

123 DC - 195 Duncan Creek Rd., Lillington, NC 27546

PLAN 1 The Clayton - LH 'FRENCH COUNTRY' ELEVATION



ARCHITECTURAL DRAWINGS	
Sheet No.	Sheet Description
0.0	Cover Sheet
1.1	Foundation (Slab)
1.1.1	Foundation Options (Slab)
1.2	Foundation (Crawl)
1.2.1	Foundation Options (Crawl)
1.3	Foundation (Stem Wall Slab)
1.3.1	Foundation Options (Stem Wall Slab)
2.1	First Floor Plan
2.1.1	First Floor Plan Options
2.1.2	First Floor Plan Options
2.1.3	Third Car Garage Plan and Electrical
2.2	Optional Second Floor Plan
2.2.1	Second Floor Plan Options
2.4	Covered Parch Plans & Elevations (Slab)
2.4.1	Covered Parch Plans & Elevations (Crawl/ Stem Wall)
2.5	Extended Covered Parch Plans & Elevations (Slab)
2.5.1	Extended Covered Parch Plans & Elevations (Crawl/ Stem Wall)
3.1	Front & Rear Elevations (Slab)
3.1.1	Front & Rear Elevations (Crawl/ Stem Wall)
3.2	Side Elevations (Slab)
3.2.1	Side Elevations (Crawl/ Stem Wall)
3.3	Side Load Garage Elevations (Slab)
3.3.1	Side Load Garage Elevations (Crawl/Stem Wall)
3.3.2	Third Car Garage Elevations (Slab)
3.3.3	Third Car Garage Elevations (Crawl/Stem Wall)
3.4	Roof Plan & Third Car Garage Roof Option
5.1	First Floor Electrical Plan
5.1.1	First Floor Options Electrical Plan
5.1.2	Alternate First Floor Electrical Plan
5.2	Optional Second Floor Electrical Plan

REVISION LOG	
REVISION:001	DATE: 7/22/2022
1.	ADD STEM WALL SLAB FOUNDATION SHEETS.
2.	ADD "STEM WALL" TO CRAWL ELEVATION TITLES AND ADD NOTE "SEE FOUNDATION PAGES FOR FOUNDATION TYPE". UPDATE SHEET TITLES
3.	ADD ELECTRICAL PLANS
REVISION:2	DATE: 9/14/2022
1.	ADD OPT OWNER'S SUITE W/ LARGER WALK-IN CLOSET. UPDATE ELEVATIONS, FLOOR PLANS AND FOUNDATION SHEETS.
2.	ADD 2ND ACCESS TO STORAGE @ GAMEROOM.
3.	ADD OPTIONAL 2440 WINDOW IN OWNER'S BATH @ OPT OWNER'S SUITE W/ SITTING ROOM.
REVISION:3	DATE: 11-10-2023
1.	DORMERS WITH DIMENSIONS AND WINDOW SIZES SHOWN ON THE SECOND FLOOR PLANS.
2.	CHANGED THE NAME OF THE ENGLISH COUNTRY TO CRAFTSMAN
3.	UPDATED STANDARD OWNER'S SHOWER TO 60"x36"
4.	CHANGED THE ROOM NAME FLEX ROOM TO POCKET OFFICE FOR OPTIONS
5.	MOVED DOG WASH TO BE AGAINST THE DROP ZONE.
6.	PLUMBING ON THE FOUNDATIONS ADJUSTED
7.	CHANGED SMART DOOR DELIVERY DOOR TO AN INSWING
8.	LABELLED THE POCKET OFFICE SECOND FLOOR DOOR TO FULL GLASS
REVISION:4	DATE: 1-21-2024
1.	ADD A 3/0X5/0 WINDOW AS AN OPTION AT THE TOP OF THE STAIRS ON THE SECOND FLOOR OF FLOOR PLAN AND SIDE ELEVATIONS
REVISION:5	DATE: 2-24-2024
1.	ADD THIRD CAR GARAGE TO CRAFTSMAN ELEVATIONS
REVISION:6	DATE: 8-6-2024
1.	ADD 1'-0" TO THE SMART DOOR DELIVERY
2.	REMOVED 1'-0" FROM THE FOYER BY MOVING THE FRONT DOOR WALL INTO THE HOUSE
3.	CHANGED FELX OFFICE OPT. DOOR AND CO TO 4/8X6/8
4.	CHANGED SQUARE FOOTAGE
5.	MOVED POCKET OFFICE DOOR TOWARDS THE FRONT DOOR AND REVERSED THE OPENING
6.	UPDATED ALL FOUNDATIONS TO REFLECT FOYER WALL & SMART DOOR DELIVERY CHANGE
7.	REDUCED KITCHEN ISLAND COUNTERTOP TO 3'-8 FROM 4'-0"

10-22-24- Redlines - JJ



side load garage

Crawl Space Foundation

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		
	FRENCH COUNTRY	
	UNHEATED	HEATED
FIRST FLOOR	0	1865
FRONT PORCH	88	0
2 CAR GARAGE	468	0
PATIO/ DECK	196	0
SUBTOTALS	752	1865
TOTAL UNDER ROOF	2617	
OPTIONS		
	UNHEATED S.F.	HEATED S.F.
SECOND FLOOR	0	803
COVERED PORCH	196	0
EXTENDED COVERED PORCH	+65	0
THIRD CAR GARAGE	+260	0
SMART DOOR	-31	+31

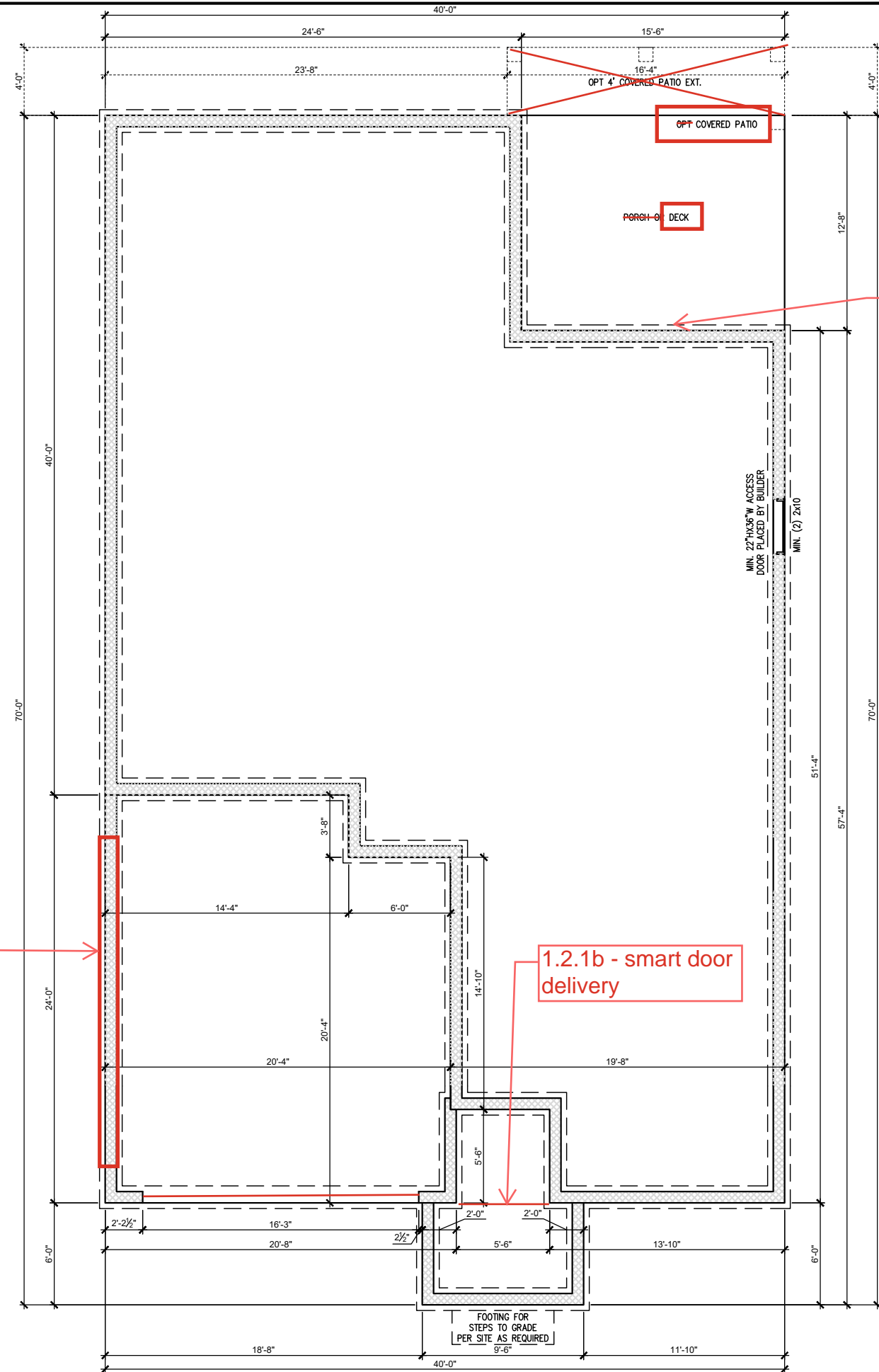
2699 heated
721 unheated

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THE CLAYTON - LH
Cover Sheet 'French Country'

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

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



1.2.1b - side load garage

1.2.1b - smart door delivery

1.2.1b - fireplace

CRAWL FOUNDATION PLAN 'FRENCH COUNTRY'
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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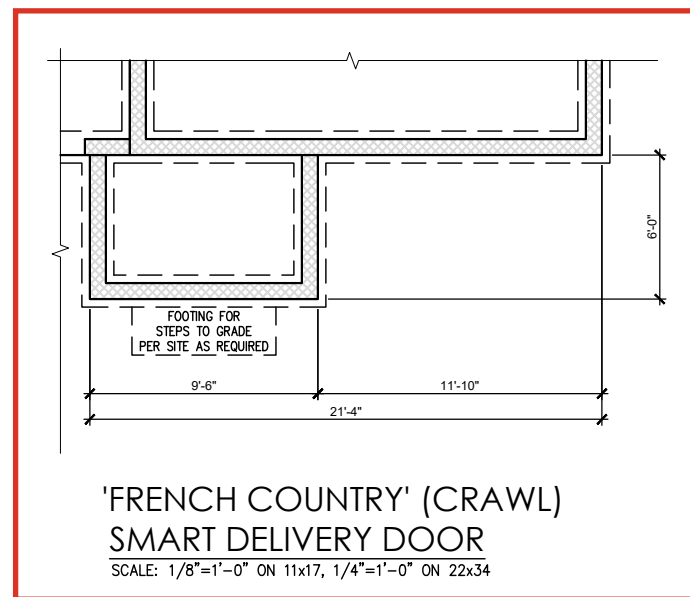
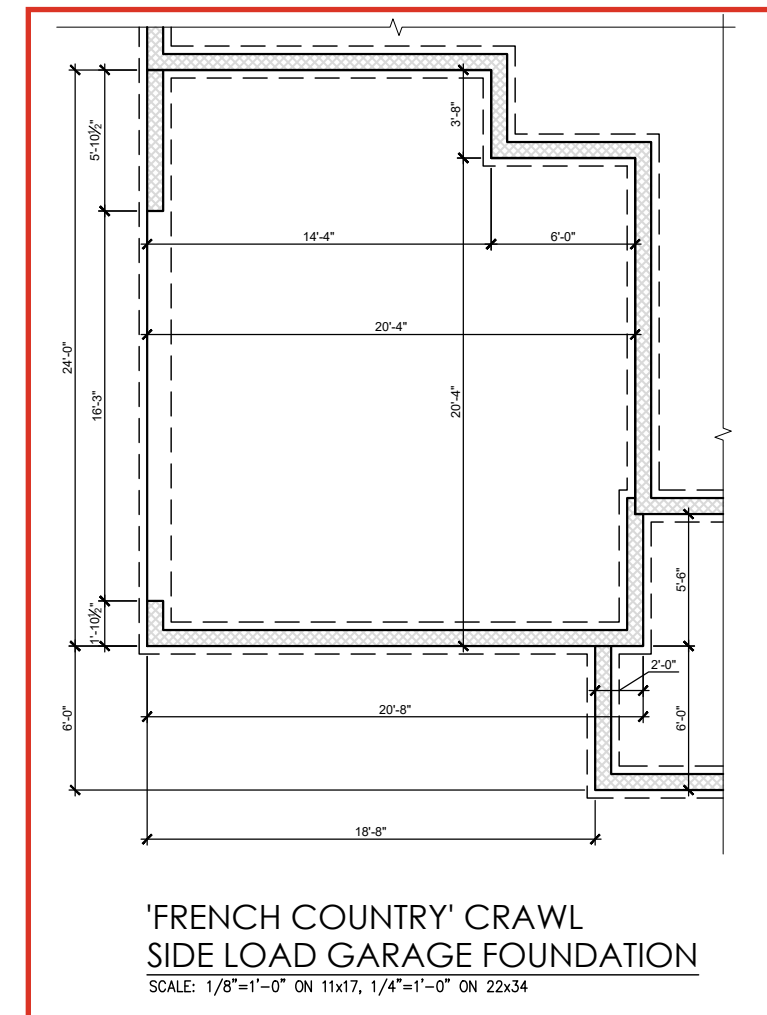
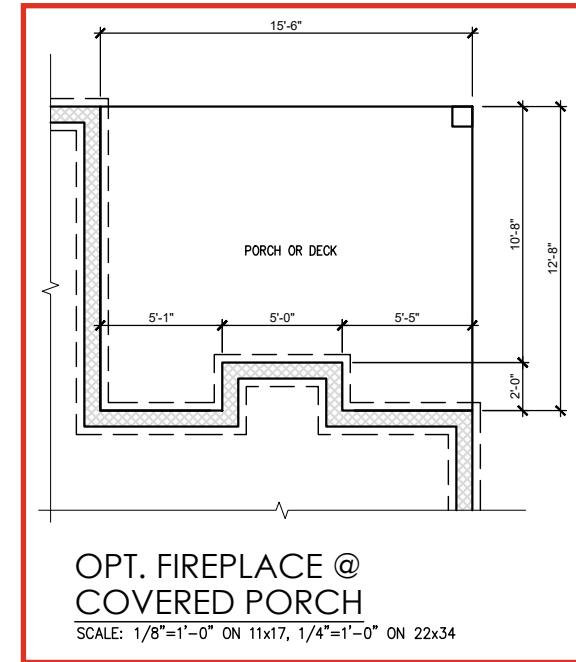
THE CLAYTON - LH

 Crawl Foundation 'French Country'

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

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

SHEET
1.2b



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THE CLAYTON - LH

Crawl Foundation Options 'French Country'

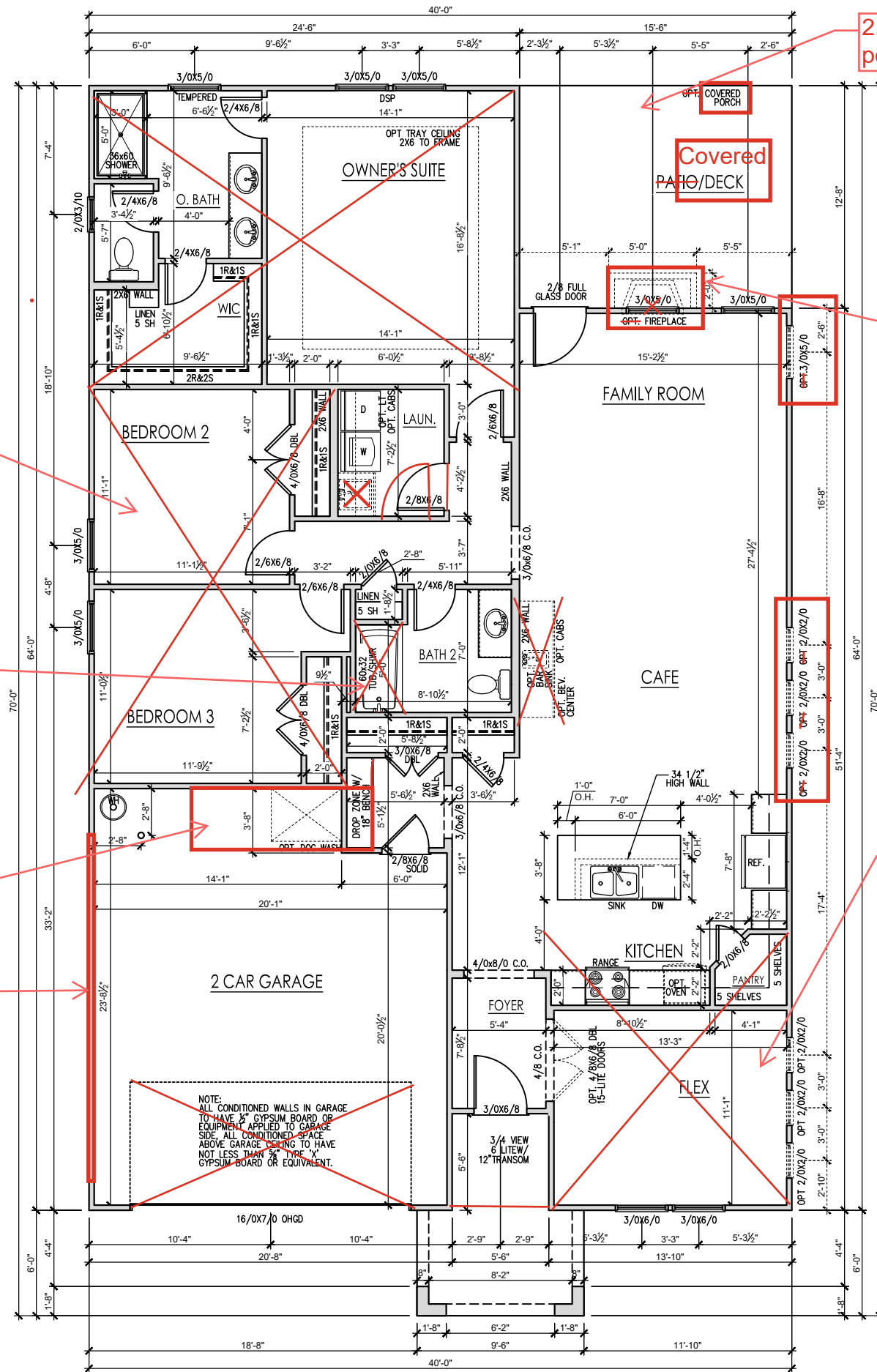
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South Designs
ISSUE DATE:
7/1/2021
CURRENT REVISION DATE:

SCALE:
1/8" = 1'-0"
SHEET
1.2.1b

General Floor Plan Notes

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

1. Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 9'-1 1/2" at attics U.N.O. 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 7'-8" AFF at First Floor, and 7'-4" 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, Tray 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 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.



