

Wilson - LH ELEVATION 'D'

Lot 21 Duncan's Creek
295 Beacon Hill Road
Lillington, NC 27546



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
4.0	Building Sections
5.1	First Floor Electrical Plan
5.2	Second Floor Electrical Plan

REVISION LOG

REVISION:001 DATE: 1/28/2022

1. REWORK OFFICE & OPT BEDROOM 4
2. CREATE OPTION FOR BATH 3
3. REWORK GARAGE OPTIONS.
4. SHOW OPT BEDROOM 5 W/ BATH 3
5. RESIZE KITCHEN ISLAND PER SUNNYSIDE
6. UPDATE BEDROOM 2 TO SHOW 18" CANTILEVER
7. SHIFT FRONT WALL OF OWNER'S SUITE BACK TO ALIGN WITH BONUS ROOM/ BEDROOM 4
8. SHIFT BATH 2 & OWNER'S BATH BACK TO ADD SPACE FOR BATH 2 AND INCREASE BEDROOM CLOSETS TO 25"
9. RESIZE LOFT/BONUS ROOM/BEDROOM 6 DORMER TO 4'-6"
10. WIDEN ELEVATION 'A' FRONT PORCH TO 7'-0"
11. CREATE 1-CAR GARAGE ELEVATION WITH NO OPTIONS ABOVE
12. CREATE TANDEM GARAGE ELEVATION WITHOUT OPTIONS ABOVE
13. CREATE TANDEM GARAGE ELEVATION WITH BONUS ROOM/BEDROOM 6

REVISION:002 DATE: 1/31/2022

1. MADE 1-CAR GARAGE STANDARD
2. MADE BEDROOM 4 OVER GARAGE STANDARD
3. ELIMINATED OPTIONAL ELEVATIONS SHOWING W/ NO 2ND FLOOR OPTIONS OVER 1-CAR GARAGE AND TANDEM GARAGE.
4. UPDATE BEDROOM 5 OPTION TO SHOW PRIVATE ENTRANCE TO BATH 3 AND RELOCATED PANTRY.
5. ADD WATER HEATER
- 6.

REVISION:003 DATE: 2/08/2022

1. ENCLOSE ENTRY AREA FROM GARAGE AND ADD A CASED OPENING
2. SHOW SHOW STORAGE/CUBBIES CLOSET IN CAFE & RE-CENTERED SLIDER ACCORDINGLY.
3. SHOW ALL WINDOWS ON LEFT SIDE OF HOUSE AS OPTIONAL.
4. CHANGE GARAGE DOOR HEIGHT TO 7'
5. RE-CENTER WINDOWS AT FAMILY ROOM & BEDROOM 3 PER CANTILEVERED OFFSET FOR ELEVATIONS A & B
6. RELOCATE WATER HEATER IN TANDEM GARAGE TO WALL ADJACENT TO MAIN HOUSE.
7. CREATE NEW ELEVATIONS C & D PER PHOTOGRAPHS.
- 8.

REVISION:004 DATE: 2/18/2022

1. CONSOLIDATE OPTIONS TO REDUCE SHEETS
2. UPDATE WINDOW LOCATION/CONFIGURATION IN BEDROOM 2 & 3.
3. CHANGE PORCH ROOF PITCHES BACK TO 4:12.
4. CHANGE ROOF OVER BEDROOM 5 TO 5:12
5. REDUCE HALF HIP SIZE FOR ELEVATION C
6. RESIZE STORAGE CLOSET ADJACENT TO PANTRY AND CHANGE DOOR TO 4/0 DBL.
7. CREATE FALSE GABLE IN ELEVATION D TO BREAK UP SPACE BETWEEN WINDOWS.

REVISION:005 DATE: 05/05/2022

1. ADDED ELECTRICAL INFORMATION TO FLOOR PLANS.

REVISION:006 DATE: 06/09/2022

1. ADD AND DIMENSION LOCATION FOR CLEAN OUT ON FOUNDATION PLAN. NOTE ON FLOOR PLAN.
2. ADD WATER SHUT OFF VALVE TO FOUNDATION AND FLOOR PLANS
3. ADD HVAC COMPRESSOR
4. DELETE PANTRY CHASE
5. CHANGE PATIO SIZE TO 12X12
6. CHANGE 3/0X6/8 CO TO A SRO
7. ADD 2X8 WALL AT OFFICE OPTION FOR CLEANOUT, FLIP DOOR SWING AND RELOCATE SWITCH.
8. CHANGE OWNER'S BATH LINEN DEPTH FROM 1'-8 3/4" TO 1'-10"
9. DIMENSION SINK AT BATH #2
10. SEPARATE TWIN 3/0X5/0 @ OWNERS SUITE

REVISION:007 DATE: 07/22/2022

1. ADD STEM WALL SLAB FOUNDATION SHEETS

REVISION:008 DATE: 05/09/2022

1. ADD WINDOW TO OWNER'S BATHROOM
2. EXTEND OVERHANGS TO 1'-0"



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

	ELEVATION 'D'	
	UNHEATED	HEATED
FIRST FLOOR	0	828
SECOND FLOOR	0	1036
FRONT PORCH	115	0
PATIO	139	0
1-CAR GARAGE	260	0
SUBTOTALS	514	1864
TOTAL UNDER ROOF	2378	

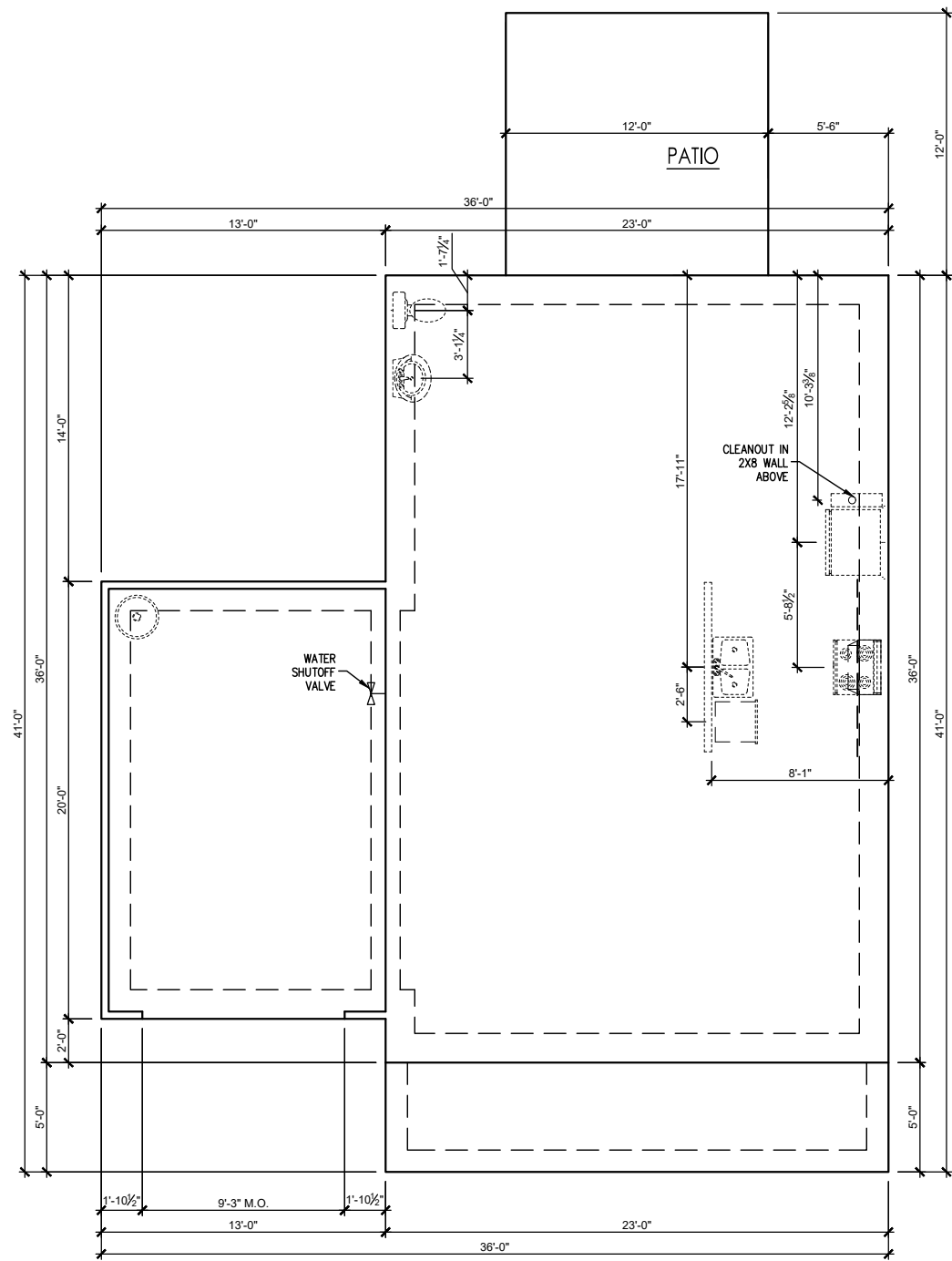
OPTIONS		
	UNHEATED S.F.	HEATED S.F.
TANDEM GARAGE	440	0
BEDROOM 5	0	184
BEDROOM 6	0	102

