#### **REVISION LOG**

REVISION:001

MADE 1-CAR GARAGE STANDARD
 MADE BEDROOM 4 OVER GARAGE STANDARD
 UPDATED BEDROOM 5 OPTION TO SHOW PRIVATE ENTRANCE TO BATH 3 AND RELOCATED PANTRY.

DATE: 2/1/2022

- ADDED WATER HEATER IN GARAGE

REVISION:001 DATE: 2/11/2022

- ENCLOSE ENTRY AREA FROM GARAGE AND ADD CASED OPENING.
- 2. ADD STORAGE/CUBBIES CLOSET ADJACENT TO PANTRY FOR BEDROOM 5 OPTION.
  3. CREATE ELEVATIONS C & D PER PHOTOS.

REVISION:003

- 1. CHANGE PLAN FROM SUNNYSIDE TO THE DURHAM
  2. UPDATE STORAGE ADJACENT PANTRY TO SHOW TO SHOW 4068 DBL DOOR FOR BEDROOM 5 OPTION.
  3. SHOW OPT. SERVICE DOOR IN 1—CAR GARAGE
  4. CHANGE CO HEIGHT TO 6'—8' IN ENCLOSED GARAGE ENTRY .
  5. CHANGE FRONT WALL TO 2X4 WALL INSTEAD OF 2X6.
  6. ADD OPTION DOOR TO BATH 2 FROM BEDROOM 2
  7. CHANGE SHED ROOF OVER TANDEM GARAGE TO 5:12 FROM 3:12 & CREATE NEW SECTION FOR THIS.
  8. FOR ELEVATIONS C & D, CHANGE FRONT PORCH ROOF PITCH TO 4:12
  9. CONSOLIDATE SHEETS. MOVE OPT. TANDEM GARAGE PARTIAL PLANS TO TO STANDARD SHEETS. (2.1, 2.2, 3.3)

REVISION:004 DATE: 05/10/2022

1. ADDED ELECTRICAL INFORMATION TO FLOOR PLANS.

REVISION:005

DATE: 06/09/2022

- 1. ADD AND DIMENSION WALL FOR CLEAN OUT ON FOUNDATION PLAN. NOTE ON

- FLOOR PLAN.

  ADD WATER SHUT OFF VALVE TO FOUNDATION AND FLOOR PLANS

  ADD HVAC COMPRESSOR

  DELETE PANTRY CHASE

  CHANGE PATIO SIZE TO 12X12

  CHANGE 4/0X6/8 CO TO A SRO

  FOR ELLEY 'D' ONLY, CENTER DOOR BETWEEN COLUMNS AND CENTER PORCH GABLE OVER THE DOOR.

  CORRECT BEDROOM NUMBERS

REVISION:006

DATE: 07/22/2022

- ADD STEM WALL SLAB FOUNDATION SHEETS.
   ADD STEM WALL ELEVATIONS

Lot 20 Duncan's Creek

275 Beacon HIII Road Lillington, NC 27546

# NC.



## The Durham - RH **ELEVATION 'D'**

/	ARCHITECTURAL DRAWINGS
Sheet No.	Sheet Description
0.0	Cover Sheet
1.2	Foundation (Slab)
1.3	Foundation (Stem Wall Slab)
2.1	First Floor Plan
2.2	Second Floor Plan
3.1	Front & Left Elevations (Slab)
3.1.1	Front & Left Elevations (Stem Wall)
3.2	Rear & Right Elevations (Slab)
3.2.1	Rear & Right Elevations (Stem Wall)
3.3	Optional Elevations (Slab)
3.3.1	Optional Elevations (Stem Wall)
3.4	Roof Plan
5.1	First Floor Electrical Plan
5.2	Second Floor Electrical Plan

#### **DESIGN CRITERIA:**

THIS PLAN IS TO BE BUILT IN CONFORMANCE WITH THE 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE

DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.

SQUARE FOOTAGE							
	ELEVAT	ION 'D'					
	UNHEATED	HEATED					
FIRST FLOOR	0	648					
SECOND FLOOR	0	823					
FRONT PORCH	72	0					
1-CAR GARAGE	260	0					
PATIO	112	0					
SUBTOTALS	444	1471					
TOTAL UNDER ROOF	19	15					
·							
OPTIONS .							
	UNHEATED S.F. HEATED S.F.						
TANDEM CARACE	+106	0					
OPT. BEDROOM 4	0	+106					
ODT BEDDOOM E		1100					



-			-	-				
	•		***	***				
_	2	3	4	2	9	7	8	

Sheet

- RH

THE DURHAM

DRAWN BY: South Designs ISSUE DATE: 7/1/2021 CURRENT REVISION DATE:

1/8" = 1'-0"