2.4.1b - covered porch

Covered PATIO/DECK

2.1.1b - family room fireplace

2.1.2b - owner's suite with extended WIC, Tub & shower w/ seat, bedroom 2, laundry

Shower ILO tub Shower: Fiberglass pan with tile surround

2.1.1b - stairs to 2nd floor

2.1.1b side load garage

2.1.1b - messy kitchen. pantry, pocket office & smart door delivery

FIRST FLOOR PLAN 'FRENCH COUNTRY'
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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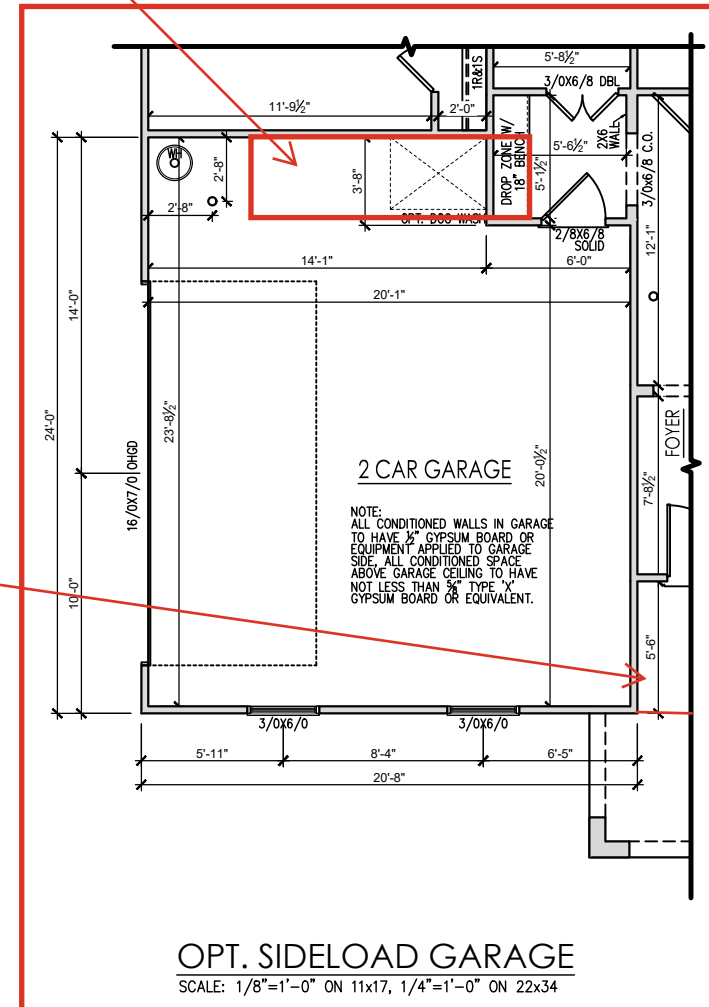
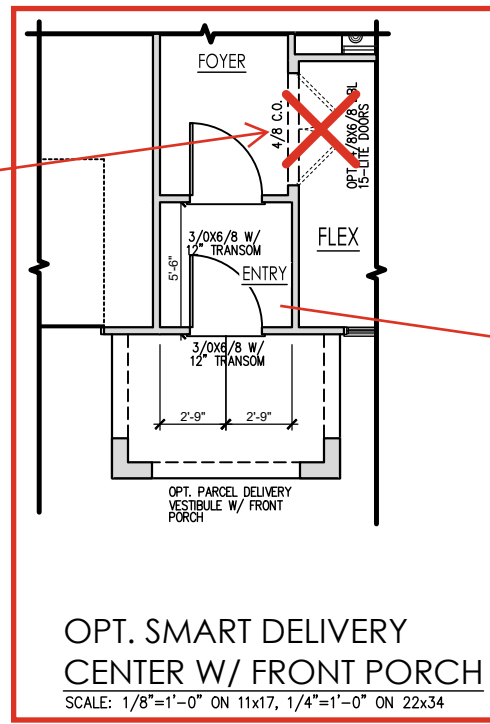
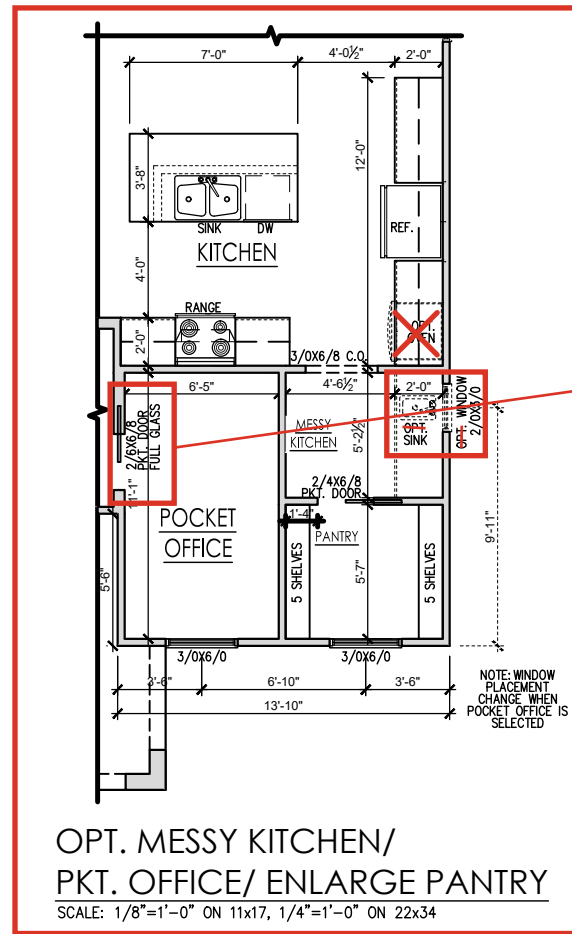
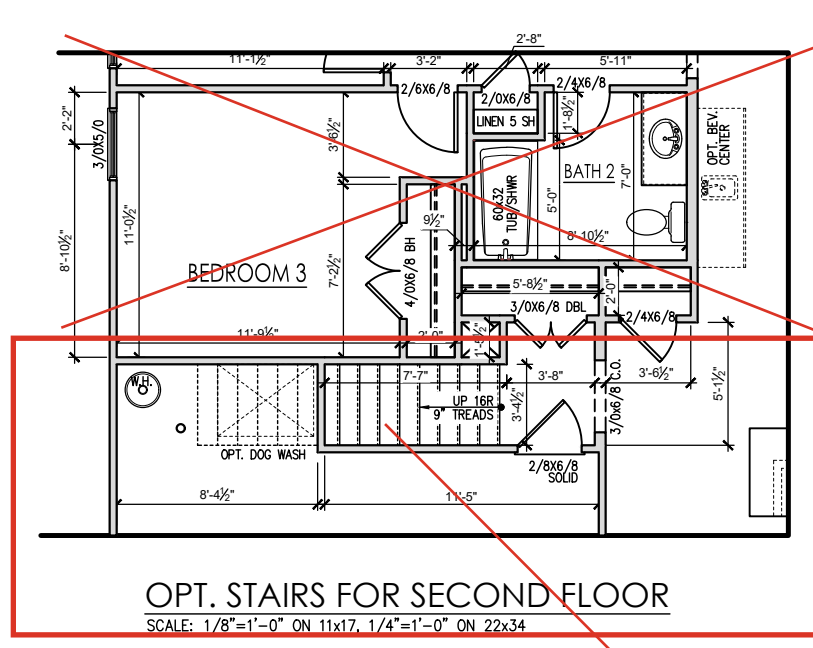
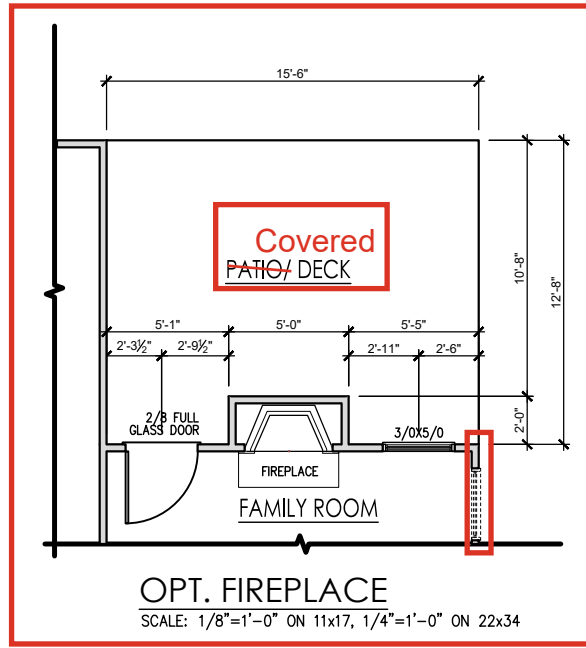
DRAWN BY:
South Designs
ISSUE DATE:
7/1/2021
CURRENT REVISION DATE:

SCALE:
1/8" = 1'-0"
SHEET
2.1b

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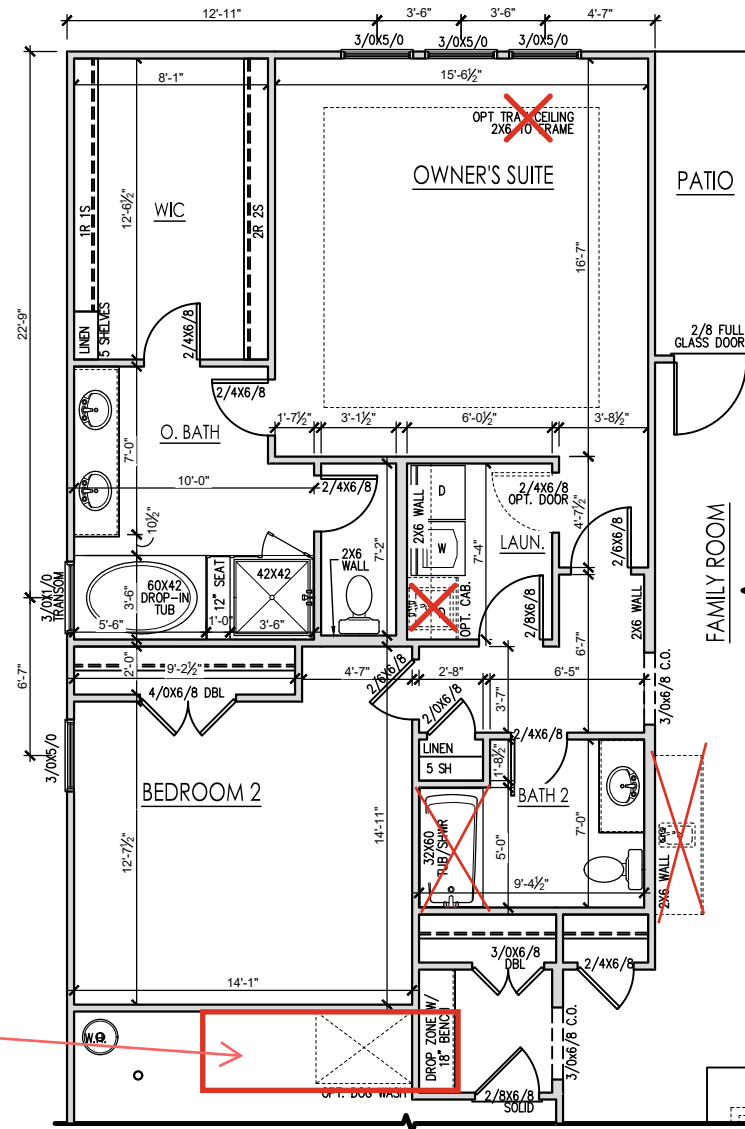
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2.1.1b- Stairs

OPT. OWNER'S SUITE W/ LARGE WALK-IN CLOSET
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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THE CLAYTON - LH

 Alternate First Floor Plan 'French Country'

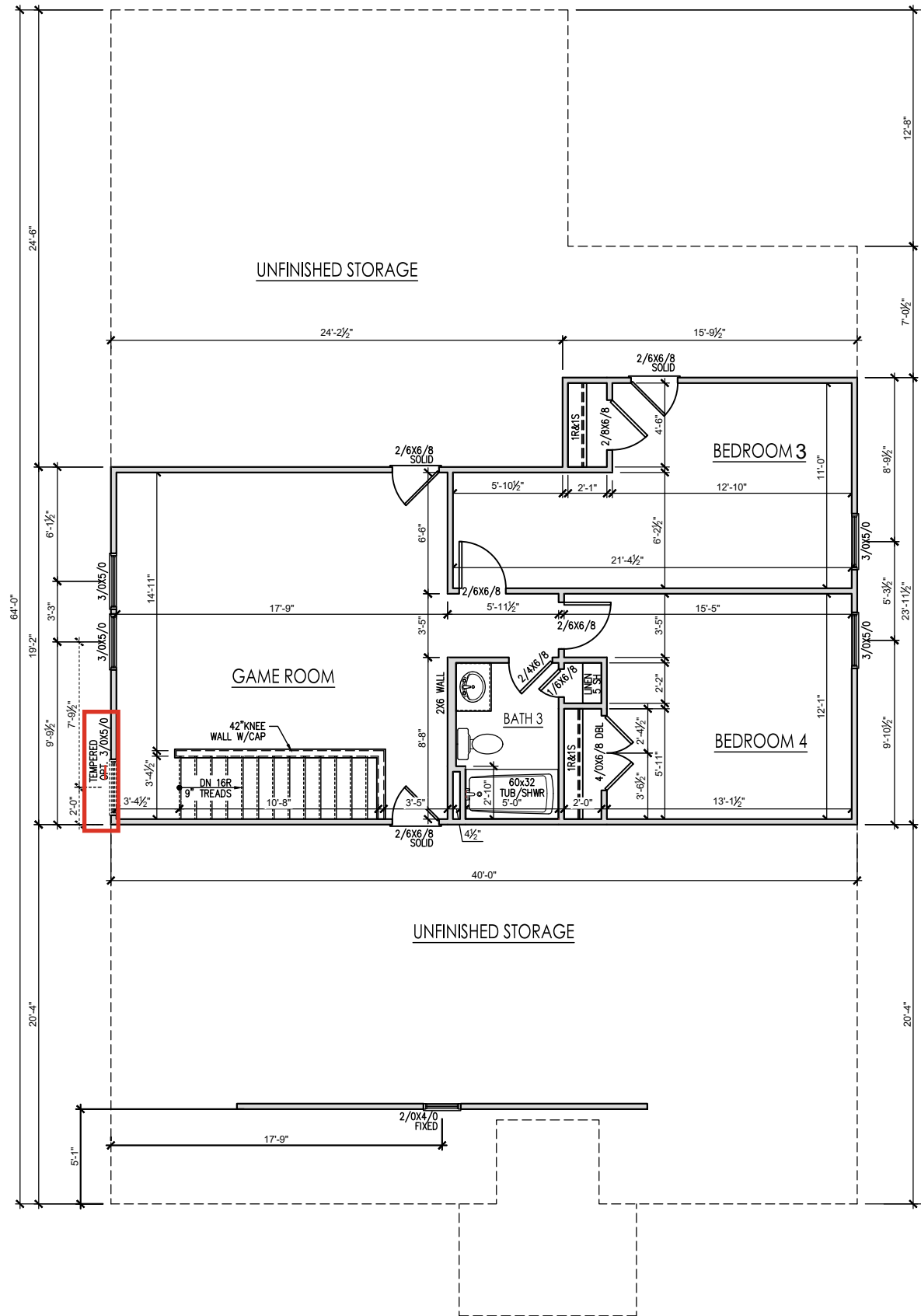
DRAWN BY:
South Designs
 ISSUE DATE:
7/1/2021
 CURRENT REVISION DATE:

 SCALE:
1/8" = 1'-0"
 SHEET
2.1.2b

General Floor Plan Notes

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SECOND FLOOR PLAN 'FRENCH COUNTRY'

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

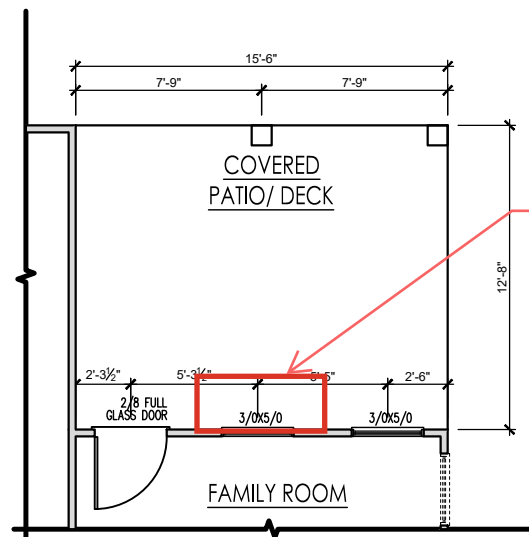
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THE CLAYTON - LH
 Opt. Second Floor Plan 'French Country'

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

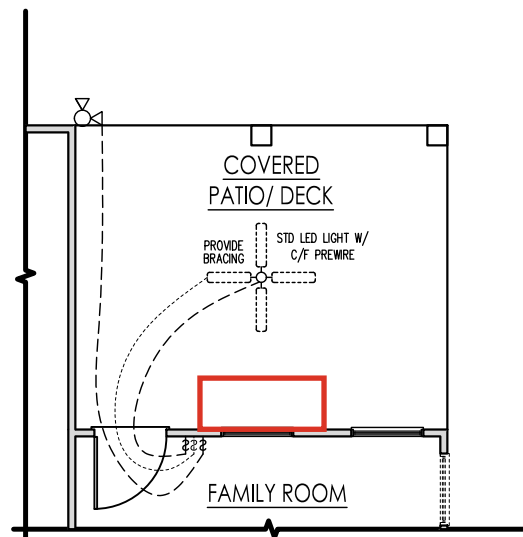
SCALE:
1/8" = 1'-0"