DATE	DESCRIPTION	REV.#
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WILSON
Cover Sheet 'D'

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

SCALE:
1/8" = 1'-0"
SHEET
0.0d



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

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WILSON

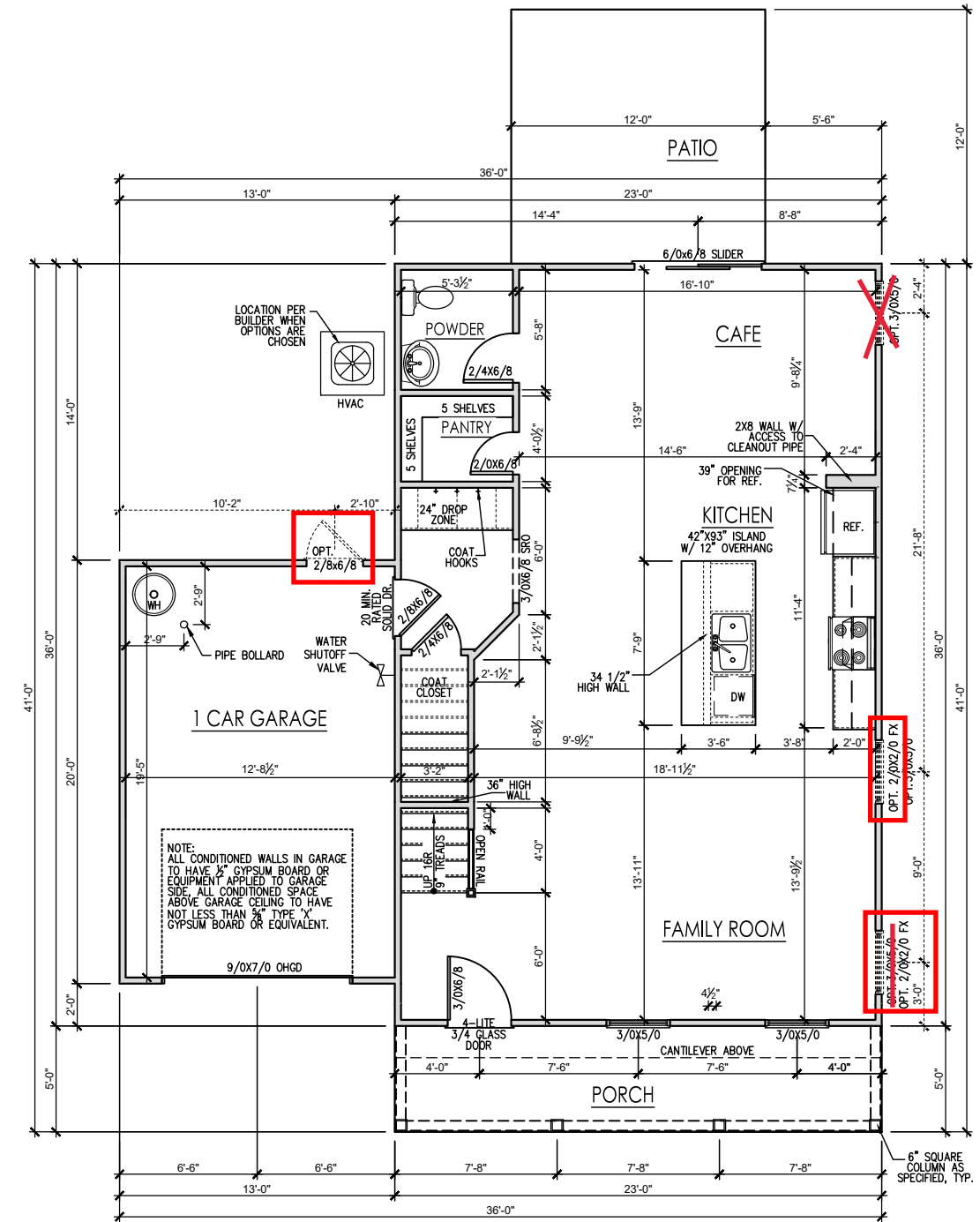
 Slab Foundation 'D'

DRAWN BY: South Designs
ISSUE DATE: 7/1/2021
CURRENT REVISION DATE: ---
SCALE: 1/8" = 1'-0"
SHEET 1.2d

General Floor Plan Notes

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

1. 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.
2. 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 4'-11" AFF at First Floor, and 6'-11" AFF at Second Floor U.N.O.
4. 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 side.
5. 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 call out as included, Kitchens do not include soffits over wall cabinetry.
6. 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.
7. 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.
8. 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.
9. 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 of 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 34" 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 4'-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" GWS supporting 5/8" type X GWS on ceiling.



FIRST FLOOR - ELEVATION 'D'

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

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WILSON

First Floor Plan 'D'

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

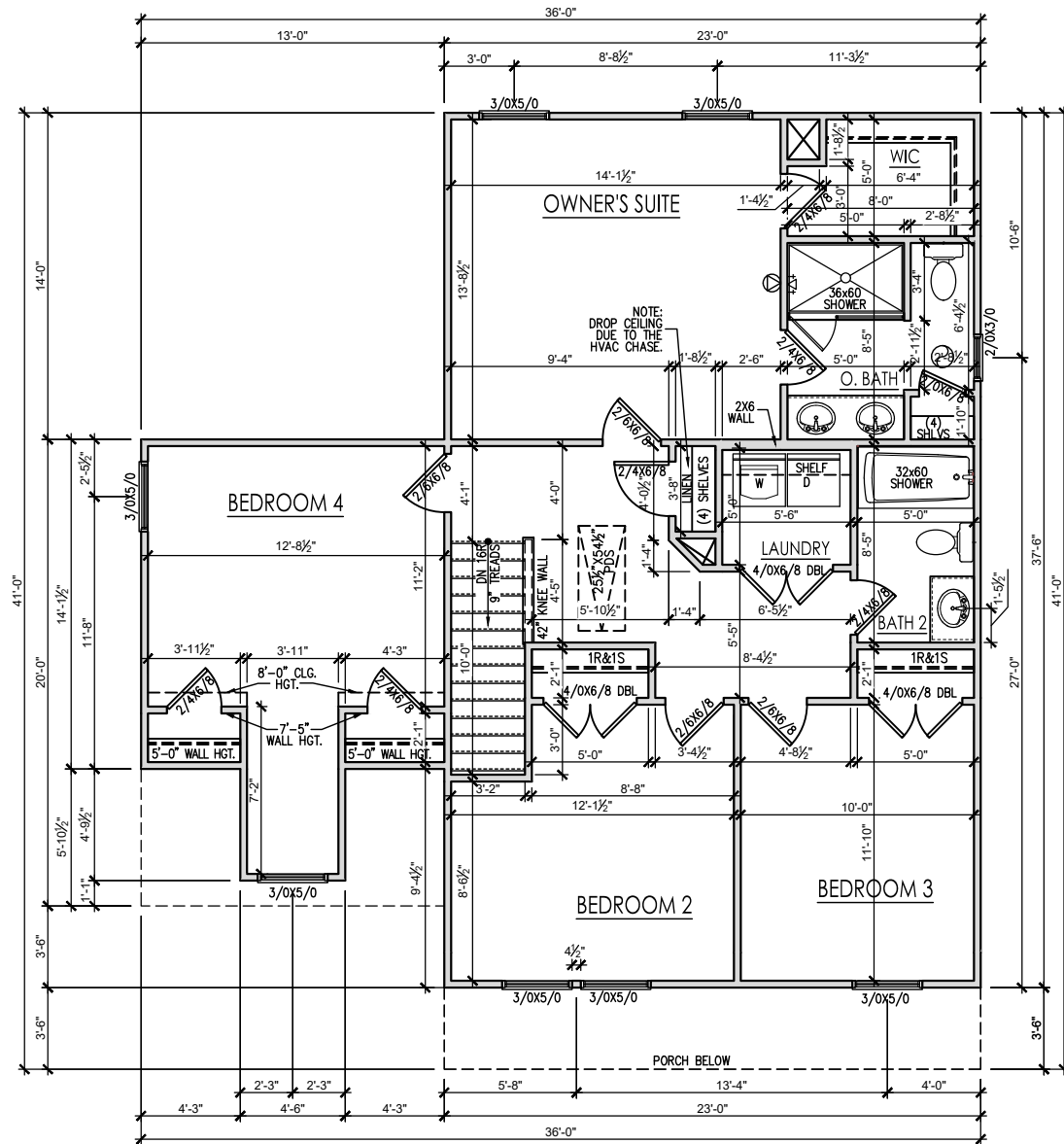
SCALE:
1/8" = 1'-0"

SHEET
2.1d

General Floor Plan Notes

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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.



