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. LABELED 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

3-20-24 - Initial Redlines - JJ

167 DC - 194 Duncan Creek Rd., Lillington, NC 27546

Trademark Plus

NEW HOME INC.

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.

PLAN 1
The Clayton - LH

'CRAFTSMAN' 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
2.2	Optional Second Floor Plan
2.2.1	Second Floor Plan Options
2.4	Covered Porch Plans & Elevations (Slab)
2.4.1	Covered Porch Plans & Elevations (Crawl/ Stem Wall)
2.5	Extended Covered Porch Plans & Elevations (Slab)
2.5.1	Extended Covered Porch 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)
3.4	Side Load Garage Elevations (Crawl/Stem Wall)
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

SQUARE FOOTAGE

	CRAFTSMAN	
	UNHEATED	HEATED
FIRST FLOOR	0	1871
FRONT PORCH	150	0
2 CAR GARAGE	468	0
PATIO/ DECK	196	0
SUBTOTALS	~~814~~	1871
TOTAL UNDER ROOF	~~2685~~	

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	-25	+25

NEW HOME INC.

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THE CLAYTON - LH

Cover Sheet 'Craftsman'

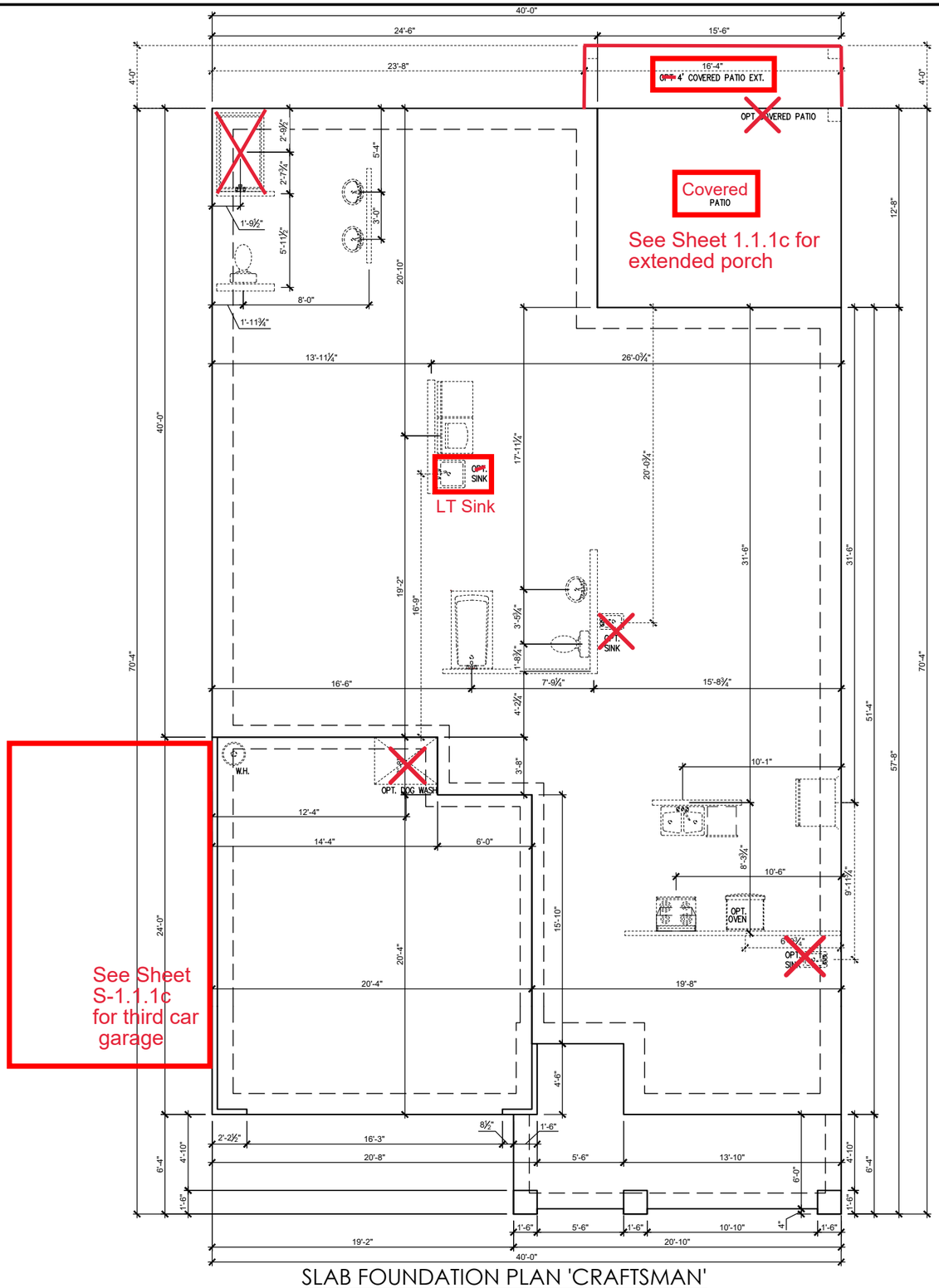
DRAWN BY:
South Designs

ISSUE DATE:
7/1/2021

CURRENT REVISION DATE:

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

SHEET
0.0c



SLAB FOUNDATION PLAN 'CRAFTSMAN'

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

NEW HOME INC.

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THE CLAYTON - LH

Slab Foundation 'Craftsman'

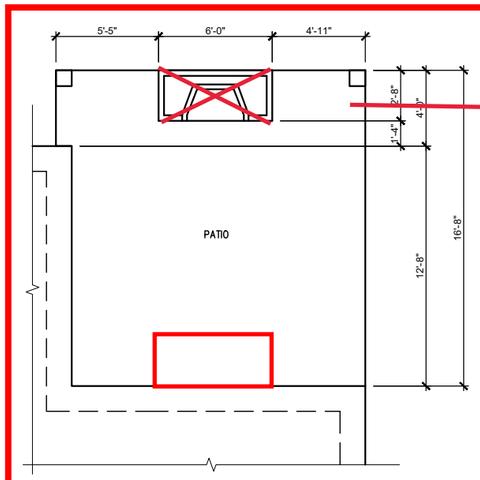
DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

CURRENT REVISION DATE: ----

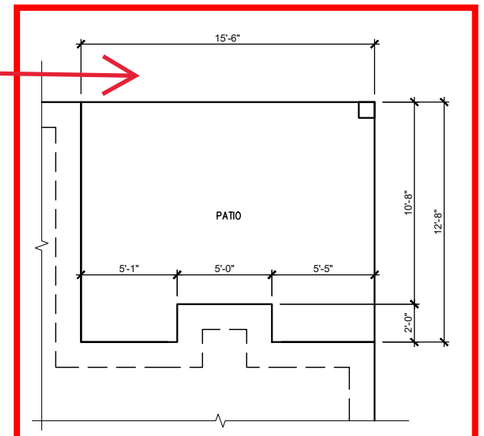
SCALE: 1/8" = 1'-0"

SHEET 1.1c



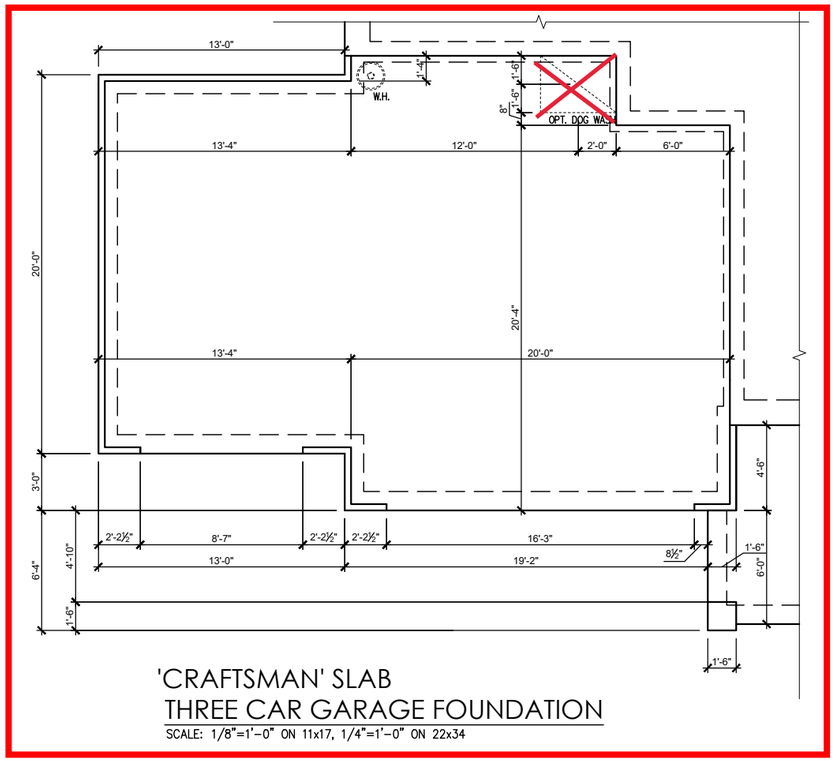
OPT. FIREPLACE @ EXT
COVERED PORCH

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



OPT. FIREPLACE @
COVERED PORCH

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



'CRAFTSMAN' SLAB
THREE CAR GARAGE FOUNDATION

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

NEW HOME INC.

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THE CLAYTON - LH

Slab Foundation Options 'Craftsman'

DRAWN BY:
South Designs

ISSUE DATE:
7/1/2021

CURRENT REVISION DATE:

