	LIVE LOAD	DEAD LOAD
TABLE R301.4	(PSF)	(PSF)
DWELLING UNITS	40	10
SLEEPING ROOMS	30	10
ATTICS WITH STORAGE	20	10
ATTICS WITHOUT STORAGE	10	10
ROOF SNOW	20	10
STAIRS	40	10
DECKS	40	10
EXTERIOR BALCONIES	60	10
PASSENGER VEHICLE GARAGES	50	
FIRE ESCAPES	40	10
GUARDRAILS AND HANDRAILS	200	

MATERIALS

- 2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: $Fb = 1050 \ PSI \quad Fv = 95 \ PSI \quad E = 1.6E6 \ PSI$
- 3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES: Fb = 2900 PSI
 Fv = 285 PSI
 E = 1.9E6 PSI
- 4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 MINIMUM GRADE.
- 5. BOLTS SHALL CONFORM TO A307 MINIMUM GRADE.
- 6. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.
- 7. POURED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157.
- 8. CONCRETE LOCATED PER TABLE R402.2 SHALL BE AIR ENTRAINED WITH THE TOTAL AIR CONTENT NOT LESS THAN 5 PERCENT OR MORE THAN 7 PERCNET.
- 9. MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.
- 10. ALLOWABLE SOIL BEARING PRESSURE 2000 PSF.

<u>GENERAL</u>

ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR ANY DEVIATION FROM THE

ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE <u>NORTH</u> CAROLINA STATE BUILDING CODE - RESIDENTIAL CODE 2018 EDITION FROM THE INTERNATIONAL RESIDENTIAL CODE 2018 (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER DIMENSIONS.

ADDITIONAL LOADS

FIGURE R301.2(4) - ULTIMATE DESIGN WIND SPEEDS 115-120 MPH

FIGURE R301.2(2) - SEISMIC DESIGN CATEGORY B

 $\underline{\text{TABLE R301.2(4)}} - \text{DESIGN POSITIVE AND NEGATIVE PRESSURE FOR DOORS AND WINDOW FOR A MEAN ROOF HEIGHT OF 35} \\ \overline{\text{FEET OR LESS SHALL BE 25 PSF}}$

TABLE R301.2(2) - COMPONENT AND CLADDING LOADS FOR A MEAN ROOF HEIGHT OF 30 FEET OR LESS LOCATED IN EXPOSURE B

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PITCHES AS FOLLOWS:

45.4 PSF FOR 0:12 TO 2.25:12, 34.8 PSF FOR 2.25:12 TO 7:12 AND 21 PSF FOR 7:12 TO 12:12 WALL CLADDING IS DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

ENERGY COMPLIANCE:

 $\frac{\text{TABLE N1102.1}}{\text{N1102.1}} \cdot \text{REFER TO TABLE N1101.1} \text{ TO DETERMINE THE CLIMATE ZONE BY COUNTY } \text{ AND REFER TO TABLE N1102.1} \\ \text{FOR R VALUE INSULATION REQUIREMENTS LISTED BY ZONE.}$

 $\frac{\text{TABLE N1102.1 - ZONE 7}}{\text{FLOORS}} \cdot \text{MAX. GLAZING U FACTOR: } \underbrace{0.40}_{\text{C.40}}. \text{ MIN. INSULATION R VALUES: CEILING } \underbrace{\text{R-30}}_{\text{R-70}}, \text{WALLS } \underbrace{\text{R-13}}_{\text{R-7}}, \text{CRAWL SPACE WALLS } \underbrace{\text{R-7}}_{\text{R-7}}.$

 $\frac{\text{TABLE N1102.1 - ZONE 8 - MAX. GLAZING U FACTOR: 0.40.}}{\text{FLOORS } \underbrace{\text{R-19}}, \text{BASEMENT WALLS } \underbrace{\text{R-8}}, \text{SLAB PERIMETER } \underbrace{\text{R-5} (2 \text{ FT DEEP})}, \text{CRAWL SPACE WALLS } \underbrace{\text{R-30}}, \text{WALLS } \underbrace{\text{R-10}}.$

CONSTRUCTION

- 1. STEEL FLITCH BEAMS SHALL BE FASTENED TOGETHER WITH 1/2" DIAMETER BOLTS WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS SHALL BE SPACED AT MAXIMUM 24" o.c. STAGGERED TOP AND BOTTOM OF BEAM WITH A MINIMUM 2" EDGE DISTANCE. TWO BOLTS SHALL BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.
- 2. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH.

 PEAMS MIST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 164 NAULS OF TWO 1675 AND 16 SOPEMS.
- BEAMS MUST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS.
- 3. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.
- 4. ALL BEAMS SHALL BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF THREE STUDS.
- 5. SOLID BLOCKING SHALL BE PROVIDED AT ALL POINT LOADS TO TRANSFER LOADS THROUGH FLOOR LEVELS. COLUMNS SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL ELEMENTS.
- 6. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 7. WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH <u>SECTION R602.10</u> OF THE NORTH CAROLINA RESIDENTIAL CODE.
- 8. BRICK LINTELS SHALL BE 3 1/2 x 3 1/2 x 1/4 STEEL ANGLE FOR UP TO 6'0" MAXIMUM SPAN AND 6 x 4 x 5/16 FOR SPANS GREATER THAN 6'0".
- 9. BRICK LINTELS AT SLOPED AREAS SHALL BE 4 x 3 1/2 x 1/4 STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" o.c. TO DOUBLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24" o.c. ALONG THE STEEL ANGLE.

MEAN ROOF HEIGHT 1 STORY = 11'-0"

CLADDING POSITIVE & NEGATIVE PRESSURE = 21

1 1/2 STORY = 19'-0"

CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

2 STORY = 19'-0"

CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

ANCHOR BOLTS

INSTALL ANCHOR BOLTS, NUTS, AND WASHERS PER CODE AT ALL EXTERIOR WALL TREATED PLATES AND AT INTERIOR BEARING

TREATED PLATES ON SLAB
FOUNDATIONS. TO BE A MINIMUM OF 6' O.C. AND
WITHIN 12" FROM THE ENDS OF EACH PLATE.

DESIGN PRESSURES MINIMUM RATING: 25 PSF

MI WINDOWS 3500 SERIES LOW E-GLASS WINDOWS

	ABBREVIATIONS	
	CONC CONT DBL DJ DSP EA FL PT FTG HGR LVL NTS OC PSL	CONCRETE CONTINUOUS DOUBLE DOUBLE JOIST DOUBLE STUD POCKET EACH FLAT PLATE FOOTING HANGER LAMINATED VENEER LUMBER NOT TO SCALE ON CENTER PARALLEL STRAND LUMBER
1	PT SC	PRESSURE TREATED STUD COLUMN
1	SP	STUD POCKET
1	TJ TYP	TRIPLE JOIST TYPICAL

THE "Winston" PLAN NO. 1441

SQUARE FOOT	AGE
FIRST FLOOR SECOND FLOOR	611 S.F. 810 S.F.
TOTAL HEATED AREA	1441 S.F.
OVERALL WIDTH OVERALL DEPTH	24'-0" 37'-4"

	REVISION LOG								
Rev	Description	Drawn By	Data	Charles Affactack	Brochure Required	Engineering Required			
Κ Ο ν	Description	Бу	Date	Sheets Affected	Required	Required			
1									
2									
3									
4									
5									
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11									
12									
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TABLE N1102.1 CLIMATE ZONES 3-5

CLIMATE ZONE	FENESTRATION U-FACTOR ⁶ -j	SKYLIGHT ^b <i>U</i> -FACTOR	GLAZED FENESTRATION SHGC ^{b, <u>k</u>}	CEILING R.VALUE ^{III}	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT [©] WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE° WALL R-VALUE
3	0.35	0.55	0.30	38 or 30ci	15 or 13 + 2.5 ^h	5/13 or 5/10ci	19	5/13	0	5/13
4	0.35	0.55	0.30	38 or 30ci	15 or 13 + 2.5 ^h	5/13 or 5/10ci	19	10/15	10	10/15
5	0.35	0.55	NR	38 or 30ci	19 ⁿ or 13 + 5 ^h or 15 + 3 ^h	13/17 <u>or</u> 13/12.5 ci	30º	10/15	10	10/19

- foot = 304.8 mm.

 Realuse are minimums. Urbictions and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed Availue of the insulation shall not be less than the Availue specified in the label.
- R-values are minimums. Lifectors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, it is.
 The farestration Ufficience of the continuous skylights. The SHGC column applies to all glazzed ferestration.
 "MHS" means R-10 continuous insulated sheathing on the interior or detained of the honer or R-15 cavity insulation at the interior of the basement wall or cavit space with the interior of the basement wall or cavit space with the interior of the basement wall or cavit space with the interior of the basement wall or cavit space with the interior of the basement wall or cavit space.
- R. S. Shill be added to the required side dega Rusiuse for heated sides. For monthline sides, includion shall be applied from the inspection age downward to the bottom of the feeting or a maximum of 24 inches below grade, whichever is less. For feeting sides, includion shall patent to the bottom of the bottom of the feeting or a maximum of 24 inches whichever is less. (See Appendix O).

 Refeated.

 Refeated.

 Refeated.

 Refeated.
- <u>Patents</u>
 Basement wall insulation is not required in warm-humid locations as defined by Figure N1101.7 and Table N1101.7.
 O' insulation sufficient to fill the faming parity, R-19 minimum.
- used. If studious inherance, covers more than 25 general of extence, studious inherance, shall be appliamented with insulated sheathing of at least R-2.

 The second R-value applies when more than help the insulation is on the laterior of the mass wall.
 In addition to the exemption in Section in 1902.33, a maximum of two placed femalence product assemblies having a U-factor no greater than 0.55 shall be permitted to be auditifuled for minimum code compliant femalenting product assemblies without penalty.
- Inaction to the exemption in Section NY102.3.5, a maximum of two plants dimension product assemblies having a Underton a greater than 0.55 shall be germitted to be absoluted for infinitum code compliant femantiation product assemblies without genetly.
 In addition to the exemption in Section NY10.2.3.5 a maximum of two plants dimension conduct assemblies without genetly.

 And shall be deemed to satisfy the colling invalidation requirement wherever the full highest of uncompassage FA.0 invalidation deviced over the wall top plate at the earner. Disease FA.9 invalidation in a conduction requirement wherever the full highest of uncompassage FA.0 invalidation deviced over the wall top plate at the earner. Disease FA.9 invalidation is requirement.
- Bable value required except for not edge where the space is limited by the pitch of the root from the incultion must fill the space up to the pair bells.
 R. 16 Repolase betts compressed and installed in a nominal 2 × 6 terring cavity is deemed to comply. Exempless betts rated R. 19 or higher compressed and installed in a 2 × 4 wall is not deemed to comply.
 Basement value limedon the minimum mass wall specific heat content requirement may use the mass wall shall be safe in minimum requirement.