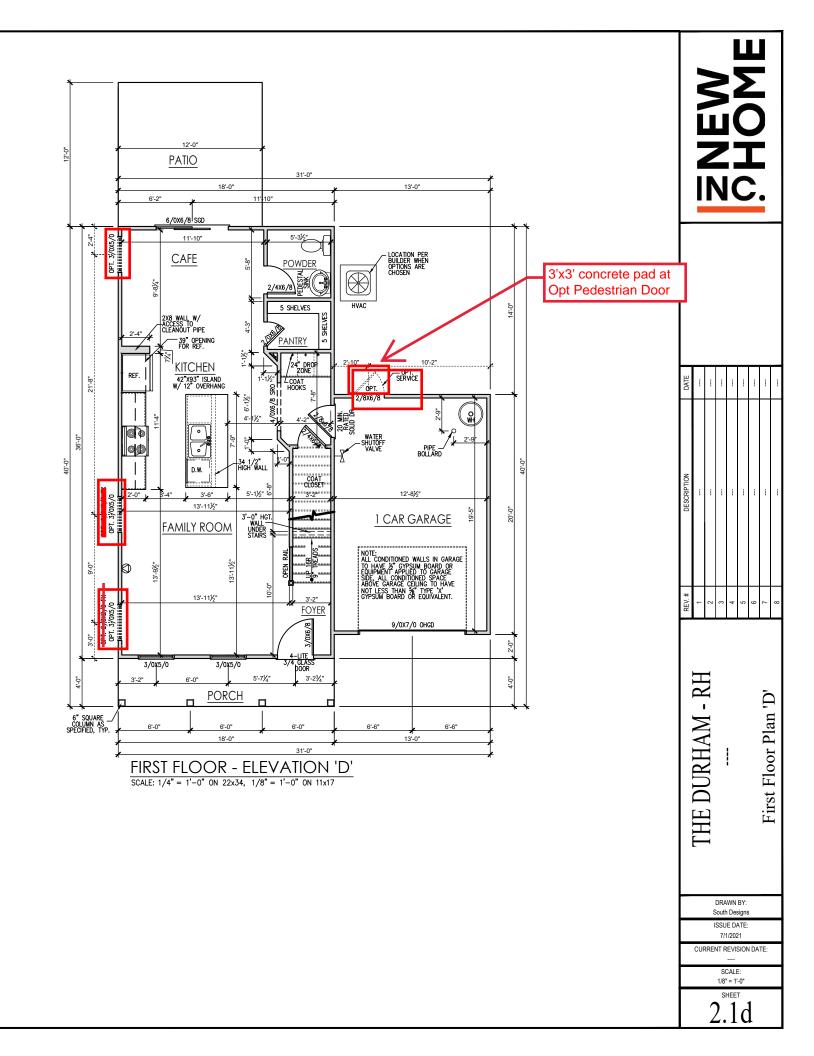
0.0d

<u>PATIO</u> 18'-0" 13'-0" 3' x 3' conc pad at Opt Pedestrian Door THE DURHAM - RH Slab Foundation 'D' 9'-3" M.O.  $\frac{\mathsf{SLAB}\;\mathsf{FOUNDATION}\;\mathsf{-}\;\mathsf{ELEVATION}\;\mathsf{'D'}}{\mathsf{SCALE:}\;1/4"=1'-0"\;\mathsf{ON}\;22x34,\;\;1/8"=1'-0"\;\mathsf{ON}\;11x17}$ DRAWN BY: South Designs ISSUE DATE: 7/1/2021 CURRENT REVISION DATE: SCALE: 1/8" = 1'-0" 1.2d

#### **General Floor Plan Notes**

General Floor Plan Notes shall apply unless noted otherwise on plan.

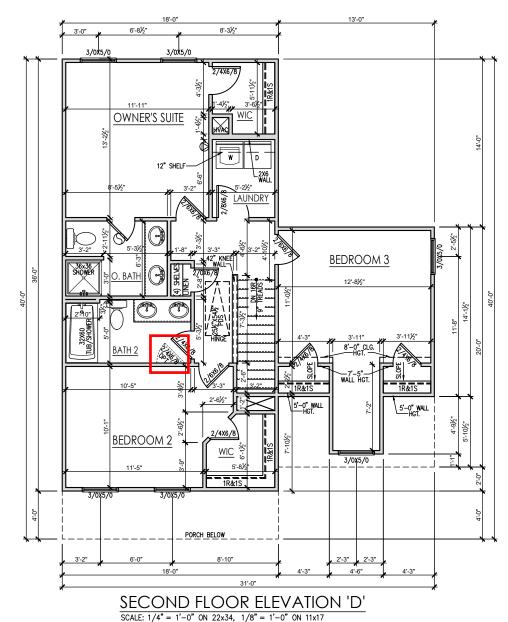
- Wall Heights: Typically 9'-0" at first floor, 8'-0" at second floor. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
- Wall Thickness is typically 3 1/2". 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
- 3. Typical header height shall be 6'-11" AFF at First Floor, and 6'-11" AFF at Second Floor U.N.O.
- Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each state.
- Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically coil out as included, Kitchens do not include soffits over wall cabinetry.
- Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
- Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.
- Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 4 open equal shelves. Closets for pantries shall have 4 equal wood shelves, painted.
- Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
- 10. Handrails and Guards at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
- 11. Attic Access shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
- 12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
- 13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



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RH . THE DURHAM CURRENT REVISION DATE: 1/8" = 1'-0"

Plan Floor

> DRAWN BY: South Designs

Second ]

ISSUE DATE: 7/1/2021

SHEET 2.2d

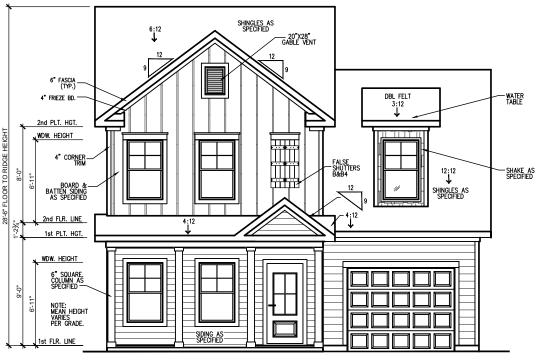
#### **General Elevation Notes**

General Elevation Notes shall apply unless noted otherwise on plan.