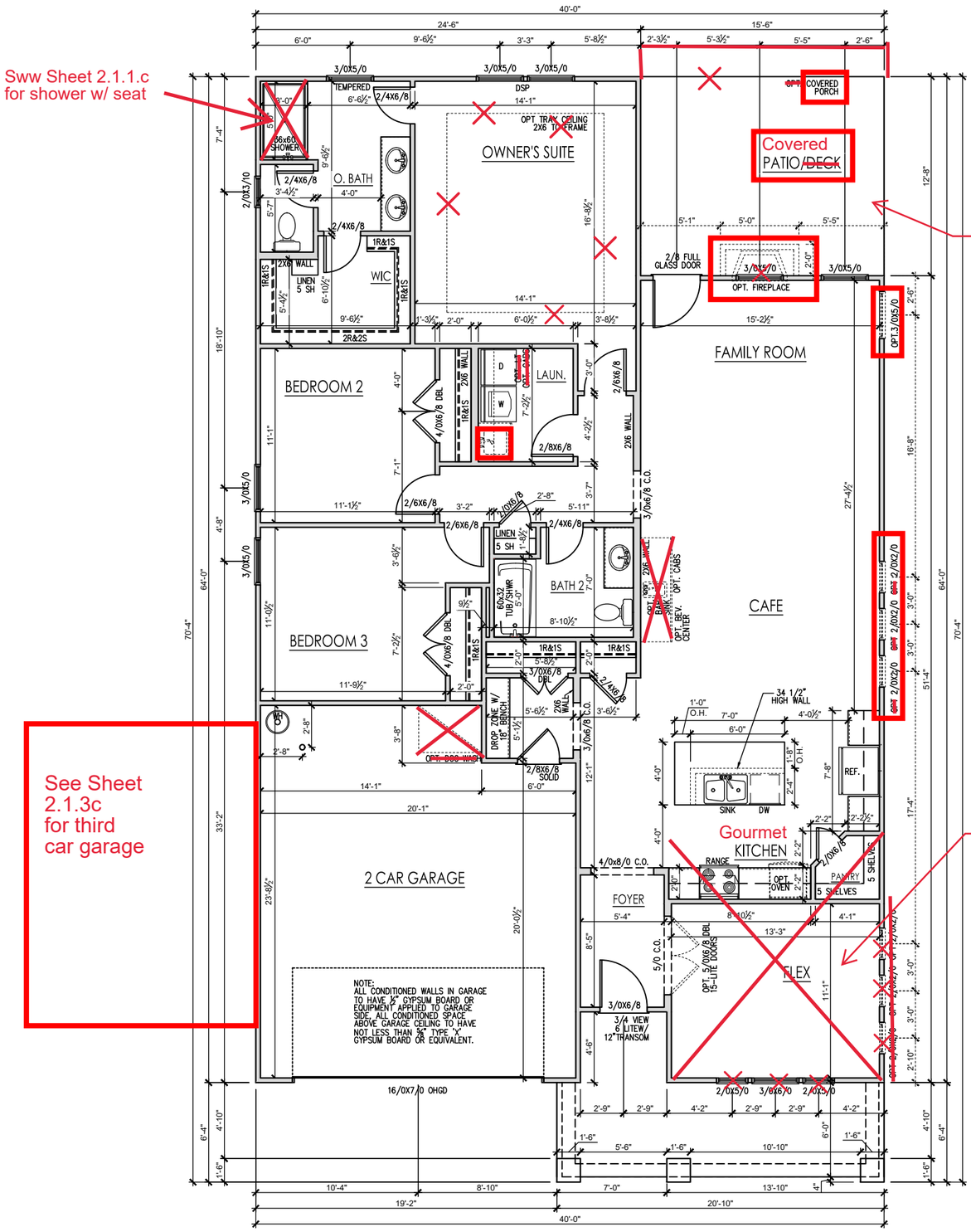
SCALE:
1/8" = 1'-0"

SHEET
1.1.1c

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, 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 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.



FIRST FLOOR PLAN 'ENGLISH COUNTRY'

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

NEW HOME INC.

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THE CLAYTON - LH

First Floor Plan 'Craftsman'

DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

CURRENT REVISION DATE: ----

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

SHEET 2.1c

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.
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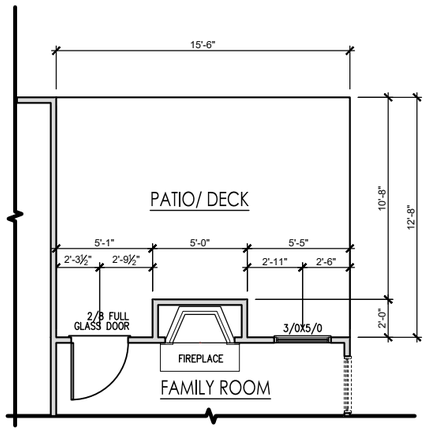
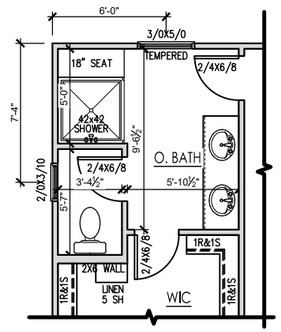
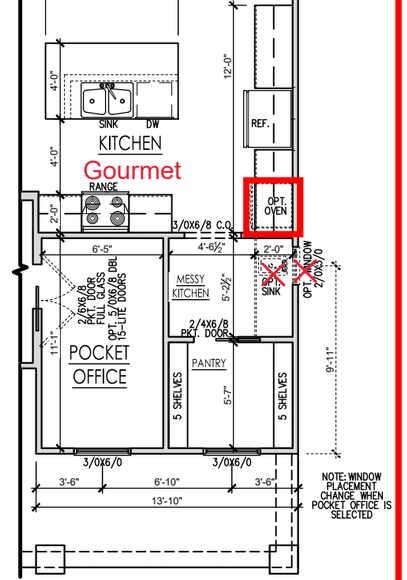


OPT. FIREPLACE
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



OPT. SHOWER
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

NEW HOME INC.

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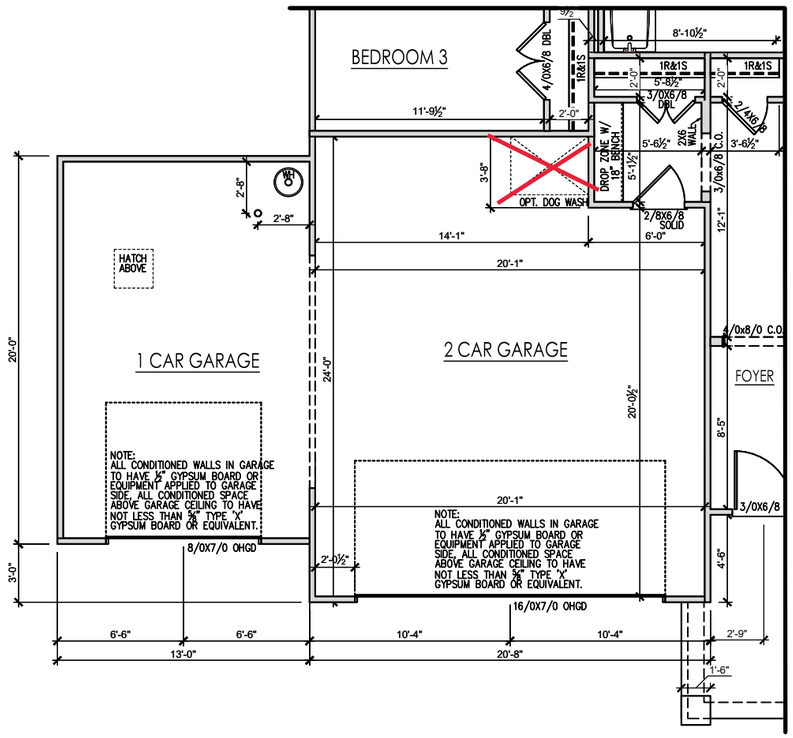
THE CLAYTON - LH

First Floor Options 'Craftsman'

DRAWN BY: South Designs
ISSUE DATE: 7/1/2021
CURRENT REVISION DATE: ----
SCALE: 1/8" = 1'-0"
SHEET
2.1.1c



OPT.3-CAR GARAGE
FIRST FLOOR PLAN

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

NEW HOME INC.

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THE CLAYTON - LH

First Floor Optional Third Car Garage

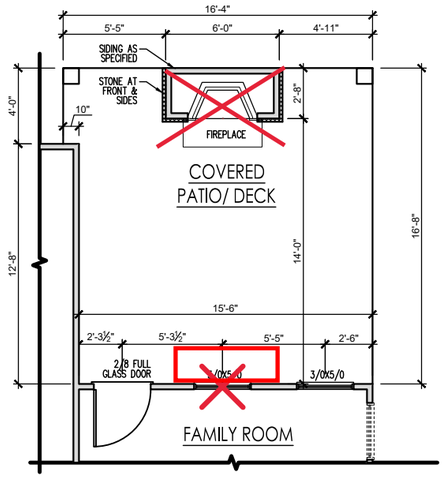
DRAWN BY:
South Designs

ISSUE DATE:
7/1/2021

CURRENT REVISION DATE:

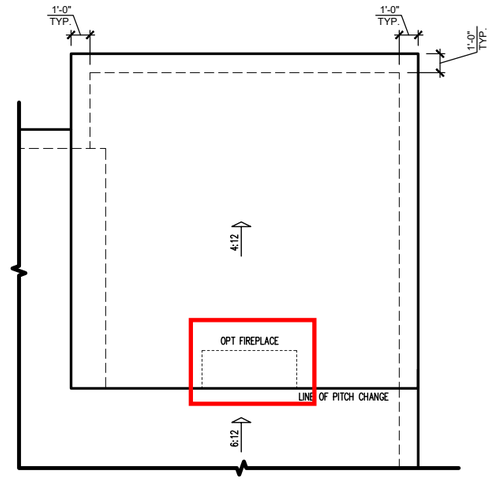
SCALE:
1/8" = 1'-0"

SHEET
2.1.3c



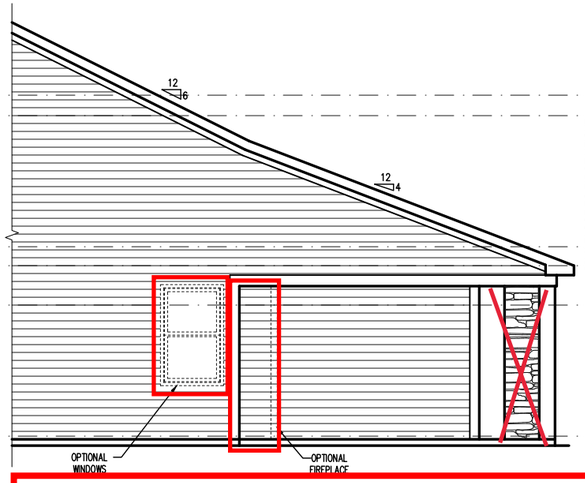
OPT. EXTENDED COVERED PORCH W/ FIREPLACE

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



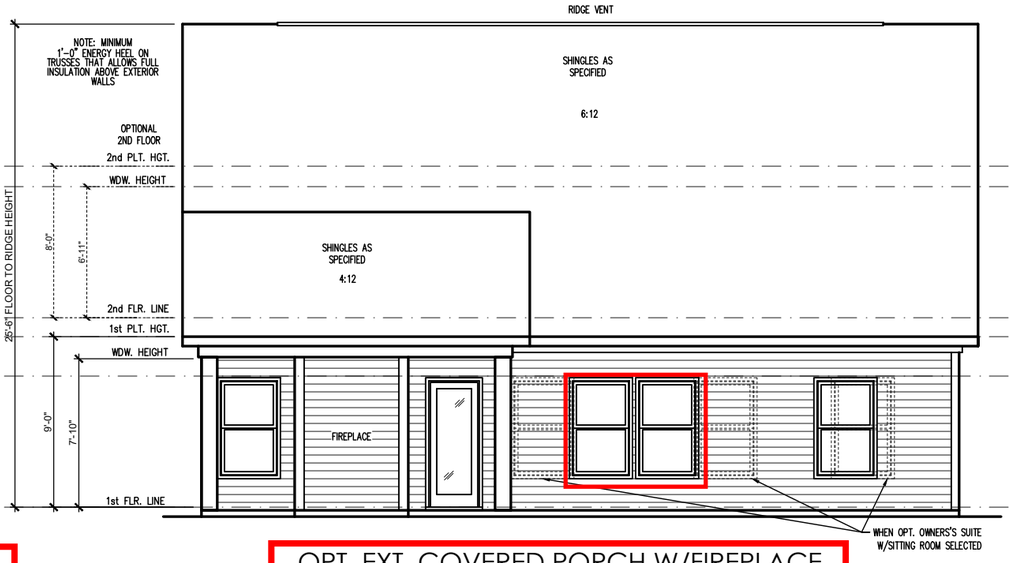
OPT. EXTENDED COVERED PORCH W/ FIREPLACE ROOF PLAN

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



OPT. EXT. COVERED PORCH W/FIREPLACE PARTIAL RIGHT SIDE ELEVATION (SLAB)

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



OPT. EXT. COVERED PORCH W/FIREPLACE REAR ELEVATION (SLAB)

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

NEW HOME INC.