	ELEVATION									
MAIN	HOUSE	Ē	SQ FTG	3093	AT / NEAR RIDGE		AT / NEAR EAVE			
VENT TYPE		. FT. JIRED	SQ. FT.	PERCENT OF TOTAL	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)	
0		NGE	SUPPLIED	SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625	
RIDGE VENT	4.12	5.16	6.63	39.85	0	0	53.00			
SOFFIT VENTS	6.19	5.16	10.00	60.15				0	160.00	
TOTAL (MIN)	10.31	10.31	16.63	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					

ATTIC VENT SCHEDULE



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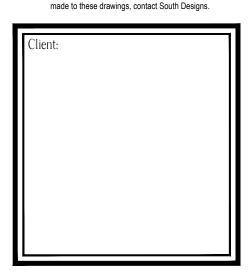
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Drawn By: RW	VB
Checked By: RW Date: 5-24-2	
Revision No.	Revision Date

Designer Signature

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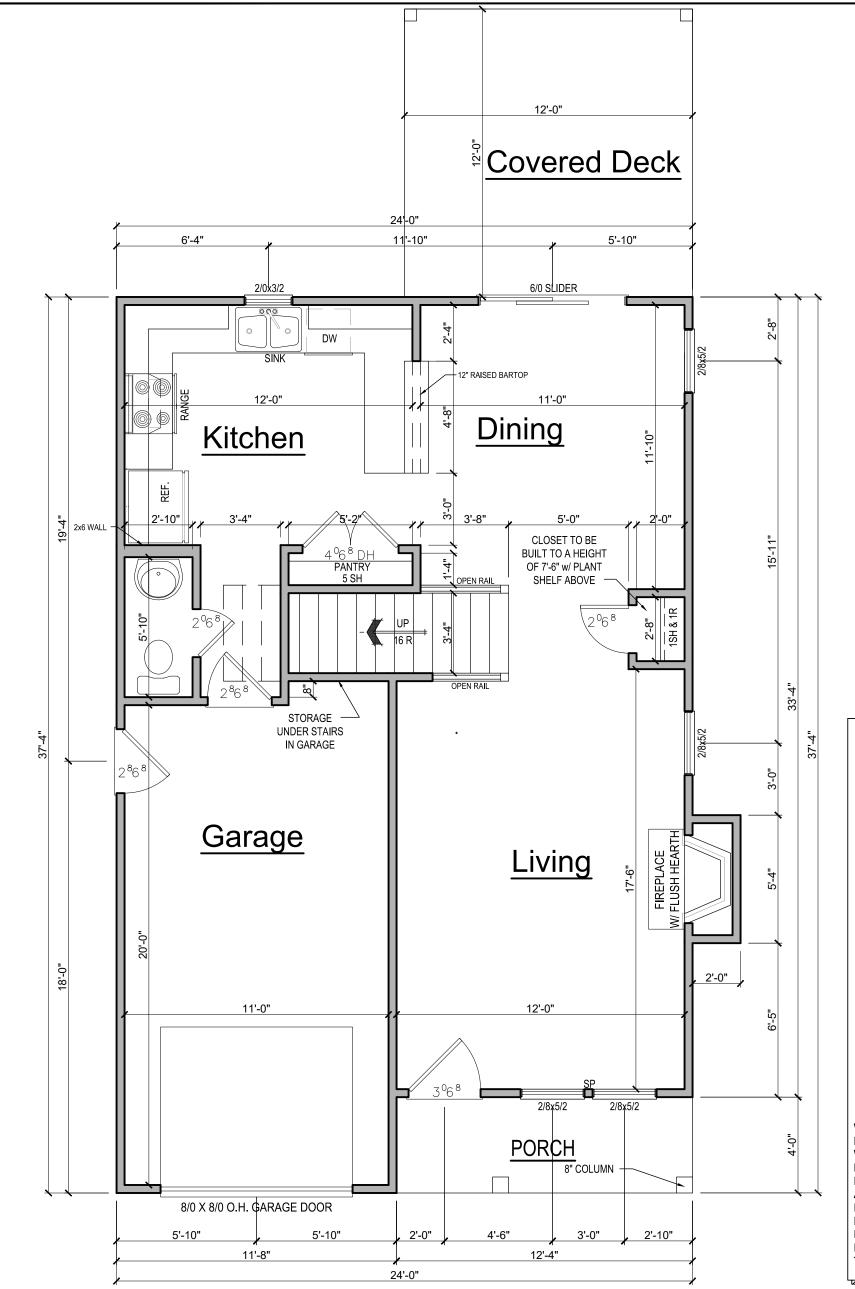
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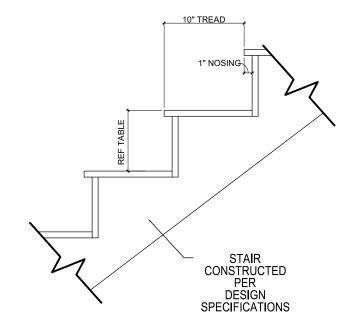


COVER SHEET

CS-1
Sheet No. Of

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	RISER HEIGHTS PER STAIR CONFIGURATION					
PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM			
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"			
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"			
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"			



TYPICAL STAIR DETIAL

SCALE: 3/8" = 1'-0

GENERAL NOTES

WALLS:

ALL WALLS ARE DRAWN 4" THICK U.N.O. ANGLED WALL ARE DRAWN @45° U.N.O.

SMOKE DETECTORS:

LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC.

EGRESS:

ALL BEDROOMS MUST HAVE
AT LEAST ONE WINDOW WHICH
CONFORMS TO R-310 OF THE
N.C. BLDG. CODE. IT IS THE
CONTRACTOR'S RESPONSIBILITY
TO VERIFY CHOSEN WINDOWS
MEET EGRESS REQUIREMENTS
AS MANUFATURERS VARY.

ATTIC ACCESS:

MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HGT.

WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL

WALL SIZE.
KNEE WALL HEIGHT LABELS
FOR WALLS UNDER RAFTERS
ASSUME AN EXTRA 2" FOR
FURRING (IN HEATED SPACES)
FOR INSULATION. THE WALL
HEIGHT REFERS TO THE HGT.
FROM THE FLOOR DECKING TO
THE BOTTOM OF THE FURRING.

NOTE:

HANDRAILS SHALL BE PROVIDE ON AT LEAST ONE SIDE OF STAIR TREADS WITH 4, OR MORE RISERS. VERTICAL HT. OF HANDRAILS SHALL BE NOT LESS THAN 34" AND NO MORE THAN 38" PER NC 2018 RESIDENTIAL CODE SEC. R311.7.8

GUARDS ON ALL HANDRAILS SHALL BE PLACED SO THAT A SPHERE OF 4" CANNOT PASS THROUGH PER NC 2018 RESIDENTIAL CODE SEC. R312.1



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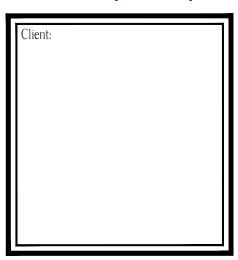
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	Drawn By: RWB
l	Checked By: RWB
l	Date: 5-24-2023 Revision No. Revision Date
l	
ı	

Designer Signature

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FIRST FLOOR PLAN

Plan No.

A-1

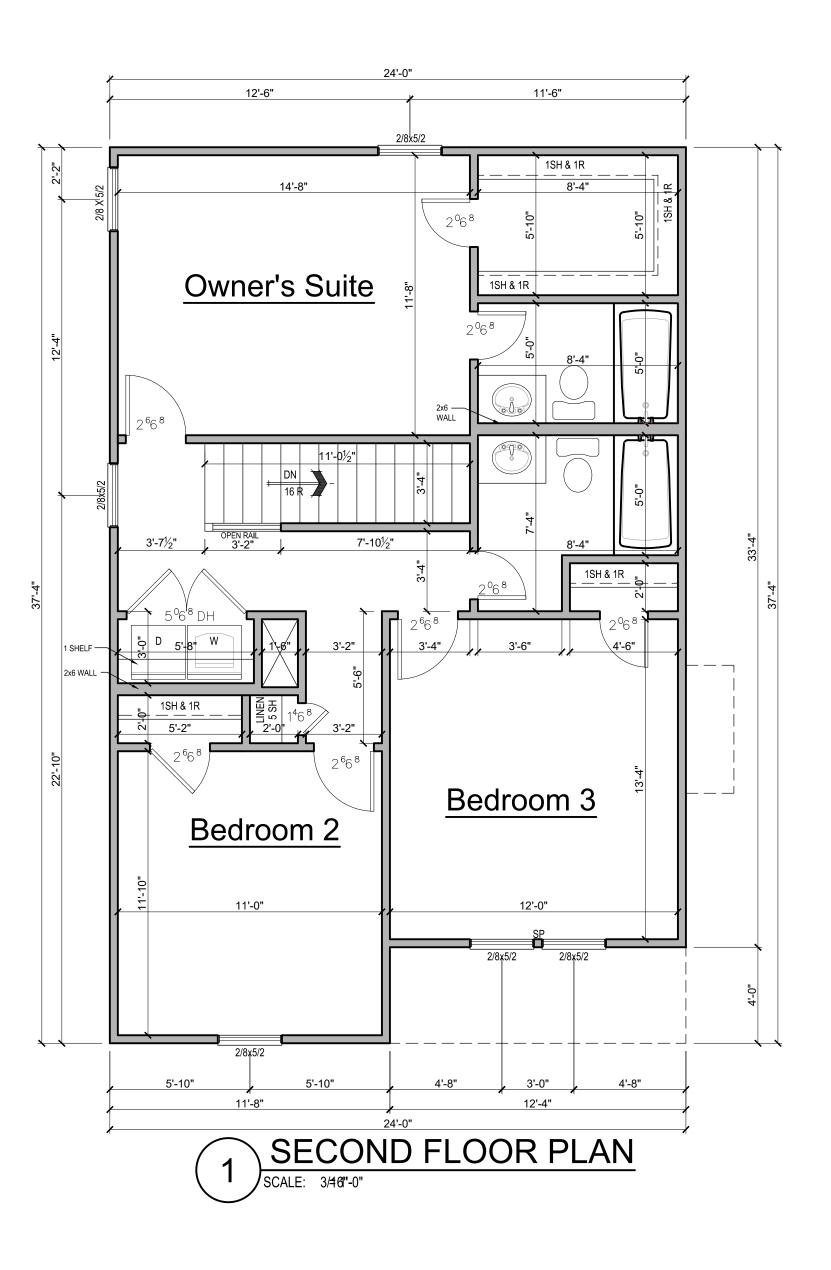
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FIRST FLOOR PLAN

SCALE: 3/46"-0"

SQUARE FOOTAGE				
FIRST FLOOR	611 S.F.			
SECOND FLOOR	810 S.F.			
TOTAL HEATED AREA	1441 S.F.			
OVERALL WIDTH	24'-0"			
OVERALL DEPTH	37'-4"			

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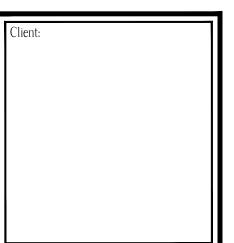
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<u>D</u> r	awn By: RV	WB
<u>Ch</u>	ecked By: RV	VB
<u>Da</u>	te: 5-24-	2023
Re	evision No.	Revision Date

Designer Signature

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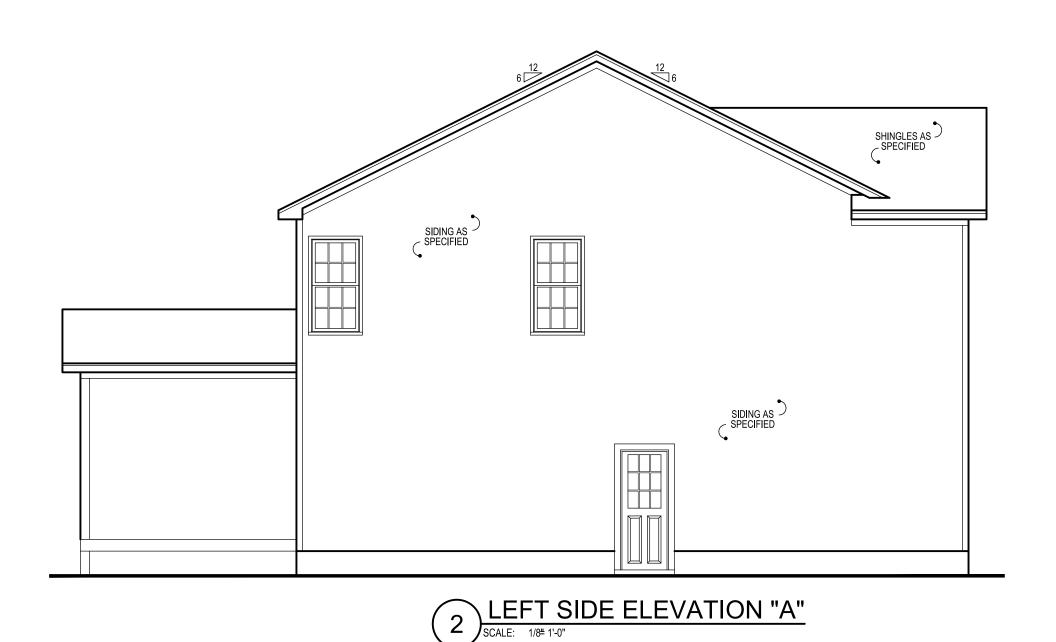
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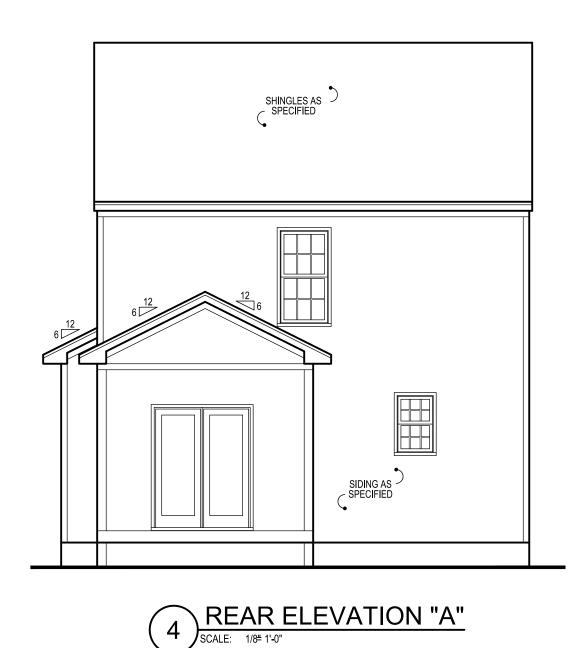


