF | 6'-0" | 3'-6" | 1'-8"

AMIO9.1.3. FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR

ABOVE FINISHED GRADE PER FIGURE AMIO9 AND THE DECK IS

ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION

EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL

ANGLED BETWEEN 45 DEGREES AND 60 DEGREES FROM THE HORIZONTAL. KNEE BRACES SHALL BE BOLTED TO THE POST AND THE

GIRDER/DOUBLE BAND WITH ONE 5/8 INCH HOT DIPPED

AMIO4, LATERAL BRACING IS NOT REQUIRED.

SECTION AMIO9

R807.1 ATTIC ACCESS AN ATTIC ACCESS OPENING SHALL BE PROVIDED TO ATTIC AREAS THAT EXCEED 400 SQUARE FEET (37.16 M2) AND HAVE A VERTICAL HEIGHT OF 60 INCHES (1524 MM) OR GREATER. THE NET CLEAR OPENING SHALL NOT BE LESS THAN 20 INCHES BY 30 INCHES (508 MM BY 762 MM) AND SHALL BE LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. A 30-INCH (762 MM) MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT

SOME POINT ABOVE THE ACCESS OPENING. SEE SECTION MI305.1.3 FOR ACCESS REQUIREMENTS WHERE MECHANICAL EQUIPMENT IS LOCATED EXCEPTIONS:

ARE NOT REQUIRED TO HAVE ACCESS. 2. PULL DOWN STAIR TREADS, STRINGERS, HANDRAILS, AND HARDWARE MAY

PORCHES, AREAS BEHIND KNEE WALLS, DORMERS, BAY WINDOWS, ETC.

I. CONCEALED AREAS NOT LOCATED OVER THE MAIN STRUCTURE INCLUDING

PROTRUDE INTO THE NET CLEAR OPENING.

STAIR NOTES:

- I. STAIRS RISERS MUST BE UNIFORM AND NOT EXCEED 8 1/4".
- 2. TREADS SHALL NOT BE LESS THAN IO" DEEP A I" PROJECTION OVER RISER IS PERMITTED.
- 3. A MINIMUM OF 6'8" HEADROOM MUST BE MAINTAINED AT ALL PLACES ON STAIR.
- 4. THE WIDTH OF THE STAIR SHALL BE A MINIMUM OF 3'O". HANDRAIL MAY PROJECT FROM EACH SIDE OF STAIR A DISTANCE OF 3 1/2" INTO THE REQUIRED WIDTH.
- 5. WINDERS MUST BE A MINIMUM OF 9" IN WIDTH AT 12" FROM THE NARROWEST SIDE. TREAD SHALL BE NO NARROWER THAN 4" AT ANY
- 6. HANDRAILS SHALL BE NO LESS THAN 34" AND NO MORE THAN 38" ABOVE TREAD NOSING.

POINT AND AVERAGE NO LESS THAN 9 INCHES.

7. WINDERS AND SPIRAL STAIRS SHALL HAVE THE HANDRAIL LOCATED ON THE OUTSIDE RADIUS. 8. ALL REQUIRED HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS.

STAIR DETAIL

NO SCALE

DWELLING / GARAGE SEPARATION REFER TO SECTIONS R302.5, R302.6, AND R302.7

WALLS. A MINIMUM I/2" GYPSUM BOARD MUST BE INSTALLED ON ALL WALLS SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION. STAIRS. A MINIMUM OF 1/2" GYPSUM BOARD MUST BE INSTALLED ON THE UNDERSIDE AND EXPOSED SIDES OF ALL STAIRWAYS.

CEILINGS. A MINIMUM OF 1/2" GYPSUM MUST BE INSTALLED ON THE GARAGE CEILING IF THERE ARE NO HABITABLE ROOM ABOVE THE GARAGE. IF THERE ARE HABITABLE ROOM ABOVE THE GARAGE A MINIMUM OF 5/8" TYPE X GYPSUM BOARD MUST BE INSTALLED ON THE GARAGE CEILING. OPENING PENETRATIONS. OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/8 INCHES (35 MM) IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN I 3/8 INCHES (35 MM) THICK, OR 20-MINUTE

DUCT PENETRATIONS. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE (0.48 MM) SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS