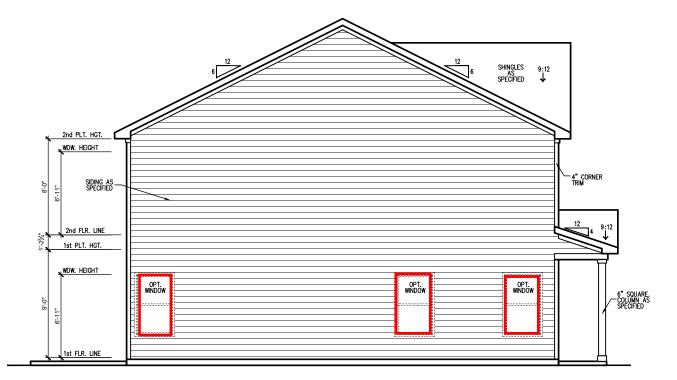
- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- 3. Soffit Vent shall be continuous soffit vent
- House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Raillings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
- 7. Finish Wall Material shall be as noted on elevation drawings
- 8. Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
- Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6". Masonry Lintels shall be provided so that deflection is limited to 1/600.

#### Masonry Opening Lintel Schedule

Opening S	ize	Angle
up to 4'-0"		3-1/2" x 3-1/2" x 5/16"
4'-1" to	5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to	6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to	8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to	16'-4"	7" x 4" x 3/8" LLV







LEFT SIDE ELEVATION 'D' (SLAB)
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



	DESCRIPTION	DATE

THE DURHAM - RH --- Front & Left Elevations 'D' (Slab)

DRAWN BY: South Designs ISSUE DATE:

7/1/2021

CURRENT REVISION DATE:

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

3 1 d

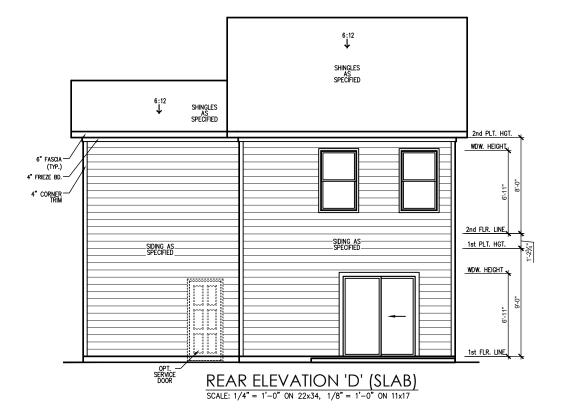
#### **General Elevation Notes**

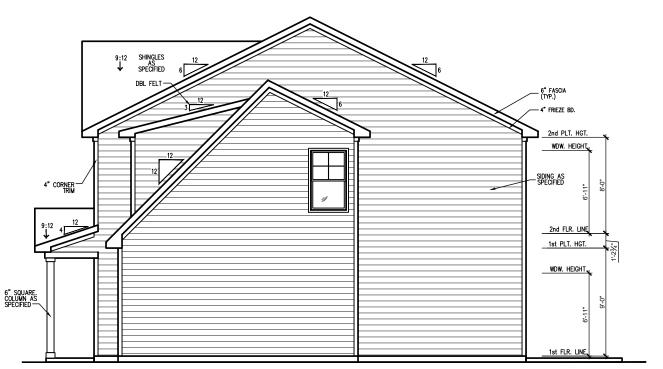
General Elevation Notes shall apply unless noted otherwise on plan.

- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- 3. Soffit Vent shall be continuous soffit vent
- House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings.
- 8. Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
- Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6". Masonry Lintels shall be provided so that deflection is limited to L/600.

#### Masonry Opening Lintel Schedule

Opening S	ize	Angle
up to 4'-0"		3-1/2" x 3-1/2" x 5/16"
4'-1" to	5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to	6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to	8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to	16'-4"	7" x 4" x 3/8" LLV





RIGHT SIDE ELEVATION 'D' (SLAB)
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

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DATE			-	-	-	-			
DESCRIPTION	•								
REV. #	1	2	3	4	2	9	7	8	

THE DURHAM - RH
---Rear & Right Elevations 'D' (Slab)

DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

CURRENT REVISION DATE:
---SCALE:
1/8" = 1'-0"

3.2d

	ATTIC VENT SCHEDULE											
TANDEM GARAGE ROOF												
MAIN HOUSE SQ FTG 442 AT / NEAR RIDGE AT / NEAR EAVE								AR EAVE				
VENT TYPE	SQ. FT. SQ. FT. PERCENT POT LARGE POT SMALL RIDGE VENT (SQ. FT. EACH)						EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)				
	RANGE		SUPPLIED	SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625			
RIDGE VENT	0.59	0.74	1.00	44.44	0	0	8.00					
SOFFIT VENTS	0.88	0.74	1.25	55.56				0	20.00			
TOTAL (MIN)	1.47	1.47	2.25	100.00	POT VENTS MAY B	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE						