SECOND FLOOR ELEVATION 'D'

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

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WILSON

Second Floor Plan 'D'

DRAWN BY:
South Designs

ISSUE DATE:
7/1/2021

CURRENT REVISION DATE:

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

SHEET

2.2d

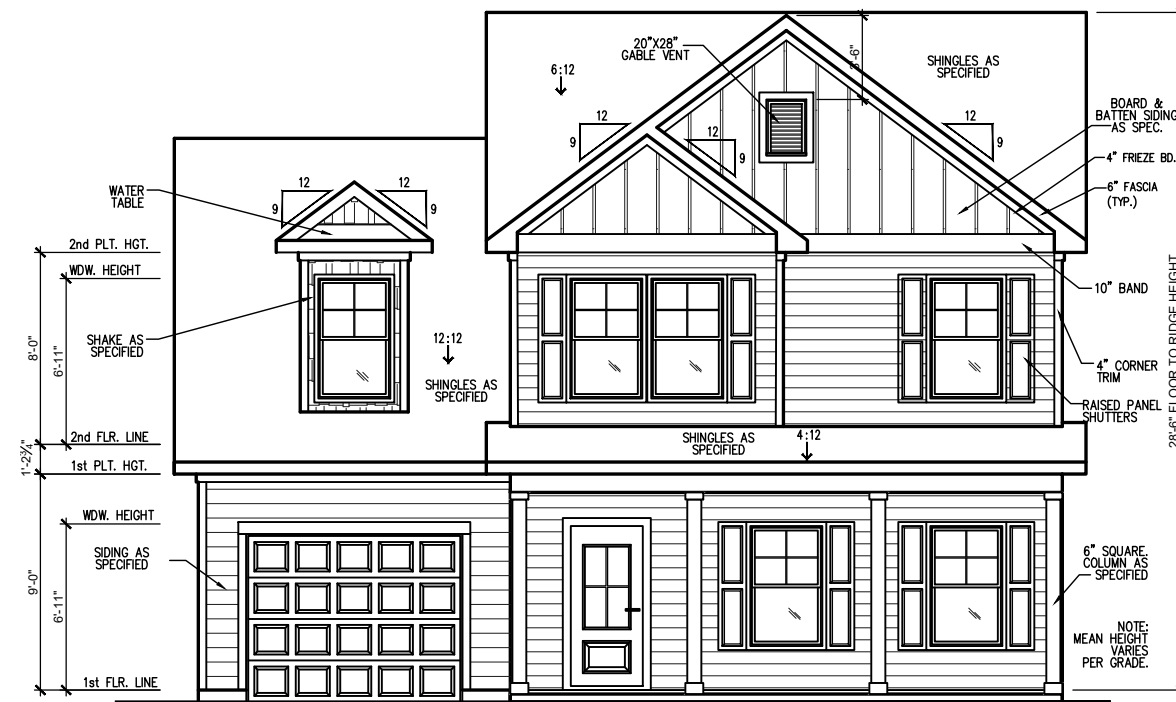
General Elevation Notes

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.
- 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.
- 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 Size	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



FRONT ELEVATION - 'D' (SLAB)

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



LEFT SIDE ELEVATION 'D' (SLAB)

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

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WILSON
Front & Left Elevations 'D' (Slab)

DRAWN BY: South Designs
ISSUE DATE: 7/1/2021
CURRENT REVISION DATE: ---
SCALE: 1/8" = 1'-0"
SHEET 3.1d

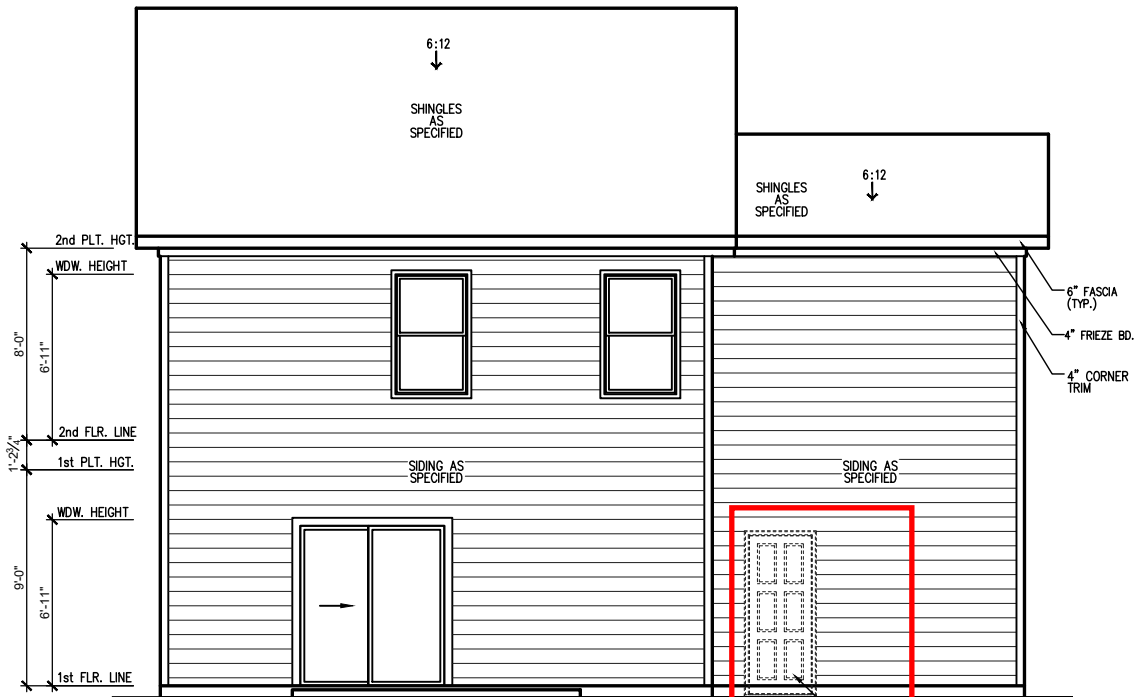
General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

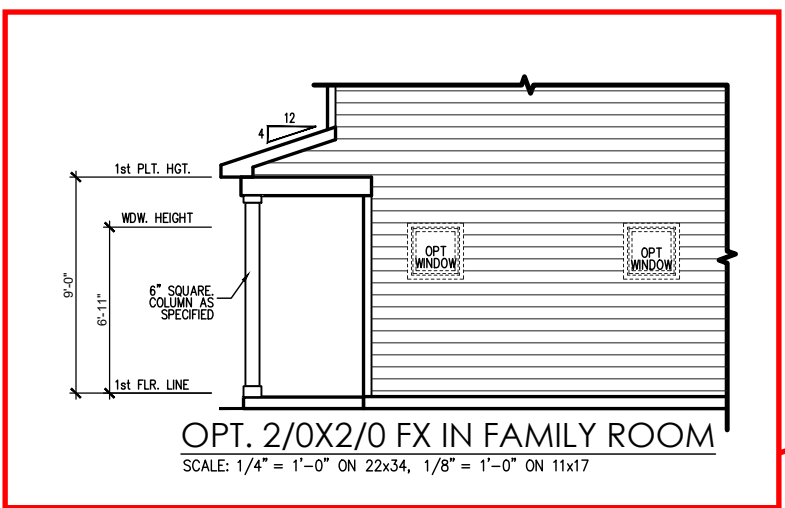
1. Roof shall be finished with architectural composition shingles with slopes as noted on plan.
2. Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
3. Soffit Vent shall be continuous soffit vent
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5. 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.
6. 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.
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9. 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