TREATED DECKING

BETWEEN DECKING

GIRDER SIZED PER

FOUNDATION PLAN

FOOTING SIZED PER

FOUNDATION PLAN SET BOTTOM OF

FOOTING BELOW

FROST LINE

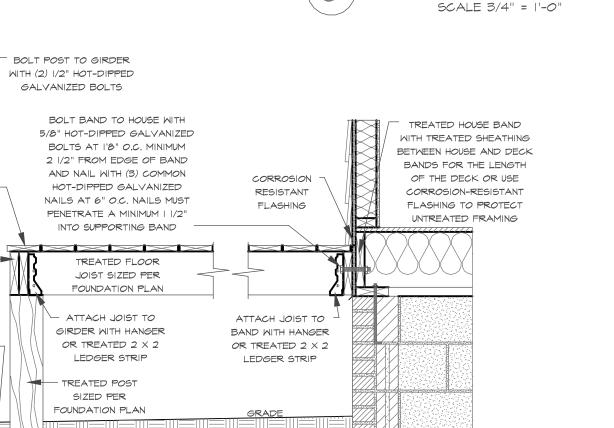
TREATED DECK -

MINIMUM 1/4" GAP

OTHER PENETRATIONS. PENETRATIONS THROUGH THE SEPARATION REQUIRED IN SECTION R302.6 SHALL BE PROTECTED AS REQUIRED BY SECTION R302.11, ITEM 4.

/ FLOOR JOIST / AS SPECIFIED (3) 2 X 10 GIRDER UNLESS NOTED 8" SOLID — OTHERWISE MASONRY CAP SILL PLATE (3)/2 X/10 GIRDER /FLØOR/JQIST UNLESS NOTED (AS SPECIFIED) OTHERWISE 2 X 6 TREATED SILL PLATE 2 X 2 LEDGER MASONRY CAP STRIPS OR HANGERS PIER SIZE AS SPECIFIED

2 X 6 TREATED CONCRETE FOOTING AS SPECIFIED SET FOOTING BELOW THE FROST LINE DROPPED/ FLUSH PIER



DECK ATTACHMENT DETAIL TO FRAMED WALL SCALE 3/4" TO 1'-0"

THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2015 IRC)

HOUSE DESIGNED FOR 115 or 120 MPH EXPOSURE B

BELOW THE FROST LINE

ANCHOR BOLTS SHALL BE MINIMUM 1/2" DIAMETER & SHALL EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE. ANCHOR BOLTS TO BE NO MORE THAN 6' ON CENTER AND WITHIN 12" OF ALL CORNERS. THERE SHALL BE A MINIMUM

MINIMUM VALUES FOR ENERGY COMPLIANCE ZONE 4A, \$ 3. VERIFY ZONE BEFORE CONSTRUCTION

TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a											
ATE NE	FENESTRATION U-FACTOR ^{b_i}	SKYLIGHT ^b <i>U</i> -FACTOR	GLAZED FENESTRATION SHGC ^{b, k}	CEILING R-VALUE [®]	WOOD FRAME WALL R-VALUE	MASS WALL <i>R</i> -VALUE	FLOOR R-VALUE	BASEMENT S.S. WALL R.VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE° WALL R-VALUE	
3	0.35	0.55	0.30	38 or 30ci ¹	15 or 13+2.5 ^h	<u>5/13</u> or 5/10ci	19	5/13 ^f	0	5/13	
,	0.35	0.55	0.30	38 or 30ci ¹	<u>15</u> or 13+ <u>2.5</u> ^h	<u>5/13</u> or 5/10ci	19	10/ <u>15</u>	10	10/ <u>15</u>	
i	0.35	0.55	NR	38 or 30ci ¹	19 ⁿ or 13+5 ^h or 15+3 ^h	13/17 <u>or</u> 13/12.5ci	30 ^g	10/15	10	<u>10</u> /19	

TABLE R402.1.4

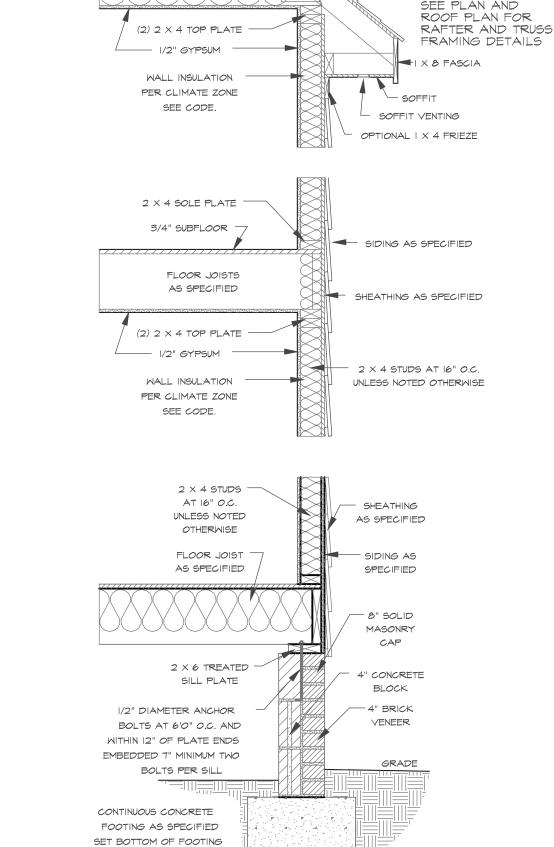
EQUIVALENT U-FACTORS									
	CLIMATE ZONE	FENESTRATION U-FACTOR ^d	SKYLIGHT <i>U-</i> FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
	3	0.35	0.55	0.030	<u>0.077</u>	<u>0.141</u>	0.047	0.091°	0.136
	4	0.35	0.55	0.030	<u>0.077</u>	<u>0.141</u>	0.047	0.059	0.065
Ì	5	<u>0.35</u>	0.55	0.030	<u>0.061</u>	0.082	0.033	<u>0.059</u>	<u>0.065</u>