SHEET
2.2b

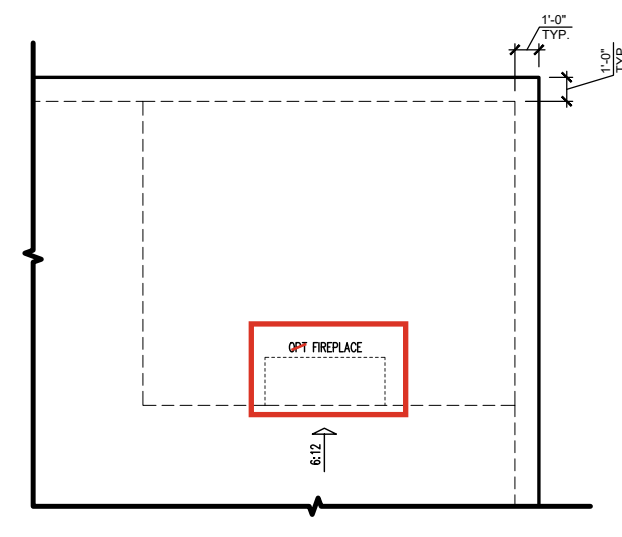


COVERED PORCH FLOOR PLAN
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

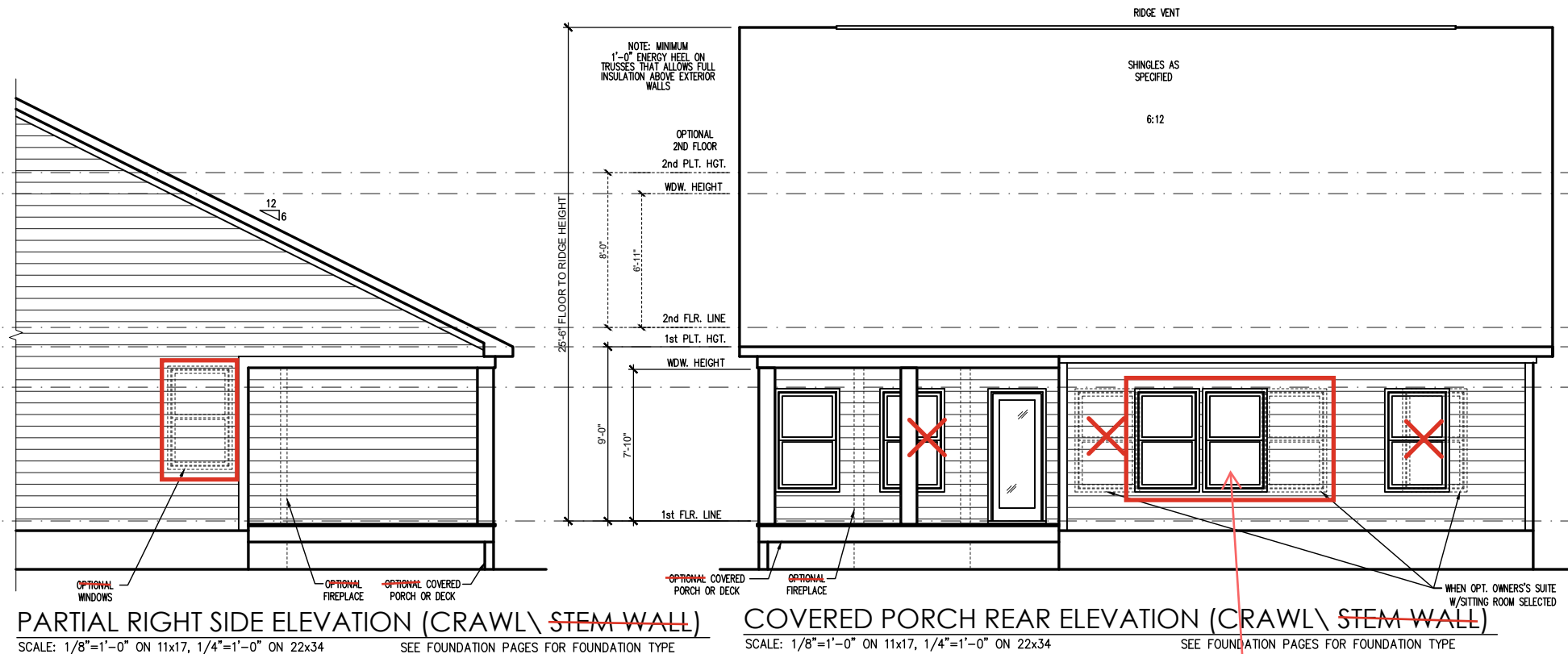
2.1.1b - fireplace



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



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



PARTIAL RIGHT SIDE ELEVATION (CRAWL / STEM WALL)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

COVERED PORCH REAR ELEVATION (CRAWL / STEM WALL)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

3.1.1b- owner's suite windows

REV. #	DESCRIPTION	DATE
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THE CLAYTON - LH
Covered Porch Plans & Elev (Crawl or Stem Wall) French Country

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

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

SHEET
2.4.1b

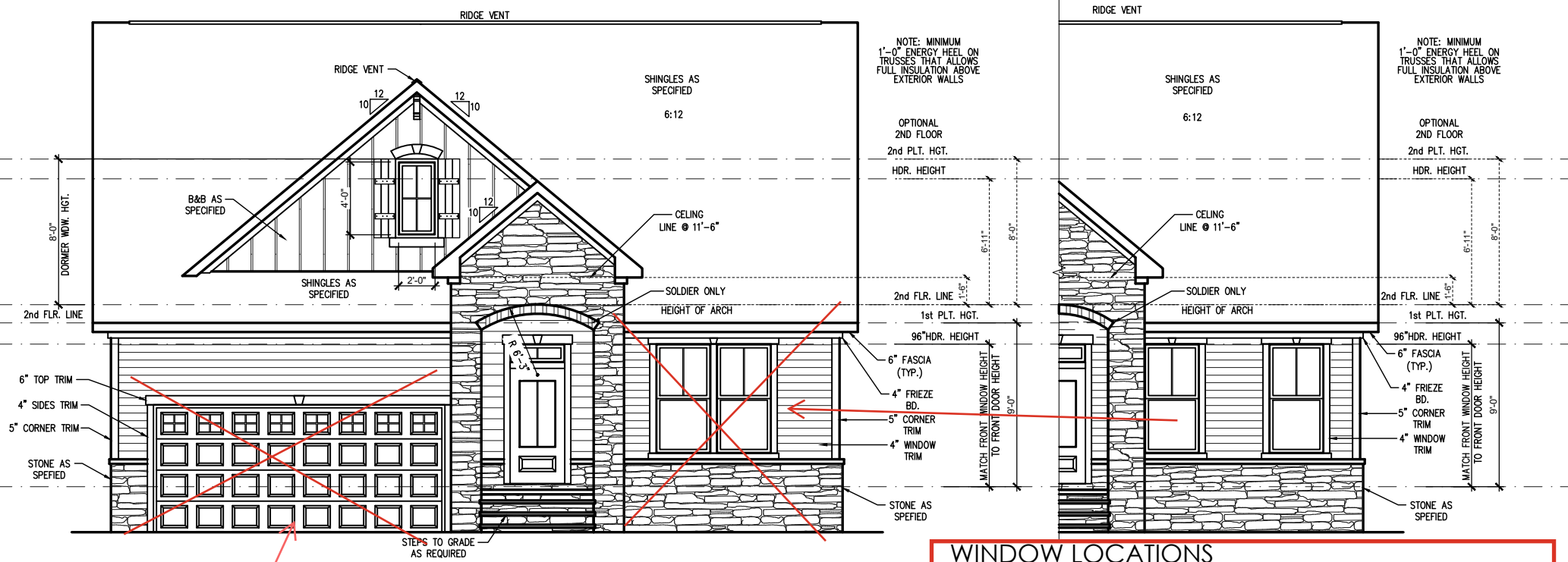
General Elevation Notes

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

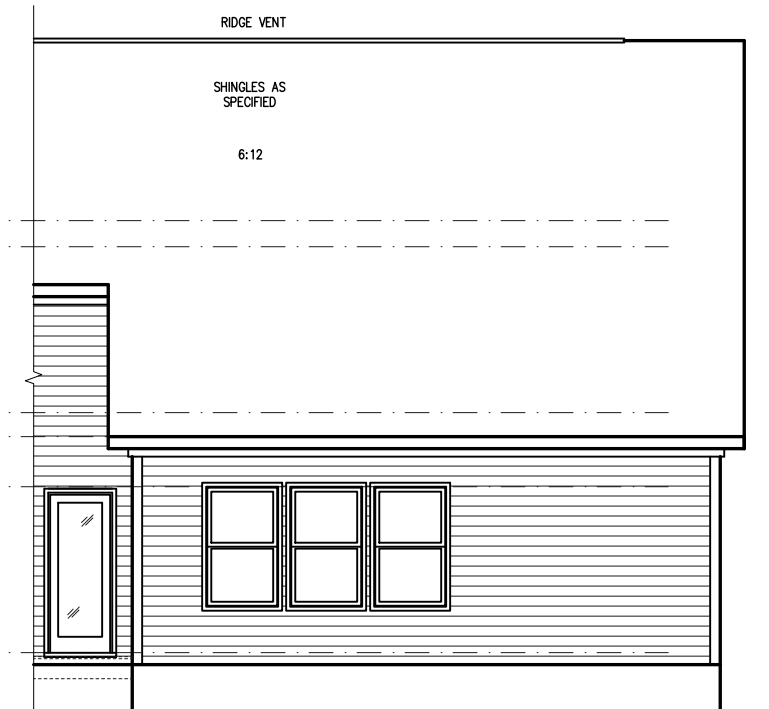
Opening Size	Angle
up to 4'-0"	3-1/2" x 3-1/2" x 5/16"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to 6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to 8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to 16'-4"	7" x 4" x 3/8" LLV



FRONT ELEVATION 'FRENCH COUNTRY' (CRAWL/STEM WALL)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

WINDOW LOCATIONS WHEN OFFICE ARE SELECTED 'FRENCH COUNTRY' (CRAWL/STEM WALL)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

3.3.1b- side load garage front elevation



WINDOW LOCATIONS W/OPT. OWNER'S SUITE W/ LARGE W.I.C. 'FRENCH COUNTRY'
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

REV. #	DESCRIPTION	DATE
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THE CLAYTON - LH
Front & Rear Elev (Crawl or Stem Wall) 'French Country'

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

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

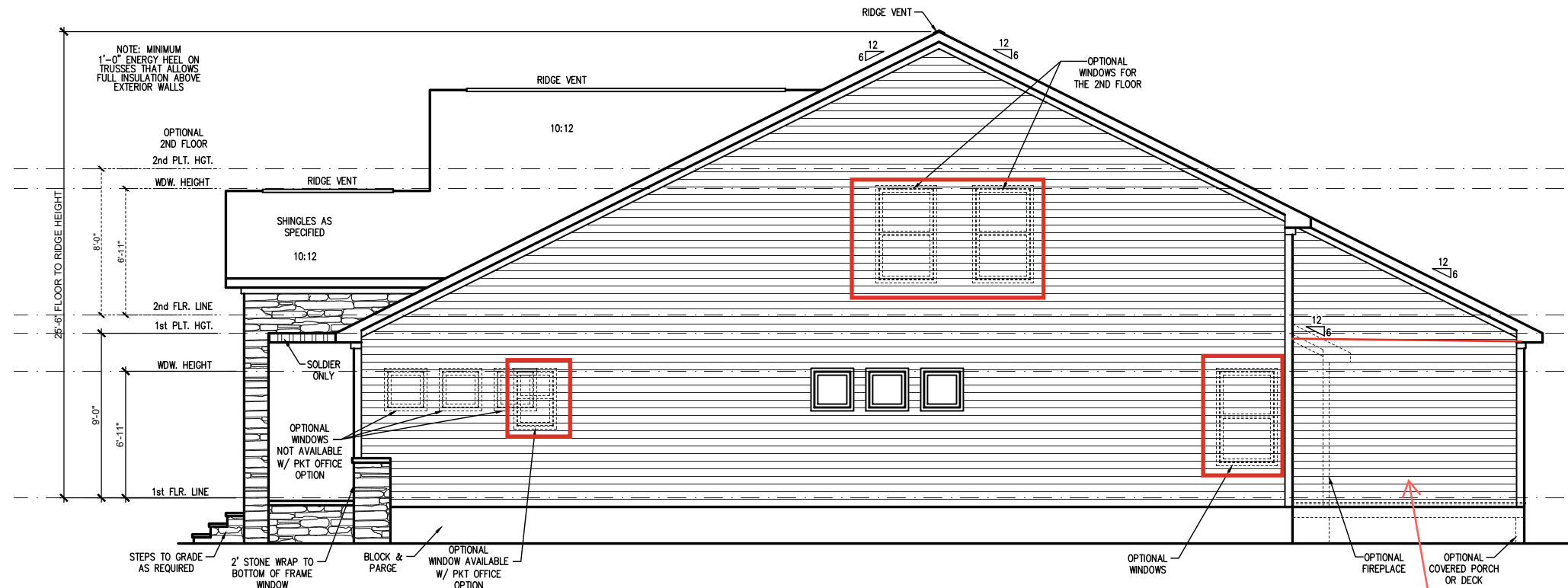
General Elevation Notes

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.

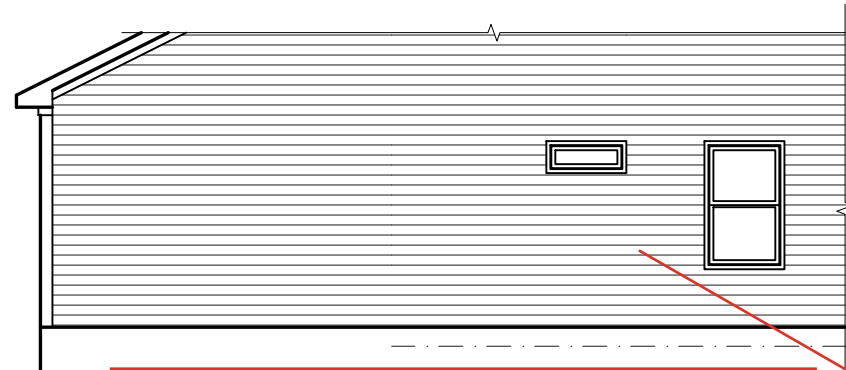
Masonry Opening Lintel Schedule

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

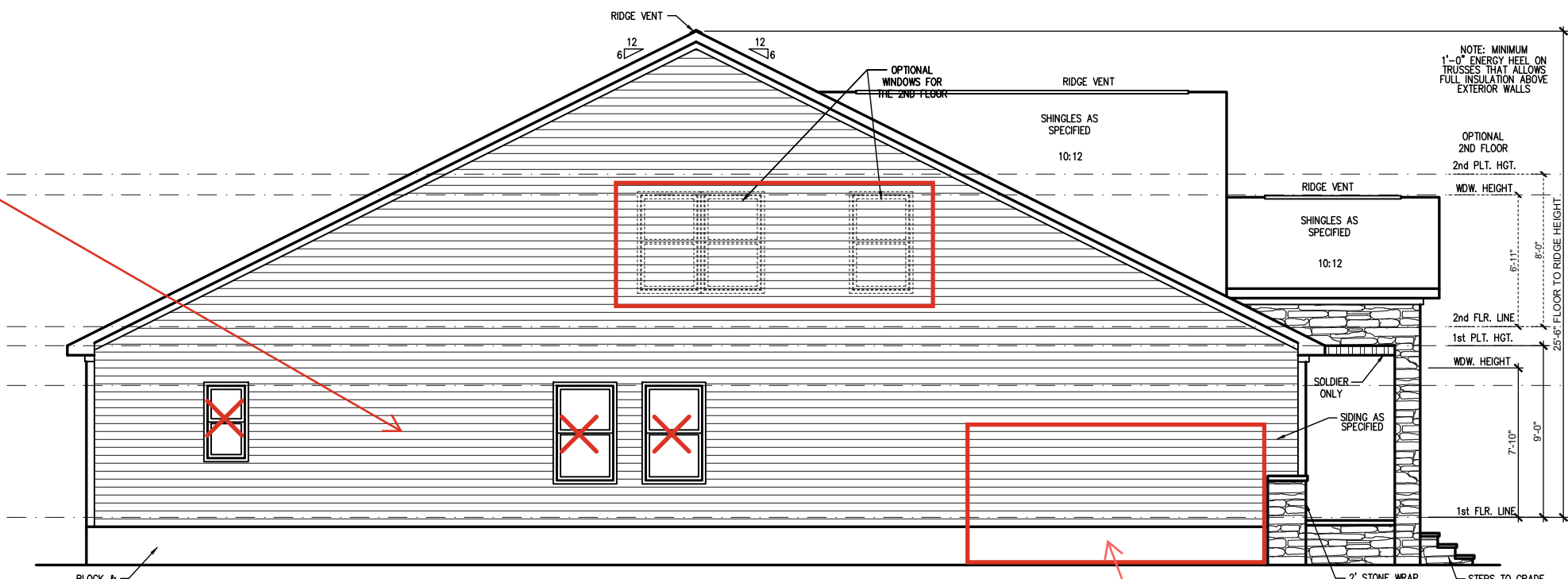


RIGHT SIDE ELEVATION 'FRENCH COUNTRY' (CRAWL/STEM WALL)
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34
 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

2.4.1b - covered porch



WINDOW LOCATIONS W/OPT. OWNER'S SUITE W/ LARGE W.I.C. 'FRENCH COUNTRY'
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



LEFT SIDE ELEVATION 'FRENCH COUNTRY' (CRAWL/STEM WALL)
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34
 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

3.3.1b - side load garage

REV.#	DATE	DESCRIPTION
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DRAWN BY:
 South Designs
 ISSUE DATE:
 7/1/2021
 CURRENT REVISION DATE:
 ...