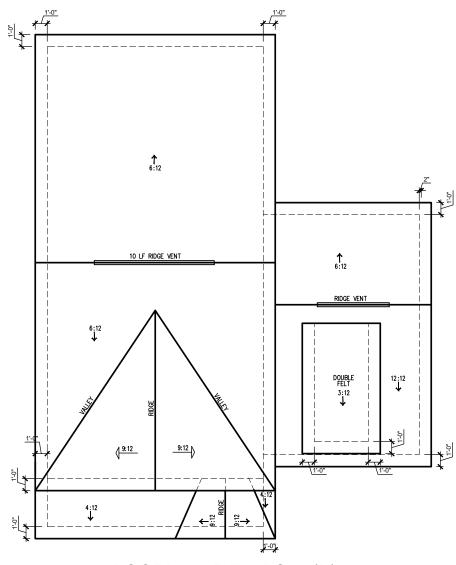
	,									
* SCHEDULE	HAS BEEN	CALCULATE	ASSUMING I	AVE VENTILAT	TON AT 50-60%	OF TOTAL	AND RIDGE AT	40-50% OF	TOTAL REQUIRED	D VENTILATION

	ATTIC VENT SCHEDULE												
	LOWER ROOF												
MAIN HOUSE SQ FTG 260 AT / NEAR RIDGE AT / NEAR EAVE													
VENT TYPE	SQ. REQL		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)				
	RAN		SUPPLIED	SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625				
RIDGE VENT	0.35	0.43	1.00	44.44	0 0 8.00								
SOFFIT VENTS	0.52	0.43	1.25	55.56	0 20.00								
TOTAL (MIN)	0.87	0.87	2.25	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE								

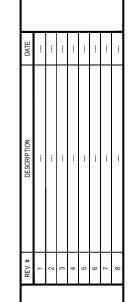
* SCHEDULE HAS BEEN	CALCULATED	ASSUMING FAVE	VENTILATION AT 50	-60% OF	TOTAL AND F	RIDGE AT 40-	-50% OF TOTAL	REQUIRED	VENTIL ATION

ATTIC VENT SCHEDULE										
MAIN ROOF										
MAIN HOUSE			SQ FTG	648	AT / NEAR RIDGE			AT / NEAR EAVE		
VENT TYPE	SQ. FT. REQUIRED RANGE		SQ. FT. SUPPLIED	PERCENT OF TOTAL SUPPLIED	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT	
					0.4236	0.2778	0.125	0.1944	0.0625	
RIDGE VENT	0.86	1.08	1.25	44.44	0	0	10.00			
SOFFIT VENTS	1.30	1.08	1.56	55.56				0	25.00	
TOTAL (MIN)	2.16	2.16	2.81	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					

<sup>\*</sup> schedule has been calculated assuming eave ventilation at 50–60% of total and ridge at 40–50% of total required ventilatio



 $\frac{\mathsf{ROOF\ PLAN\ ELEVATION\ -\ 'D'}}{\mathsf{SCALE:\ 1/4"=\ 1'-0"\ ON\ 22x34,\ \ 1/8"=\ 1'-0"\ ON\ 11x17}}$ 

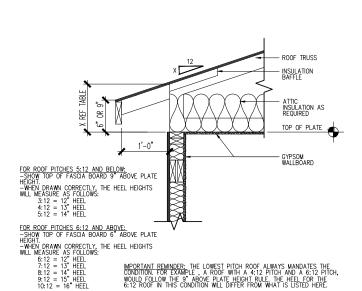


THE DURHAM - RH
---Roof Plan 'D'

DRAWN BY: South Designs ISSUE DATE: 7/1/2021

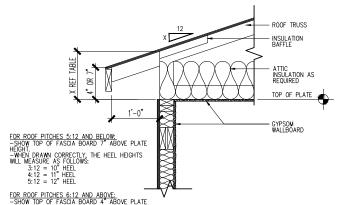
CURRENT REVISION DATE:
--SCALE:
1/8" = 1'-0"

3.3d



ENERGY HEEL DETAIL: CZ 4 & 5

SCALE: 1'' = 1'-0'' ON 22x34, 1/2'' = 1'-0'' ON 11x17

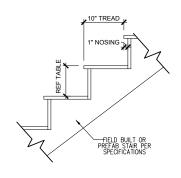


HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS
WILL MEASURE AS FOLLOWS:

IMPORTANT REMINDER: THE LOWEST PITCH ROOF ALWAYS MANDATES THE CONDITION. FOR EXAMPLE , A ROOF WITH A 4:12 PITCH AND A 6:12 PITCH, WOULD FOLLOW THE 7" ABOVE PLATE HEIGHT RULE. THE HEEL FOR THE 6:12 ROOF IN THIS CONDITION WILL DIFFER FROM WHAT IS LISTED HERE.