a. Nonfenestration *U*-factors shall be obtained from measurement, calculation or an approved source. b. When more than half the insulation is on the interior, the mass wall *U*-factors shall be a maximum of <u>0.07</u> in Climate Zone 3, <u>0.07</u> in Climate Zone 4 and <u>0.054</u>

substituted maximum *U*-value requirement and maximum SHGC requirement, as applicable.

- in Climate Zone 5. c. Basement wall *U*-factor of 0.360 in warm-humid locations as defined by Figure R301.1 and Table R301.1.
- d. A maximum of two glazed fenestration product assemblies having a U-factor no greater than 0.55 and a SHGC no greater than 0.70 shall be permitted to be substituted for minimum code compliant fenestration product assemblies without penalty. When applying this note and using the REScheck "UA Trade-off" compliance method to allow continued use of the software, the applicable fenestration products shall be modeled as meeting the U-factor of 0.35 and the SHGC of 0.30, as applicable, but the fenestration products actual U-factor and actual SHGC shall be noted in the comments section of the software for

documentation of application of this note to the applicable products. Compliance for these substitute products shall be verified compared to the allowed



PITCH PER ROOF PLAN OR ELEVATIONS

ROOF INSULATION PER CLIMATE ZONE

SEE CODE

SHINGLES AS SPECIFIED

-15# BUILDING FELT

-SHEATHING AS SPECIFIED

- INSULATION BAFFLE

Purchaser must verify all

beginning construction.

MidTown Designs Inc.

procedures

assumes no liability for

contractors practices and

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remain property of the designer

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of service and as such shall

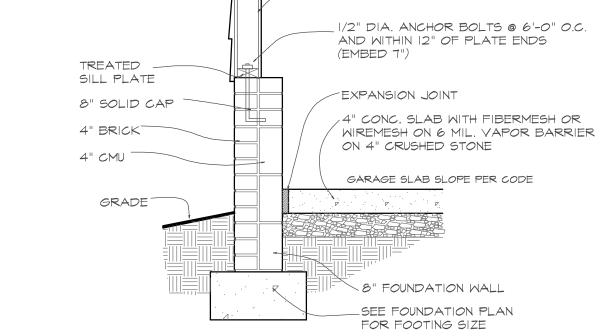
dimensions and conditions before

WALL SECTION

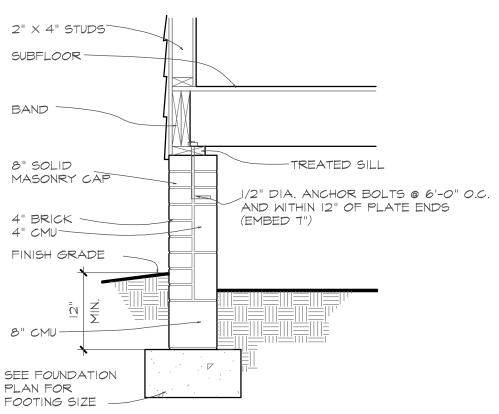
SCALE 3/4" = 1'-0"

OF TWO (2) ANCHOR BOLTS PER PLATE SECTION.

TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT*												
FENESTRATION U-FACTOR ^{b_i}	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b, k}	CEILING R-VALUE ^m	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT S.S. WALL R.VALUE	SLAB ^d R-VALUE & DEPTH	CRAV SPAC WAL R-VAL			
0.35	0.55	0.30	38 or 30ci ¹	15 or 13+2.5 ^h	5/13 or 5/10ci	19	5/13 ^f	0	5/13			
0.35	0.55	0.30	38 or 30ci ¹	<u>15</u> or 13+ <u>2.5</u> ^h	<u>5/13</u> or 5/10ci	19	10/ <u>15</u>	10	10/ <u>1</u>			
0.35	0.55	NR	38 or 30ci ¹	19 ⁿ or 13+5 ^h or 15+3 ^h	13/17 <u>or</u> 13/12.5ci	30 ^g	10/15	10	<u>10</u> /1			



(B) SECTION AT GARAGE SLAB



(D) SECTION AT CRAWL

1/16/2019