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THE CLAYTON - LH

Ext Covered Porch Plans & Elevations (Slab) 'Craftsman'

DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

CURRENT REVISION DATE: ----

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

SHEET 2.5c

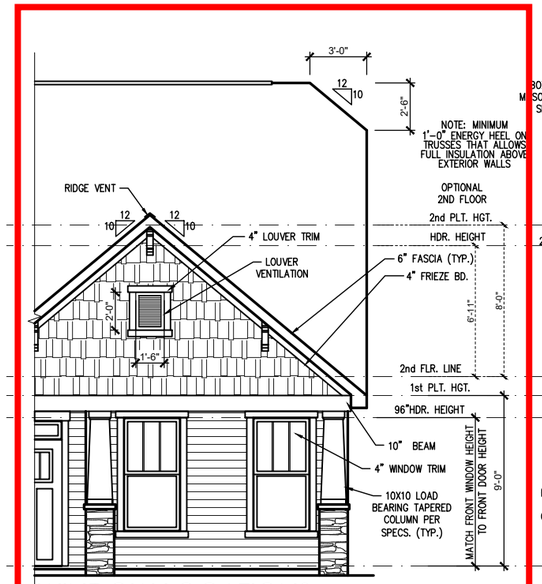
General Elevation Notes

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 L/600.

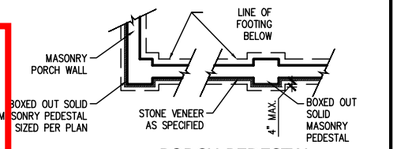
Masonry Opening Lintel Schedule

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

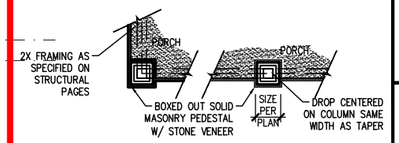


WINDOW LOCATIONS
WHEN OFFICE ARE SELECTED
'CRAFTSMAN' (SLAB)

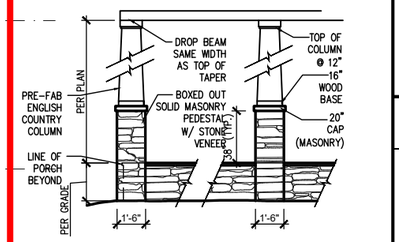
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



PORCH PEDESTAL
FRAMING FOUNDATION



PORCH PEDESTAL
FRAMING PLAN



PORCH PEDESTAL
FRAMING ELEVATION

NEW HOME INC.

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THE CLAYTON - LH

Front & Rear Elevations (Slab) 'Craftsman'

DRAWN BY:
South Designs

ISSUE DATE:
7/1/2021

CURRENT REVISION DATE:

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

SHEET
3.1c

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.
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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.
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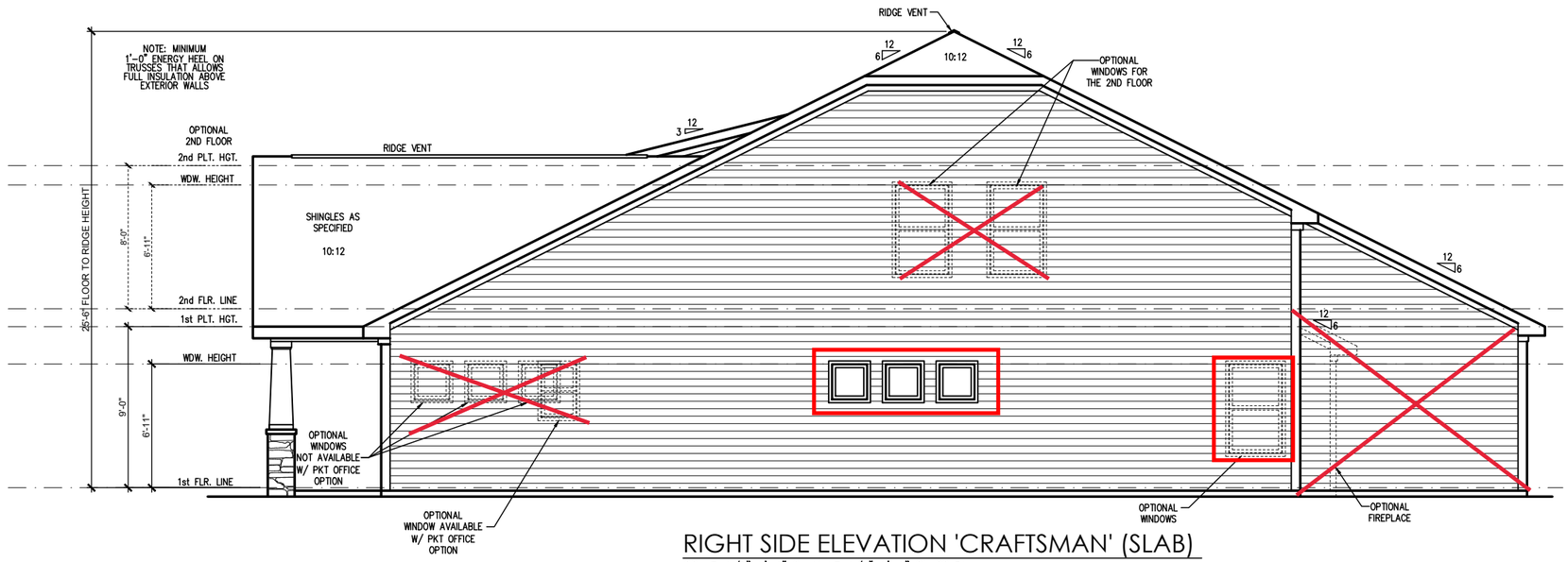
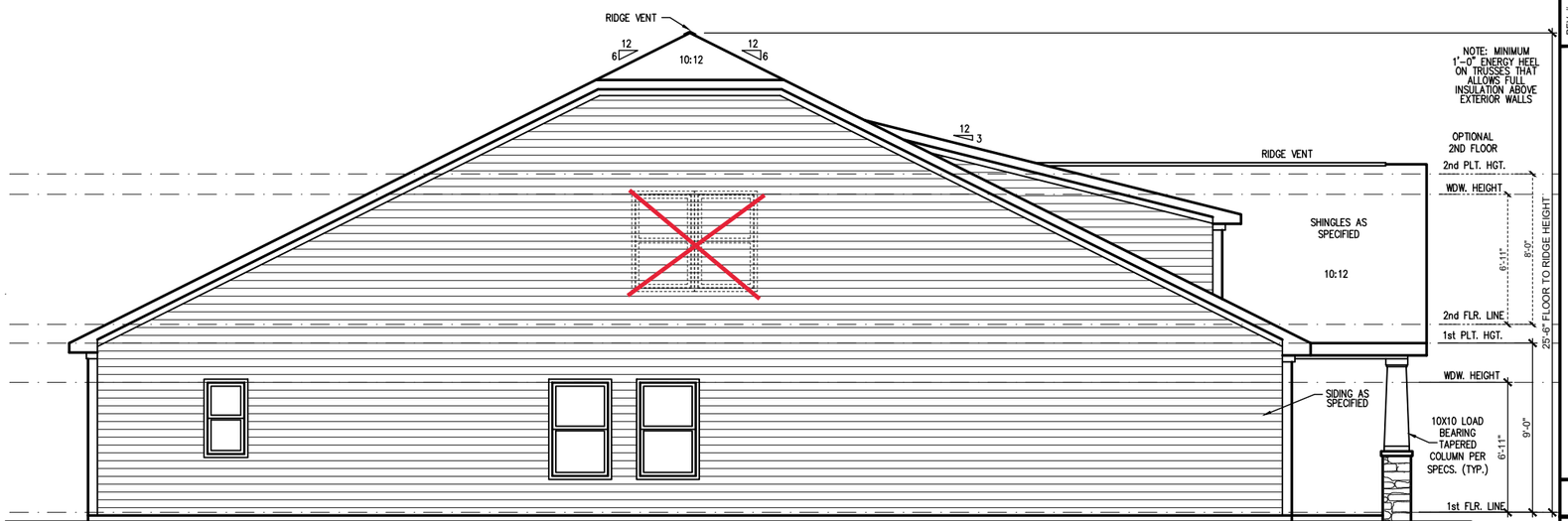
5'-7"	to	6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7"	to	8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5"	to	16'-4"	7" x 4" x 3/8" LLV



RIGHT SIDE ELEVATION 'CRAFTSMAN' (SLAB)

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



LEFT SIDE ELEVATION 'CRAFTSMAN' (SLAB)

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

NEW HOME INC.

REV. #	DESCRIPTION	DATE
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THE CLAYTON - LH

Side Elevations (Slab) 'Craftsman'

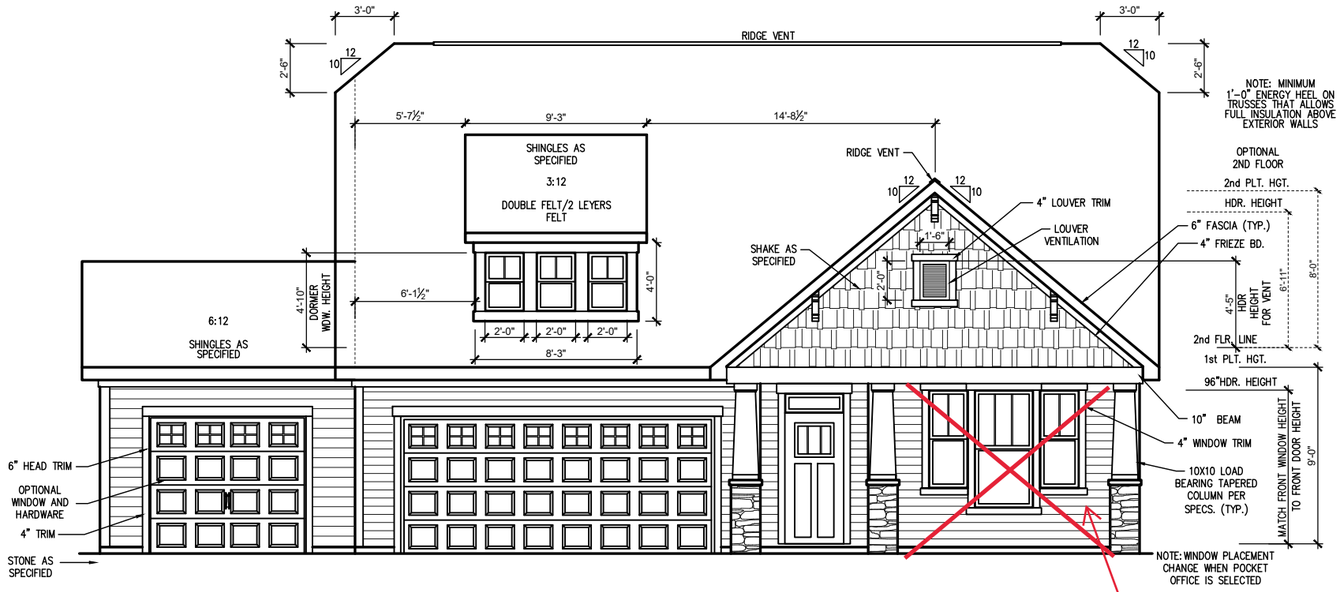
DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