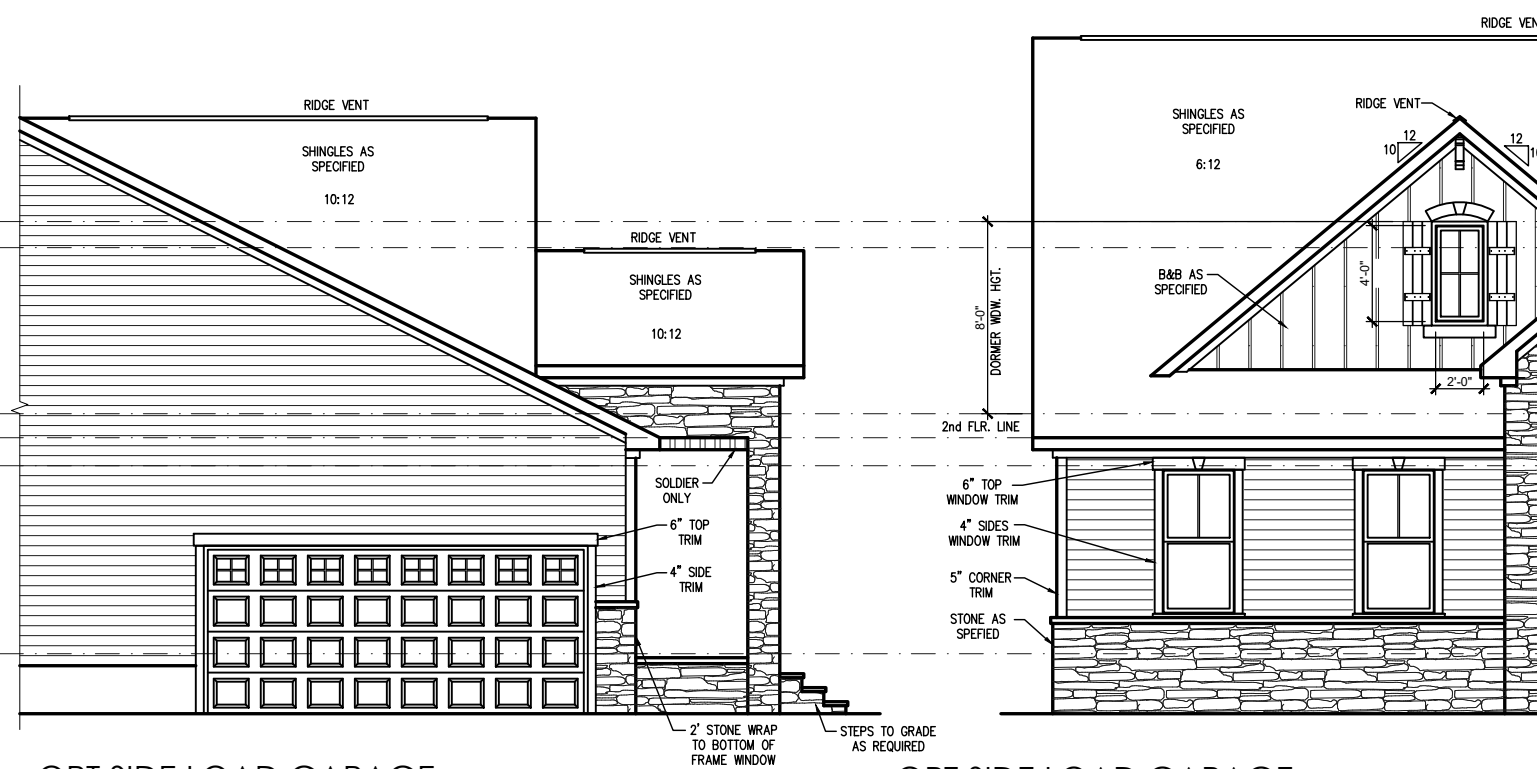
General Elevation Notes

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
4. House Wrap, "Tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
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.
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.
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



OPT SIDE LOAD GARAGE
 'FRENCH COUNTRY' (CRAWL/ ~~STEM WALL~~)
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

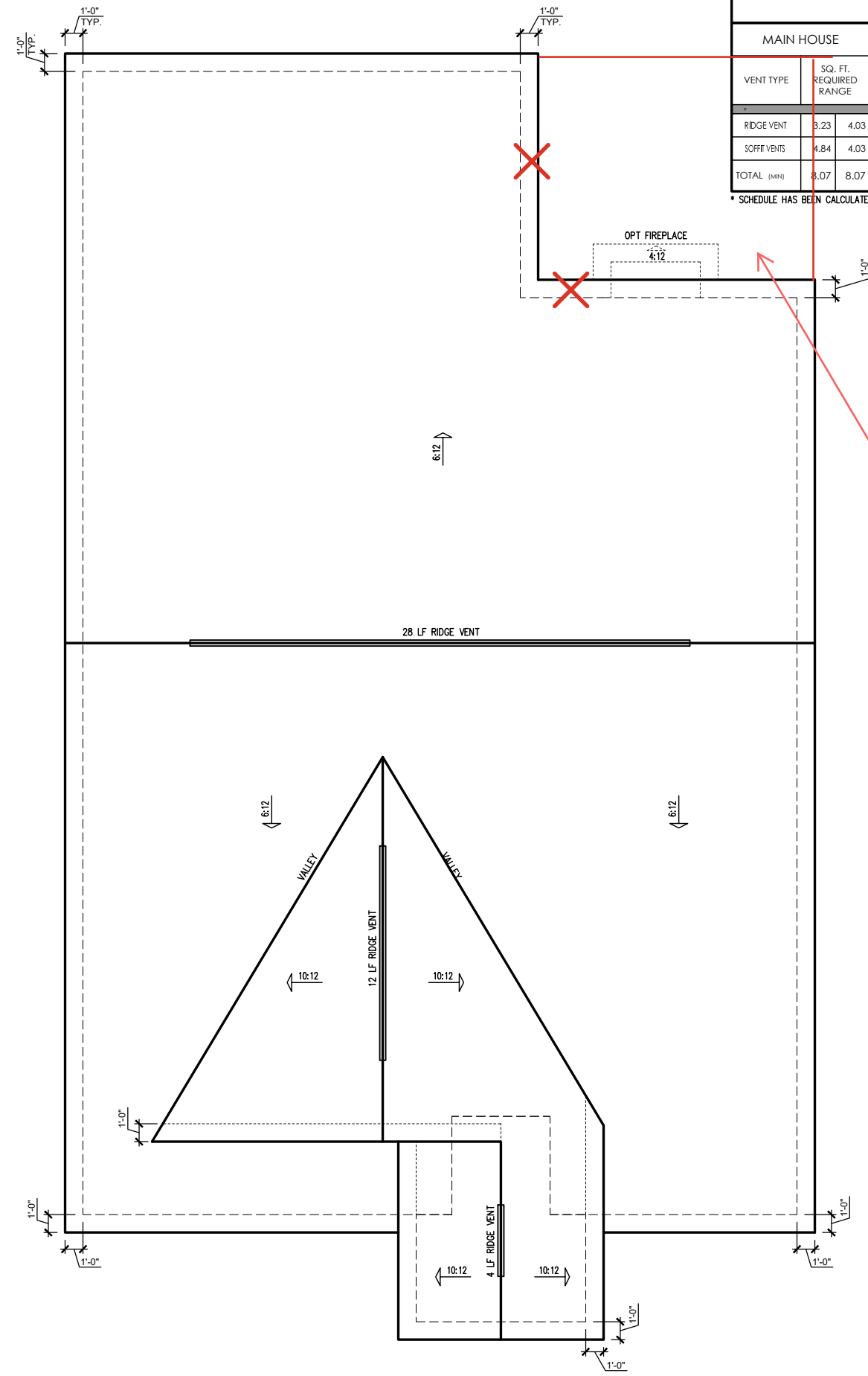
OPT SIDE LOAD GARAGE
 'FRENCH COUNTRY' (CRAWL/ ~~STEM WALL~~)
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34 SEE FOUNDATION PAGES FOR FOUNDATION TYPE

REV.#	DESCRIPTION	DATE
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THE CLAYTON - LH
 Side Load Garage Elev (Crawl or Stem Wall) 'French Country'

ATTIC VENT SCHEDULE								
FRENCH COUNTRY								
MAIN HOUSE		SQ FTG	2420	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	3.23	4.03	7.50	68.18	0	0	60.00	
SOFFIT VENTS	4.84	4.03	3.50	31.82			0	56.00
TOTAL (MIN)	8.07	8.07	11.00	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



2.4.1b - covered porch

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

REV. #	DESCRIPTION	DATE
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THE CLAYTON - LH

 Roof Plan 'French Country'

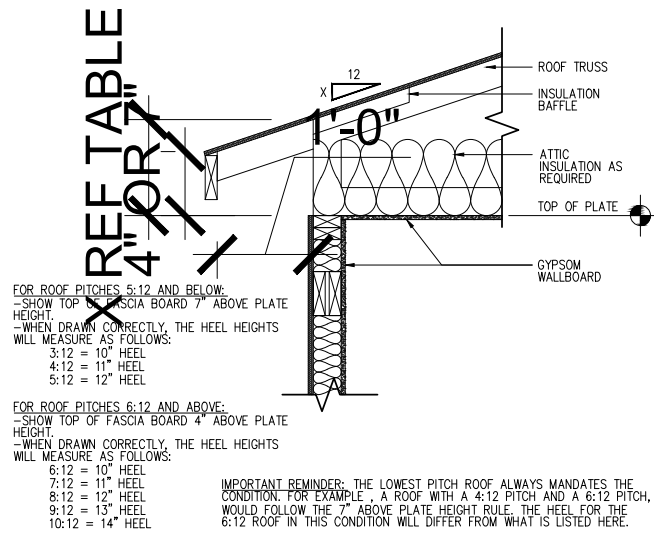
DRAWN BY:
 South Designs
 ISSUE DATE:
 7/1/2021
 CURRENT REVISION DATE:

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

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"

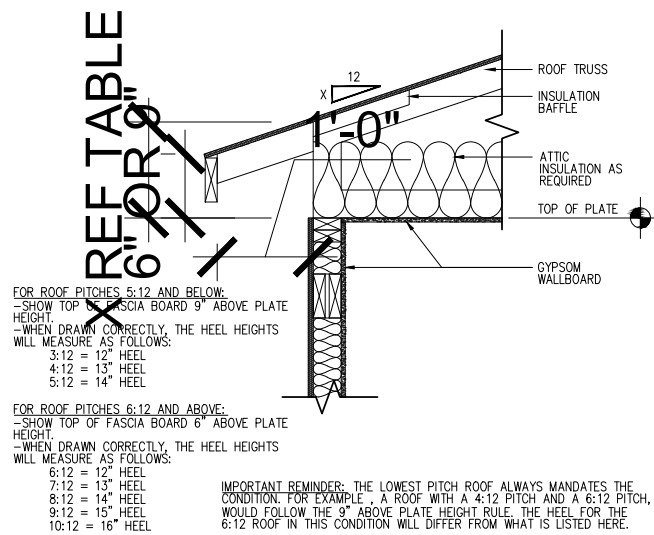
TYPICAL STAIR DETAIL

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



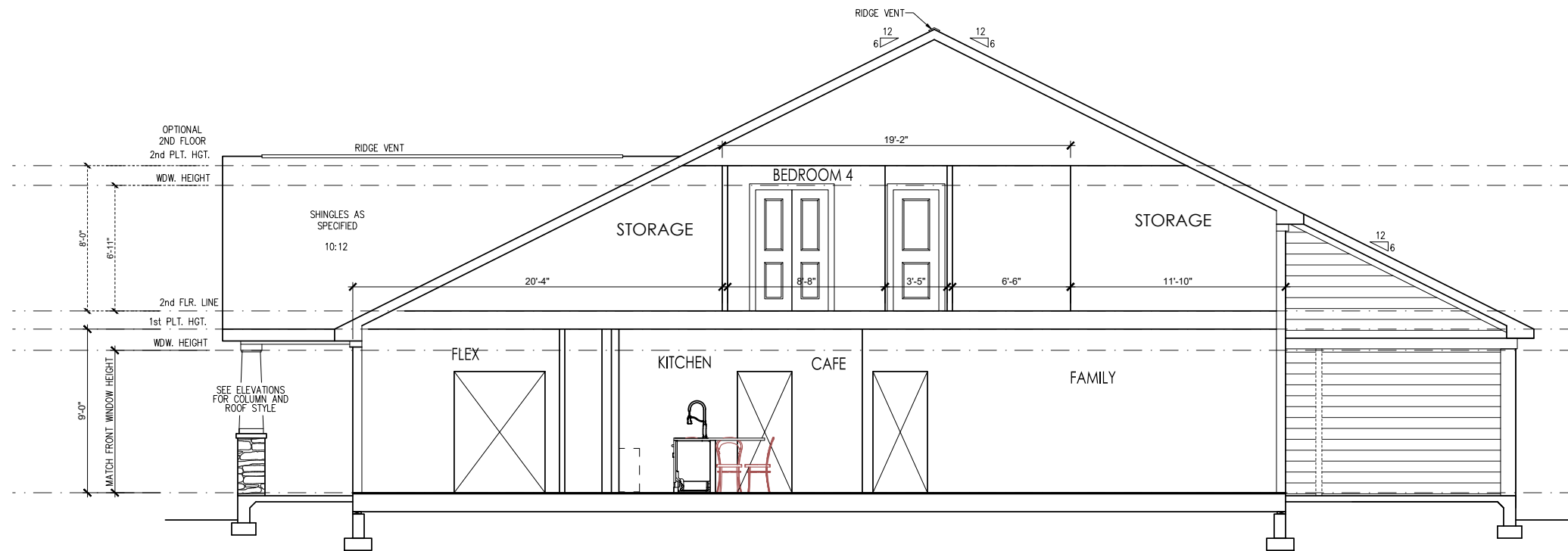
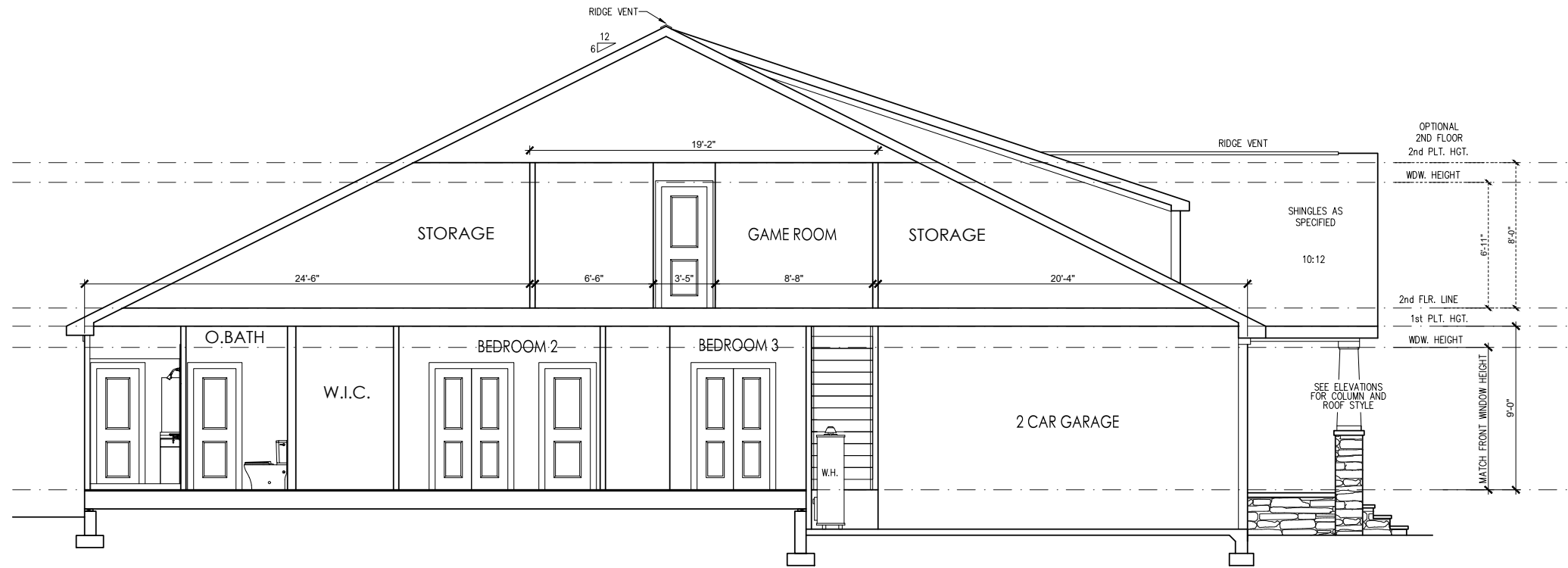
ENERGY HEEL DETAIL: CZ 2 & 3

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



ENERGY HEEL DETAIL: CZ 4 & 5

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



REV.#	DESCRIPTION	DATE
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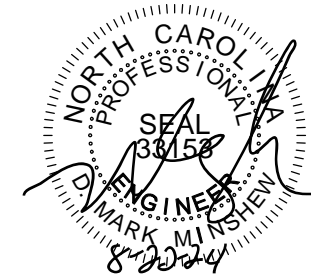
THE CLAYTON - LH

Building Sections 'French Country'_Crawl

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

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

SHEET 4.0.1b



PROJECT #
21-2967.1-GL

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S-1.2

S-1.2.2 - owner's suite w/ ext WIC

S-1.2.1 - fireplace and covered porch

S-1.2.1 - side load garage

S-1.2.1 - Smart Door Delivery

FOUNDATION STRUCTURAL NOTES

- NC (2018 NCRG); Wind: 115-120 mph - CRAWL
- ① (3)2x10 SYP#2 OR SPF#2 GIRDER, TYPICAL UNO.
 - ② CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE	HOLLOW	SOLID
8x16	UP TO 32"	UP TO 5'-0"
12x16	UP TO 48"	UP TO 9'-0"
16x16	UP TO 64"	UP TO 12'-0"
24x24	UP TO 96"	

 WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.
 - ③ WALL FOOTING AS FOLLOWS

DEPTH:	8" - UP TO 2 STORY
	10" - 3 STORY

WIDTH:	16" - UP TO 2 STORY
	20" - 3 STORY

BRICK:	16" - 1 STORY
	20" - 2 STORY
	24" - 3 STORY
 - FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE R404.1.1 (1 THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
 - ④ (4) 2x10 SPF #2 OR SYP #2 GIRDER
 - ⑤ (2) 1.75x9.25 LVL OR LSL GIRDER
 - ⑥ (3) 1.75x9.25 LVL OR LSL GIRDER
1. "■" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.
8. ABBREVIATIONS:
 "SJ" = SINGLE JOIST
 "DJ" = DOUBLE JOIST
 "TJ" = TRIPLE JOIST
9. ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

WOOD I-JOISTS

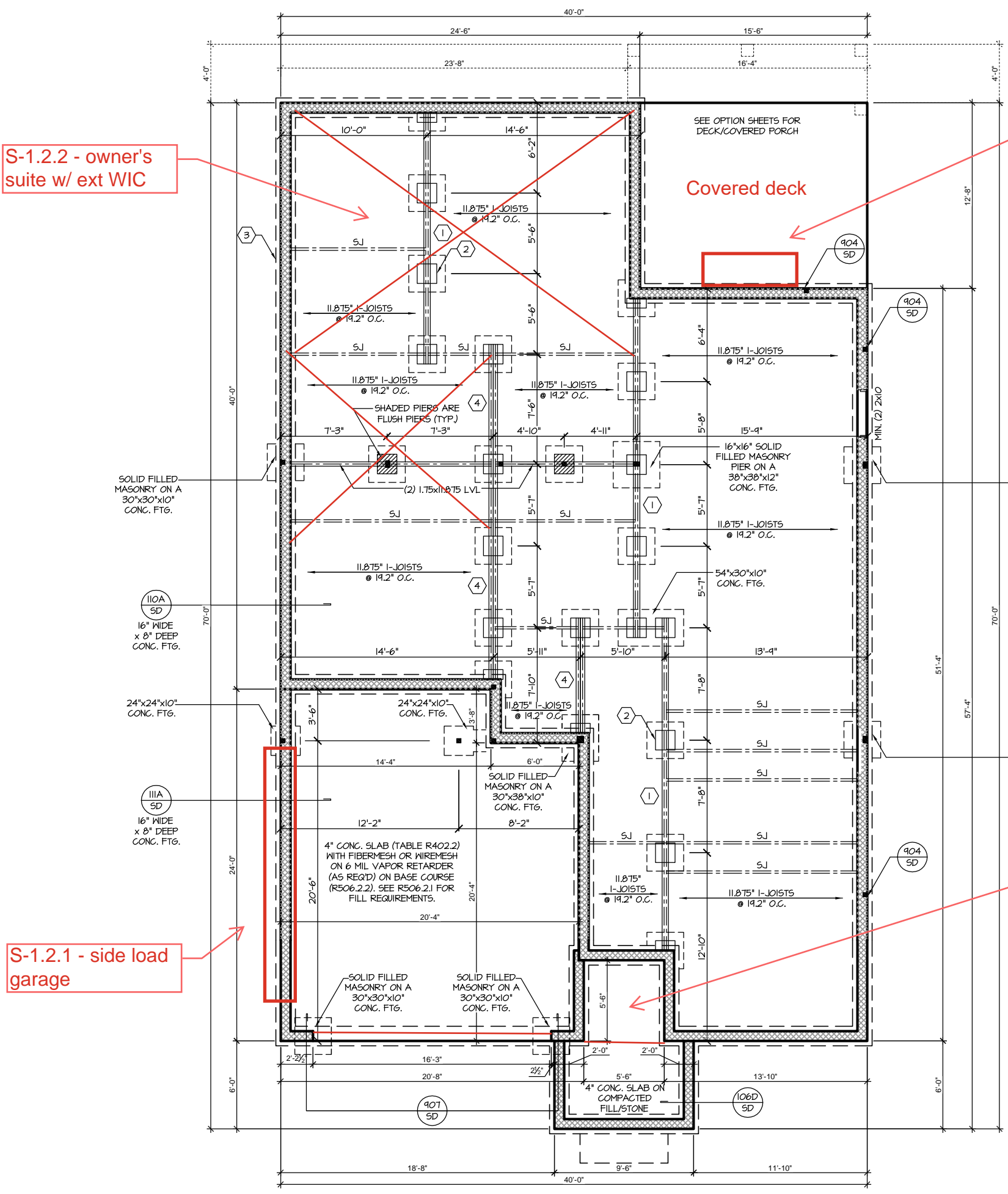
- (SHALL BE ONE OF THE FOLLOWING):
- TJ 210 BY TRUS JOIST
 - LPI 20 PLUS BY LP
 - BCI 5000s LB BY BC
 - BLI 40 BY onCENTER
- ALL WOOD I-JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
 - HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.
 - FLOOR TRUSSES BY MANUFACTURER MAY BE SUBSTITUTED FOR I-JOISTS.