### ENERGY HEEL DETAIL: CZ 2 & 3

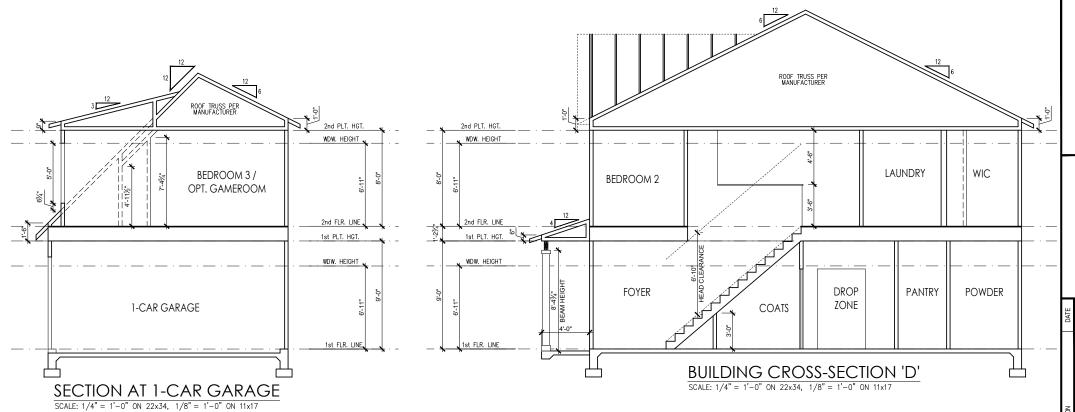
SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17

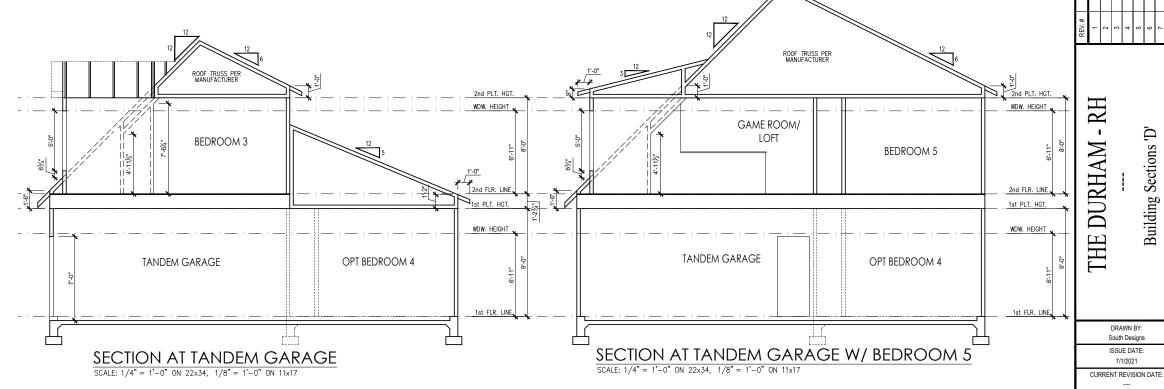


RISER HEIGHTS PER STAIR CONFIGURATION								
PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM					
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"					
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"					
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS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

#### TYPICAL STAIR DETAIL

SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17





Building Sections 'D'

South Designs

ISSUE DATE:

7/1/2021

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

SHEET 4.0d

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

PROJECT # 22-1260-RH

uccument.
Seal does not include construction means, methods, technique sequences, procedures or safety precautions.
Any deviations or discrepancies on plans are to be brought to immediate attention of Southern Engineers. Failure to do so a void Southern Engineers liability.
Seal is vaile for proxicors normitted one wear from date of seal.

Southern Engineers, P.A. 3716 Benson Drive, Raleigh, NC 27609 Phone: (919) 878-1617 License: C-4772 www.southernengineers.com

NEW HOME, INC.

THE DURHAM
Garage Right

S-1.1

#### TRUSS SYSTEM REQUIREMENTS

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

- 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.
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

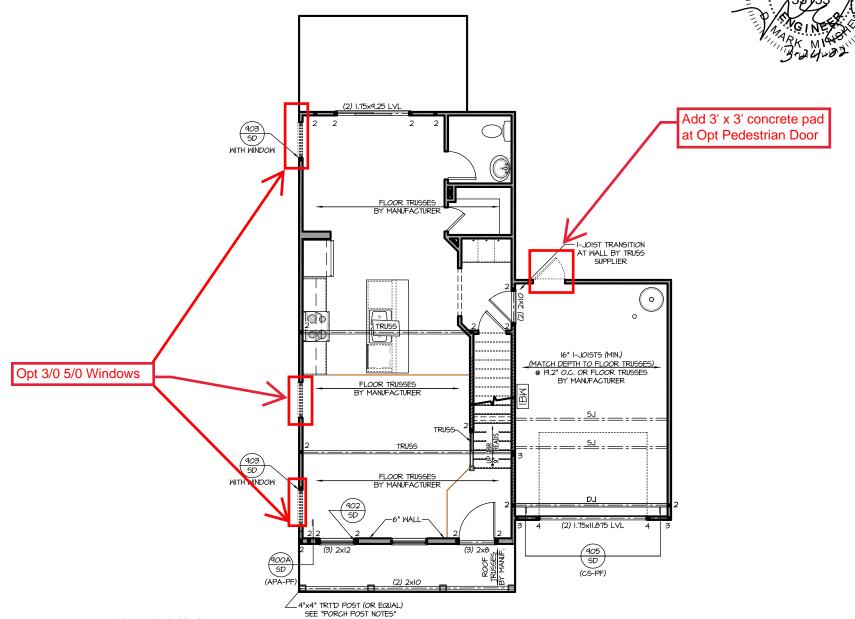
#### HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) MITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED I-9-2020
- UP TO 3' SPAN: (I) KING STUD
- OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 9' SPAN: (3) KING STUDS
- OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS

#### FRAMING NOTES

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

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WGP: C5-WGP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANG (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602.10 OF THE CODE, SEE NOTES
  BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (MSP) (EXPOSURE B: 71/6". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC 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 PER SECTION R602.IO.4.5 AND ATTACH BRACED WALLS PER CODE. WEP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE WSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER
- 4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.
- $\underline{**GROUND/FIRST\ FLOOR:}$  USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR
- "STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP T" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W (7) 8d NAILS.
- 5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/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
- 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "I<u>BM-MSP</u>" ON PLANS). ATTACH ONE SIDE WITH 1/6" MSP SHEATHING WITH 8d 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 AS REQUIRED, ATTACH OPPOSITE SIDE WITH 1/2" 6B WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.