CURRENT REVISION DATE: ----

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

SHEET 3.2c

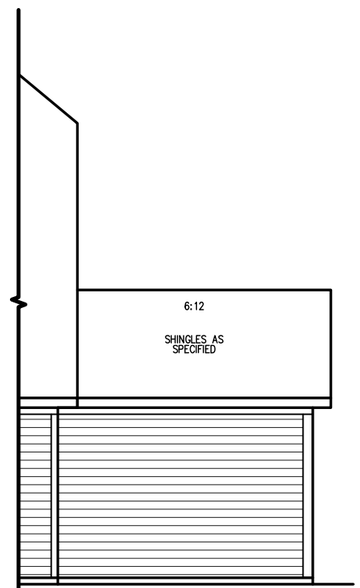


FRONT ELEVATION 'CRAFTSMAN' (SLAB)

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

SEE FOUNDATION PAGES FOR FOUNDATION TYPE

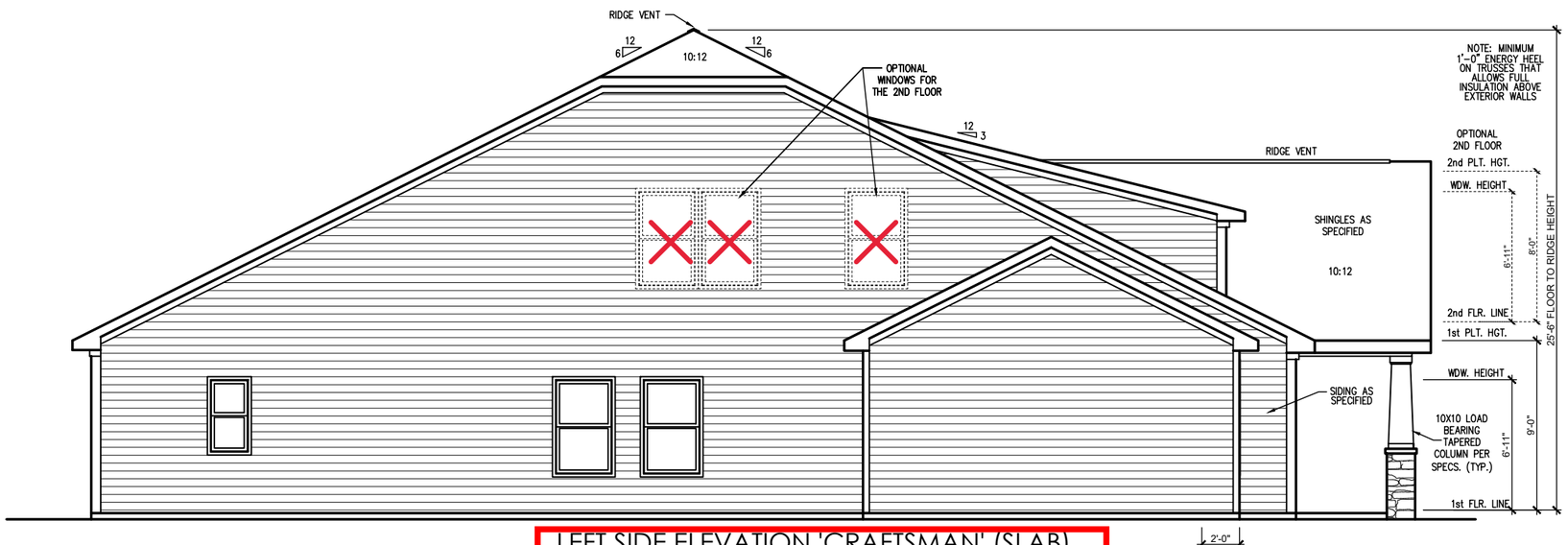
See Sheet 3.1c for correct front



OPT. 3-CAR GARAGE REAR ELEVATION (SLAB)

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

SEE FOUNDATION PAGES FOR FOUNDATION TYPE



LEFT SIDE ELEVATION 'CRAFTSMAN' (SLAB)

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

SEE FOUNDATION PAGES FOR FOUNDATION TYPE

NEW HOME INC.

REV. #	DESCRIPTION	DATE
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THE CLAYTON - LH

Third Car Garage Elevations (Slab)

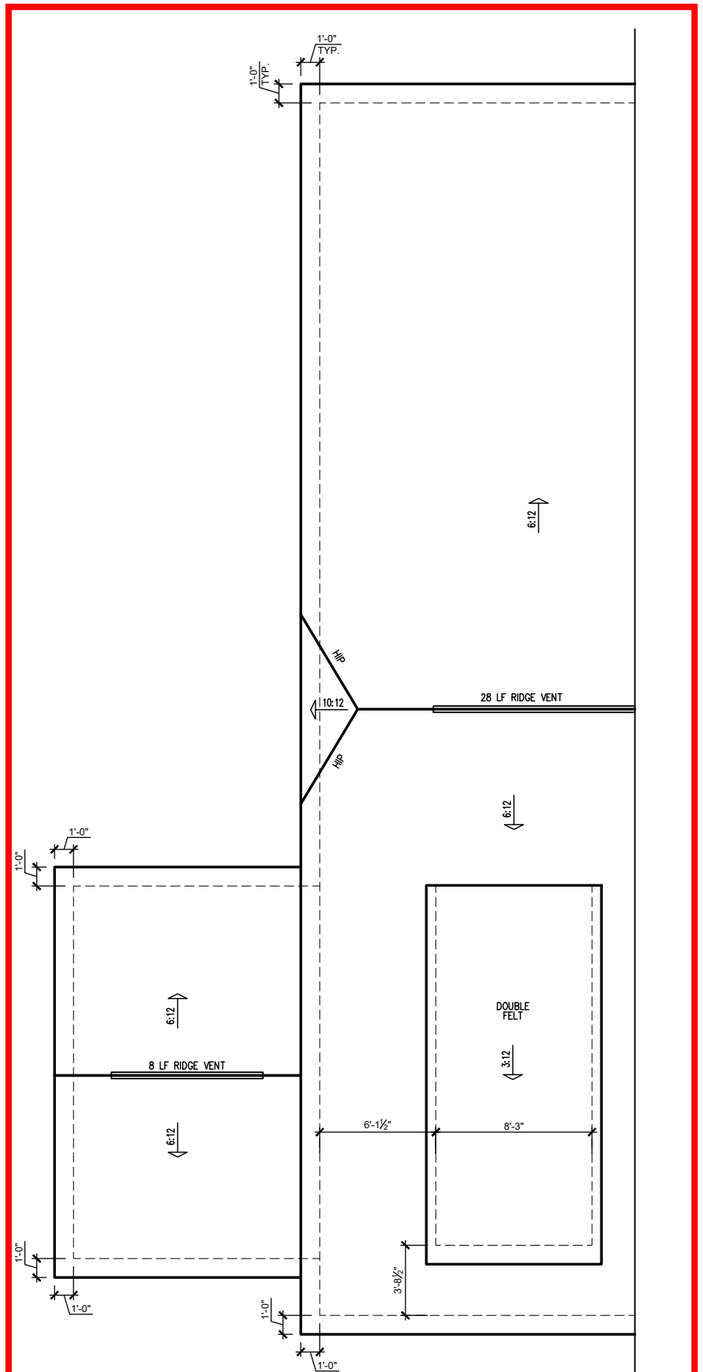
DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

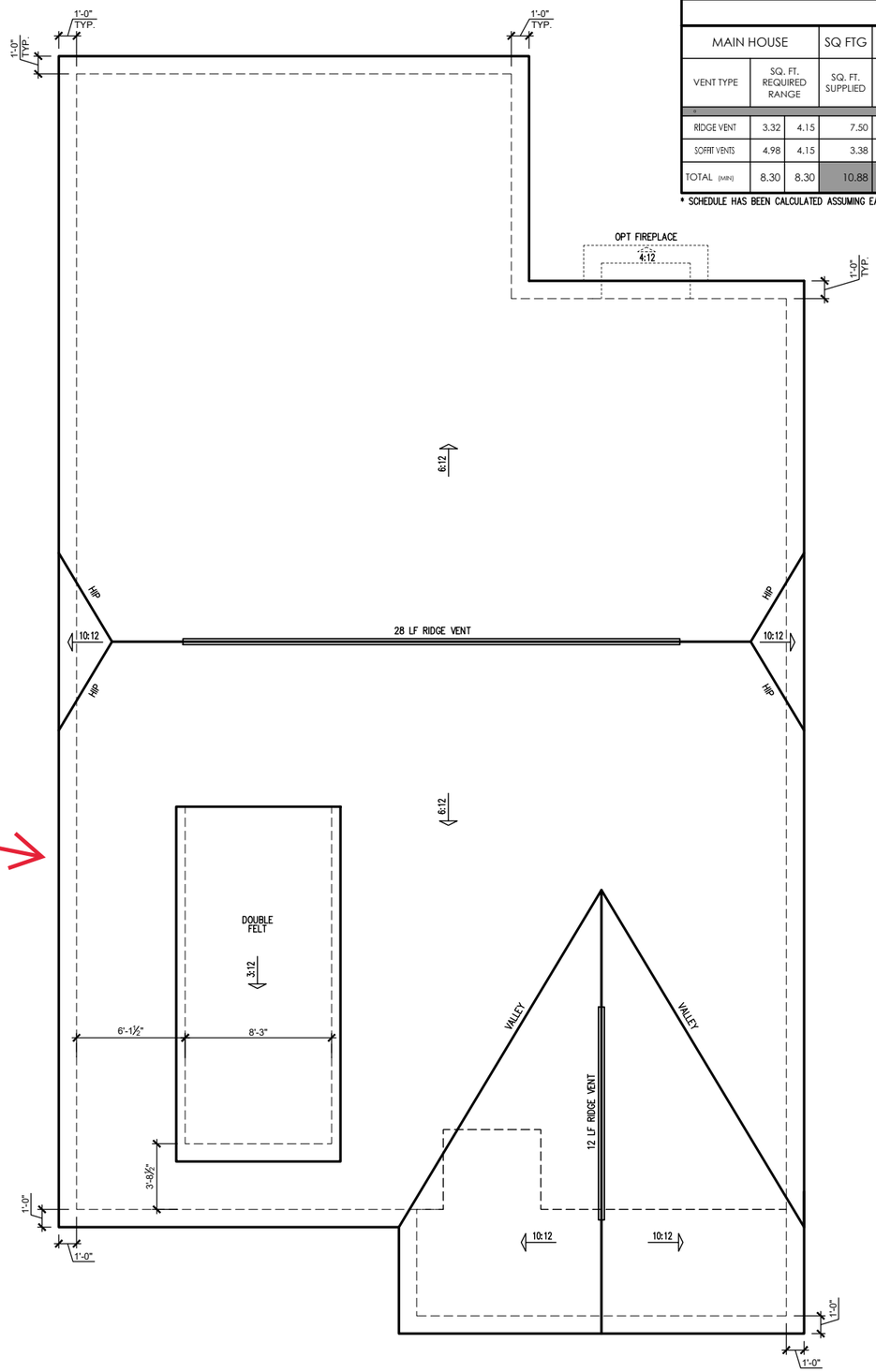
CURRENT REVISION DATE: ----

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

SHEET 3.3.2c



OPT. 3-CAR GARAGE
'CRAFTSMAN' ROOF PLAN
SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17



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

ATTIC VENT SCHEDULE

ENGLISH COUNTRY

MAIN HOUSE		SQ FTG	2489	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	3.32	4.15	7.50	68.97	0	0	60.00	
SOFFIT VENTS	4.98	4.15	3.38	31.03			0	54.00
TOTAL (MIN)	8.30	8.30	10.88	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

NEW HOME INC.