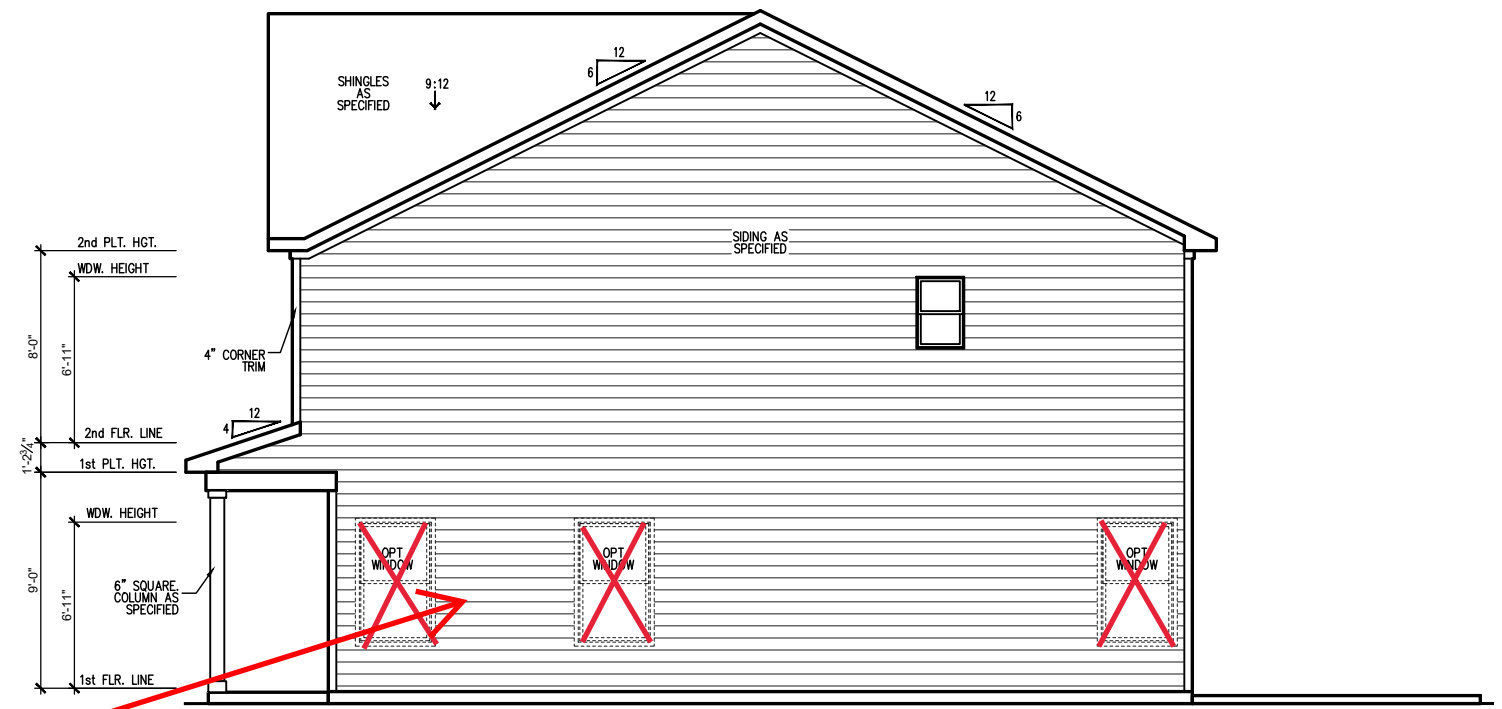
Opening Size	Angle
up to 4'-0"	3-1/2" x 3-1/2" x 5/16"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to 6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to 8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to 16'-4"	7" x 4" x 3/8" LLV



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



OPT. 2/0X2/0 FX IN FAMILY ROOM
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



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

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WILSON
Rear & Right Elevations 'D' (Slab)

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

SCALE:
1/8" = 1'-0"
SHEET
3.2d

ATTIC VENT SCHEDULE									
TANDEM GARAGE ROOF									
MAIN HOUSE		SQ FTG		442		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 (SQ. IN. PER LF)	
				0.4236	0.2778	0.125	0.1944	0.0625	
RIDGE VENT	0.59 0.74	0.75	44.44	0	0	6.00			
SOFFIT VENTS	0.88 0.74	0.94	55.56				0	15.00	
TOTAL (MIN)	1.47 1.47	1.69	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					

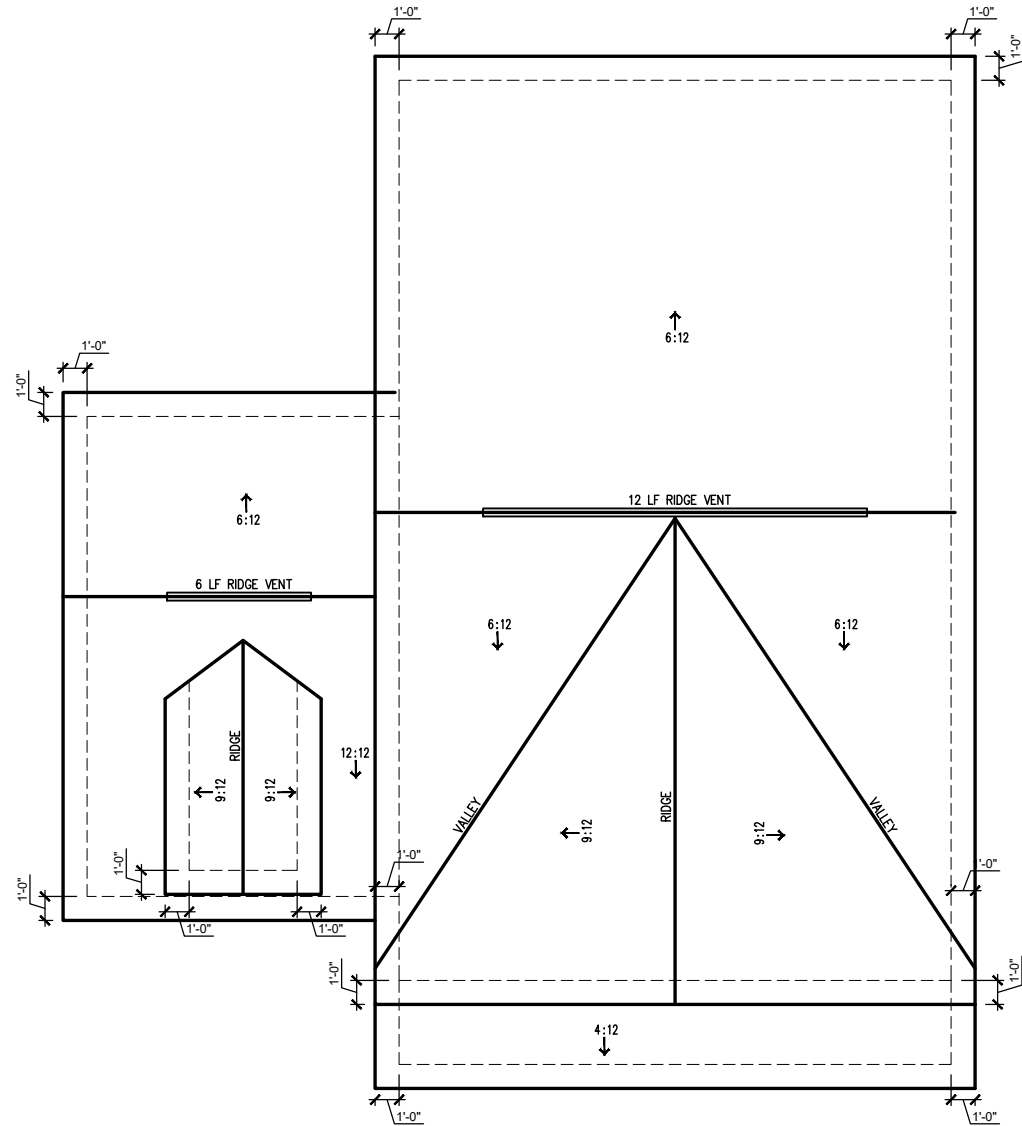
* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION

ATTIC VENT SCHEDULE									
GARAGE ROOF									
MAIN HOUSE		SQ FTG		260		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 (SQ. IN. PER LF)	
				0.4236	0.2778	0.125	0.1944	0.0625	
RIDGE VENT	0.35 0.43	0.75	44.44	0	0	6.00			
SOFFIT VENTS	0.52 0.43	0.94	55.56				0	15.00	
TOTAL (MIN)	0.87 0.87	1.69	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION

ATTIC VENT SCHEDULE									
MAIN ROOF									
MAIN HOUSE		SQ FTG		849		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 (SQ. IN. PER LF)	
				0.4236	0.2778	0.125	0.1944	0.0625	
RIDGE VENT	1.13 1.42	1.50	46.15	0	0	12.00			
SOFFIT VENTS	1.70 1.42	1.75	53.85				0	28.00	
TOTAL (MIN)	2.83 2.83	3.25	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE					

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION



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

REV. #	DESCRIPTION	DATE
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WILSON
Roof Plan 'D'

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

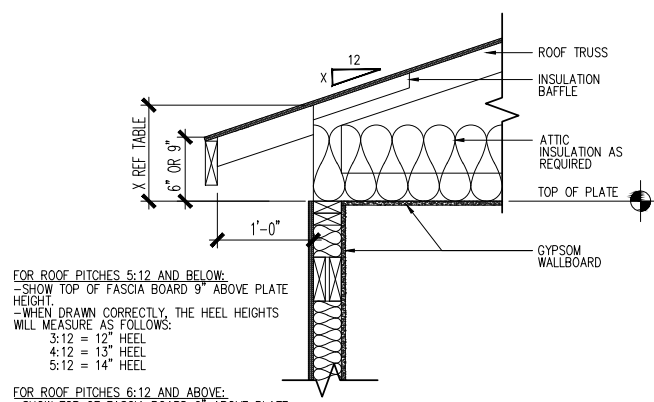
SCALE:
1/8" = 1'-0"
SHEET
3.4d

REV.#	DESCRIPTION	DATE
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WILSON
Building Sections 'D'