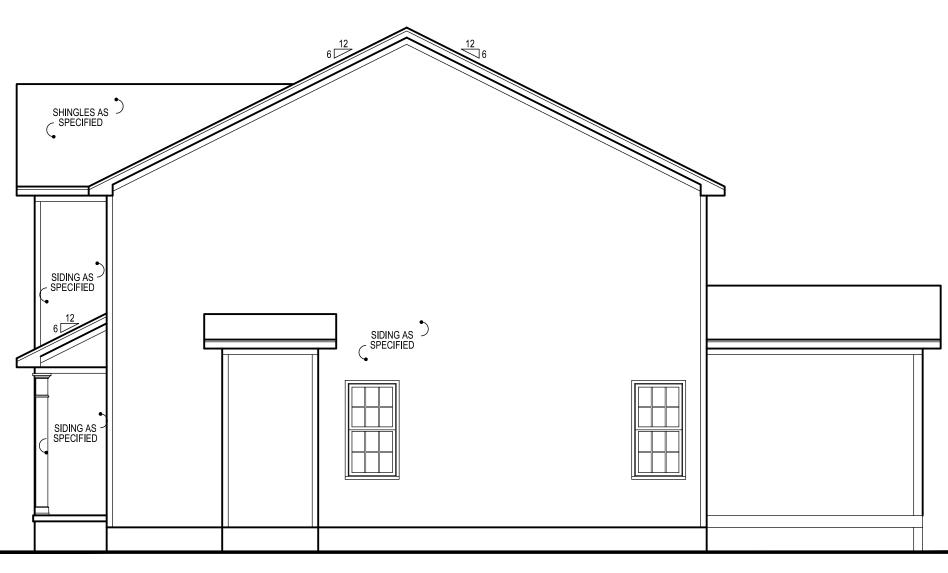
SECOND FLOOR PLAN

A-2Sheet No. Of









RIGHT SIDE ELEVATION "A"

SCALE: 1/8[±] 1'-0"

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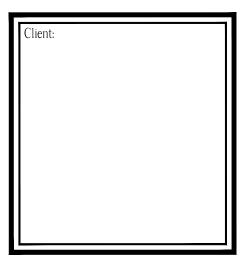
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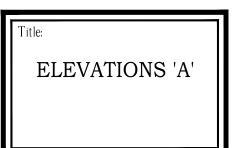
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Revision No. Revision Date	_ _ _

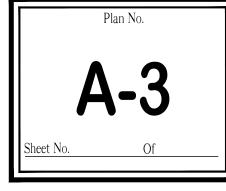
Designer Signature

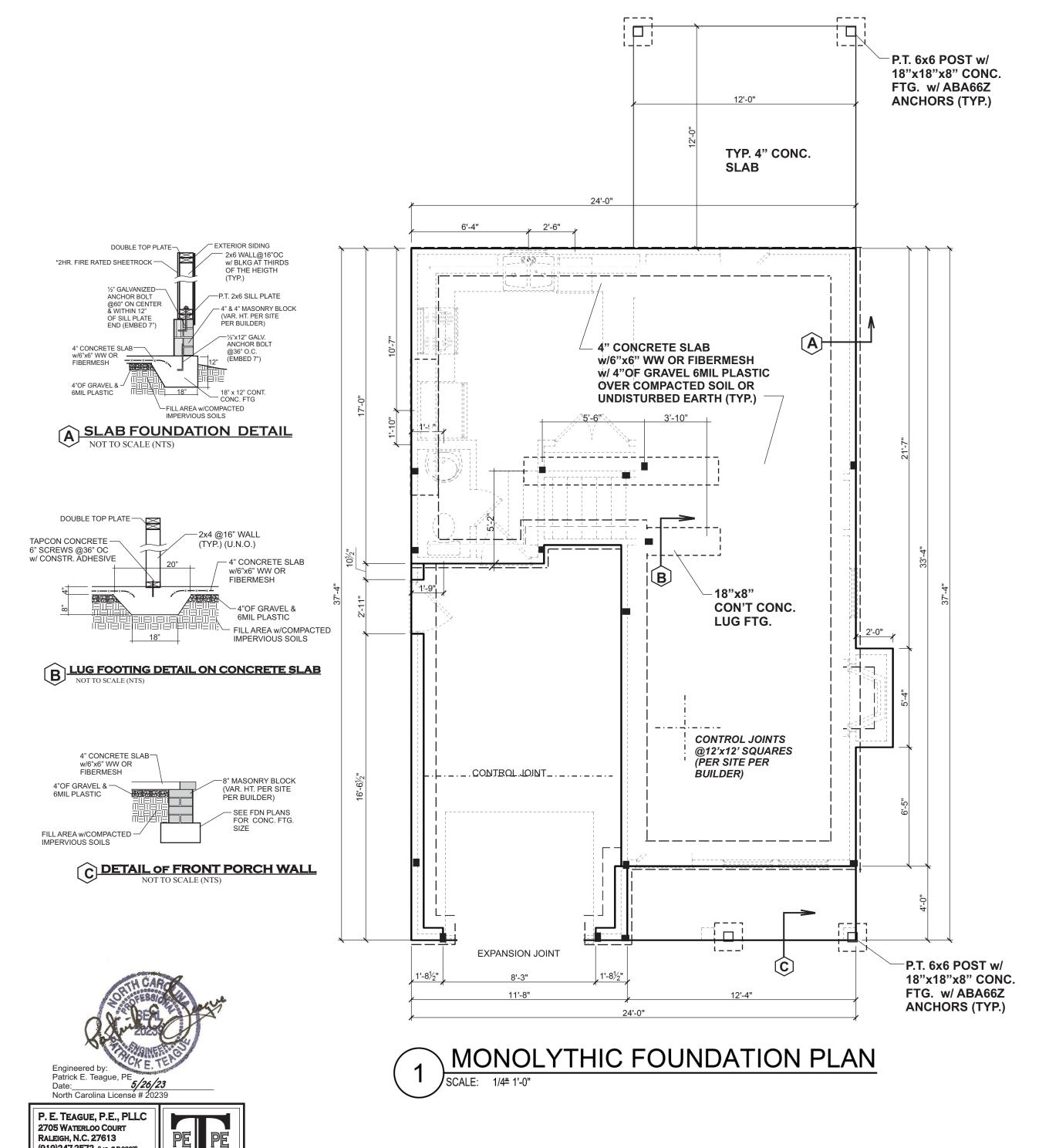
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RALEIGH, N.C. 27613

(919)247-2572 (Lic. # P0207) PETEAGUE50@GMAIL.COM WWW.TEAGUEENGINEERING.COM

STRUCTURAL NOTES:

- 1. Framing lumber shall be SYP or #2 SPF (modulus of of elasticity 1,100,000 psi, fb 950). All beams & treated lumber to be #2 SYP, E=1,600,000, fb=1100 min. Studs min.#2 or stud grade.
- 2. Use hangers for all beam to beam connections Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
- 3. Structural members fastening to conform to Table R602.3(1) and (2).
- 4. Roof Framing Notes:
 - a. Dbl Hips may be spliced with a min, 6'-0" overlap at center. No valley splices b. Use 2x10 or fir down rafters for vaulted areas c. Attach each vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved
- equal or 6" SDWC's. 5. All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IBC.
- 6. Structural Engineer is not responsible for and will not control of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
- 7. Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract document.
- 8. Use Method #3 for Structural Sheathing; "Accepted Engineer's Practice"

FRAMING NOTES:

1. Design Loads (R301.5)	Live Loads (PSF)	Dead (PSF)
Rooms not for Sleeping	40	10
Sleeping Rooms	30	10
Attic w/Permanent Stairs	40	10
Attic w/o Permanent Stairs	20	10
Attic w/o Storage	10	10
Stairs	40	_
Exterior Balconies	60	10
Decks	40	10
Guardrails & Handrails	200	_
Passenger Vehicle Garages	s 50	10
Fire Escapes	40	10
Snow	20	_
Wind Load: (Refer to Table	R301.2.4)	
Verify Zone before Construc	ction	

- Wake County 115 mph 2. Wall Bracing: Braced wall panels shall be constructed according to section R602.103. The wall structural paneling shall comply with Table R602.103. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be satisfied per method 3 by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific braced wall detail shall be installed as specified.
- 3. All framing lumber shall be SPF#2 (Fb=875 psi) unless otherwise noted (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.)
- 4. All exterior headers to be (2)2x10 spf. u.n.o w/ dbl. Jacks for all openings >5'-0" 5. All interior bearing headers to be (2)2x10 u.n.o. w/ dbl. jacks for all openings >4'-6", use (2)2x8
- w/ dbl. Jacks for all openings >3'-0" u.n.o.
 6. All interior non-bearing headers to be min. (2)2x4 flat u.n.o.
- 7. Fireblock to conform with R602.8

FOUNDATION NOTES:

- 1. Deck posts min. 4'-0" above grade are to be knee or diagonally braced per Appendix M. fastening to house will be by nailer with 5/8" galvanized bolts @ 20" o.c. and 12d hot dipped galv. @ 42"o.c.
- 2. Corners shall be braced with one of the approved methods as outlined in R602.10.3.
- 3. Structural members fastening to conform to Table R602.3(1) and (2). 4. Girders and piers shall bear on center 1/3 of
- pier and footing, respectively. 5. 2018 NC State Residential Building Code apply
- to the construction of footings. 6. Typical lug footing to be 18"x 8"deep, (UNO)
- 7. Pressure treated wood shall be installed for exterior use. 8. Hanger Schedule (Simpson hangers) for
- beam to beam connections (UNO) a. (2)2x10's: LUS210-2 b. (3)2x10's: LUS210-3
- c. (2)9-1/4 LVL's: HUS410 9. Concrete shall have min. 28 day strength of 3000 psi. and max. Slump of 5 inches unless noted otherwise (UNO). Air entrained per Table 4022. All concrete shall be proportioned, mixed, handled, sampled, tested, and placed in accordance with ACI current standards. All samples for pumping shall be taken from the exit
- 10. Allowable soil bearing pressure assumed to be 2000 psf. The contractor must contact Geotechnical Engineer & the Structural Engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided adequate drainage, and shall be graded so as to drain surface water away from foundation walls

THIS PLAN DESIGNED UNDER NORTH CAROLINA **RESIDENTIAL CODE 2018 EDITION**

HOUSE DESIGNED FOR 115 MPH, EXPOSURE B

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'-0" ON CENTER & WITHIN 12" OF ALL PLATE SPLICES.