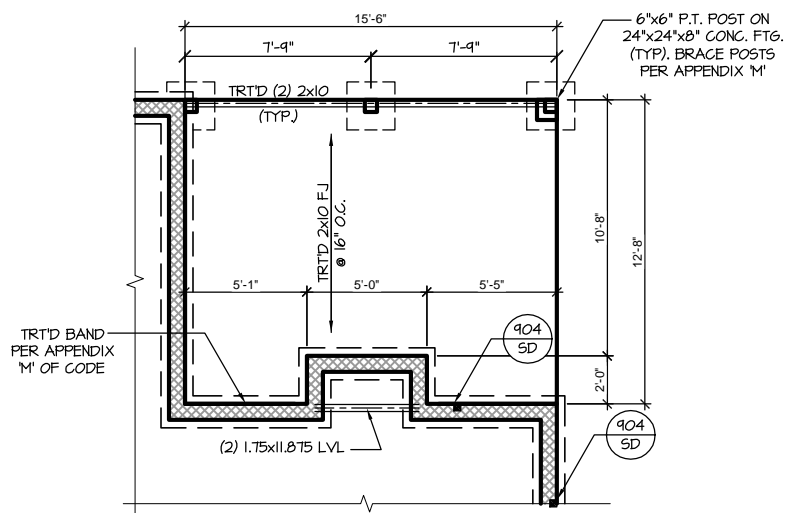
WITH SECOND FLOOR AND OPT.
OWNER'S SUITE WITH LARGE WALK-IN CLOSET

CRAWL FOUNDATION PLAN 'FRENCH COUNTRY'

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

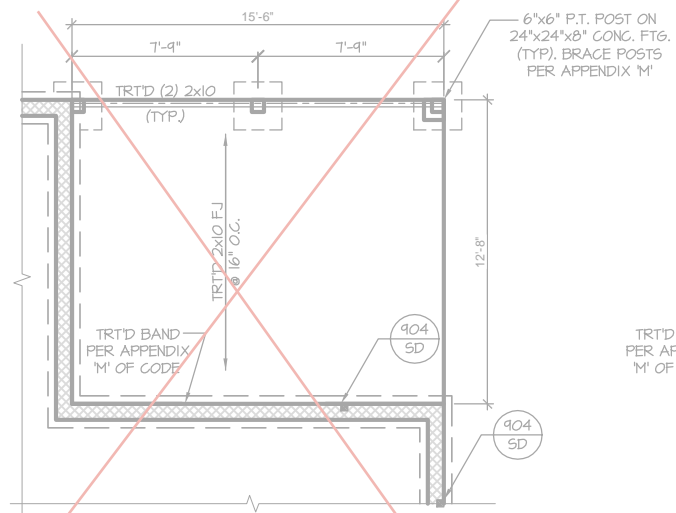
REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.





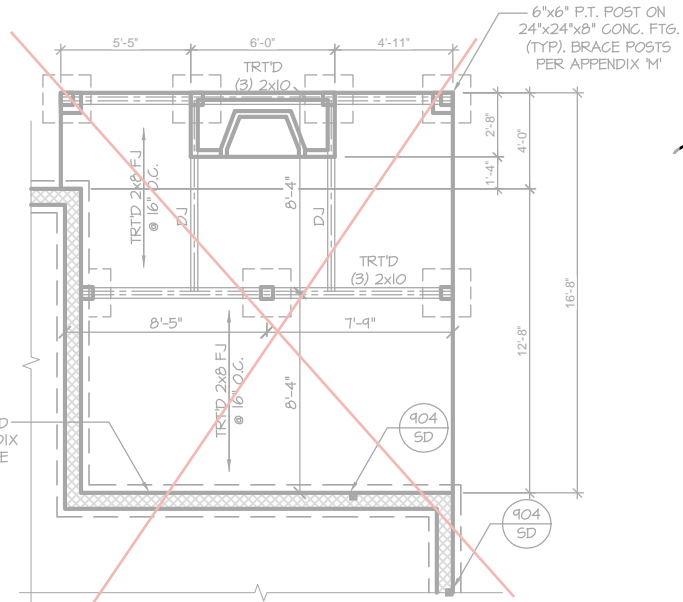
**OPT. FIREPLACE @
COVERED PORCH**

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



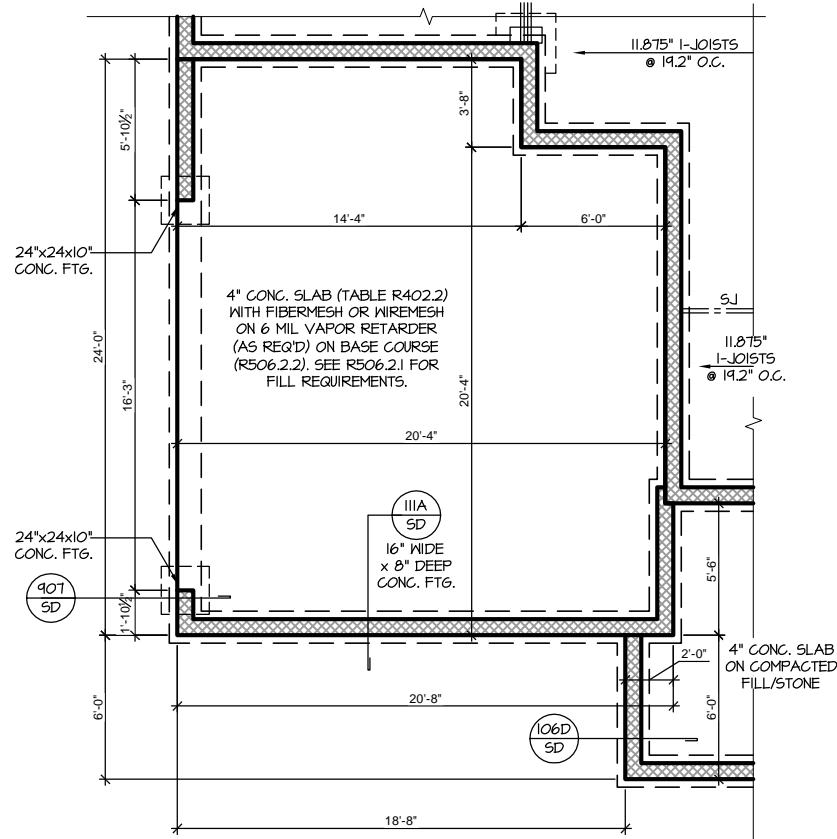
OPT. COVERED PORCH

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



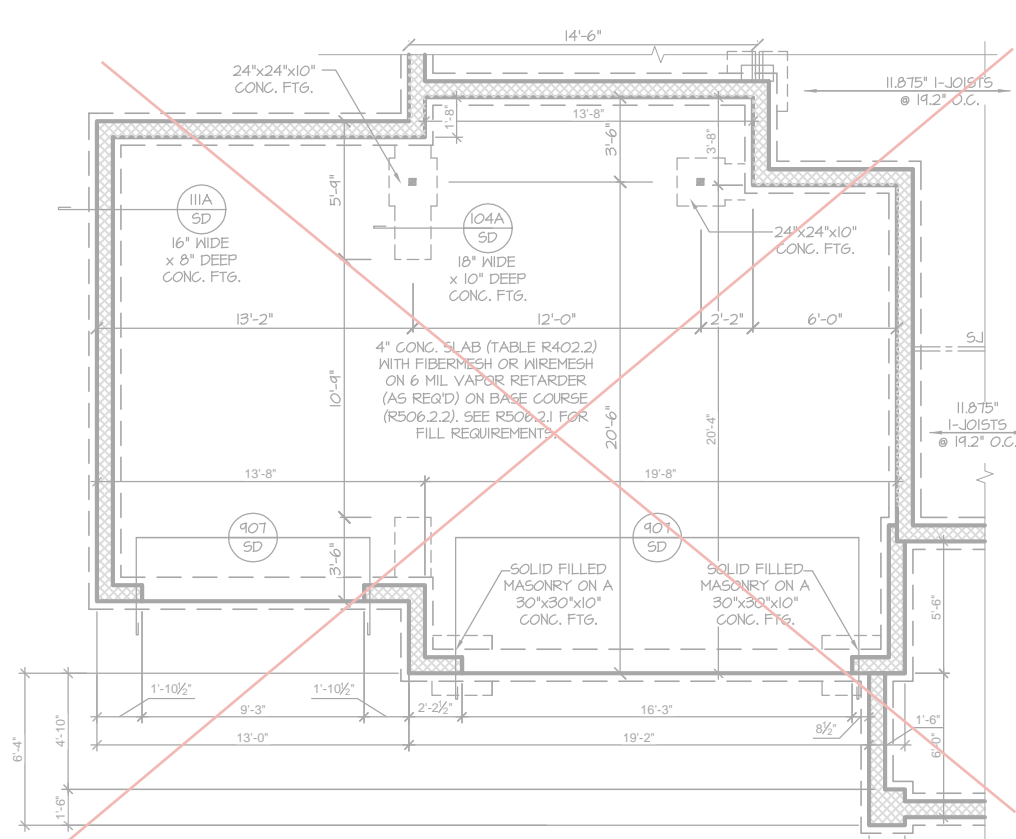
**OPT. FIREPLACE @ EXT
COVERED PORCH**

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



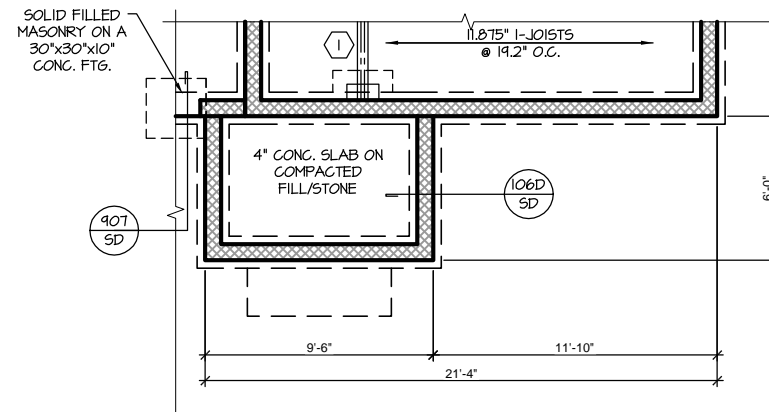
**'FRENCH COUNTRY' CRAWL
SIDE LOAD GARAGE FOUNDATION**

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



**'FRENCH COUNTRY' CRAWL
3-CAR GARAGE FOUNDATION**

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



**'FRENCH COUNTRY' CRAWL
SMART DELIVERY DOOR**

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



**PROJECT #
21-2967.1-GL**

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S-1.2.1

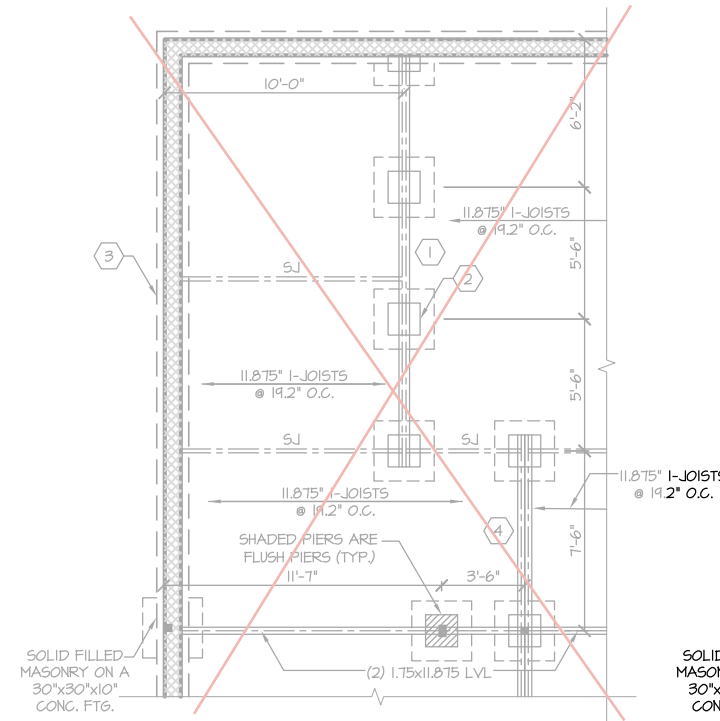
REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

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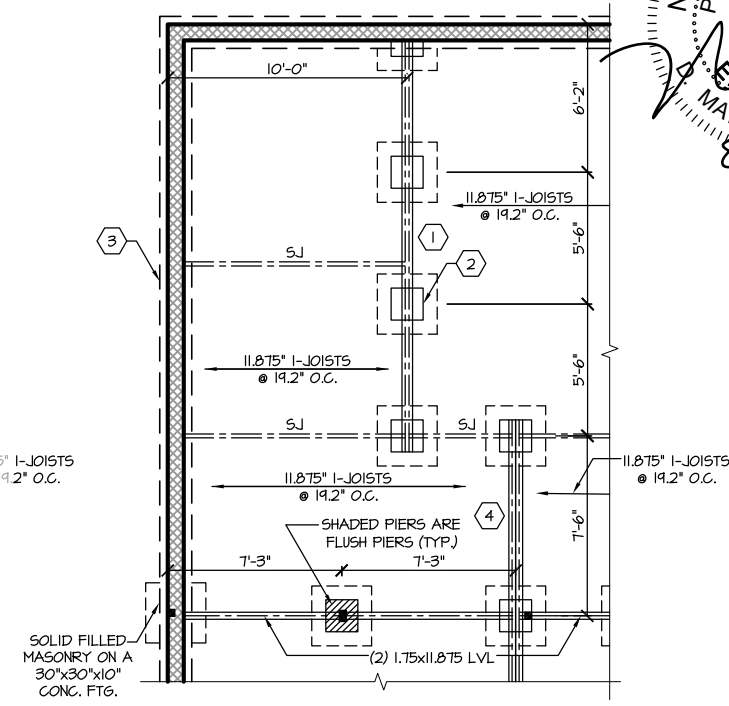
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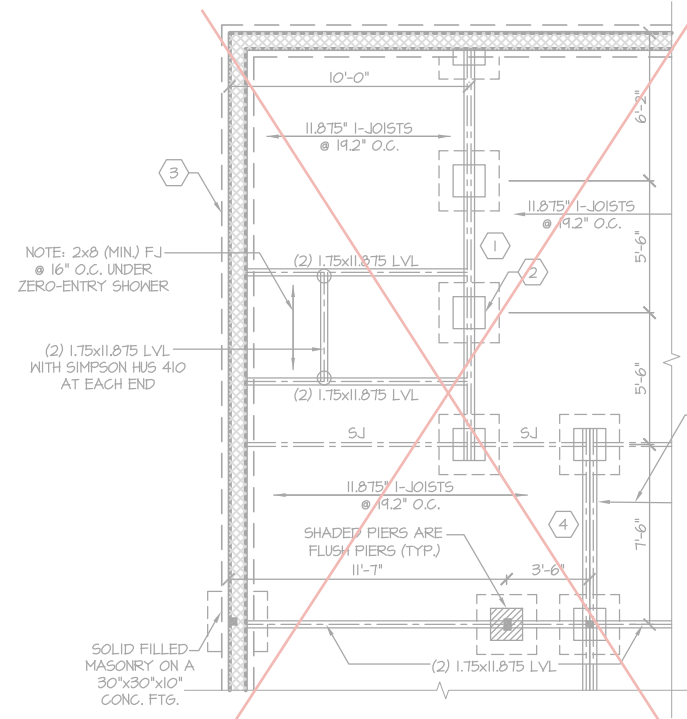
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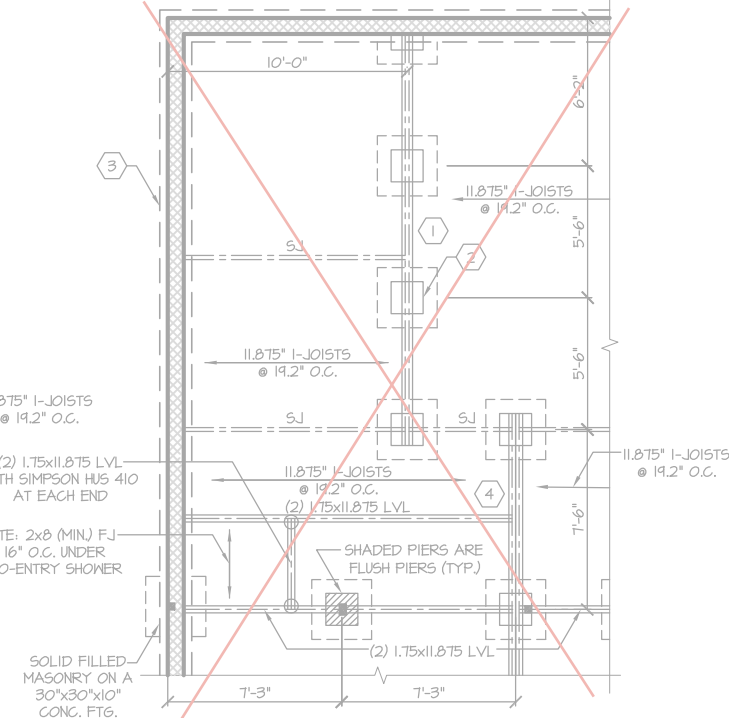
**OPT. OWNER'S SUITE W/
SITTING ROOM**
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