- PORCH POST NOTES:

  4"x4" (6"x6") TRT'D POST (OR EQUAL).
- ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS
- POST CAP: SIMPSON AC4-MAX (AC6-MAX) POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (1) SIMPSON
- 3. POST BASE: SIMPSON ABU44 (ABU66).
- MONO: 5%" ANCHOR (EMBED 7")
  CMU: 5%" ANCHOR (EXTEND TO FOOTING HIGH WIND ONLY)

  4. POST BASE: WOOD FOUNDATION: (2) SIMPSON CSI6
- STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER.
- NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

#### **MOOD I-JOISTS**

- (SHALL BE ONE OF THE FOLLOWING):

   TJI 210 BY TRUS JOIST
- IPI 20 PI IS BY IP
- ALL WOOD 1-JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S
  SPECIFICATIONS AND INSTRUCTIONS
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.

#### FIRST FLOOR - ELEVATION 'D' SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

PROJECT # 22-1260-RH

#### TRUSS SYSTEM REQUIREMENTS

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

- 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.
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

#### HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) MITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED I-9-2020
- UP TO 3' SPAN: (I) KING STUD
- OVER 3' UP TO 6' SPAN: (2) KING STUDS OVER 6' UP TO 4' SPAN: (3) KING STUDS
- OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS
- FRAMING NOTES

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

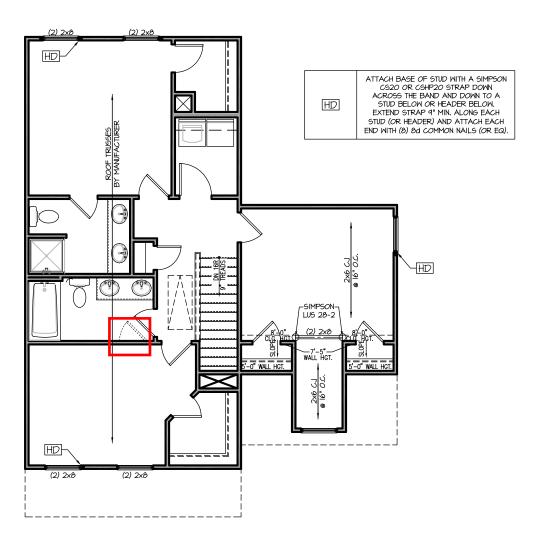
- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WGP: CS-WGP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602.10 OF THE CODE, SEE NOTES
  BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND
- 2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WGP) (EXPOSURE B: 7/16", EXPOSURE C: 15/32"), SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC 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 PER SECTION R602.IO.4.5 AND ATTACH BRACED WALLS PER CODE. WEP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ALONG CONTINUOUS BAND OR THE WEP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER
- 4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" 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
- ""

  IPPER 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 STRAP T" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W (7) 8d NAILS.
- 5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/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
- 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "I<u>BM-MSP</u>" ON PLANS). ATTACH ONE SIDE WITH 1/6" MSP SHEATHING WITH 8d 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 AS REQUIRED, ATTACH OPPOSITE SIDE WITH 1/2" 6B WITH A MIN. OF 5d COOLER NAILS OR #6 SCRENS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.





SECOND FLOOR ELEVATION 'D'

SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

PROJECT # 22-1260-RH

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> HOME, NEW]

THE DURHAM

- 1. 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
- (2) 2xIO OR 1.75xII.875 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER
- (3) (2) 2xIO OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
- (4) I.75xII.875 LVL OR (2)I.75x9.25 LVL VALLEY
  (5) FALSE FRAME VALLEY ON 2xIO FLAT PLATE
- 6. 2x6 RAFTERS @ 16" O.C. W 2x8 RIDGE, UNO.
- 1 2xIO RAFTERS @ 16" O.C. W 2xI2 RIDGE, UNO.
- (8) EXTEND RIDGE 12" BEYOND INTERSECTION

- "SR" = SINGLE RAFTER
  "DR" = DOUBLE RAFTER
  "TR" = TRIPLE RAFTER
  "RS" = ROOF SUPPORT
  "B" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE
  2X6 STUDS OR 6X6 POST FOR SUPPORT OVER IO'-O" IN
- 2X6 SIUDS ON BAB FUSTI ON SATISTICS.