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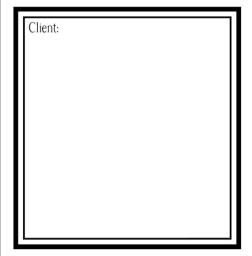
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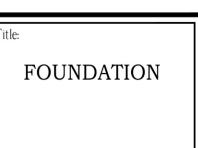
Drawn By: RW	/В
Checked By: RW	/B
Date: 5-24-2	2023
Revision No.	Revision Date

Designer Signature

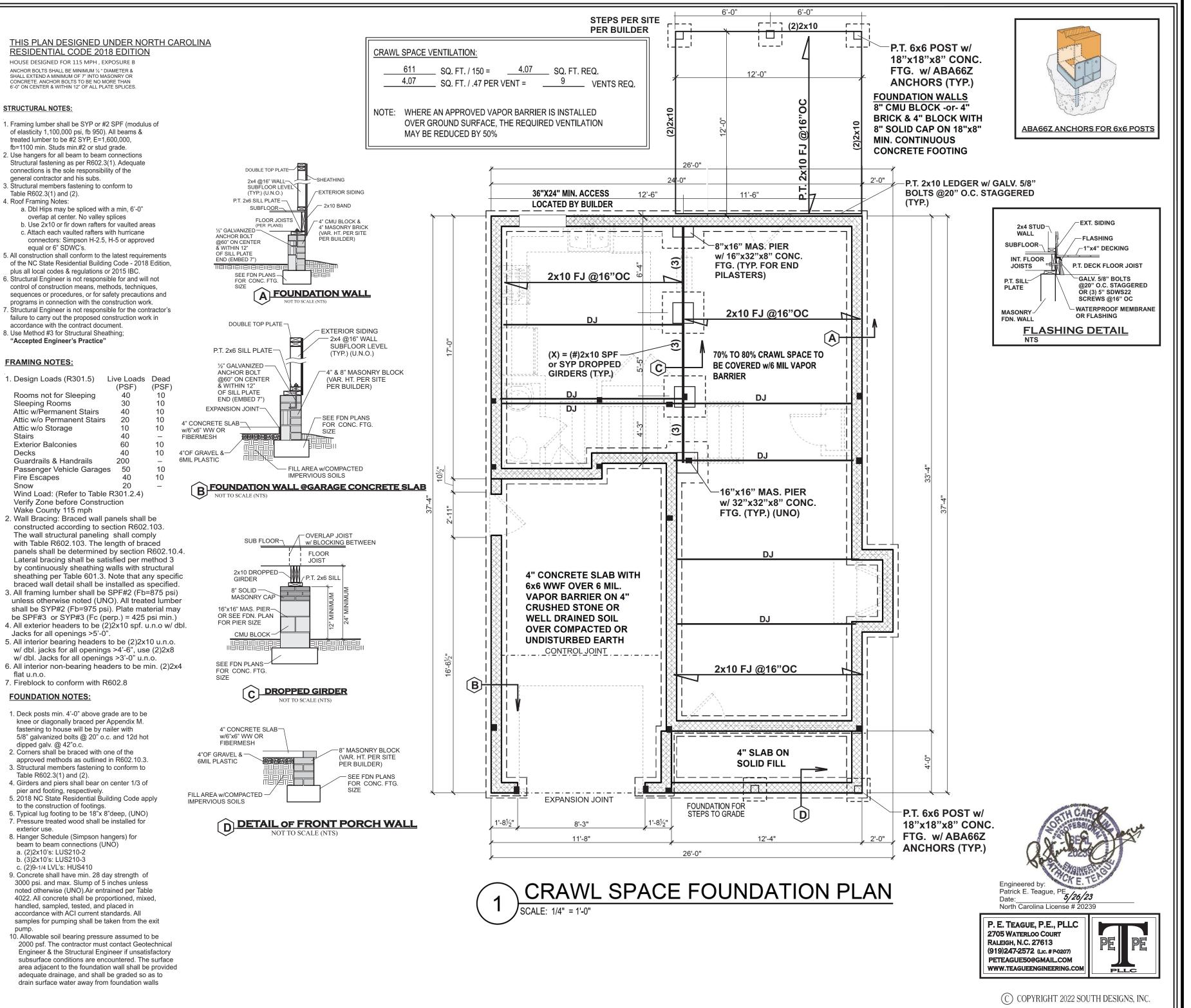
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PO24256RB Sheet No.





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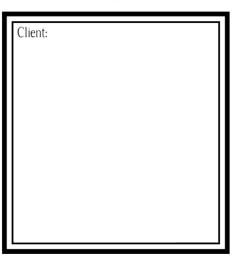
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Drawn By: RV Checked By: RV Date: 5-24-	VB
Revision No.	Revision Date

Designer Signature

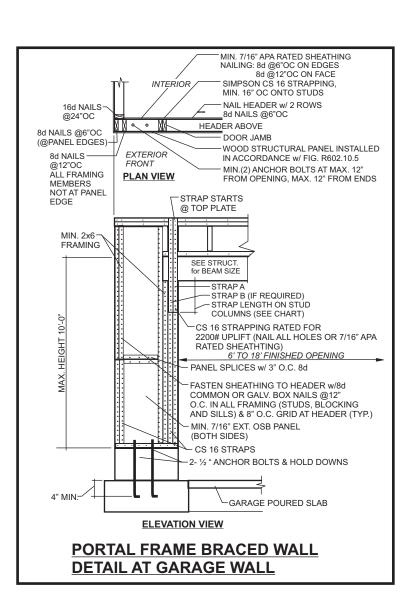
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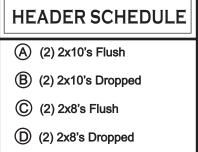
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FOUNDATION







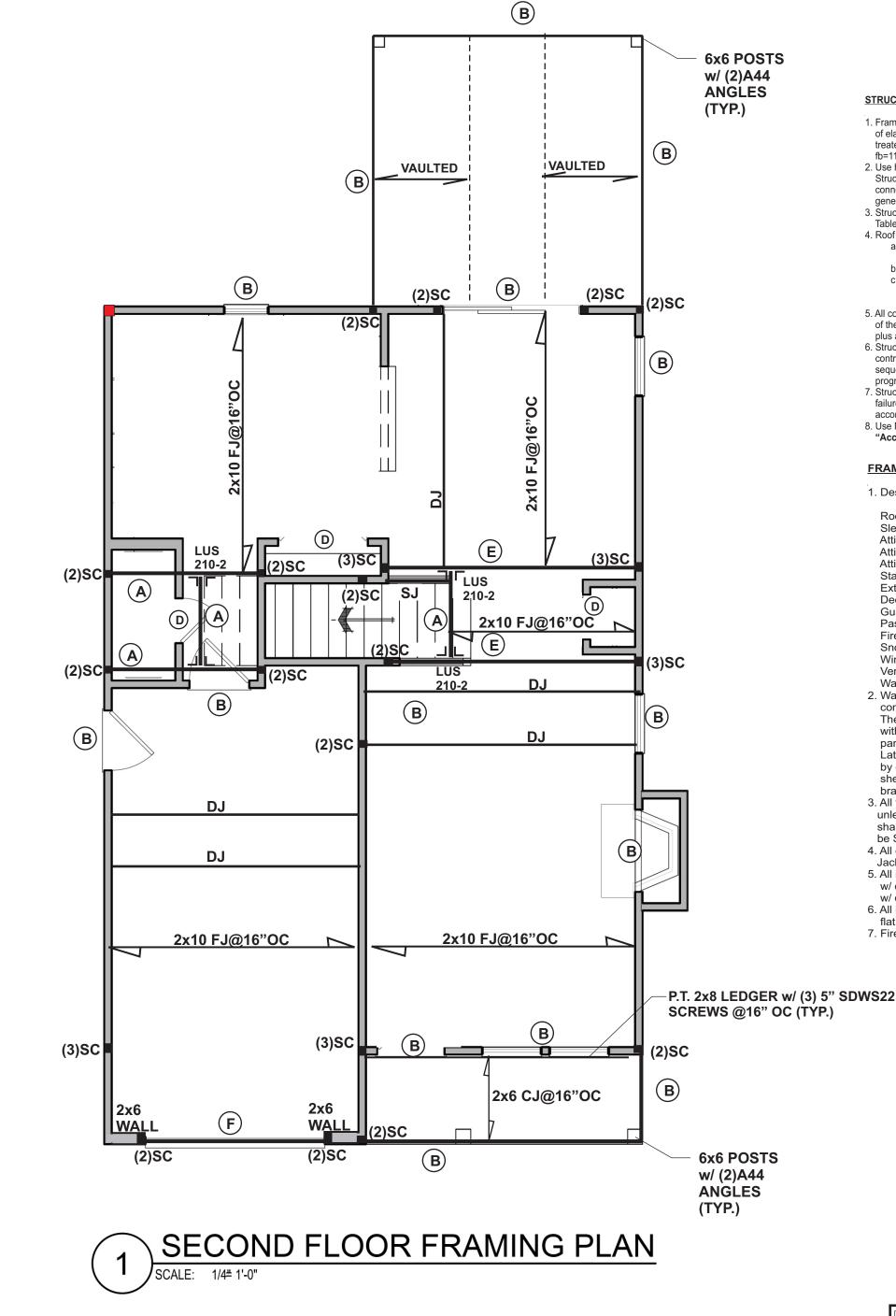
(E) (2) 9.25" LVL's Flush

(2) 9.25" LVL's Dropped

WALL BRACING NOTES:

WALL BRACING SHALL BE IN ACCORDANCE WITH SECTION R602.10.3 CONTINUOUS SHEATHING. BRACING METHOD CS-WSP SHALL BE USED IN ACCORDANCE WITH TABLE R602.10.1

- 1. THE REQUIRED LENGTH OF BRACING FOR EACH SIDE OF A RECTANGLE CIRCUMSCRIBED AROUND THE PLAN OR A PORTION OF THE PLAN AT EACH STORY LEVEL SHALL BE IN ACCORDANCE WITH TABLE R602.10.3 AND FIGURE R602.10.3(1). UNLESS NOTED OTHERWISE, THE ENTIRE STRUCTURE IS ASSUMED TO CIRCUMSCRIBED WITHIN A SINGLE RECTANGLE.
- 2. MINIMUM PANEL WIDTH IS 24". SEE SECTION R602.10.3 FOR ADDITIONAL INFORMATION. CONNECTION CRITERIA SHALL BE IN ACCORDANCE WITH TABLE R602.10.1.
- 3. PORTAL FRAME CONSTRUCTION SHALL BE IN ACCORDANCE WITH FIGURE R602.10.1.
- 4. HOLD DOWN DEVICE SHALL BE AS FOLLOWS:
 SIMPSON LSTA24 STRAP (OR EQUIVALENT) BETWEEN FLOORS EXTENDING
 FROM BOTTOM OF FLOOR BAND AND UP THE STUDS PER SITE PER BUILDER
 SIMPSON HD3B HOLD DOWN (OR EQUIVALENT) WHERE REQUIRED TO
 CONNECT DIRECTLY TO FOUNDATION.



STRUCTURAL NOTES:

- Framing lumber shall be SYP or #2 SPF (modulus of of elasticity 1,100,000 psi, fb 950). All beams & treated lumber to be #2 SYP, E=1,600,000, fb=1100 min. Studs min.#2 or stud grade.
- Use hangers for all beam to beam connections Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
 Structural members fastening to conform to
- Table R602.3(1) and (2).
 4. Roof Framing Notes:
- a. Dbl Hips may be spliced with a min, 6'-0" overlap at center. No valley splices
- b. Use 2x10 or fir down rafters for vaulted areas
 c. Attach each vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved equal or 6" SDWC's.
- 5. All construction shall conform to the latest requirements
 of the NC State Residential Building Code 2018 Edition,
 plus all local codes & regulations or 2015 IBC.
 6. Structural Engineer is not responsible for and will not
- sequences or procedures, or for safety precautions and programs in connection with the construction work.

 7. Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in

control of construction means, methods, techniques,

accordance with the contract document.

8. Use Method #3 for Structural Sheathing;
"Accepted Engineer's Practice"

FRAMING NOTES:

1. Design Loads (R301.5) L	ive Loads	Dead
	(PSF)	(PSF
Rooms not for Sleeping	40	10
Sleeping Rooms	30	10
Attic w/Permanent Stairs	40	10
Attic w/o Permanent Stairs	20	10
Attic w/o Storage	10	10
Stairs	40	_
Exterior Balconies	60	10
Decks	40	10
Guardrails & Handrails	200	_
Passenger Vehicle Garages	50	10
Fire Escapes	40	10
Snow	20	_
Wind Load: (Refer to Table I	R301.2.4)	
Verify Zone before Construc	tion	
Wake County 115 mph		

2. Wall Bracing: Braced wall panels shall be constructed according to section R602.103. The wall structural paneling shall comply with Table R602.103. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be satisfied per method 3 by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific braced wall detail shall be installed as specified.