**OPT. OWNER'S SUITE W/
LARGE W.I.C.**
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



**OPT. OWNER'S SUITE W/
SITTING ROOM W/ OPT.
ZERO ENTRY SHOWER**
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



**OPT. OWNER'S SUITE W/
LARGE W.I.C. W/ OPT.
ZERO ENTRY SHOWER**
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

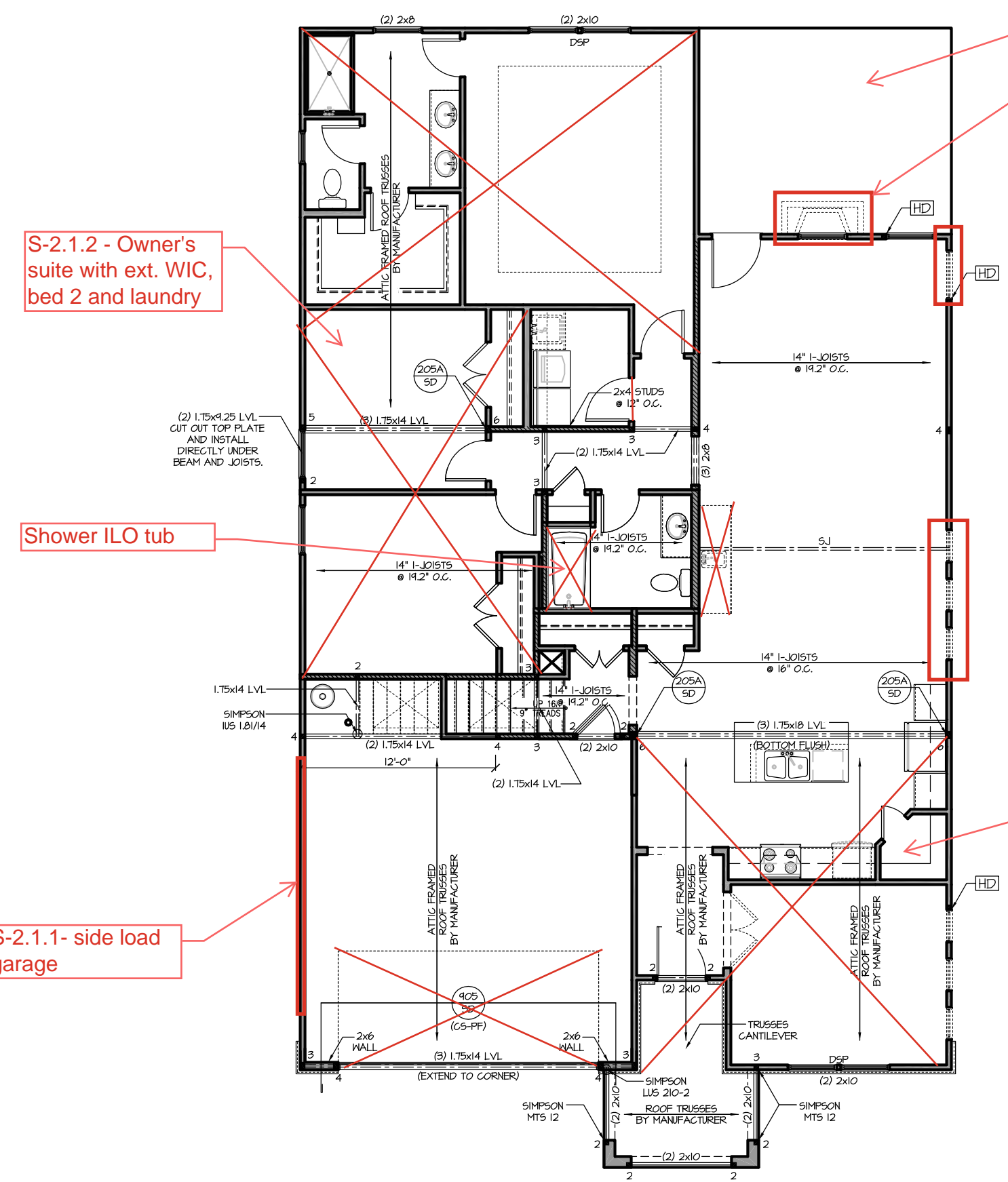


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The Clayton - GL
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S2.3 - covered porch

S-2.1.1 - fireplace

S-2.1.2 - Owner's suite with ext. WIC, bed 2 and laundry

Shower ILO tub

S-2.1.1 - messy kitchen, kitchen, pantry, smart door delivery

S-2.1.1- side load garage

WOOD I-JOISTS
(SHALL BE ONE OF THE FOLLOWING):
 • TJI 210 BY TRUS JOIST
 • LPI 20 PLUS BY LP
 • BGI 5000s 1.8 BY BC
 • BL140 BY ORCENTER
 • 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.
 • FLOOR TRUSSES BY MANUFACTURER MAY BE SUBSTITUTED FOR I-JOISTS.

PORCH POST NOTES:
 • 4"x4" (6"x6") TRTD POST (OR EQUAL).
 • ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
 1. POST GAP: SIMPSON AC4-MAX (AC6-MAX)
 2. POST GAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (1) SIMPSON H6.
 3. POST BASE: SIMPSON ABU44 (ABU66).
 3.1. MONO: 3/8" ANCHOR (EMBED 7")
 3.2. CMU: 3/8" 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: THE ABOVE CONNECTORS ARE SUGGESTIONS. EQUIVALENT CONNECTORS THAT MEET THE REQUIREMENTS OF THE NC RESIDENTIAL BUILDING CODE, LOCAL CODES, AND/OR ARE APPROVED BY THE BUILDING INSPECTOR MAY BE SUBSTITUTED.

FRAMING NOTES
NC (2018 NRC): Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP. CS-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.
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (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.
- 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.
- 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 CS20 OR CSHP20 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.
- INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 3/8" WSP 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" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.

HEADER/BEAM & COLUMN NOTES

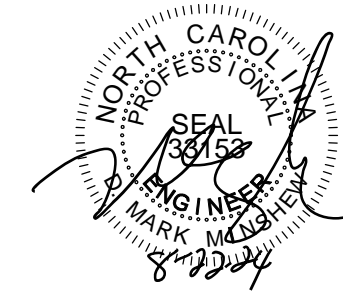
- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCD01 COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
 • 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

TRUSS SYSTEM REQUIREMENTS
NC (2018 NRC): 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.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

WITH SECOND FLOOR
FIRST FLOOR PLAN 'FRENCH COUNTRY'
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



PROJECT #
21-2967.1-GL

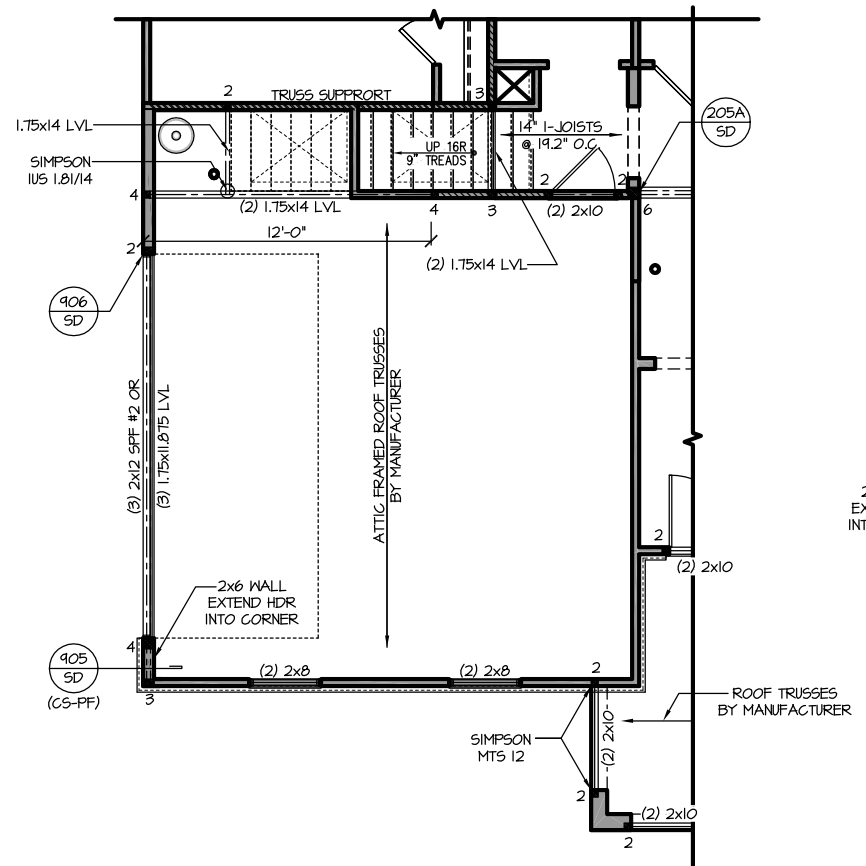
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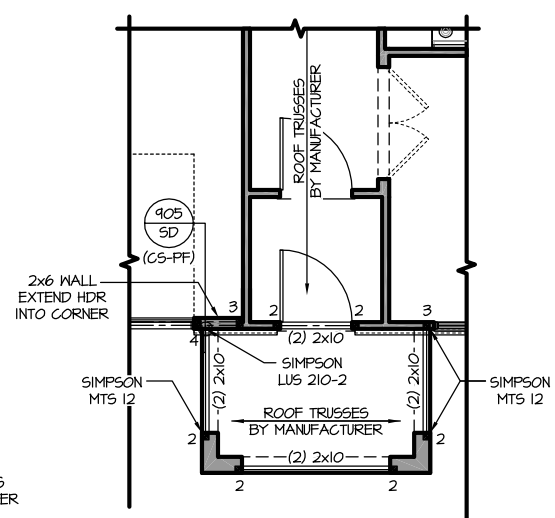
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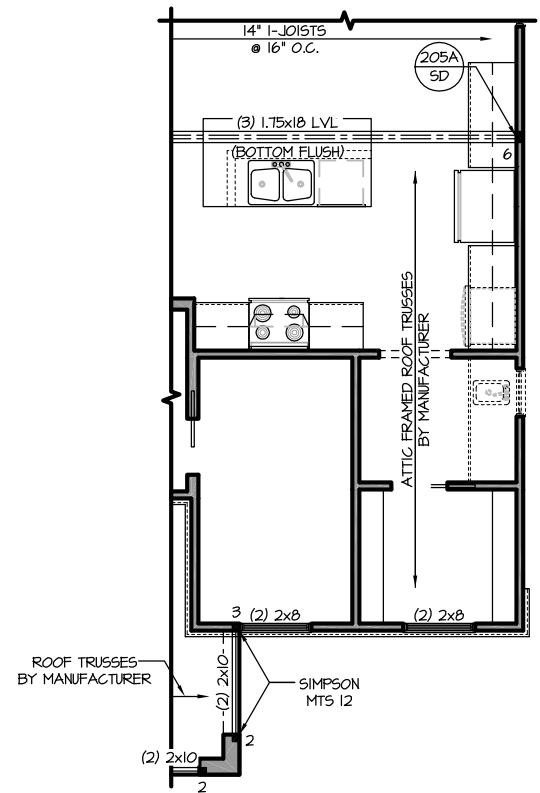
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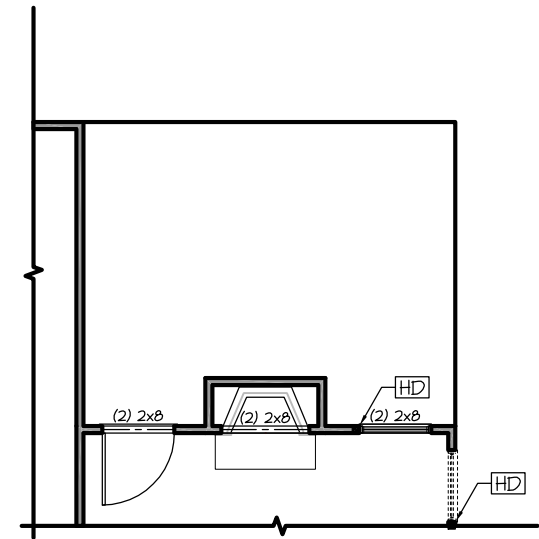
OPT. SIDELOAD GARAGE
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. SMART DELIVERY CENTER W/ FRONT PORCH
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. MESSY KITCHEN/ PKT. OFFICE/ ENLARGE PANTRY
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



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

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.



PROJECT #
21-2967.1-GL

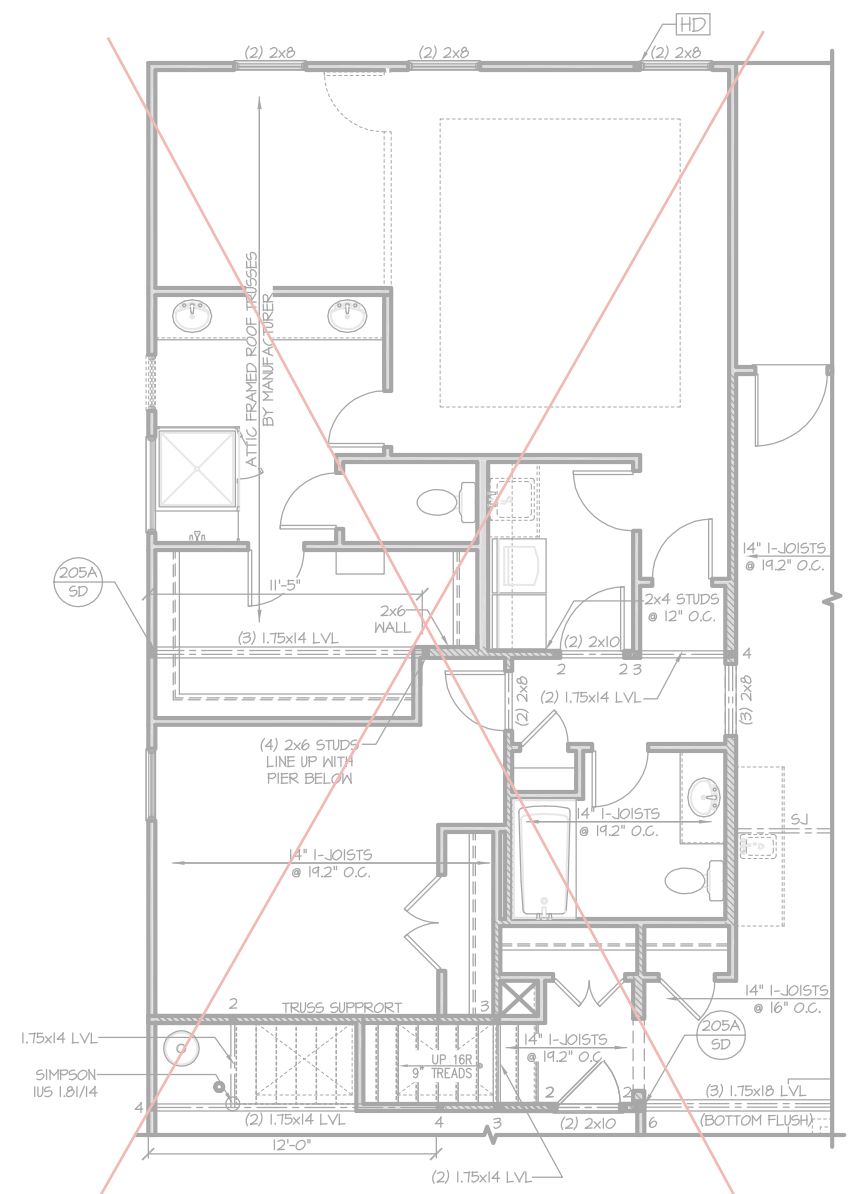
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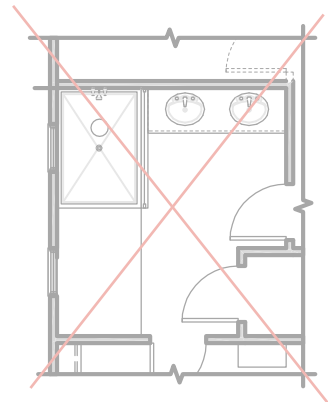
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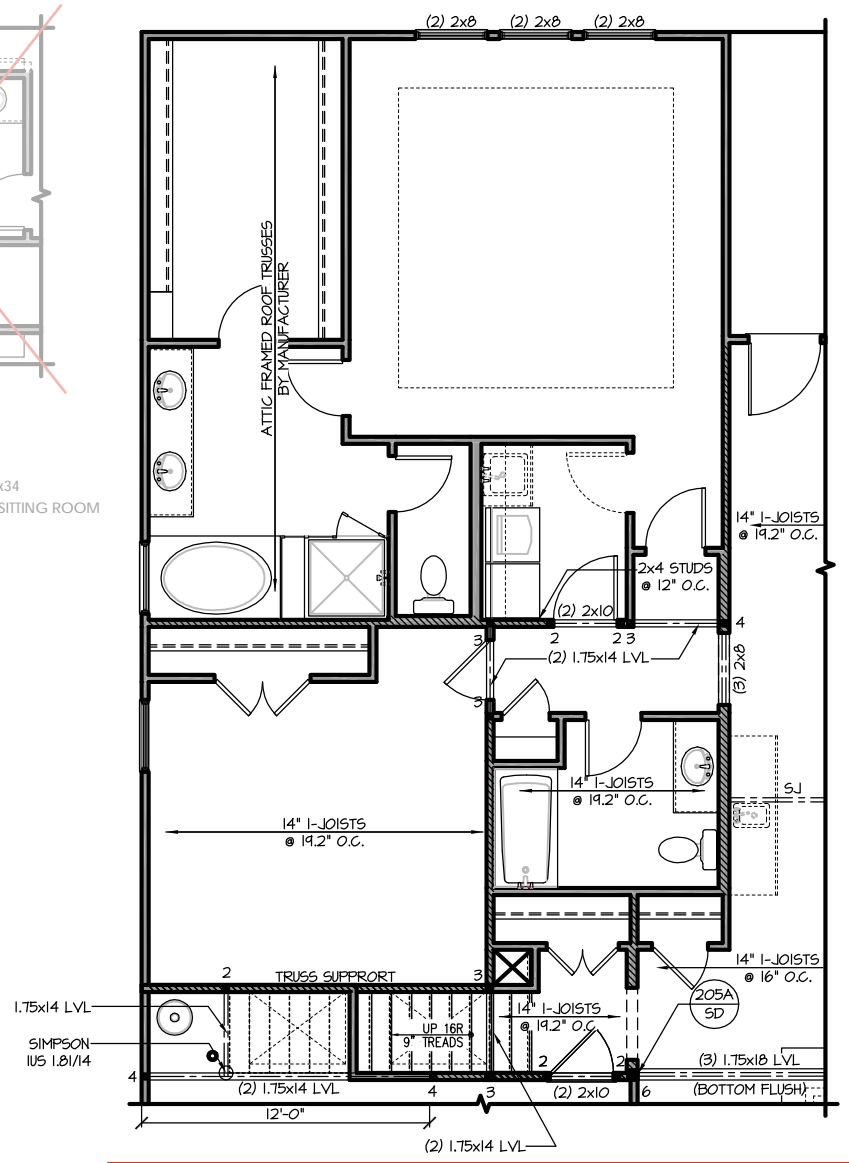
S-2.1.2