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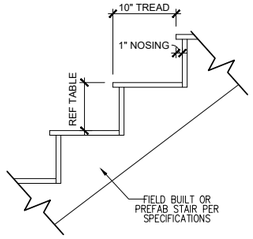
THE CLAYTON - LH

Roof Plan 'Craftsman'

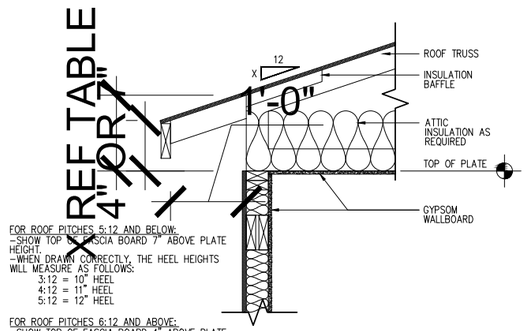
DRAWN BY: South Designs
ISSUE DATE: 7/1/2021
CURRENT REVISION DATE: ----
SCALE: 1/8" = 1'-0"
SHEET 3.4c



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



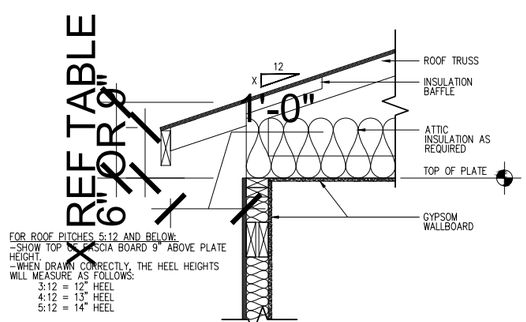
FOR ROOF PITCHES 5:12 AND BELOW:
-SHOW TOP OF FASCIA BOARD 7" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
3:12 = 10" HEEL
4:12 = 11" HEEL
5:12 = 12" HEEL

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



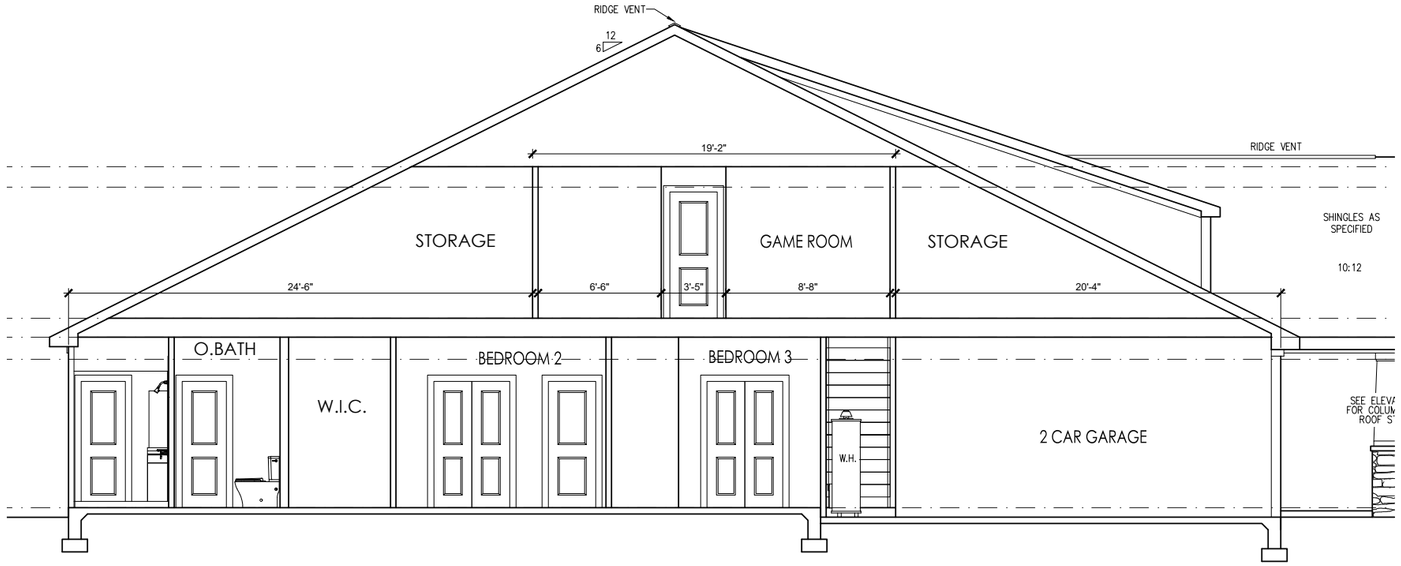
FOR ROOF PITCHES 5:12 AND BELOW:
-SHOW TOP OF FASCIA BOARD 9" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
3:12 = 12" HEEL
4:12 = 13" HEEL
5:12 = 14" HEEL

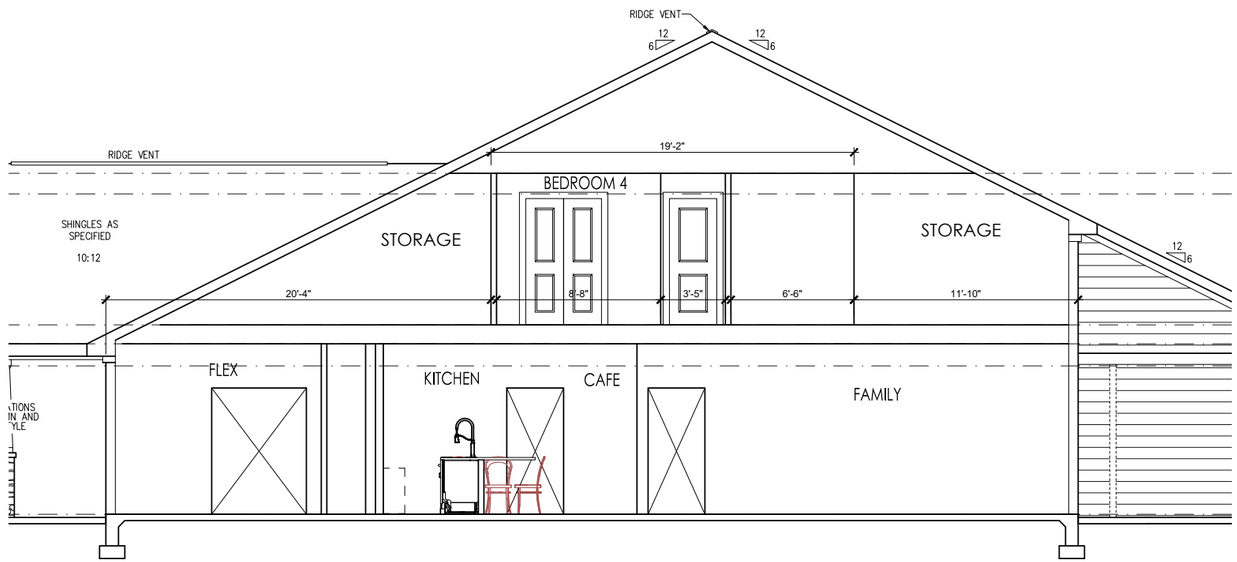
FOR ROOF PITCHES 6:12 AND ABOVE:
-SHOW TOP OF FASCIA BOARD 6" ABOVE PLATE HEIGHT.
-WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
6:12 = 12" HEEL
7:12 = 13" HEEL
8:12 = 14" HEEL
9:12 = 15" HEEL
10:12 = 16" HEEL

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





NEW HOME INC.

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THE CLAYTON - LH

Building Sections 'Craftsman'

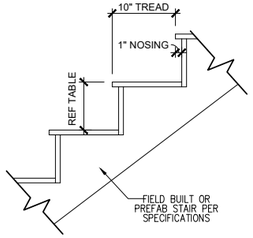
DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

CURRENT REVISION DATE: ----

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

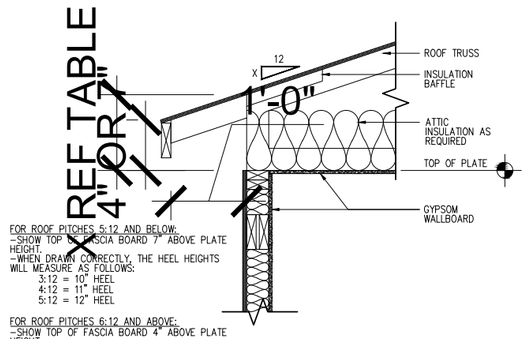
SHEET 4.0c



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



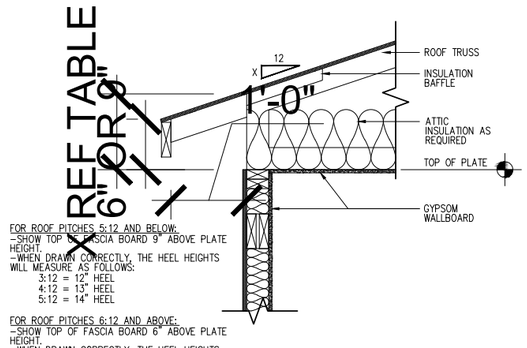
FOR ROOF PITCHES 5:12 AND BELOW:
–SHOW TOP OF FASCIA BOARD 7" ABOVE PLATE HEIGHT.
–WHEN DRAWN CORRECTLY, THE HEEL HEIGHTS WILL MEASURE AS FOLLOWS:
3:12 = 10" HEEL
4:12 = 11" HEEL
5:12 = 12" HEEL