- 3. All framing lumber shall be SPF#2 (Fb=875 psi) unless otherwise noted (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.)
- 4. All exterior headers to be (2)2x10 spf. u.n.o w/ dbl. Jacks for all openings >5'-0".
 5. All interior bearing headers to be (2)2x10 u.n.o.
- w/ dbl. jacks for all openings >4'-6", use (2)2x8 w/ dbl. Jacks for all openings >3'-0" u.n.o.
 6. All interior non-bearing headers to be min. (2)2x4
- flat u.n.o.
 7. Fireblock to conform with R602.8

Engineered by:
Patrick E. Teague, PE
Date:
North Carolina License # 20239

P. E. TEAGUE, P.E., PLLC 2705 WATERLOO COURT RALEIGH, N.C. 27613 (919)247-2572 (LIC. # P0207) PETEAGUE50@GMAIL.COM WWW.TEAGUEENGINEERING.COM



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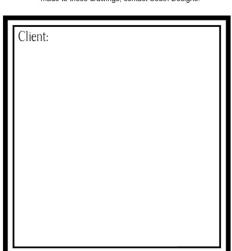
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Revision Date

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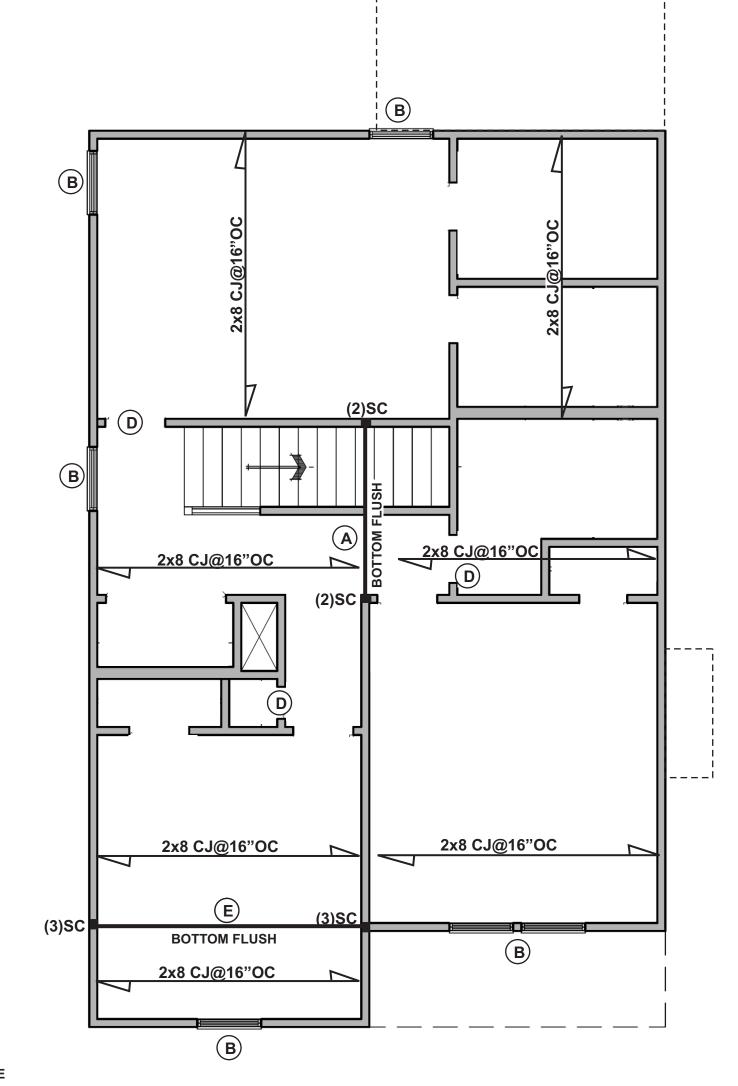


Title:

ELEVATIONS 'B'

2nd FLOOR FRAMING





WALL BRACING NOTES:

WALL BRACING SHALL BE IN ACCORDANCE WITH SECTION R602.10.3
CONTINUOUS SHEATHING. BRACING METHOD CS-WSP SHALL BE USED
IN ACCORDANCE WITH TABLE R602.10.1

HEADER SCHEDULE

(2) 2x10's Flush

© (2) 2x8's Flush

(2) 2x8's Dropped

(2) 9.25" LVL's Flush

(2) 9.25" LVL's Dropped

B (2) 2x10's Dropped

- 1. THE REQUIRED LENGTH OF BRACING FOR EACH SIDE OF A RECTANGLE CIRCUMSCRIBED AROUND THE PLAN OR A PORTION OF THE PLAN AT EACH STORY LEVEL SHALL BE IN ACCORDANCE WITH TABLE R602.10.3 AND FIGURE R602.10.3(1). UNLESS NOTED OTHERWISE, THE ENTIRE STRUCTURE IS ASSUMED TO CIRCUMSCRIBED WITHIN A SINGLE RECTANGLE.
- 2. MINIMUM PANEL WIDTH IS 24". SEE SECTION R602.10.3 FOR ADDITIONAL INFORMATION. CONNECTION CRITERIA SHALL BE IN ACCORDANCE WITH TABLE R602.10.1.
- 3. PORTAL FRAME CONSTRUCTION SHALL BE IN ACCORDANCE WITH FIGURE R602.10.1.
- 4. HOLD DOWN DEVICE SHALL BE AS FOLLOWS:
 SIMPSON LSTA24 STRAP (OR EQUIVALENT) BETWEEN FLOORS EXTENDING
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 SIMPSON HD3B HOLD DOWN (OR EQUIVALENT) WHERE REQUIRED TO
 CONNECT DIRECTLY TO FOUNDATION.

CEILING FRAMING PLAN SCALE: 1/4# 1'-0"

STRUCTURAL NOTES:

- 1. Framing lumber shall be SYP or #2 SPF (modulus of of elasticity 1,100,000 psi, fb 950). All beams & treated lumber to be #2 SYP, E=1,600,000, fb=1100 min. Studs min.#2 or stud grade.
- Use hangers for all beam to beam connections Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
- 3. Structural members fastening to conform to Table R602.3(1) and (2).
- 4. Roof Framing Notes:
- a. Dbl Hips may be spliced with a min, 6'-0" overlap at center. No valley splices
- b. Use 2x10 or fir down rafters for vaulted areas
 c. Attach each vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved equal or 6" SDWC's.
- All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IBC.
 Structural Engineer is not responsible for and will not
- control of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
- Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract document.
- 8. Use Method #3 for Structural Sheathing; "Accepted Engineer's Practice"

FRAMING NOTES:

1 Design Leads (P201 F)	ive Loads	Dead
1. Design Loads (R301.5) L	(PSF)	(PSF)
Rooms not for Sleeping	40	10
Sleeping Rooms	30	10
Attic w/Permanent Stairs	40	10
Attic w/o Permanent Stairs	20	10
Attic w/o Storage	10	10
Stairs	40	_
Exterior Balconies	60	10
Decks	40	10
Guardrails & Handrails	200	_
Passenger Vehicle Garages	50	10
Fire Escapes	40	10
Snow	20	_
Wind Load: (Refer to Table F	R301.2.4)	
Verify Zone before Construct	tion	
Wake County 115 mph		

- 2. Wall Bracing: Braced wall panels shall be constructed according to section R602.103. The wall structural paneling shall comply with Table R602.103. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be satisfied per method 3 by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific braced wall detail shall be installed as specified.
- All framing lumber shall be SPF#2 (Fb=875 psi) unless otherwise noted (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.)
 All exterior headers to be (2)2x10 spf. u.n.o w/ dbl.
- Jacks for all openings >5'-0".

 5. All interior bearing headers to be (2)2x10 u.n.o. w/ dbl. jacks for all openings >4'-6", use (2)2x8 w/ dbl. lacks for all openings >3' 0" u.n.o.
- w/ dbl. Jacks for all openings >3'-0" u.n.o.

 6. All interior non-bearing headers to be min. (2)2x4
- flat u.n.o.
 7. Fireblock to conform with R602.8



Drawn By: RWB

Checked By: RWB

Date: 5-24-2023

Revision No. Revision Date

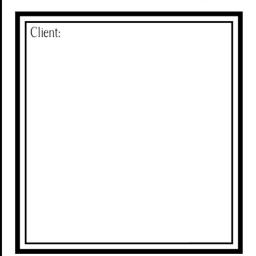
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Title:

CEILING FRAMING

Plan No.

S3

PO24256RB

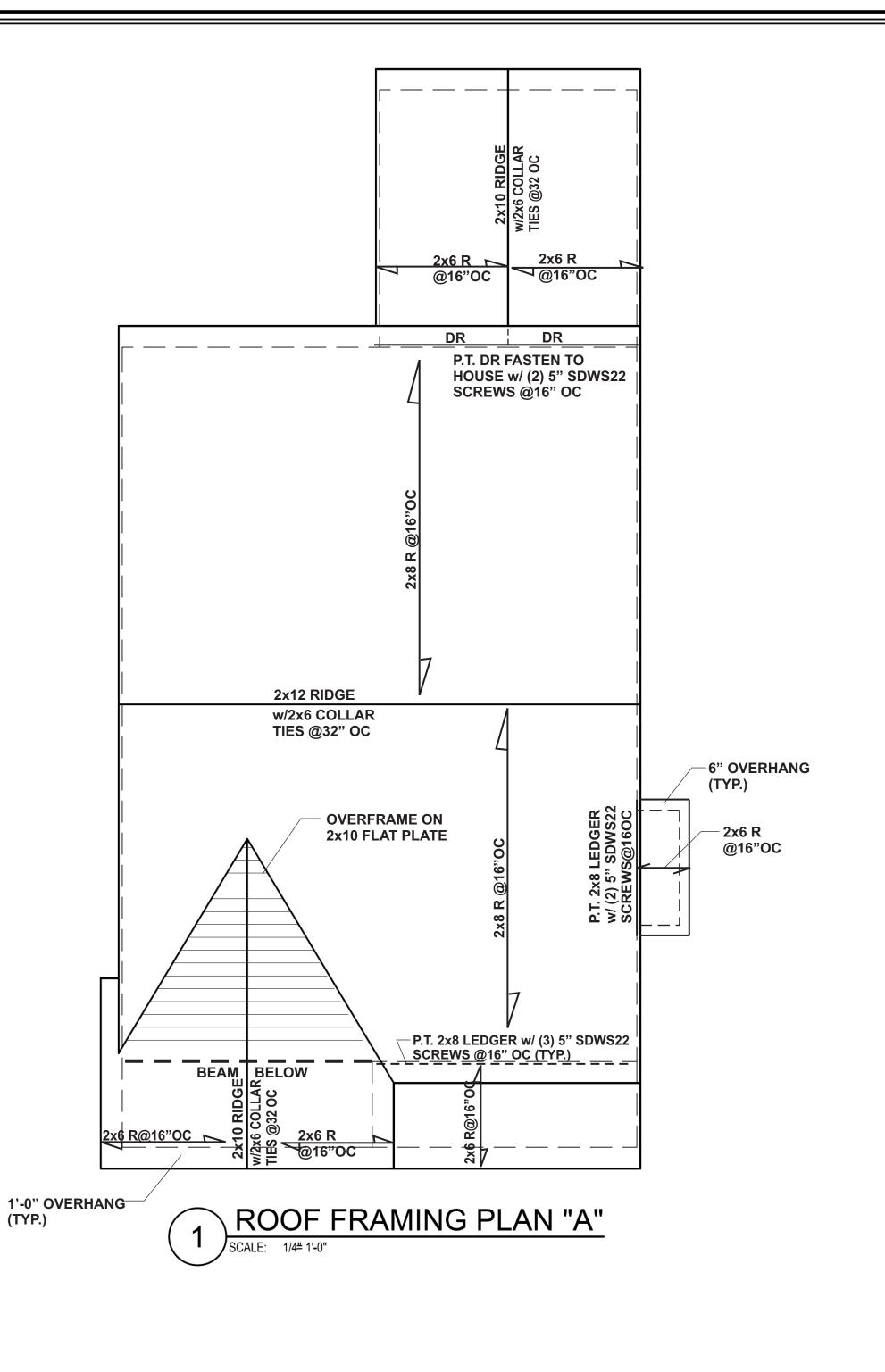
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STRUCTURAL NOTES:

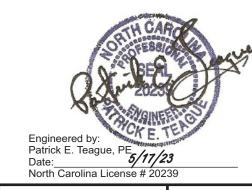
- 1. Framing lumber shall be SYP or #2 SPF (modulus of of elasticity 1,100,000 psi, fb 950). All beams & treated lumber to be #2 SYP, E=1,600,000, fb=1100 min. Studs min.#2 or stud grade.
- 2. Use hangers for all beam to beam connections Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
- 3. Structural members fastening to conform to Table R602.3(1) and (2).
- 4. Roof Framing Notes:
- a. Dbl Hips may be spliced with a min, 6'-0" overlap at center. No valley splices
- b. Use 2x10 or fir down rafters for vaulted areas c. Attach each vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved equal or 6" SDWC's.
- 5. All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IBC. 6. Structural Engineer is not responsible for and will not
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- failure to carry out the proposed construction work in accordance with the contract document.
- 8. Use Method #3 for Structural Sheathing; "Accepted Engineer's Practice"

FRAMING NOTES:

1. Design Loads (R301.5) L	ive Loads	Dead
	(PSF)	(PSF
Rooms not for Sleeping	40	10
Sleeping Rooms	30	10
Attic w/Permanent Stairs	40	10
Attic w/o Permanent Stairs	20	10
Attic w/o Storage	10	10
Stairs	40	_
Exterior Balconies	60	10
Decks	40	10
Guardrails & Handrails	200	_
Passenger Vehicle Garages	50	10
Fire Escapes	40	10
Snow	20	_
Wind Load: (Refer to Table F	301.2.4)	
Verify Zone before Construc	tion	
Wake County 115 mph		

- 2. Wall Bracing: Braced wall panels shall be constructed according to section R602.103.
 The wall structural paneling shall comply with Table R602.103. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be satisfied per method 3 by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific braced wall detail shall be installed as specified.