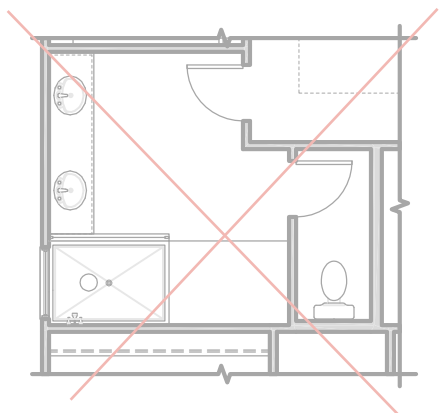
OPT. OWNER'S SUITE W/ SITTING ROOM
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. ZERO ENTRY SUPER SHOWER
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34
ONLY AVAILABLE W/ OPT. OWNER'S SUITE W/ SITTING ROOM

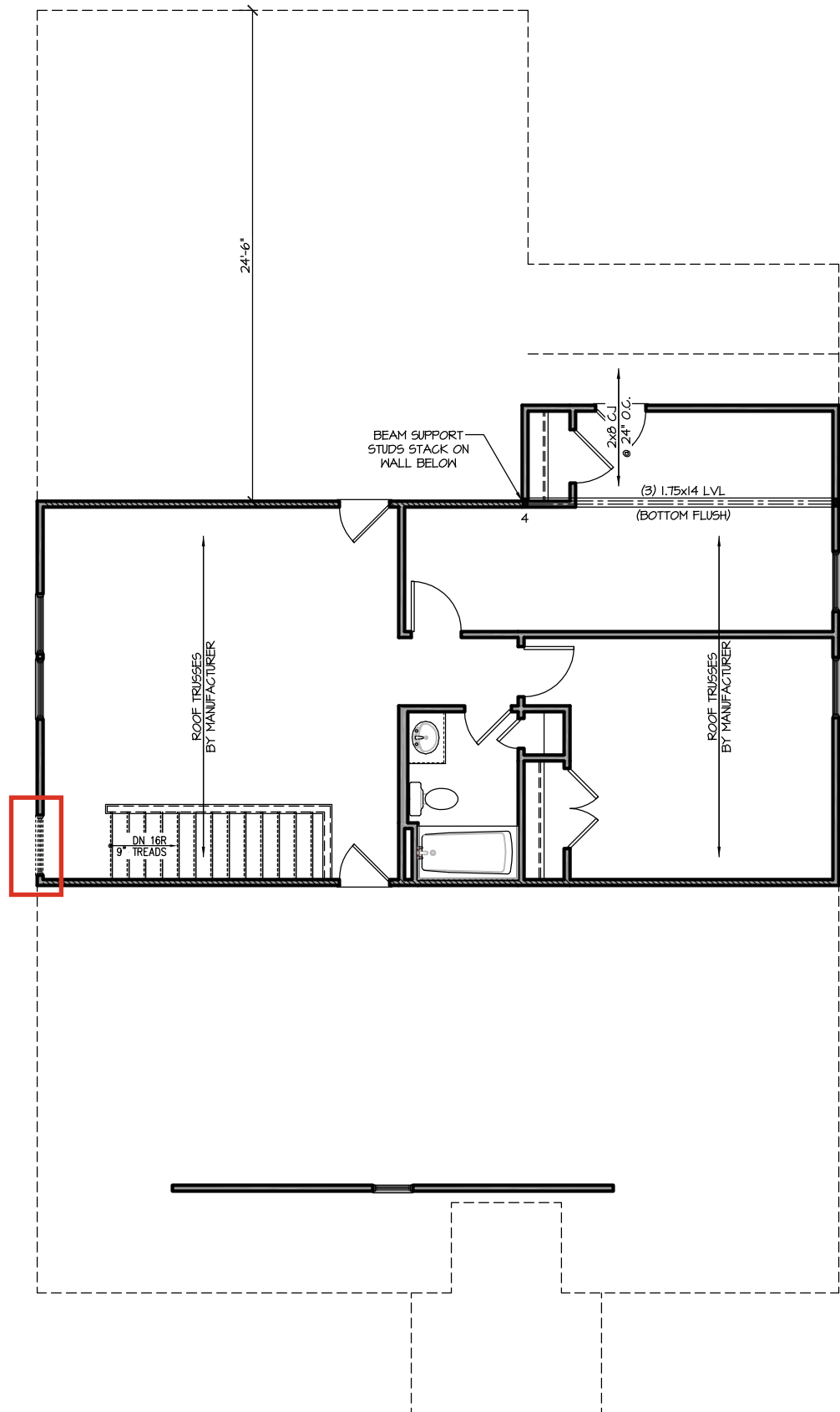


OPT. OWNER'S SUITE W/ LARGE WALK-IN CLOSET
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. ZERO ENTRY SUPER SHOWER
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34
ONLY AVAILABLE W/ OPT. OWNER'S SUITE W/ LARGE W.I.C.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.



SECOND FLOOR PLAN 'FRENCH COUNTRY'

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



FRAMING NOTES

NC (2018 NCRS); Wind: 115-120 mph

- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP. CS-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.
- EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (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.
- 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.
- "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 CS20 OR CSHP20 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.
- INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.
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HEADER/BEAM & COLUMN NOTES

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 - 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

TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRS); Wind: 115-120 mph

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- 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.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

PROJECT #
21-2967.1-GL

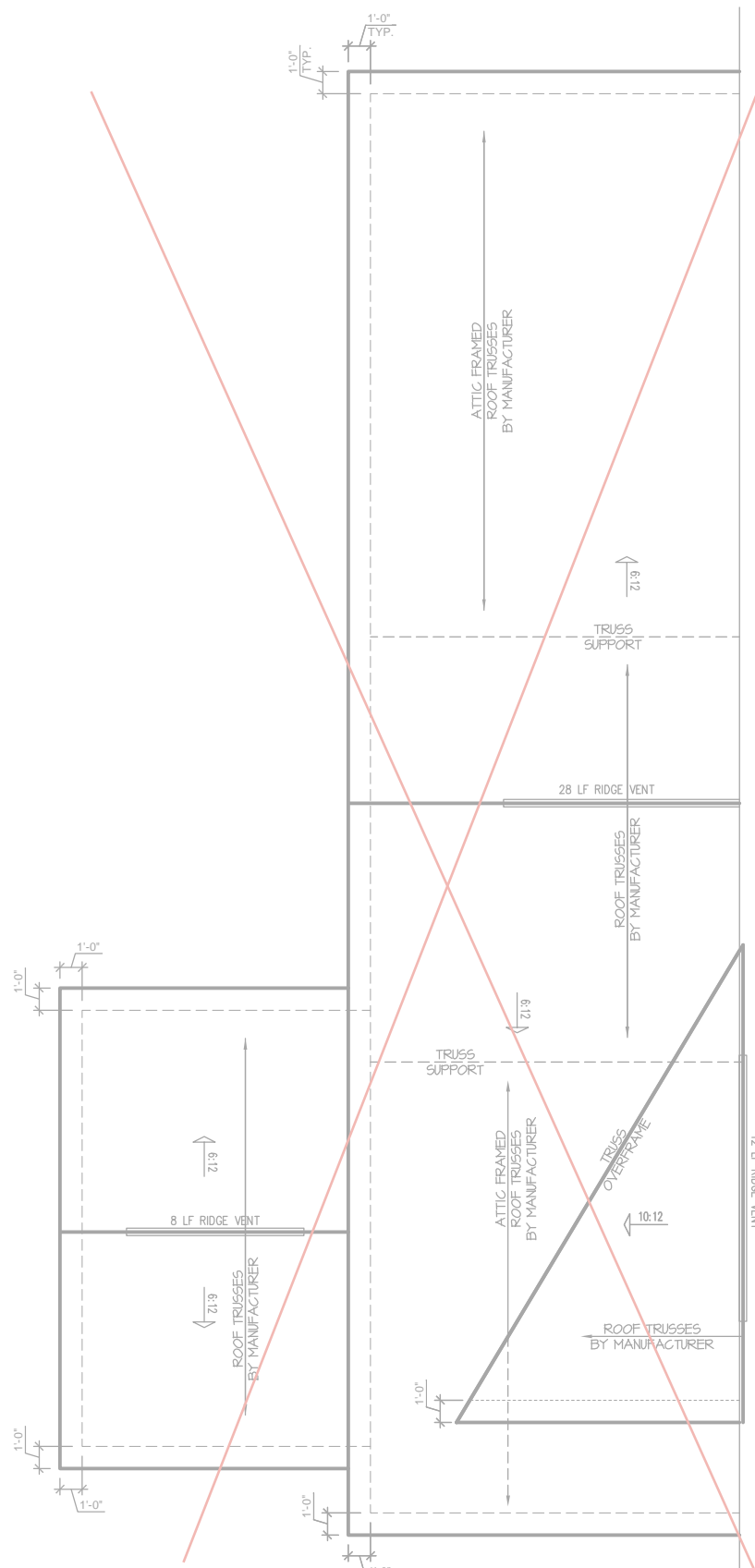
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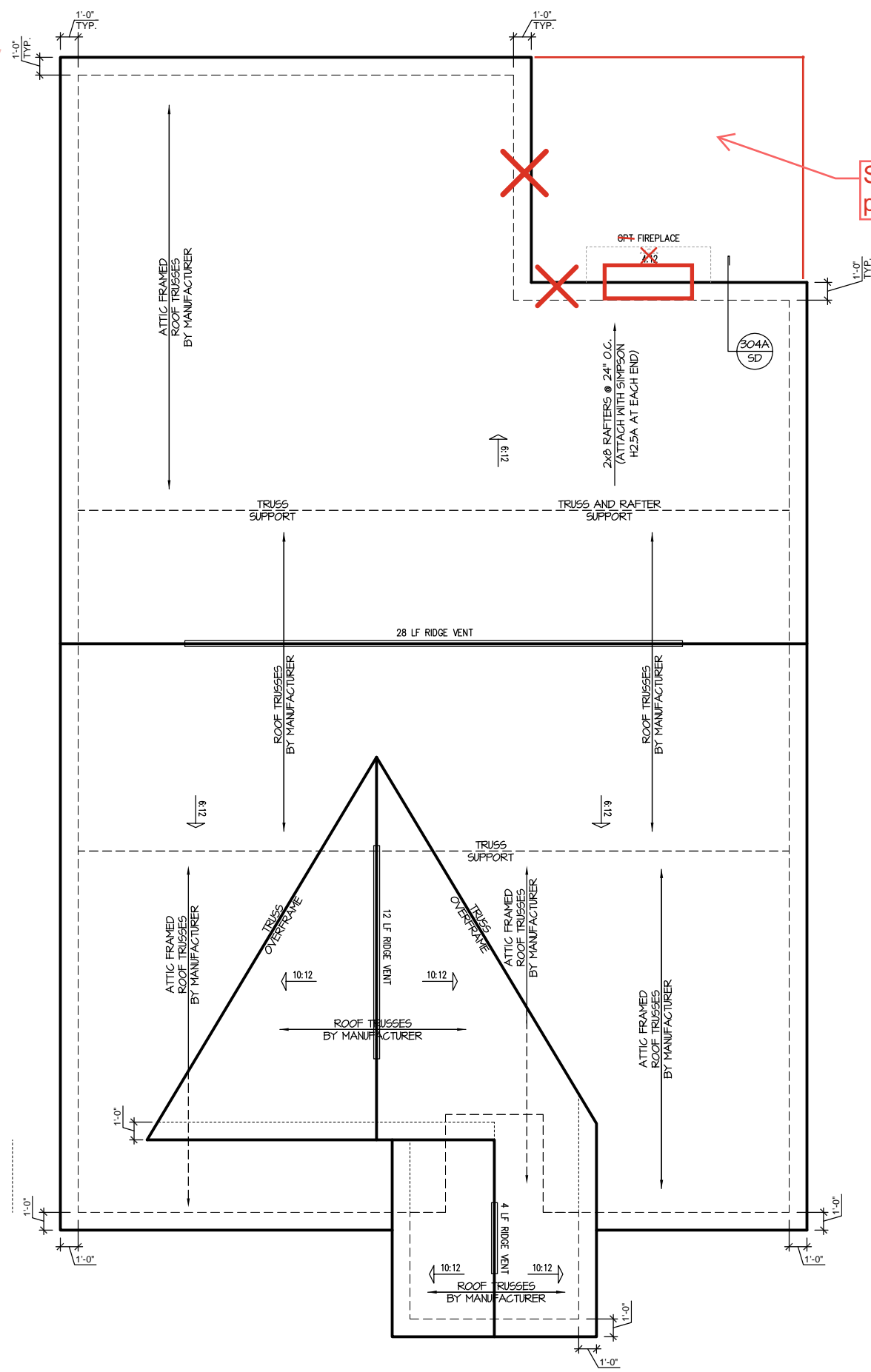
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S-2.2



OPT. 3-CAR GARAGE
'FRENCH COUNTRY' ROOF PLAN

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



S-2.3 - covered porch

TRUSS SYSTEM REQUIREMENTS

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

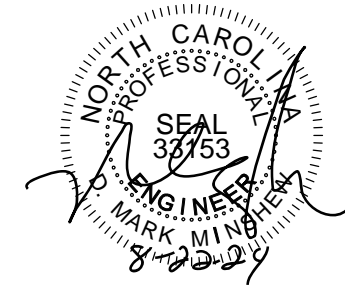
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3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

WITH SECOND FLOOR

'FRENCH COUNTRY' ROOF PLAN

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

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.



PROJECT #
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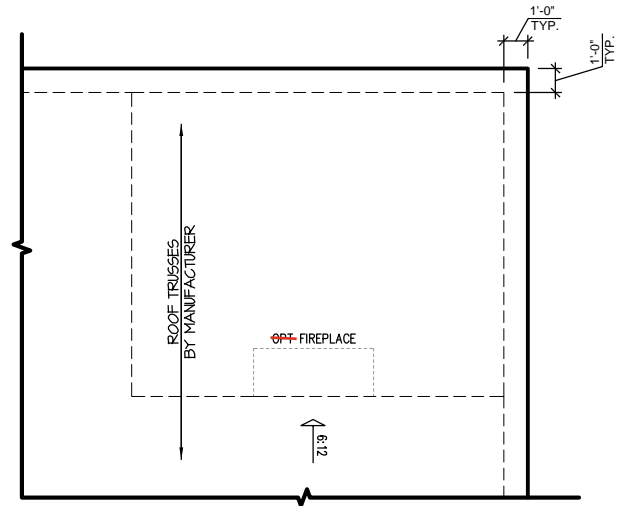
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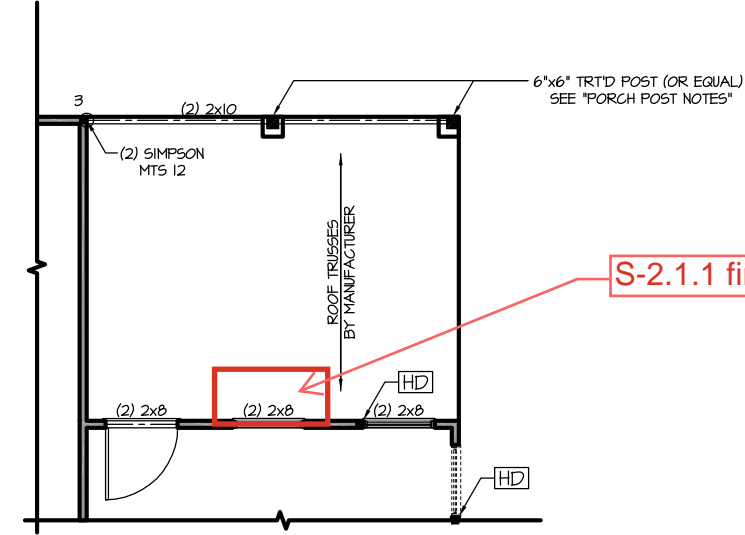
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S-3.1



COVERED PORCH ROOF PLAN

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



COVERED PORCH FLOOR PLAN

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



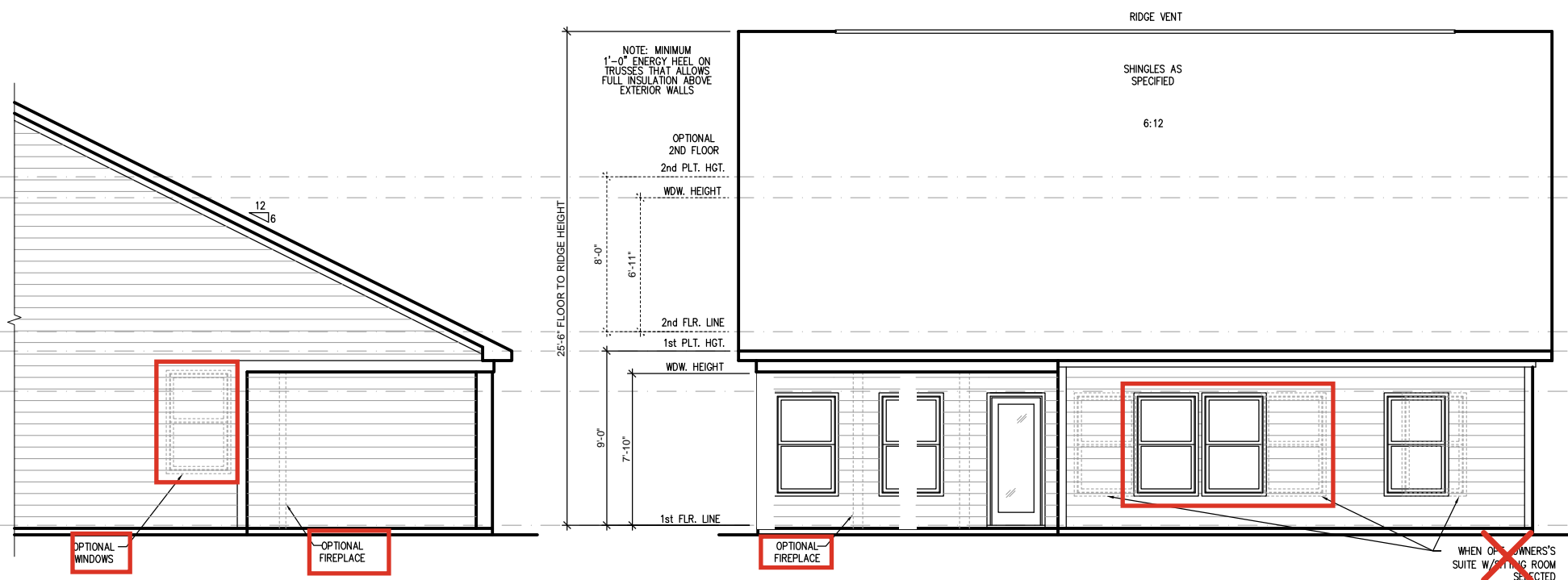
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PARTIAL LEFT SIDE ELEVATION