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

SCALE:
1/8" = 1'-0"
SHEET
4.0d

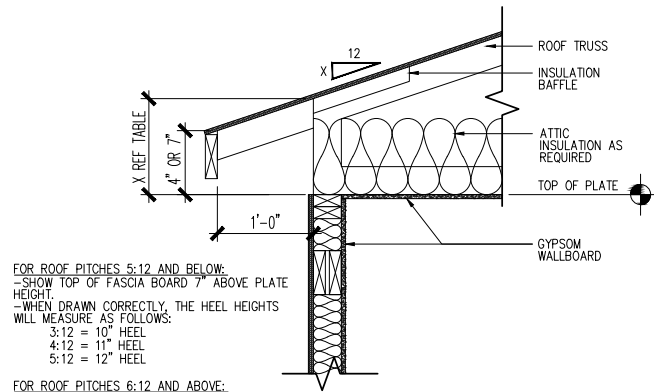


FOR ROOF PITCHES 5:12 AND BELOW:
-SHOW TOP OF FASCIA BOARD 9" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
3:12 = 12" HEEL
4:12 = 13" HEEL
5:12 = 14" HEEL

FOR ROOF PITCHES 6:12 AND ABOVE:
-SHOW TOP OF FASCIA BOARD 6" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
6:12 = 12" HEEL
7:12 = 13" HEEL
8:12 = 14" HEEL
9:12 = 15" HEEL
10:12 = 16" HEEL

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 9" 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 4 & 5
SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



FOR ROOF PITCHES 5:12 AND BELOW:
-SHOW TOP OF FASCIA BOARD 7" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
3:12 = 10" HEEL
4:12 = 11" HEEL
5:12 = 12" HEEL

FOR ROOF PITCHES 6:12 AND ABOVE:
-SHOW TOP OF FASCIA BOARD 4" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
6:12 = 10" HEEL
7:12 = 11" HEEL
8:12 = 12" HEEL
9:12 = 13" HEEL
10:12 = 14" HEEL

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

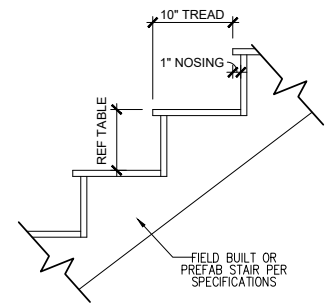
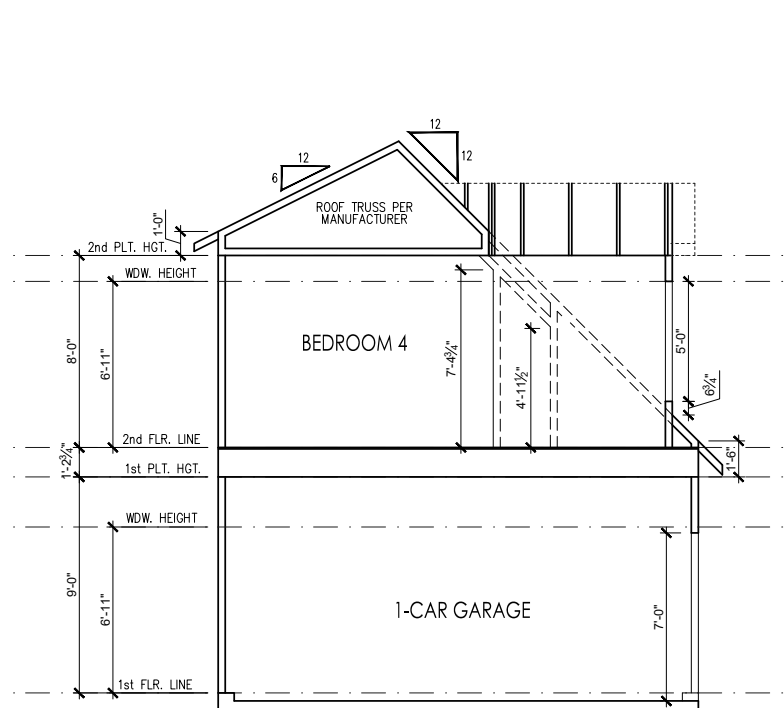
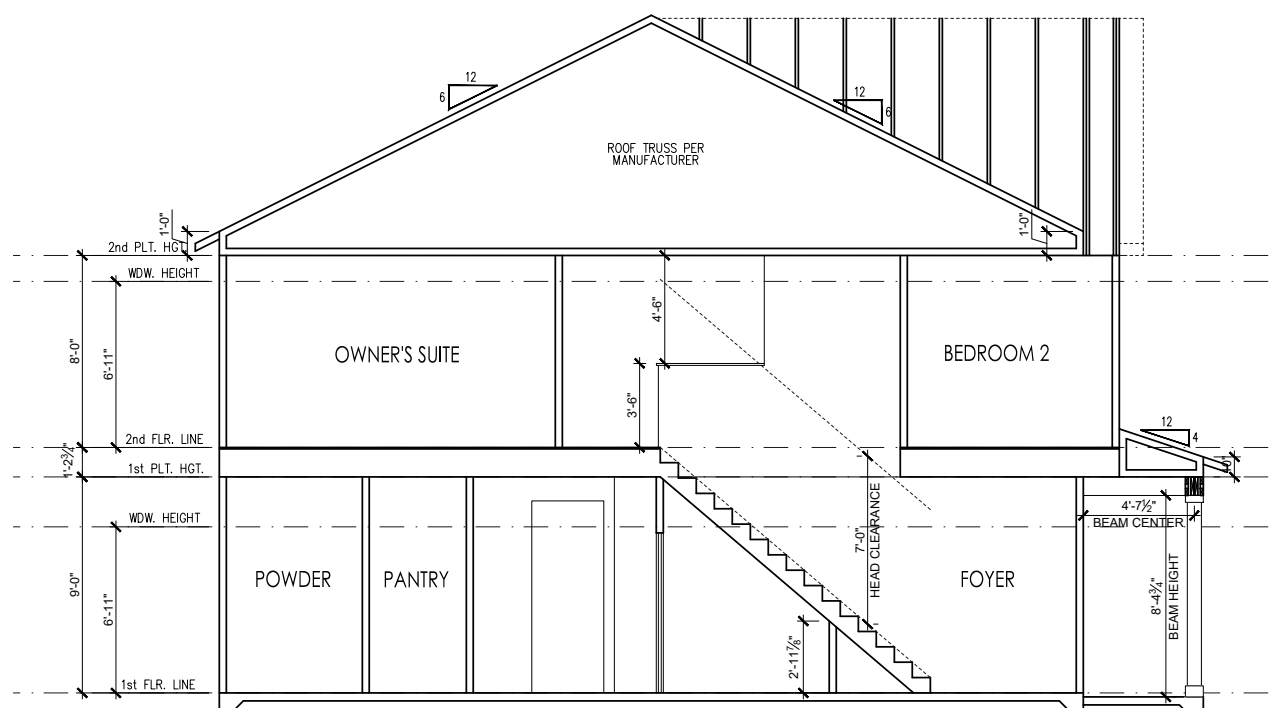


PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"

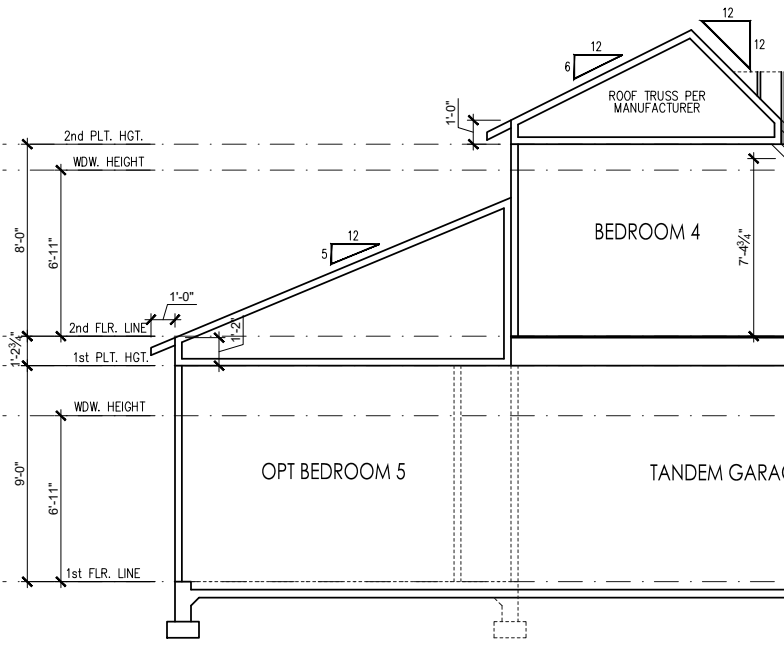
TYPICAL STAIR DETAIL
SCALE: 1" = 1'-0" ON 22x34, 1/2" = 1'-0" ON 11x17