 3. All framing lumber shall be SPF#2 (Fb=875 psi)
- unless otherwise noted (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.) 4. All exterior headers to be (2)2x10 spf. u.n.o w/ dbl.
- Jacks for all openings >5'-0". 5. All interior bearing headers to be (2)2x10 u.n.o.
- w/ dbl. jacks for all openings >4'-6", use (2)2x8 w/ dbl. Jacks for all openings >3'-0" u.n.o. 6. All interior non-bearing headers to be min. (2)2x4
- flat u.n.o. 7. Fireblock to conform with R602.8



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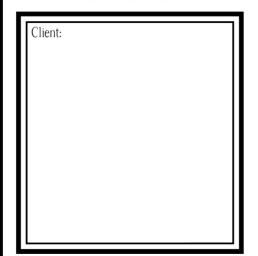
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<u>Date:</u> 5-24-	2023
Revision No.	Revision Date
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Designer Signature

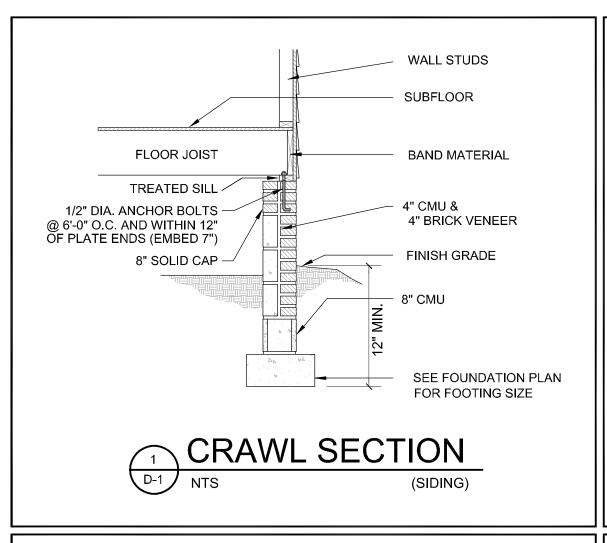
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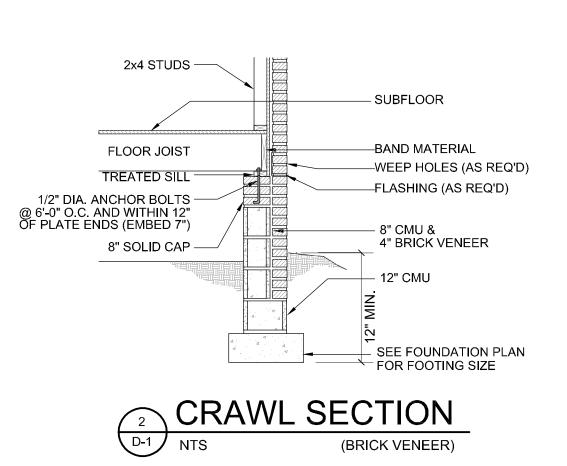
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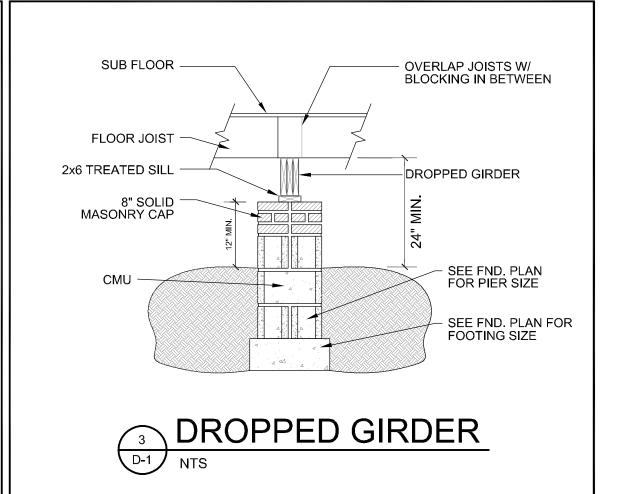


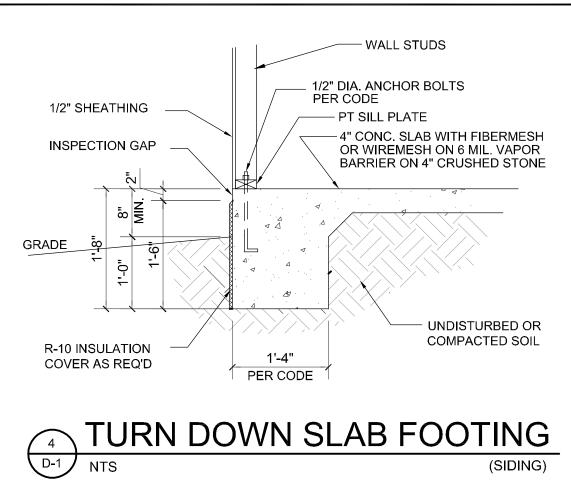
ROOF PLANS

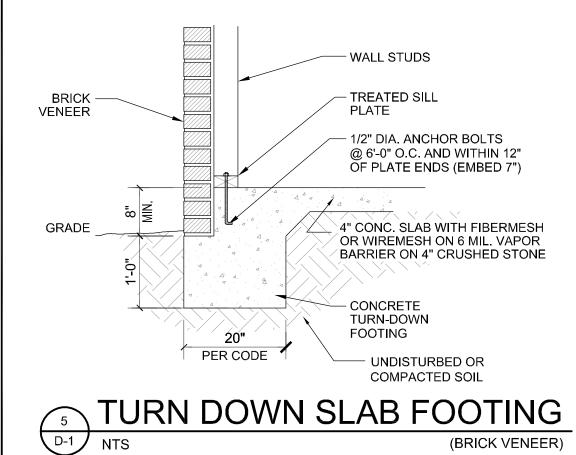


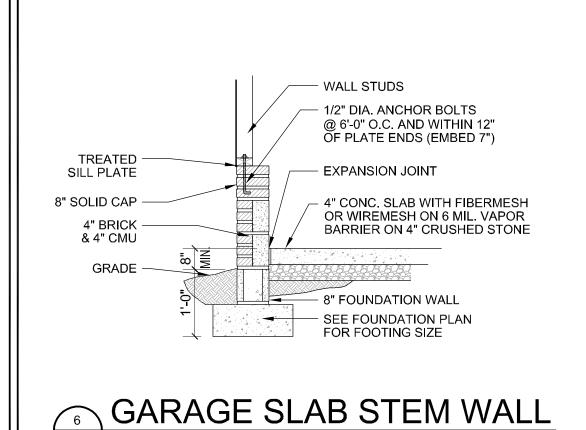


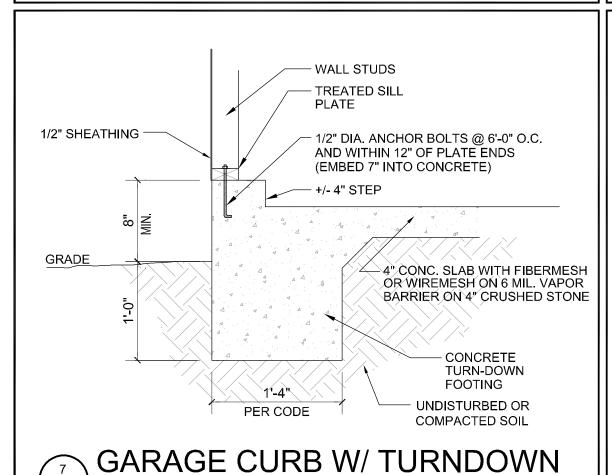


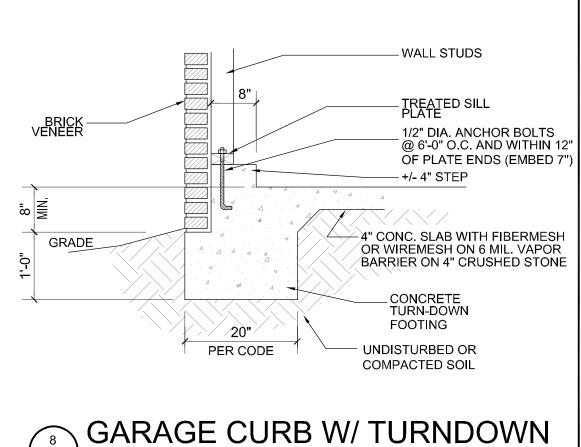


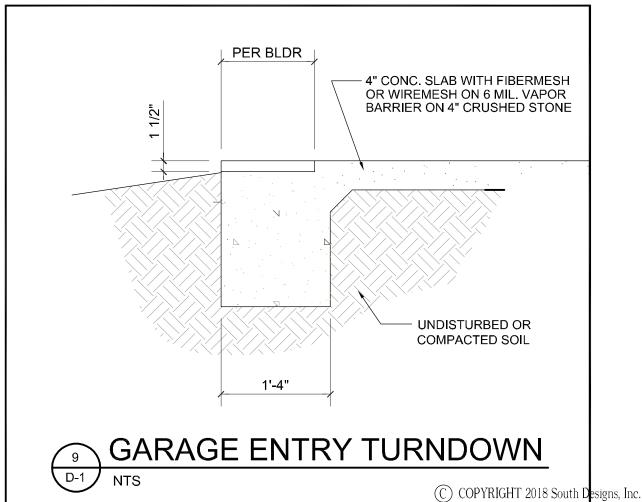














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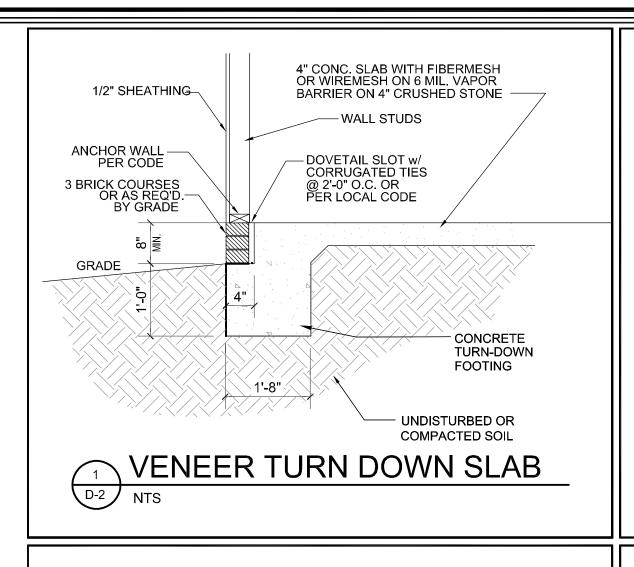
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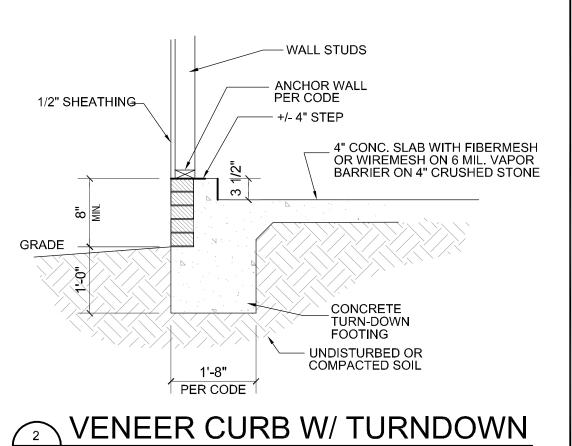
constructed from these plans. Contractor or builder