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

COVERED PORCH REAR ELEVATION

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

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

S-2.3

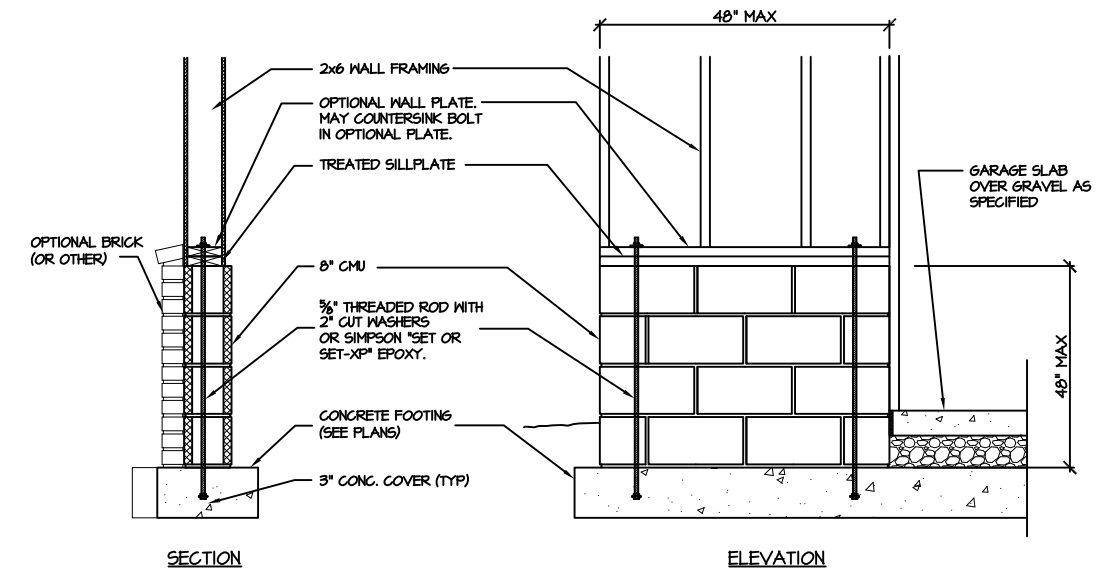
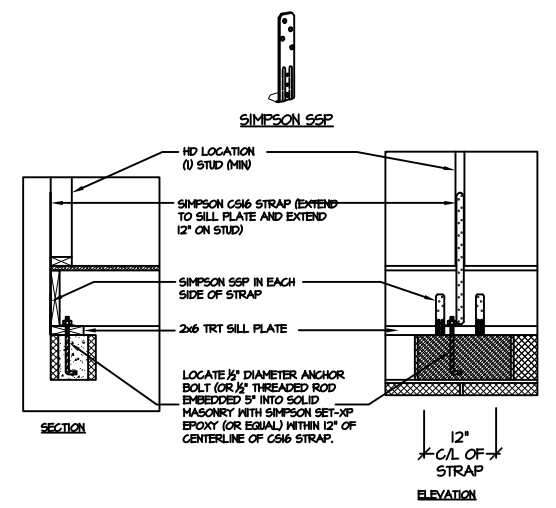
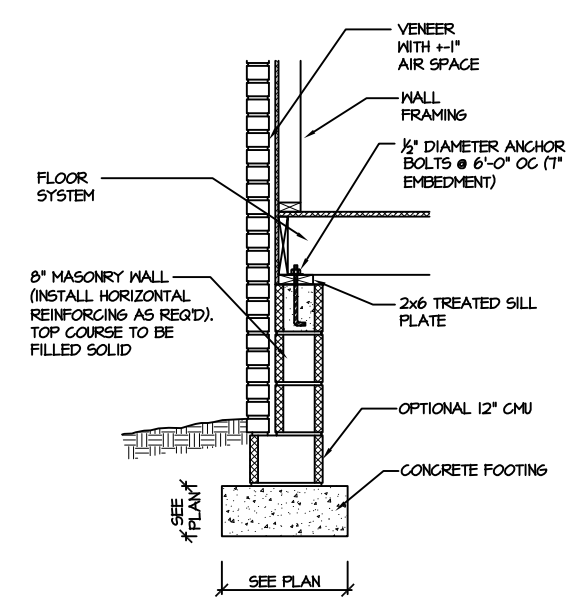
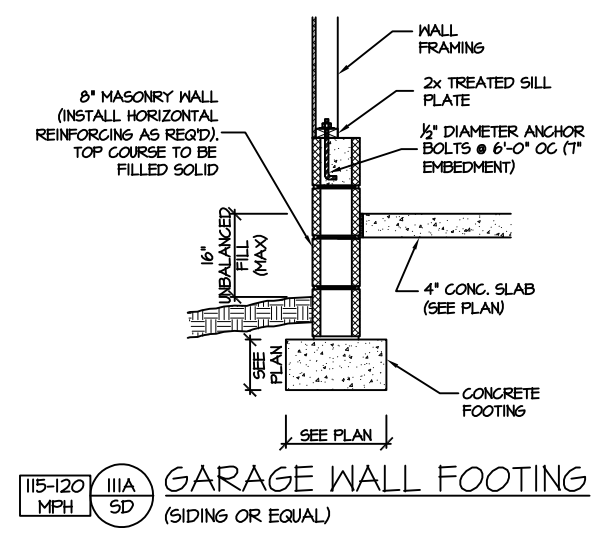
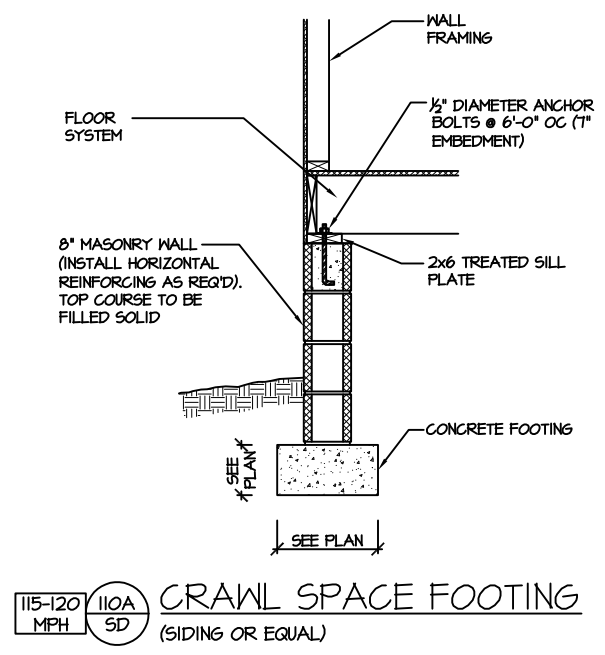
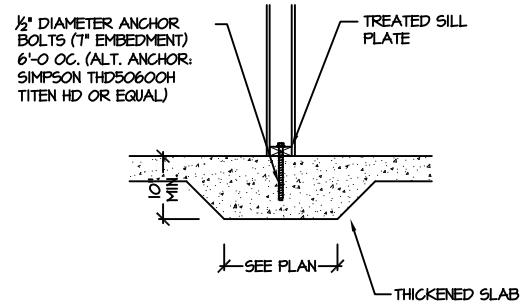
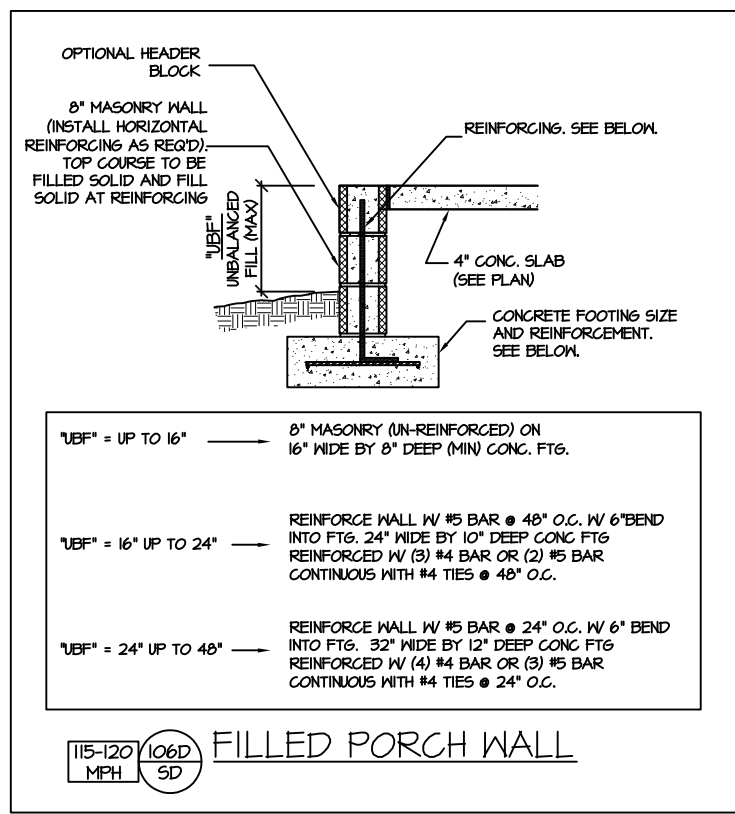
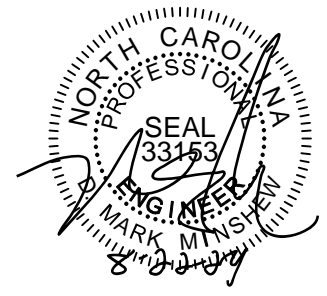
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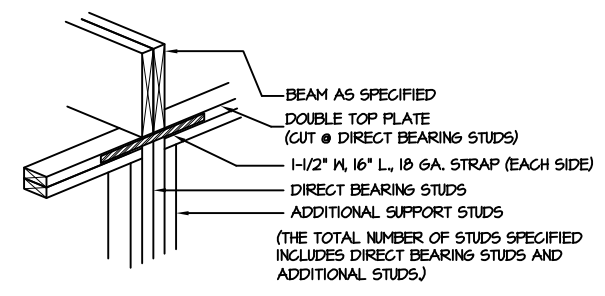
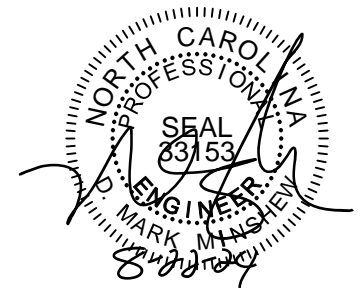
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The Clayton

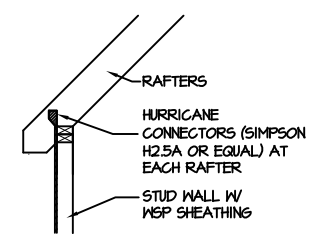
SD



CRAWL SPACE FOUNDATION



205A
SD
DIRECT STUD BEARING
NTS

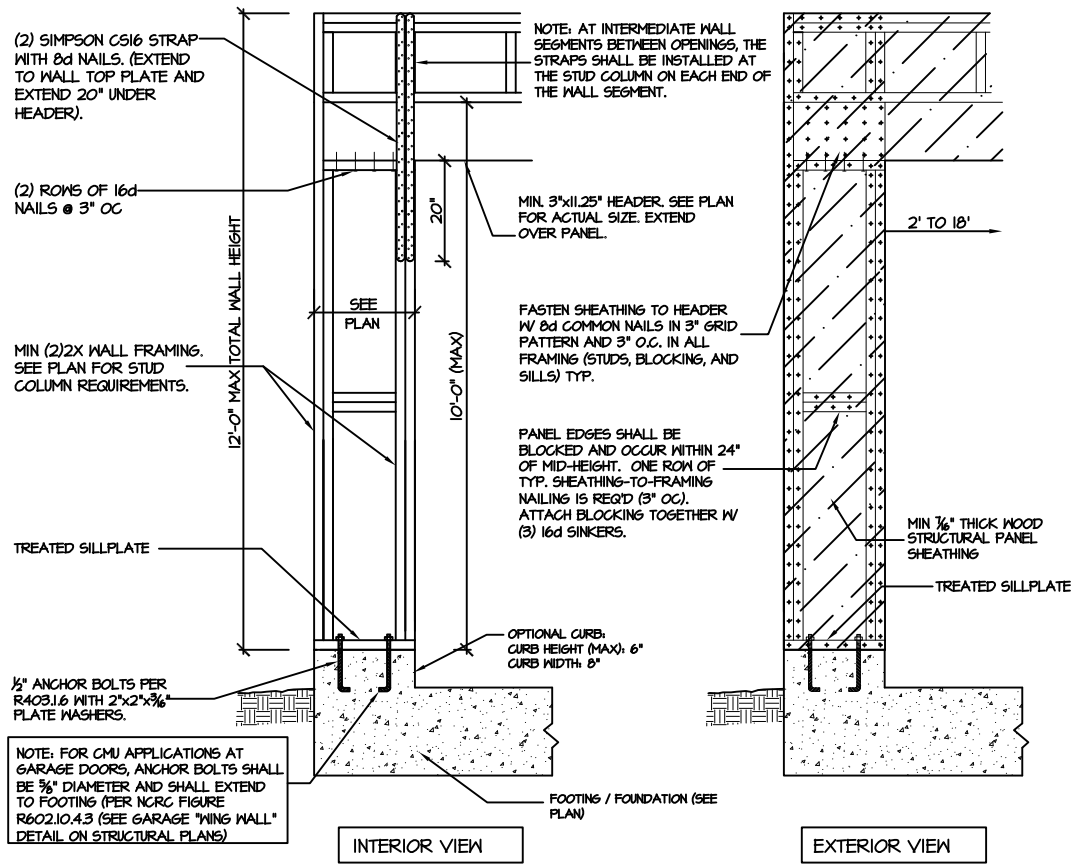


304A
SD
RAFTER TIE @ VAULT
NTS

STRUCTURAL NOTES

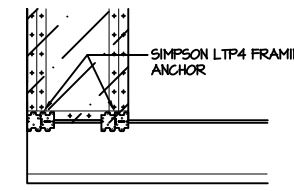
NC (2018 NCRG); Wind: 115-120 mph

- 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 GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
 - ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, 10 PSF, L/360)
 - SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
 - ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360)
 - ATTIC WITHOUT PERMANENT STAIR: (20 PSF, 10 PSF, L/360)
 - ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
 - STAIRS: (40 PSF, 10 PSF, L/360)
 - DECKS AND EXTERIOR BALCONIES: (40 PSF, 10 PSF, L/360)
 - PASSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
 - SNOW: (20 PSF)
- WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES (UNLESS NOTED OTHERWISE (NO)). 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 1/3 (I.E. 4" CONCRETE SLABS SHALL HAVE 1 1/4" DEEP CONTROL JOINTS SAWCUT 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.
- ALL FRAMING LUMBER SHALL BE SFF #2 (F_b = 875 PSI) UNLESS NOTED OTHERWISE (NO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SFF # 3 OR SYP #3 (F_{c(perp)} = 425 PSI - MIN).
 - L.V.L. SHALL BE LAMINATED VENEER LUMBER: F_b=2600 PSI, F_v=285 PSI, E=1.4x10⁶ PSI.
 - P.S.L. SHALL BE PARALLEL STRAND LUMBER: F_b=2400 PSI, F_v=240 PSI, E=2.0x10⁶ PSI.
 - L.S.L. SHALL BE LAMINATED STRAND LUMBER: F_b=2250 PSI, F_v=400 PSI, E=1.55x10⁶ PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 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.
- REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" 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.
- BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION R703.B.3 LINTELS.
- METAL CONNECTORS REFERENCED ON PLANS CORRESPOND TO SIMPSON STRONG-TIE BRAND. CONNECTORS OF EQUAL OR BETTER CAPACITY ARE ACCEPTABLE. CORROSION RESISTANCE PER CODE AND AS RECOMMENDED BY MANUFACTURER.

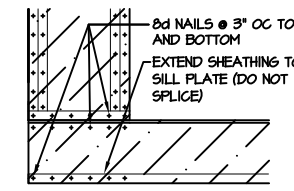


INTERIOR VIEW

EXTERIOR VIEW

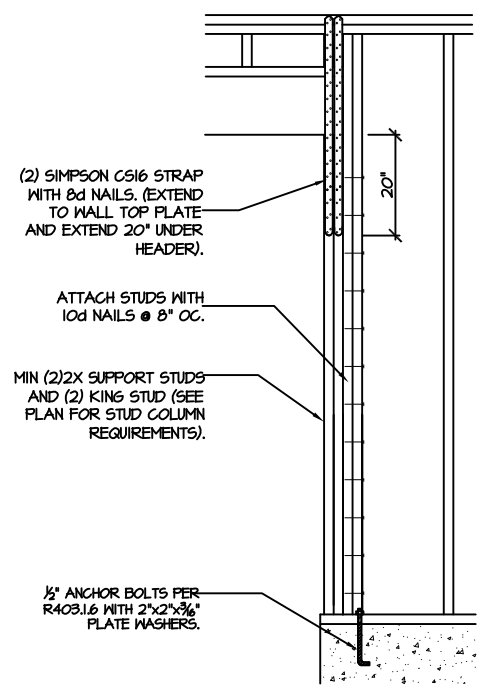


FRAMING ANCHOR OPTION



WSP OVERLAP OPTION

CS-PF - OVER WOOD FLOOR



906
SD
CS-PF: END CONDITION DETAIL
(FOR USE WITH SINGLE CS-PF CONDITION)
DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION

905
SD
CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION
DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION

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