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



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
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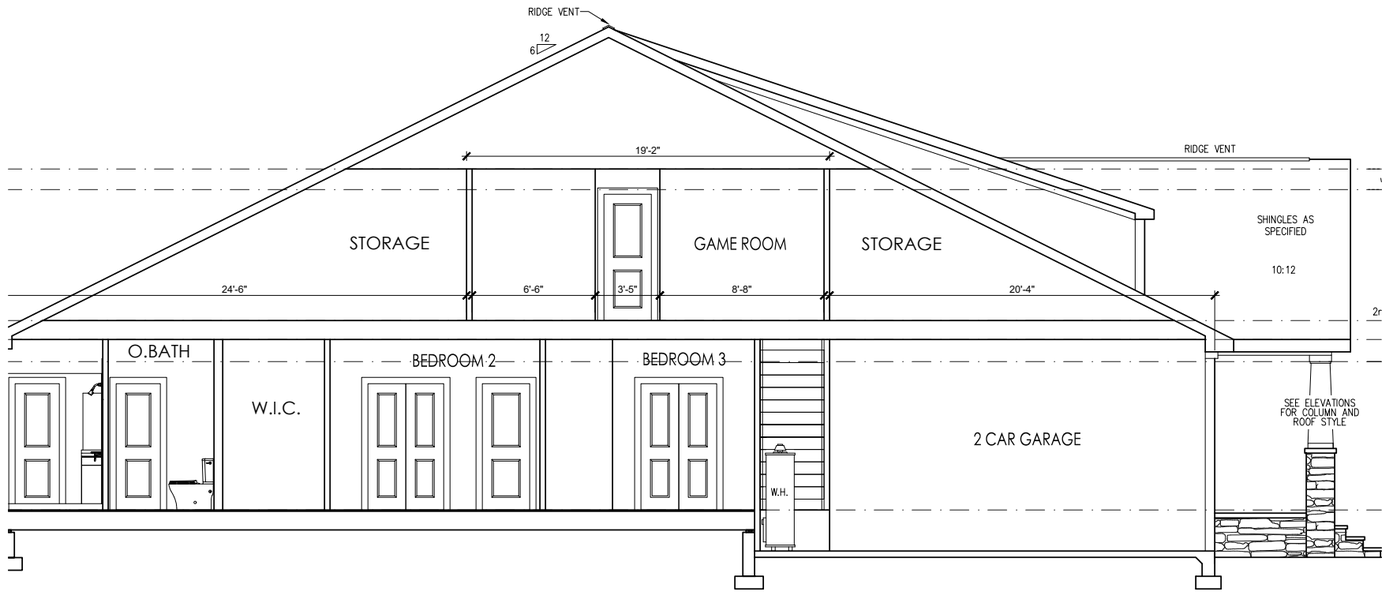
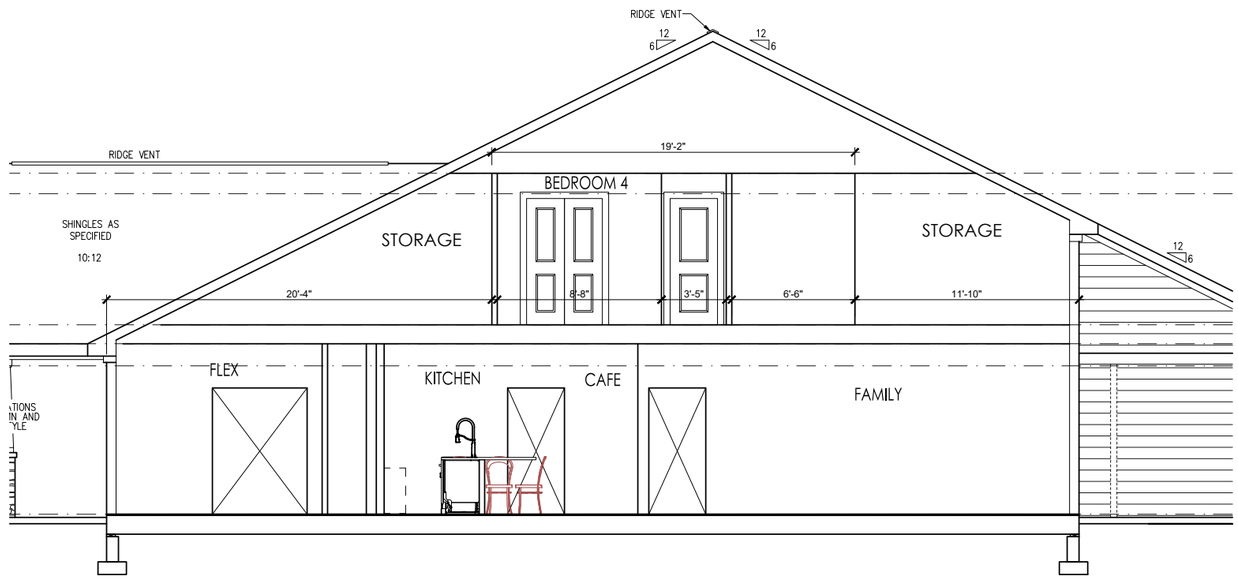
8:12 = 14" HEEL
9:12 = 15" HEEL
10:12 = 16" HEEL

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





NEW HOME INC.

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THE CLAYTON - LH

Building Sections 'Craftsman' _Crawl

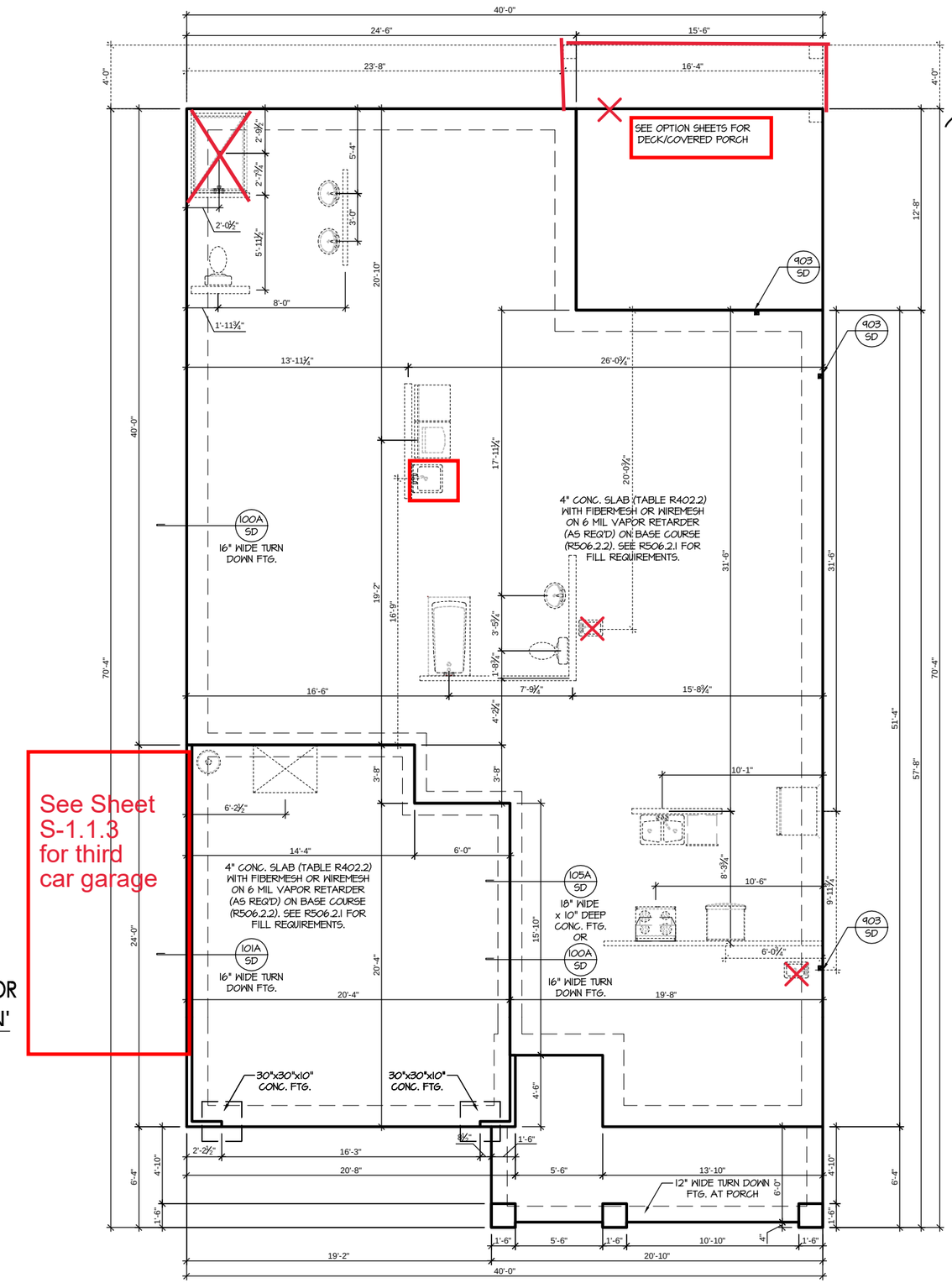
DRAWN BY: South Designs

ISSUE DATE: 7/1/2021

CURRENT REVISION DATE: ----

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

SHEET: 4.0.1c



See Sheet S-1.1.3 for third car garage

NO SECOND FLOOR

SLAB FOUNDATION PLAN 'CRAFTSMAN'

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

REFER TO "5D" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER MARK MINSHEW 3-1-2024

PROJECT # 21-2967.1-GL

Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability. Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

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3716 Benson Drive, Raleigh, NC 27609
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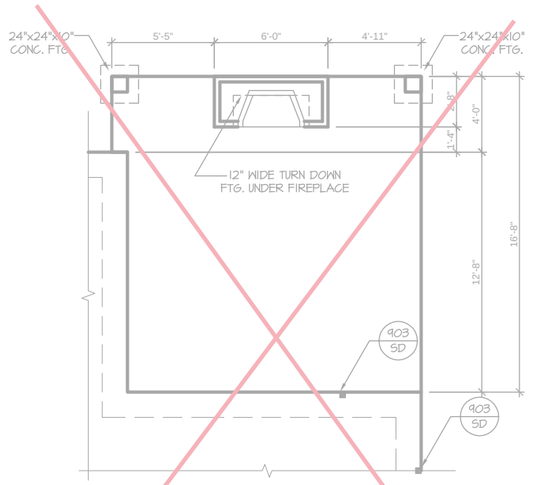
NEW HOME, INC.

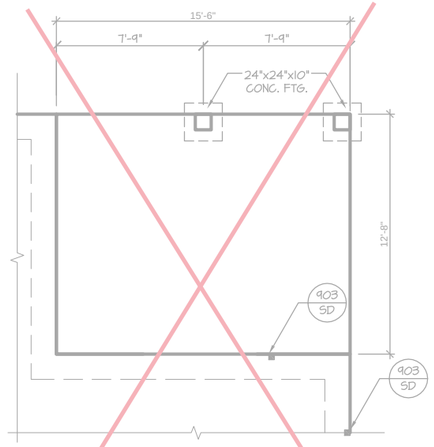
The Clayton - GL
No Second Floor
NEW HOME, INC.