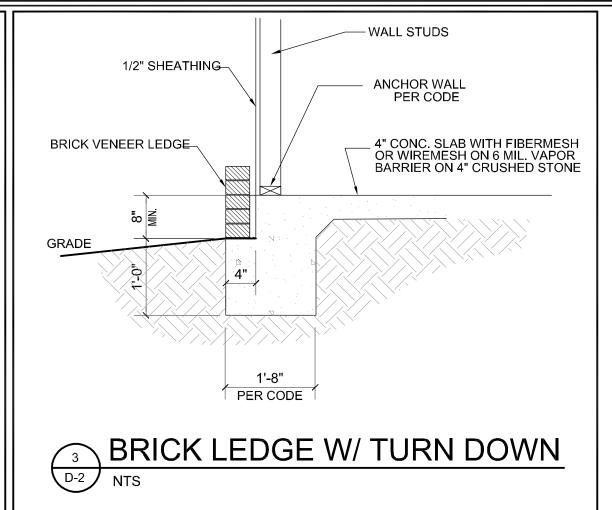
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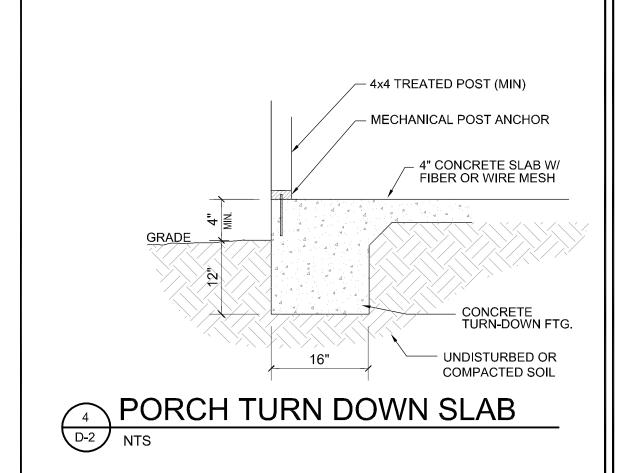
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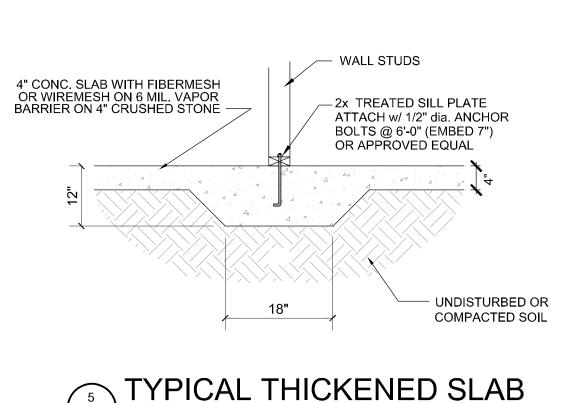
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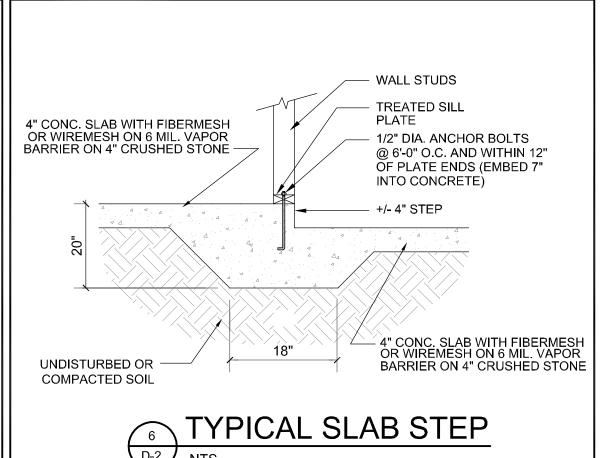


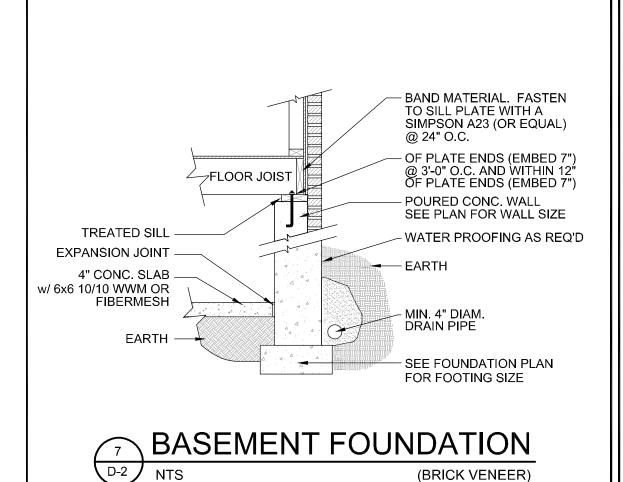


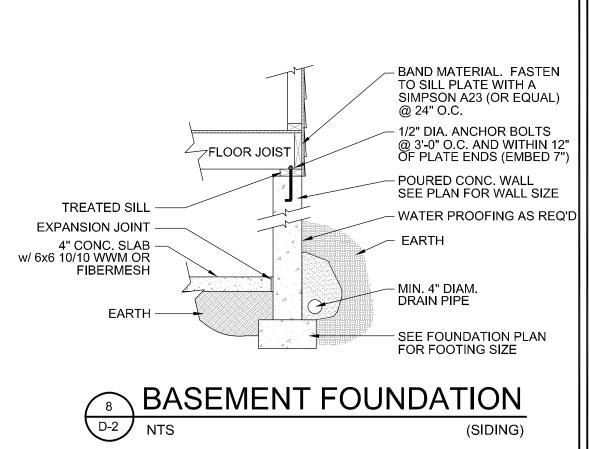


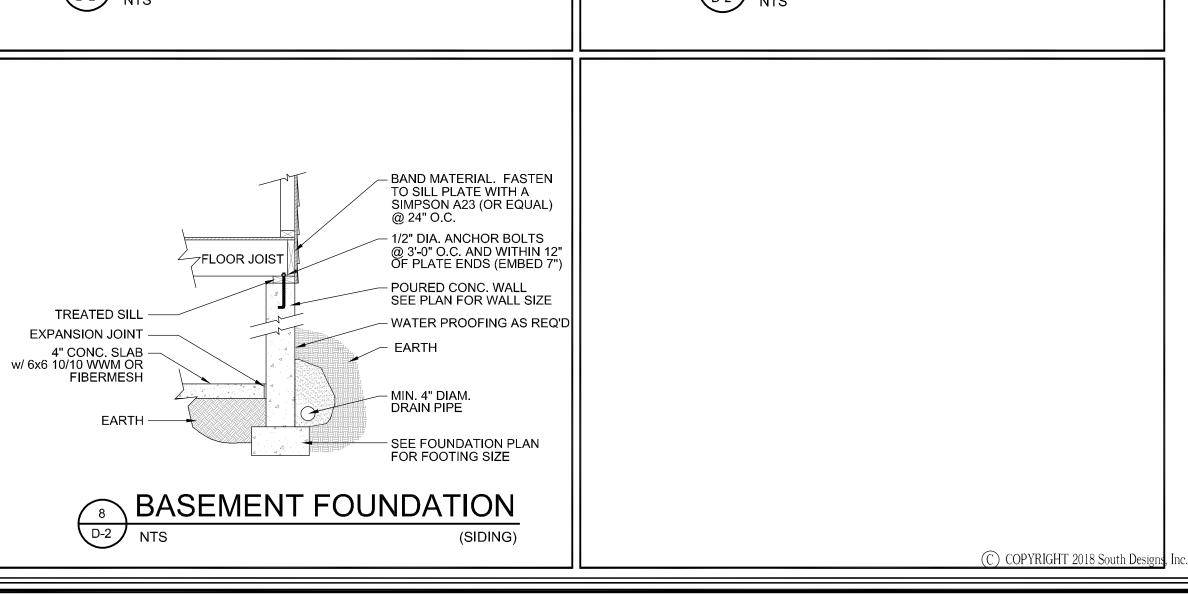














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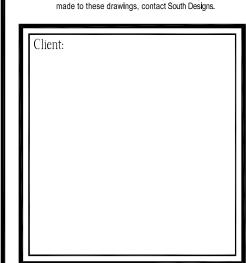
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Checked By:	
Date:	
Revision No.	Revision Date

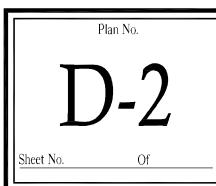
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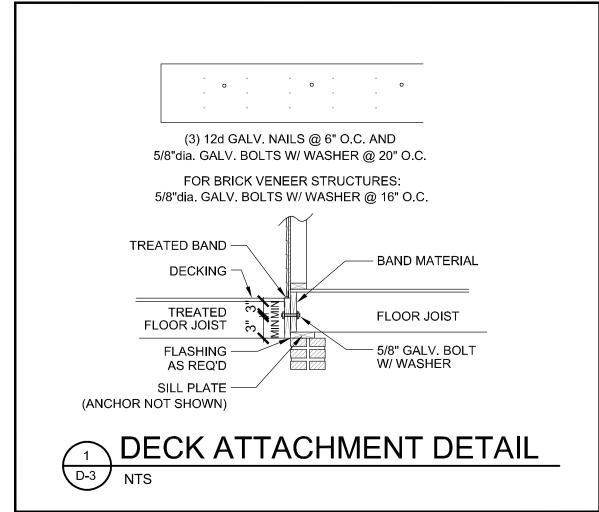
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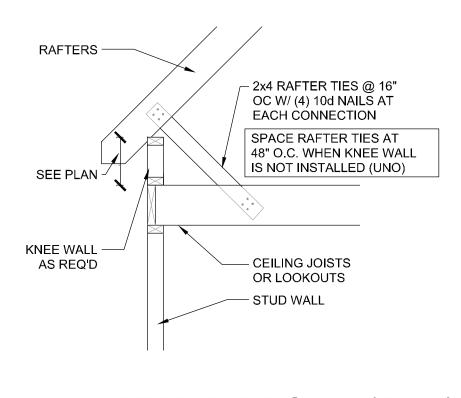
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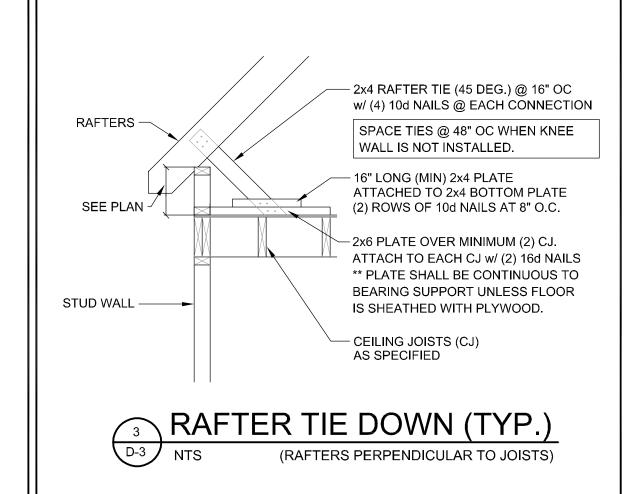
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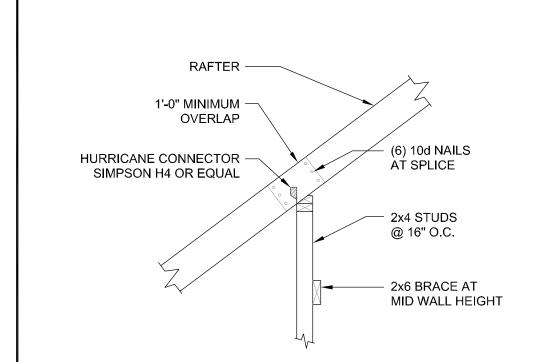