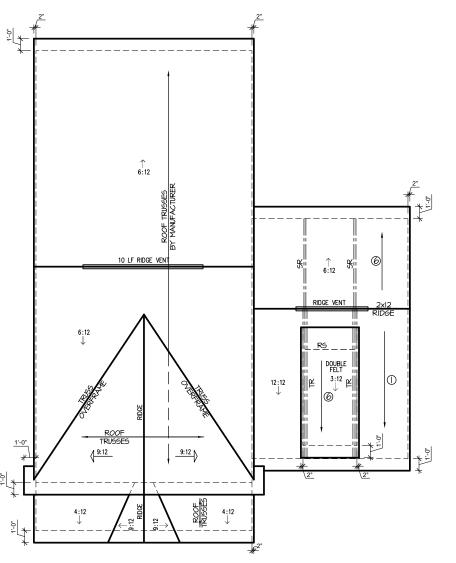
  HEIGHT)
  ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS:
  SIMPSON "H-25A" OR EQUIVALENT. TIES TO BE INSTALLED
  ON THE OUTSIDE FACE OF FRAMING.
  INSTALL RAFTER TIES AND COLLAR TIES PER SECTION
  R802.3.I OF THE 2018 NC RESIDENTIAL CODE.

#### TRUSS SYSTEM REQUIREMENTS

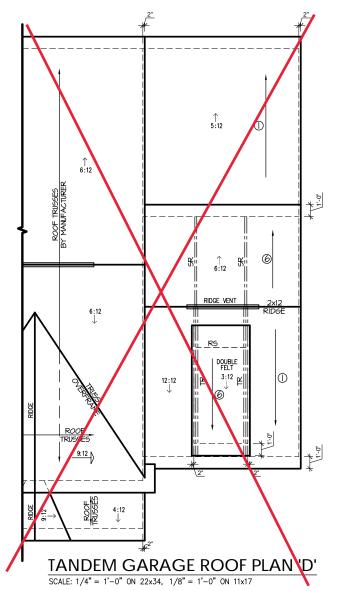
NC (2018 NCRC): Wind: 115-120 mph

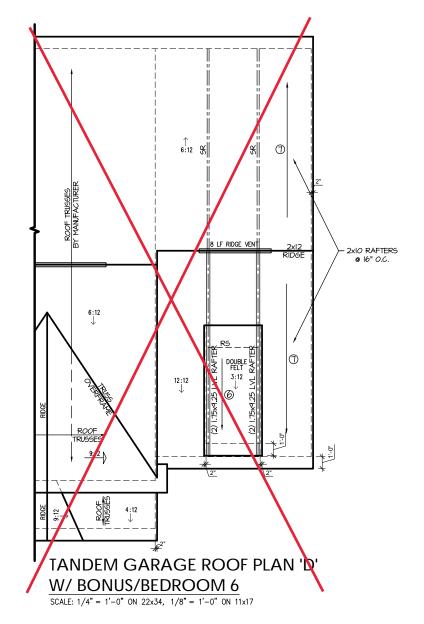
- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS, ANY NEED TO CHANGE TRUSGES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.











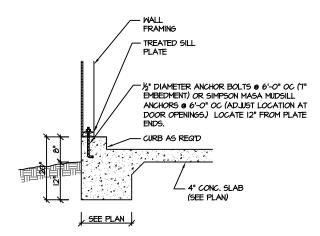
PROJECT # 22-1260-RH

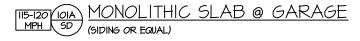
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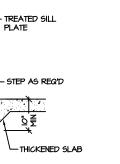
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THE DURHAM







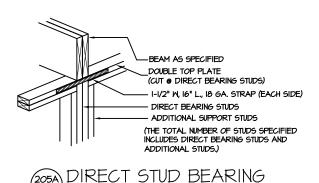


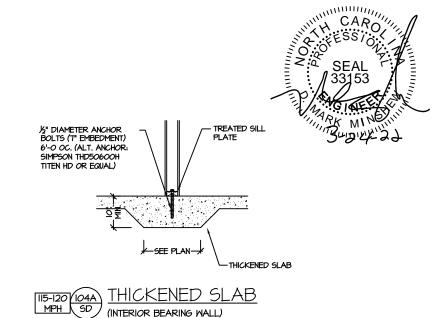


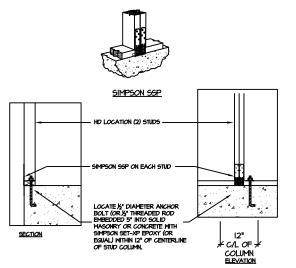
SEE PLAN

月 DIAMETER ANCHOR BOLTS (7" EMBEDMENT)

6'-0 OC. (ALT. ANCHOR: SIMPSON THD50600H TITEN HD OR EQUAL)







BRACED WALL END CONDITION "HD" HOLD-DOWN DETAIL

NOTE: SIMPSON DTT-IZ IS ACCEPTABLE ALTERNATE NOTE: ALTERNATE HD HOLD-DOWN DEVICES OR SYSTEMS MAY BE USED TO MEET THE CODE REQUIRED 800 LB CAPACITY IN LIEU OF THE ABOVE DETAIL.