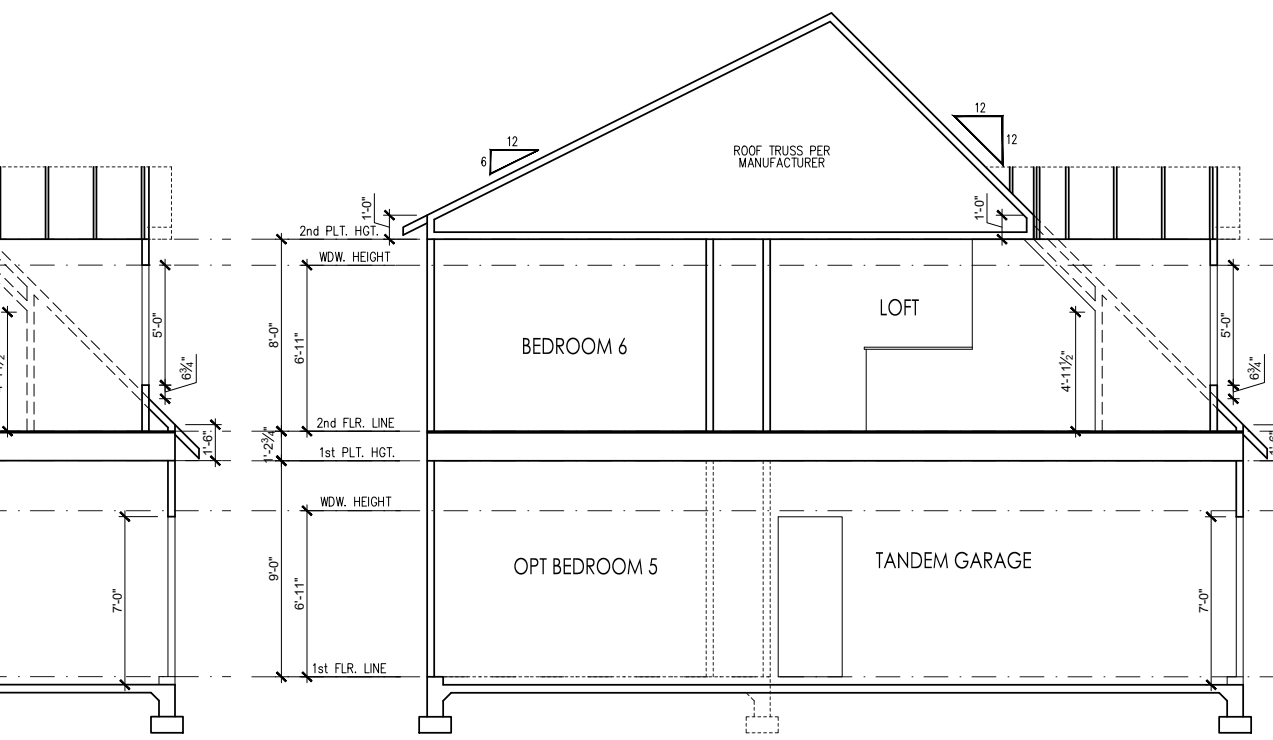
SECTION AT 1-CAR GARAGE
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



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

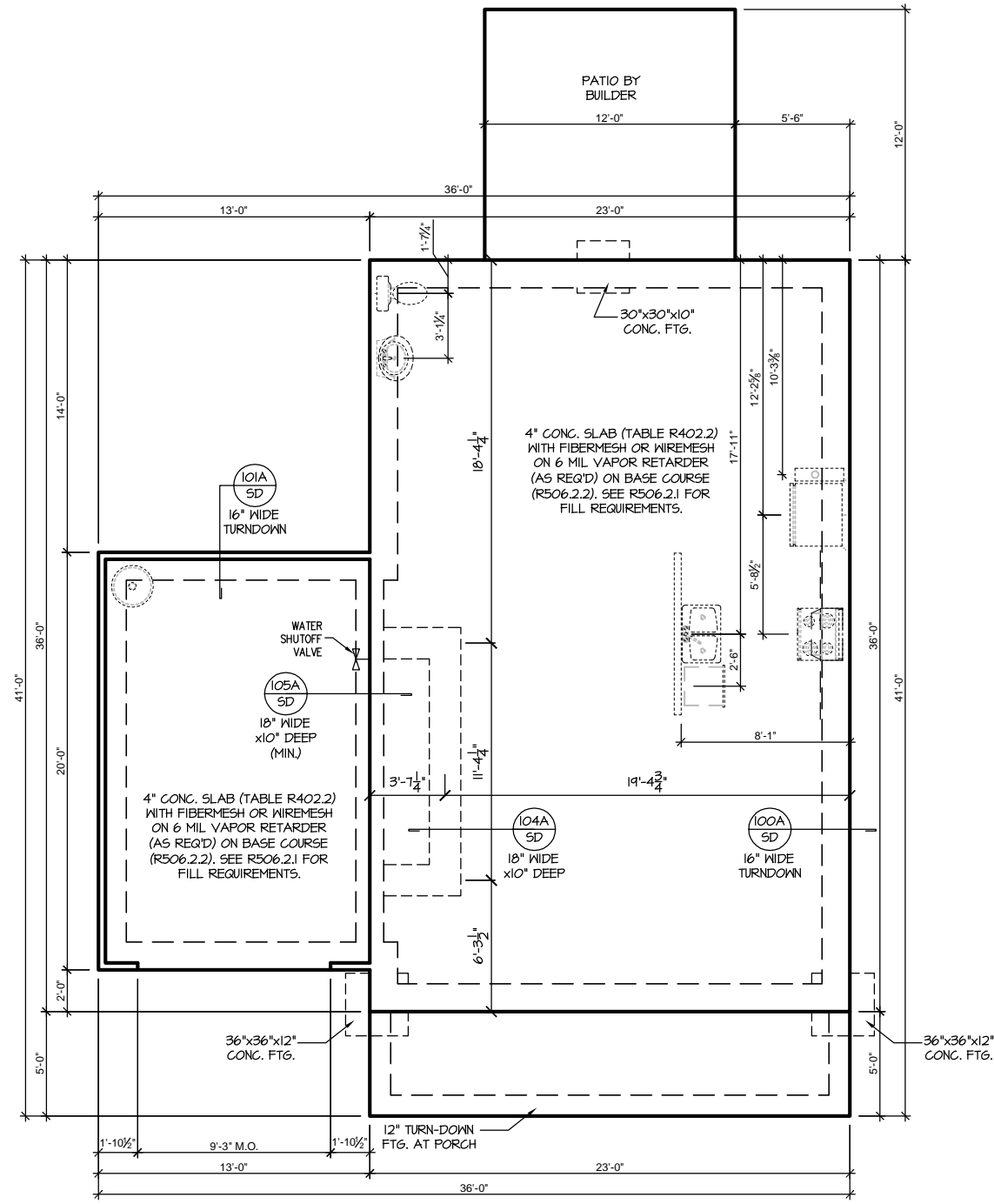


SECTION AT TANDEM GARAGE
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



SECTION AT TANDEM GARAGE W/ BEDROOM 6
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED



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



PROJECT #
22-1192-LH

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S-1.1

TRUSS SYSTEM REQUIREMENTS

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

1. 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.
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

HEADER/BEAM & COLUMN NOTES

1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (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 NCDOT COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-4-2020:
 - UP TO 3' SPAN: (1) 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 NRCG): Wind: 115-120 mph

1. BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: C5-WSP. 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 WALL FRAMING.
2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 1/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"X12" 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 R602.10.4.5 AND ATTACH BRACED WALLS PER CODE. WSP 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 APPROVED METHOD.
4. "HD" = HOLD-DOWN: 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 EQUIV)
 - *UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (1) 8d NAILS.
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 @ 1" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.
6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 7/8" WSP SHEATHING WITH 8d NAILS AT A 6"X12" 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" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