S-1.1



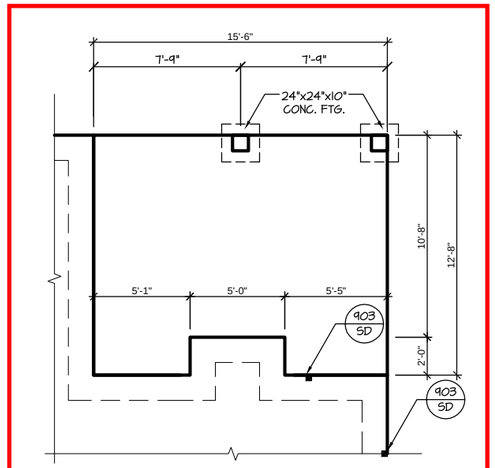
OPT. FIREPLACE @ EXT COVERED PORCH

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



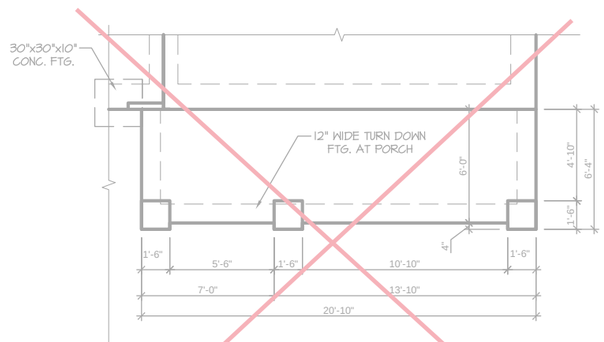
OPT. COVERED PORCH

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



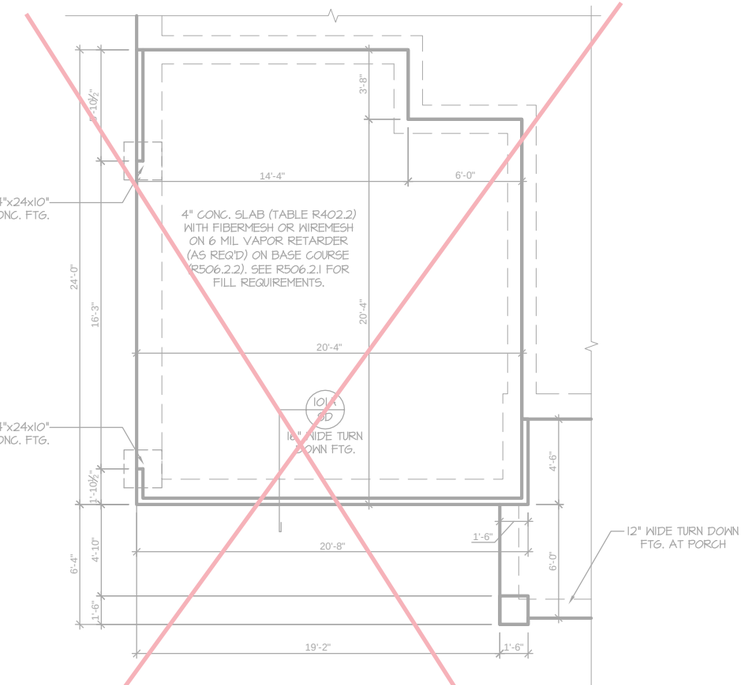
OPT. FIREPLACE @ COVERED PORCH

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



'CRAFTSMAN' (SLAB) SMART DELIVERY DOOR

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



CRAFTSMAN' SLAB SIDE LOAD GARAGE FOUNDATION

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.

NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER MARK MINSHEW 3-2024

PROJECT # 21-2967.1-GL

Engineers seal applies only to structural components on this document.
Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability.
Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

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NEW HOME, INC.

The Clayton - GL
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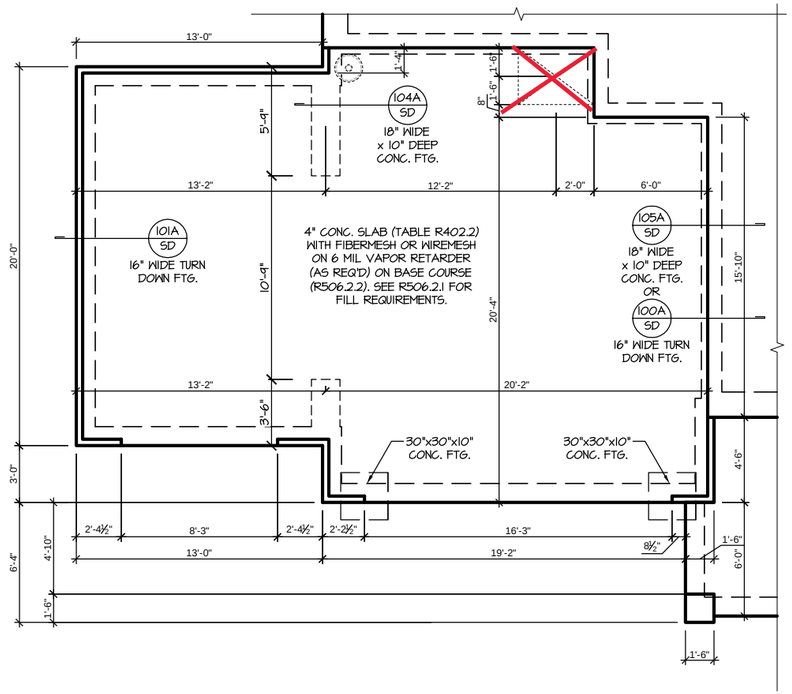
NEW HOME, INC.

S-1.1.1



'CRAFTSMAN' SLAB
THREE CAR GARAGE FOUNDATION
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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S-1.1.3

FRAMING NOTES

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

1. 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.

2. 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.

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" = 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 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 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (7) 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 @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.

6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 7/16" 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

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 NCDOI 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 NCRC): 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.

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

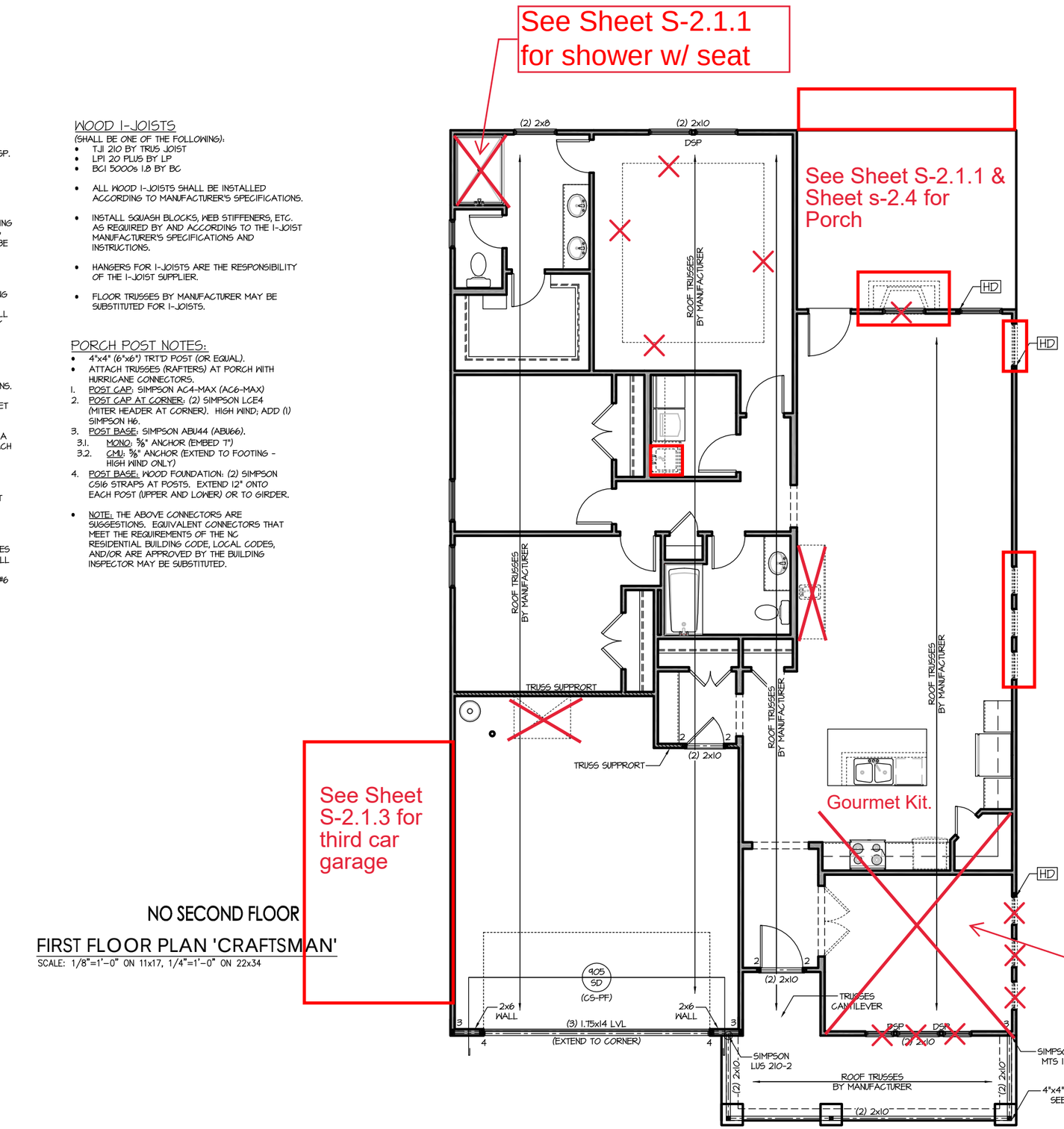
- ALL WOOD I-JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.
- FLOOR TRUSSES BY MANUFACTURER MAY BE SUBSTITUTED FOR I-JOISTS.

PORCH POST NOTES:

- 4"x4" (6"x6") TRT'D 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 7")
   - 3.2. CMU: 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: 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.



NO SECOND FLOOR

FIRST FLOOR PLAN 'CRAFTSMAN'

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.

NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER D. MARK MINGLEW 3-1-2024

PROJECT # 21-2967.1-GL

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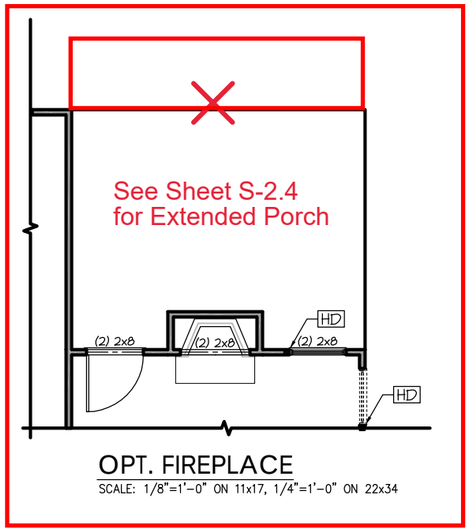
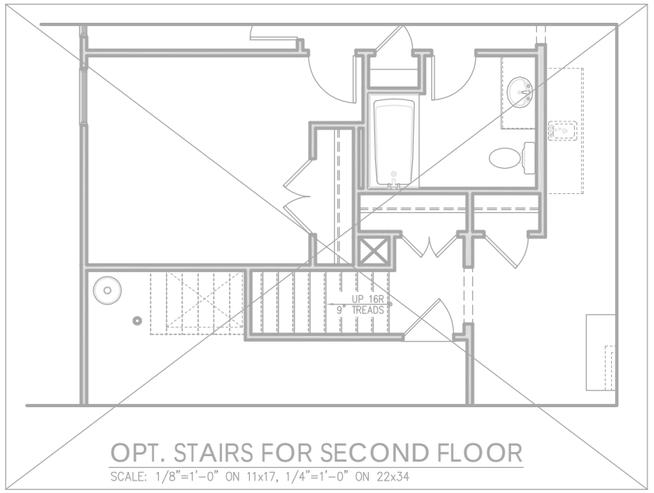
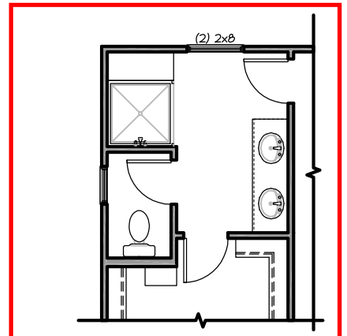