SLAB FOUNDATION

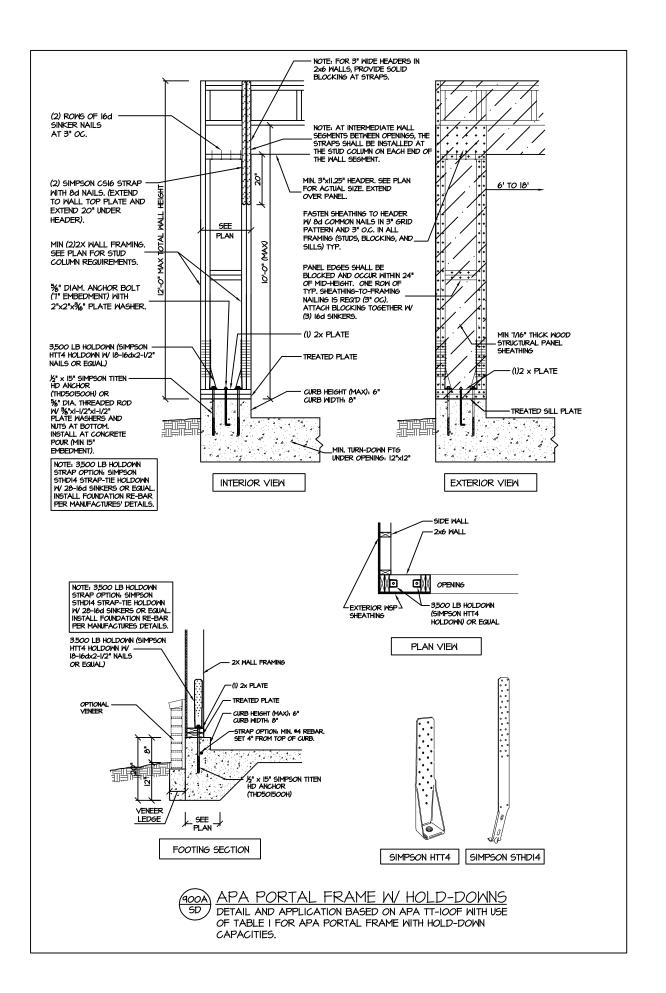
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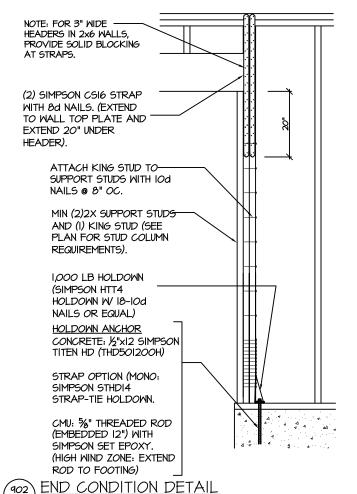
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**DURHAM PLAN** 

SD







(FOR USE WITH SINGLE APA PORTAL FRAME CONDITION) DETAIL AND APPLICATION BASED ON APA TT-100F WITH USE OF

TABLE I FOR APA PORTAL FRAME WITH HOLD-DOWN CAPACITIES.

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**PLAN** DURHAM

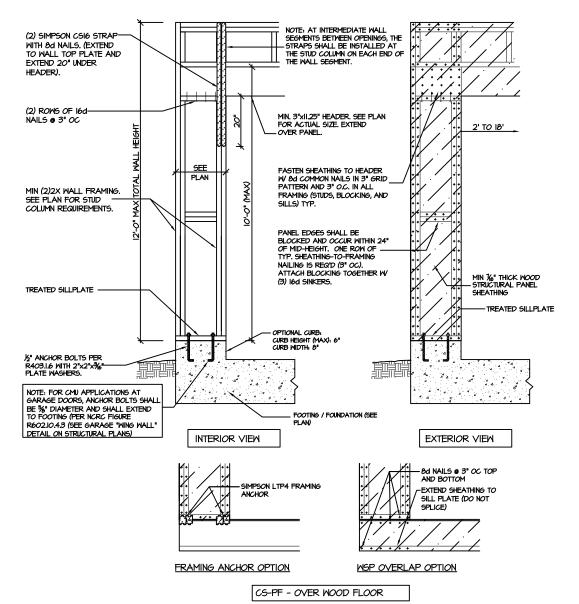
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CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION DETAIL AND APPLICATION BASED ON NORC FIGURE R602.IO.I - PORTAL FRAME CONSTRUCTION



#### STRUCTURAL NOTES NC (2018 NCRC): Wind: 115-120 mph

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NC RESIDENTIAL CODE, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT.
  ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH 600D CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION) ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360)
- SLEEPING ROOMS: (30 PSF, IO PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360)
- ATTIC MITHOUT PERMANENT STAIR: (20 PSF, I/O PSF, L/360) ATTIC MITHOUT STORAGE: (10 PSF, I/O PSF, L/240)
- STAIRS: (40 PSF, IO PSF, L/360)
- EXTERIOR BALCONIES: (60 PSF, IO PSF, L/360)
  DECKS: (40 PSF, IO PSF, L/360)
- GUARDRAILS AND HANDRAILS: (200 LBS) PASSSENGER VEHICLE GARAGES: (50 PSF, IO PSF, L/360)
- FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- SNOW: (20 PSF)
- 4. WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS
- 5. SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR 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, CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF 1/D, (I.E. 4" CONCRETE SLABS SHALL HAVE 1/4" DEEP CONTROL JOINTS SANCUT IN SLAB ON A +-10'-0" x +-10'-0" GRID).
- 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. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) =
- 9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=I.9xI0 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0xl0 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55xl0 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- 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 SUPPORT IS CONSIDERED ADEQUATE PROVIDING 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.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF I/2" DIAMETER BOLTS (ASTM A325) 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 END.
- I4. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 I/2"x3 I/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 9'-0". SEE PLANS FOR SPANS OVER 4'-O". SEE ALSO SECTION R703.8.3 LINTELS.

PROJECT # 22-1260

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