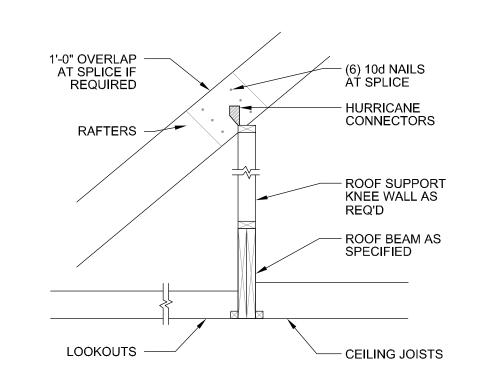




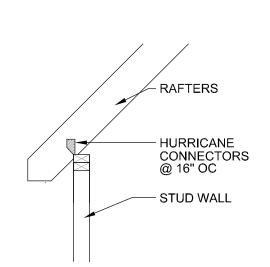




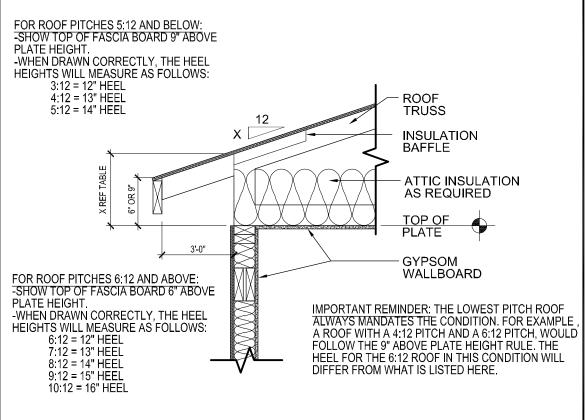




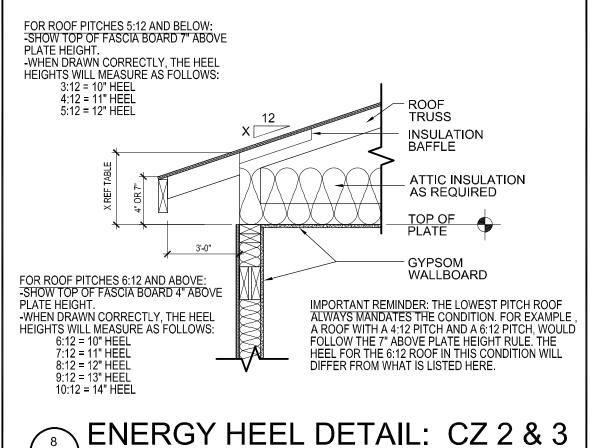




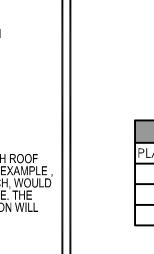


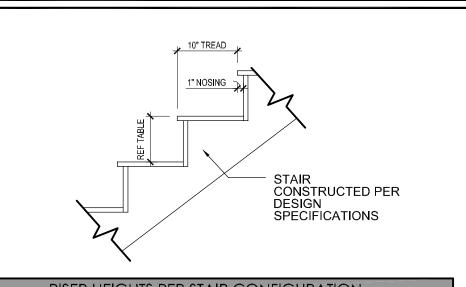






D-3





RISER HEIGHTS PER STAIR CONFIGURATION			
PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"



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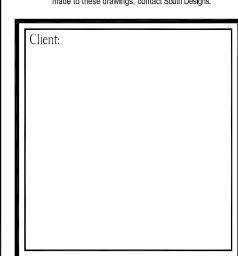
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Drawn By: Checked By:	
Date:	Revision Date

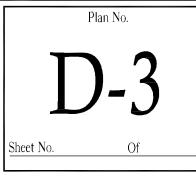
Designer Signature

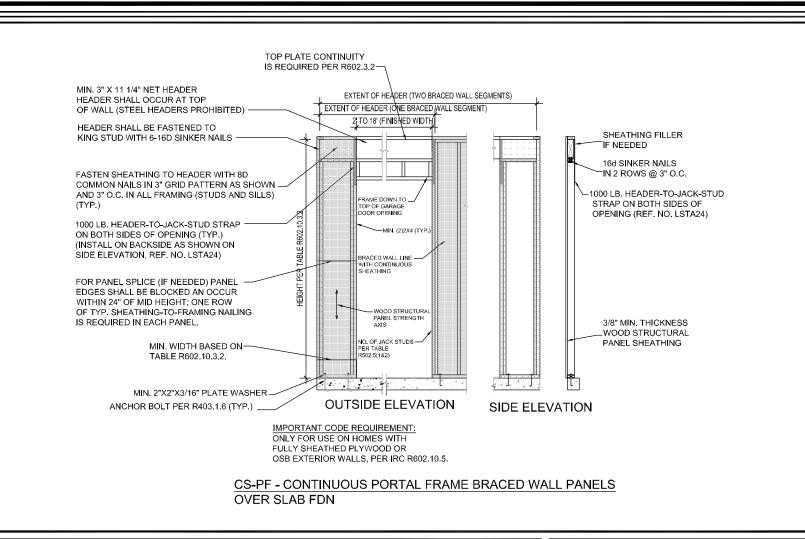
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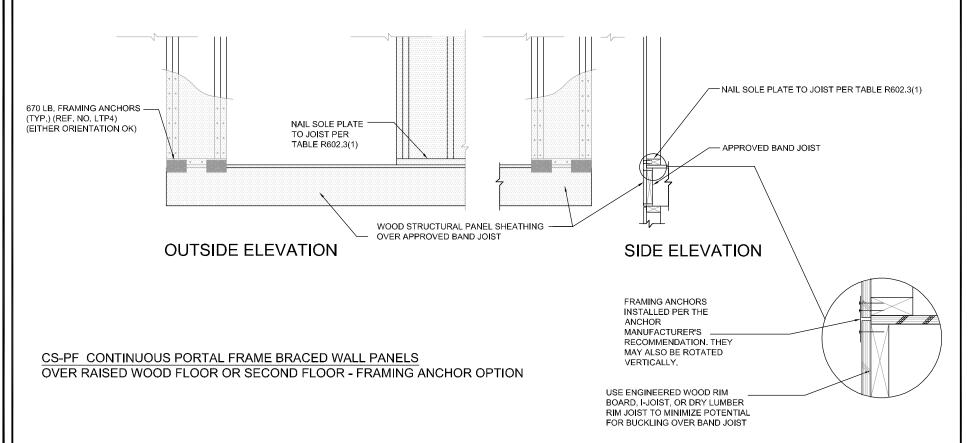
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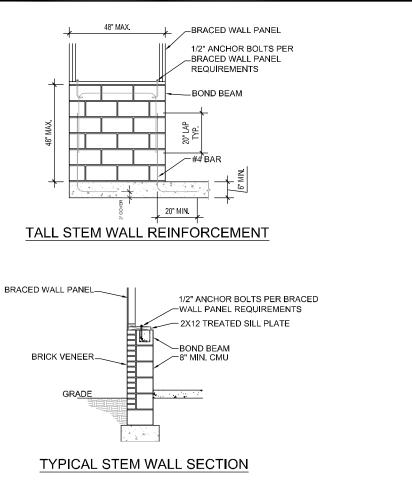


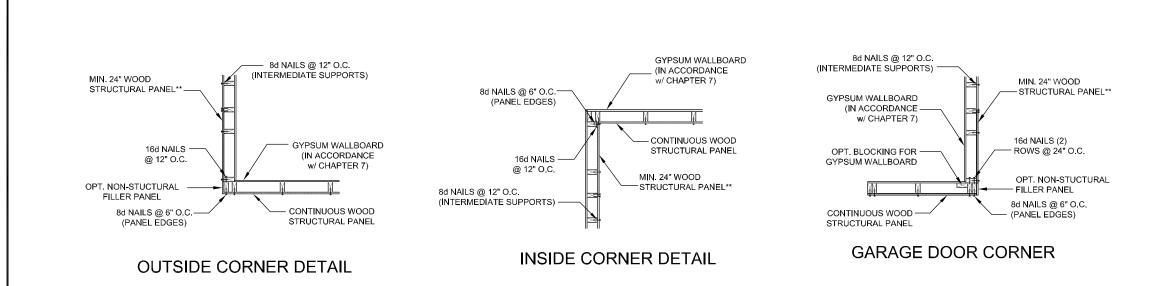
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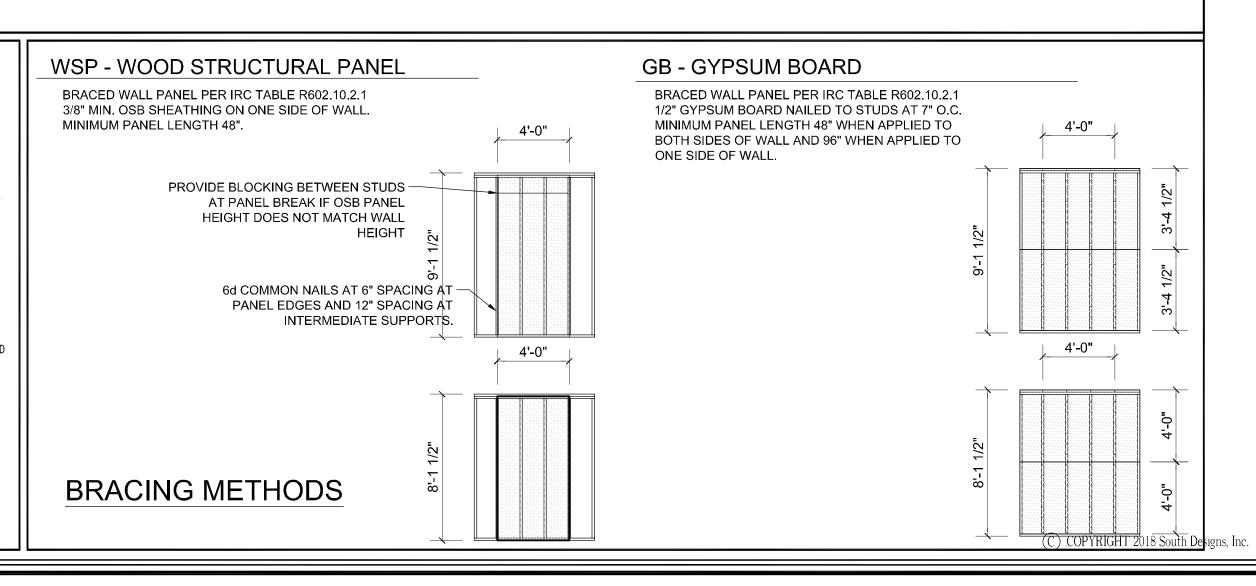


WALL CORNER DETAILS

BRACING NOTES

BRACED WALL CONSTRUCTION NOTES: 30' MAX MRH - 10 FT MAX WALL HEIGHT (EXCEPT ITEM 5)

- 1. ALL EXTERIOR WALLS ARE BRACED WALLS NOTATED EBW AND CONTINUOUSLY SHEATHED (EXTERIOR ONLY) WITH MIN. 7/16 OSB. MINIMUM WALL BRACED WALL PANEL LENGTH TO BE 12' PER LEVEL IN EACH DIRECTION U.N.O. W/ 6D COMMON NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE STUD SUPPORTS. PROVIDE BLOCKING BETWEEN STUDS AT PANEL BREAK IF OSB PANEL HEIGHT DOES NOT MATCH WALL HEIGHT (FIRST LEVEL SHEATHING TO LAP TREATED MUD-SILL PLATE).
- 2. ALL INTERIOR BRACED WALLS NOTATED IBW (IF USED) ARE TO BE BRACED USING DOUBLE SIDED GWB WITH A MINIMUM BRACED PANEL LENGTH OF 20' PER LEVEL U.N.O. W/ GWB NAILED TO STUDS AT 7" O.C.
- 3. MAXIMUM DISTANCE BETWEEN BRACED WALL LINES TO BE 60' U.N.O.
- 4. MAXIMUM OFFSET FOR BRACED WALL CONTINUITY TO BE 4' EACH AND 8' TOTAL PER BRACED WALL LINE (BWL)
- 5. BALLOON FRAMED AND TALL WALLS (OVER 10'-0") TO BE BRACED USING A COMBINATION OF INTERIOR SIMPSON
 WB126 STRAPPING (CROSS PATTERN FULLY NAILED) W/ ½" GWB AND EXTERIOR OSB SHEATHING WITH CONNECTIONS AS OUTLINED
 ABOVE.
- 6. PROVIDE 800# HOLD DOWN FASTENERS AT BUILDING CORNERS WHEN A MINIMUM 24" RETURN CANNOT BE MET. SEE R602.10 FOR HOLD DOWN ATTACHMENT.
- 7. FOR 120 MPH & 130 MPH PROVIDE BLOCKING PER R4506.2 IF LESS THAN 50% OF THE WALL LENGTH IS SHEATHED.





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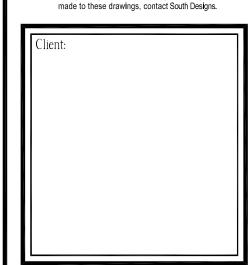
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Checked By:
Date: Revision No. Revision Date

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