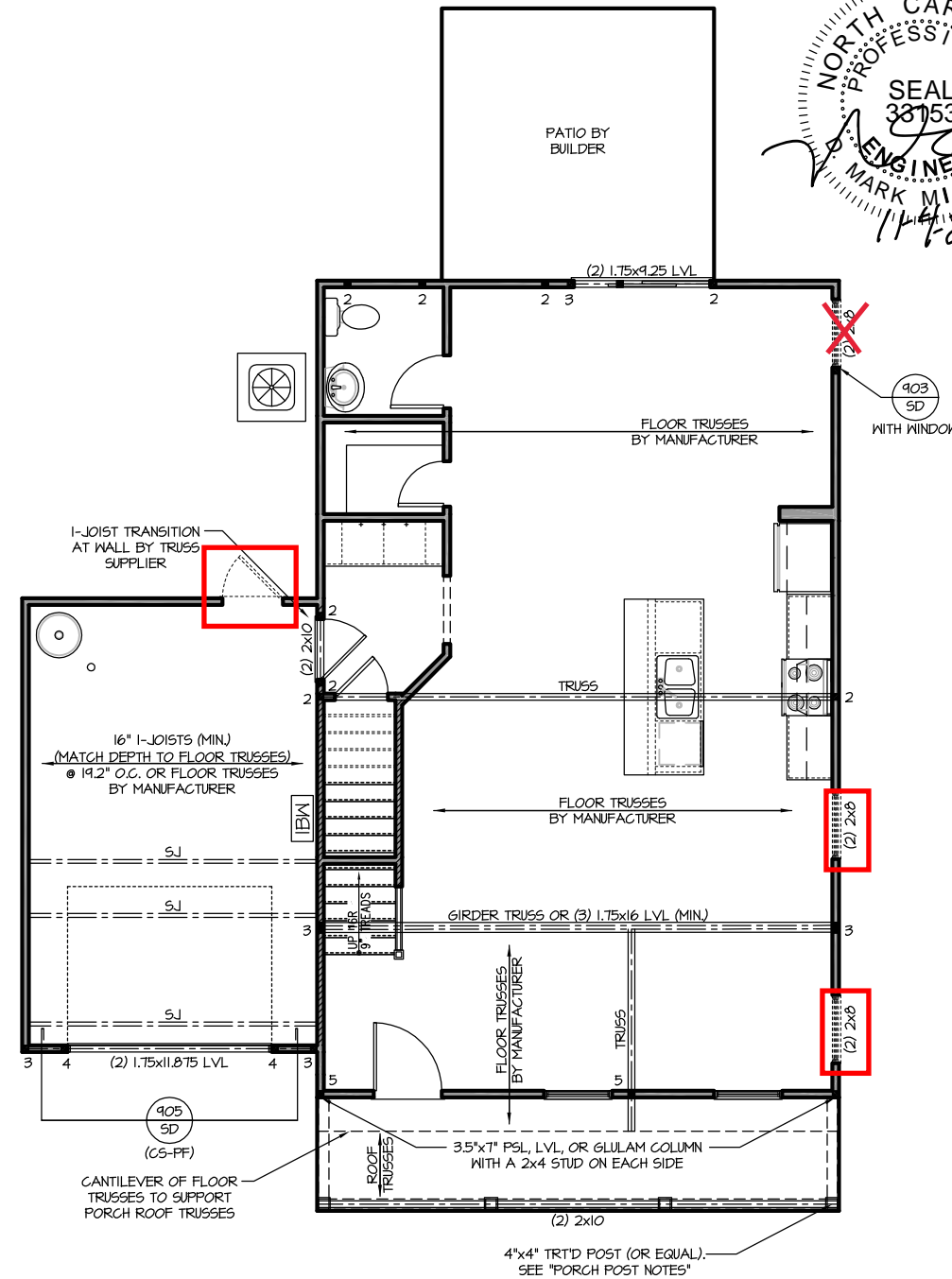
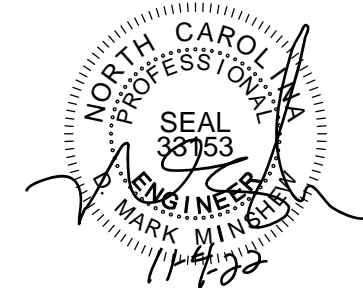
PORCH POST NOTES:

- 4"x4" (6"x6") TRTD POST (OR EQUAL).
 - ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
1. POST CAP: SIMPSON AC4-MAX (AC6-MAX)
 2. POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (1) SIMPSON H6.
 3. POST BASE: SIMPSON ABU44 (ABU66).
 - 3.1. MONO: 5/8" ANCHOR (EMBED 1')
 - 3.2. COM: 5/8" ANCHOR (EXTEND TO FOOTING - HIGH WIND ONLY)
 4. POST BASE: WOOD FOUNDATION: (2) SIMPSON CS16 STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER.
- NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

WOOD I-JOISTS

(SHALL BE ONE OF THE FOLLOWING):

- TJI 210 BY TRUS JOIST
 - LPI 20 PLUS BY LP
 - BCI 5000s 1.8 BY BC
- ALL WOOD I-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 #
22-1192-LH

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S-2.1

TRUSS SYSTEM REQUIREMENTS

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

1. 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.
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HEADER/BEAM & COLUMN NOTES

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 - UP TO 3' SPAN: (1) 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

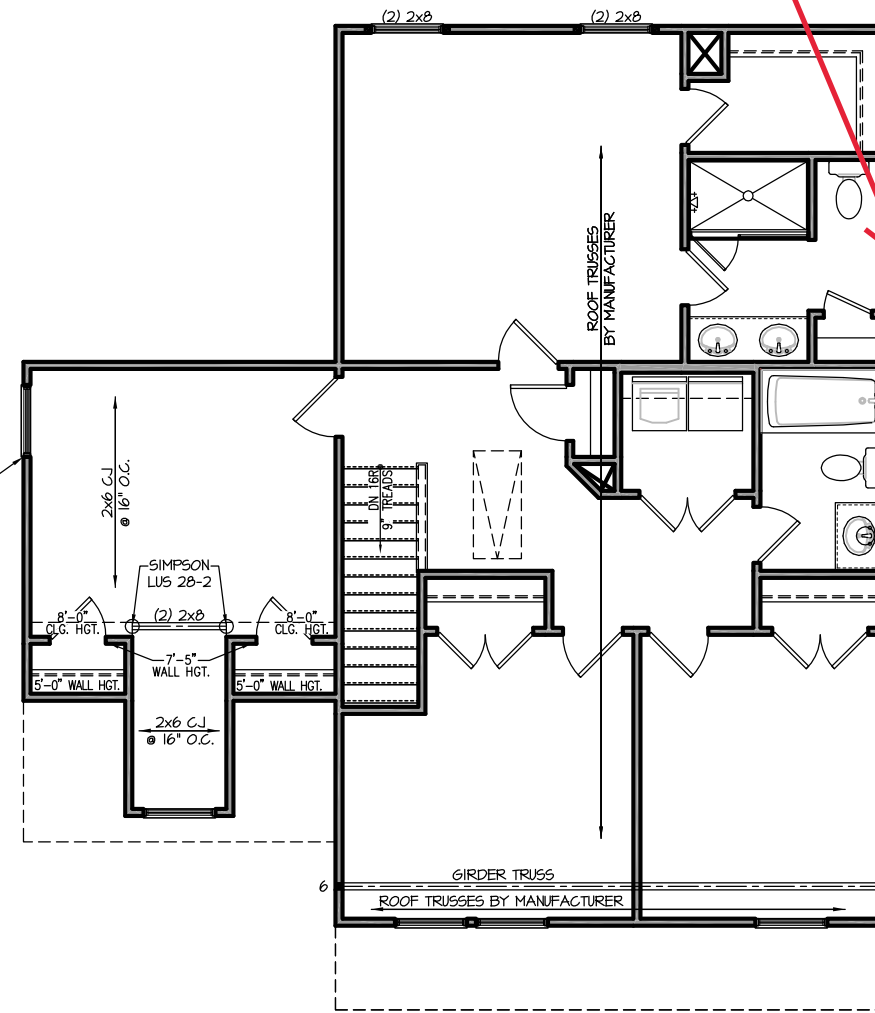
NC (2018 NCRG): Wind: 115-120 mph

1. BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: C5-WSP. 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 WALL FRAMING.
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3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BRACED WALLS PER CODE. WSP 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 APPROVED METHOD.
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 - **GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET (OR EQUIV)
 - **UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (1) 8d NAILS.
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 @ 1" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.
6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 7/8" WSP SHEATHING WITH 8d NAILS AT A 6" X 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" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

add 2/0 x 3/0 window
see Page 2.2d



ATTACH BASE OF STUD WITH A SIMPSON C520 OR C5HP20 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" MIN. ALONG EACH STUD (OR HEADER) AND ATTACH EACH END WITH (8) 8d COMMON NAILS (OR EQ).



SECOND FLOOR ELEVATION 'D'

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

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S-2.2

TRUSS SYSTEM REQUIREMENTS

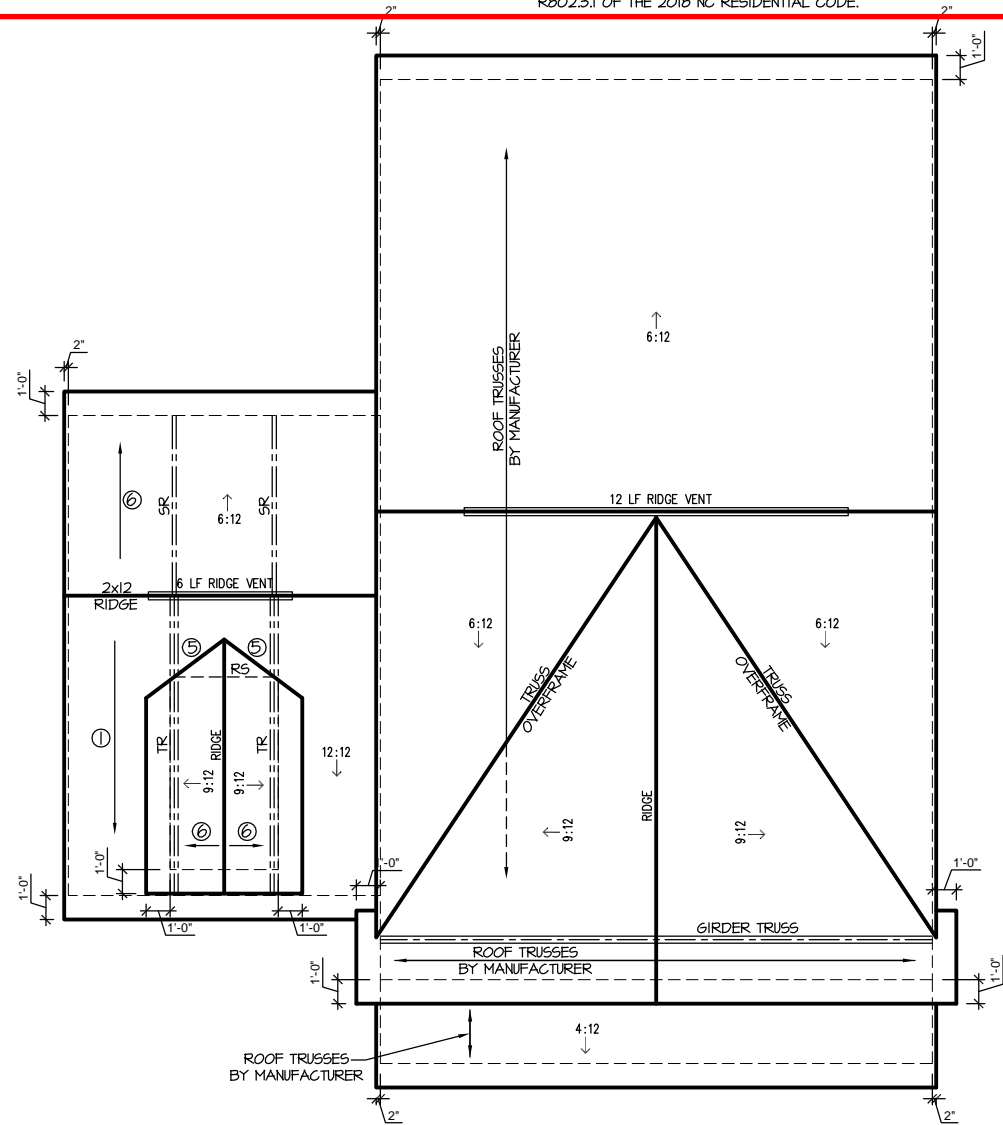
NC (2018 NCRC): Wind: 115-120 mph

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ROOF FRAMING NOTES:

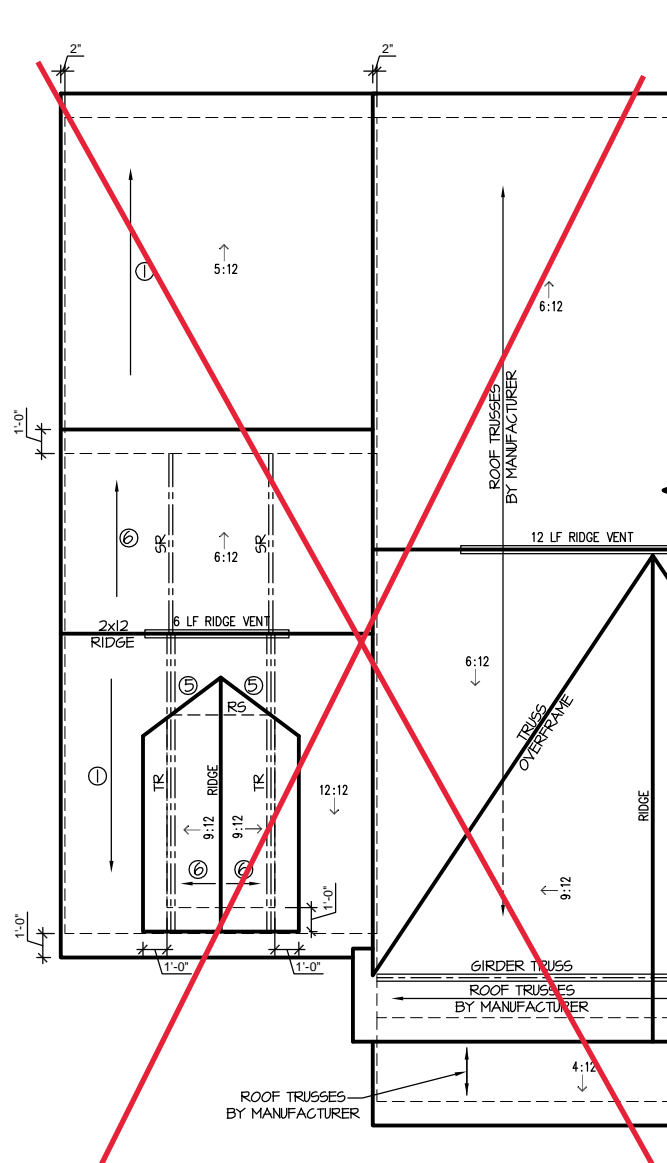
NC (2018 NCRC): Wind: 115-120 mph

- ① 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
 - ② (2) 2x10 OR 1.75x11.875 LVL HIP, (2) 2x10 HIPS MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP AT CENTER
 - ③ (2) 2x10 OR 1.75x11.875 LVL VALLEY. DO NOT SPLICE VALLEYS
 - ④ 1.75x11.875 LVL OR (2)1.75x9.25 LVL VALLEY
 - ⑤ FALSE FRAME VALLEY ON 2x10 FLAT PLATE
 - ⑥ 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
 - ⑦ 2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE, UNO.
 - ⑧ EXTEND RIDGE 12" BEYOND INTERSECTION
- "SR" = SINGLE RAFTER
 - "DR" = DOUBLE RAFTER
 - "TR" = TRIPLE RAFTER
 - "RS" = ROOF SUPPORT
 - "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2x6 STUDS OR 6X6 POST FOR SUPPORT OVER 10'-0" IN 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 R802.3.1 OF THE 2018 NC RESIDENTIAL CODE.



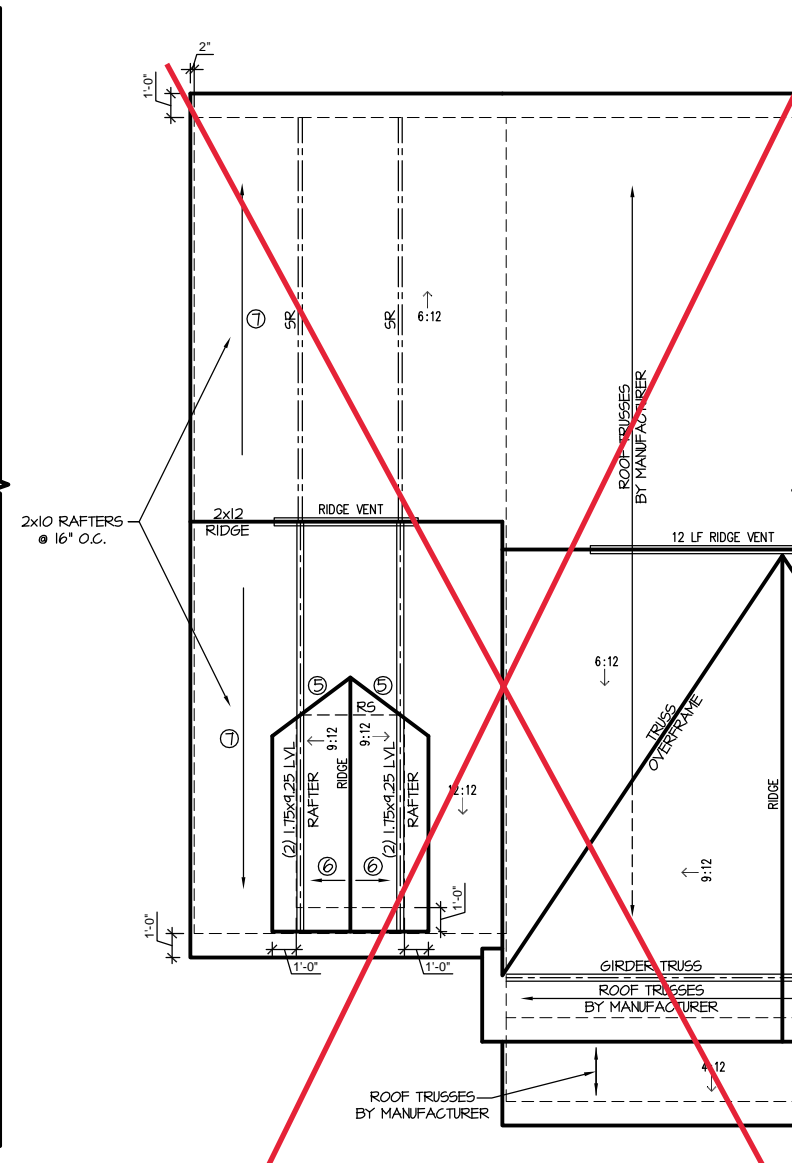
ROOF PLAN ELEVATION - 'D'

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



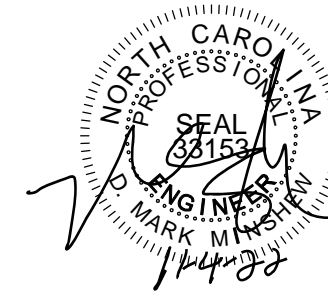
TANDEM GARAGE ROOF PLAN 'D'

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



TANDEM GARAGE ROOF PLAN 'D' W/ LOFT/ BEDROOM 5 & 6

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



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