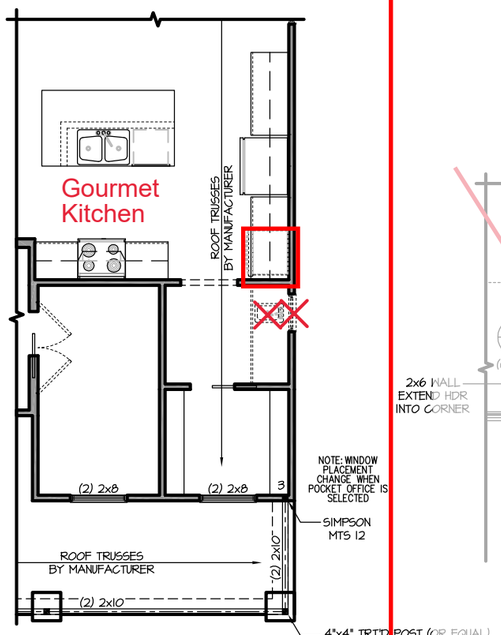
OPT. FIREPLACE
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



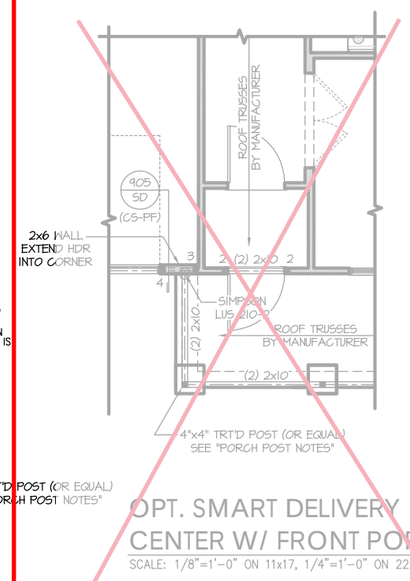
OPT. STAIRS FOR SECOND FLOOR
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



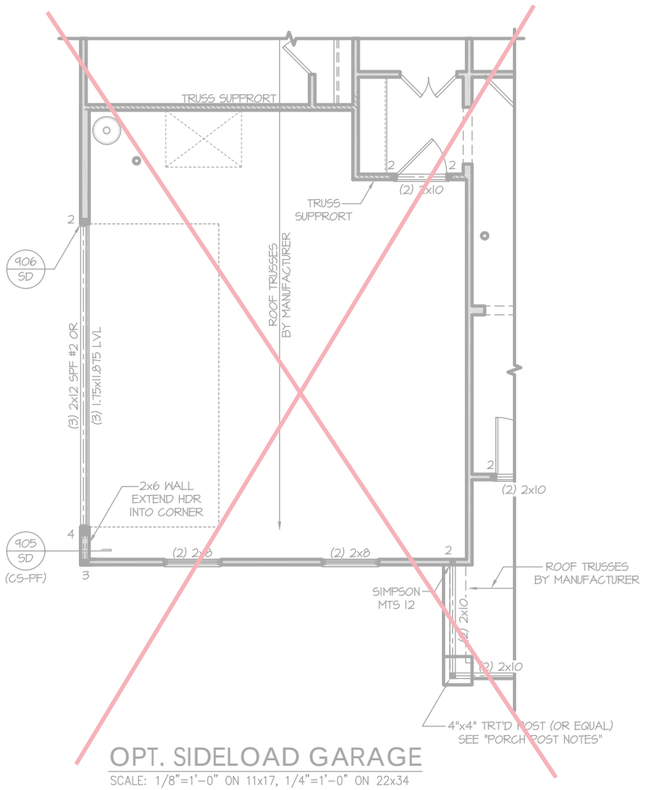
OPT. SHOWER
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



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



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



OPT. SIDELOAD GARAGE
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.

NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER MARK MANSHEW
3-2024

PROJECT #
21-2967.1-GL

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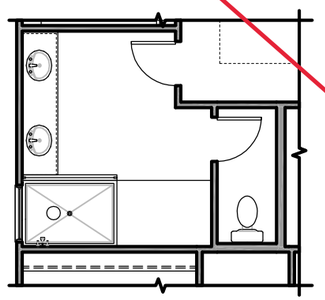
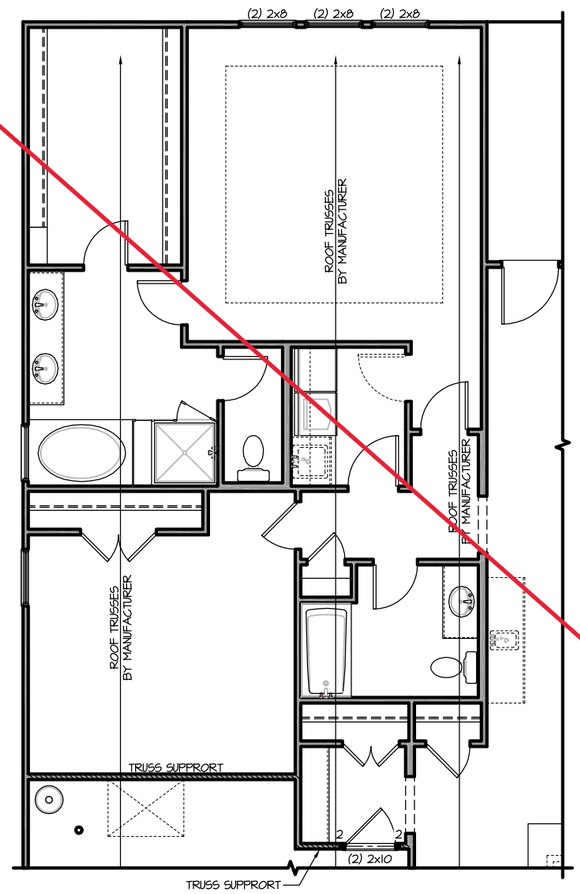


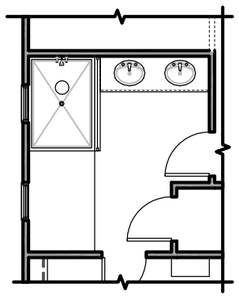
OPT. ZERO ENTRY SUPER SHOWER

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.



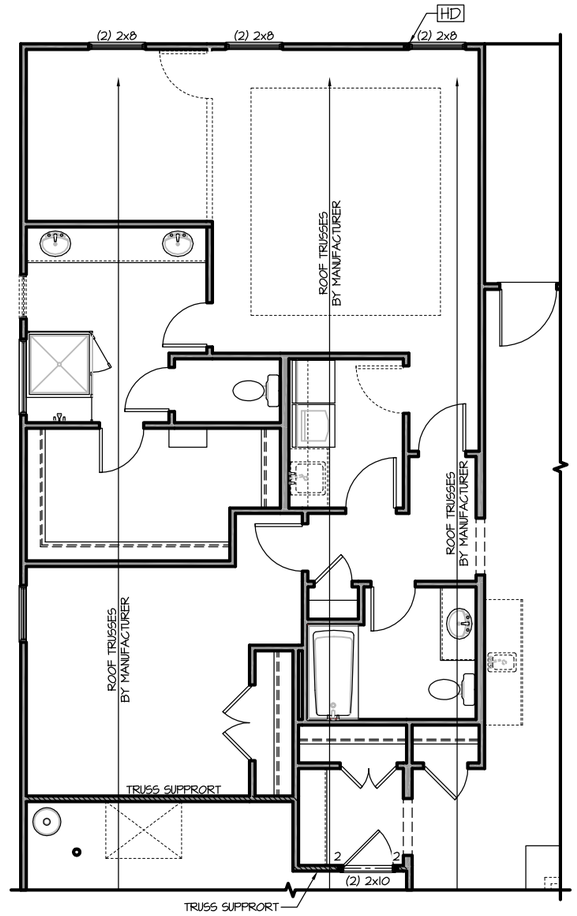
OPT. OWNER'S SUITE W/ LARGE WALK-IN CLOSET

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/ SITTING ROOM



OPT. OWNER'S SUITE W/ SITTING ROOM

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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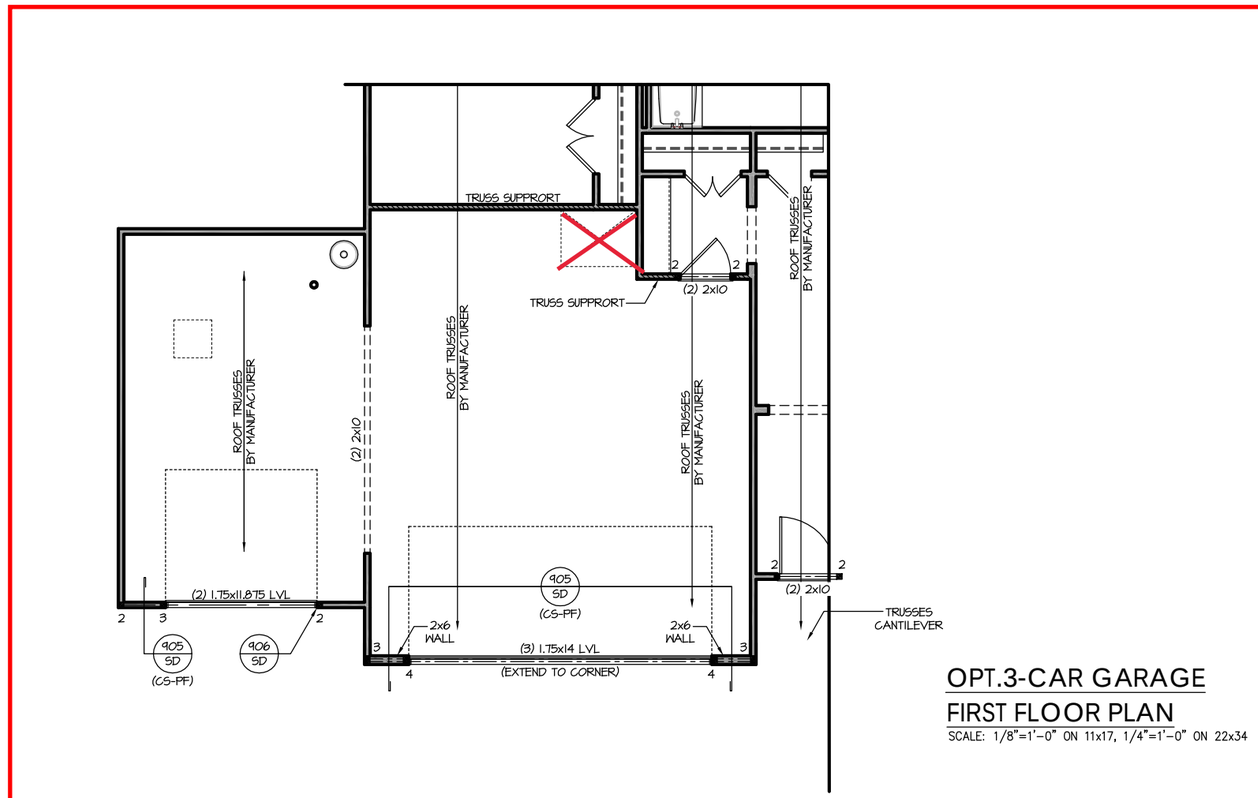

OPT.3-CAR GARAGE
FIRST FLOOR PLAN

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.

NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER MARK MINSHEW
3/2/24

PROJECT # 21-2967.1-GL

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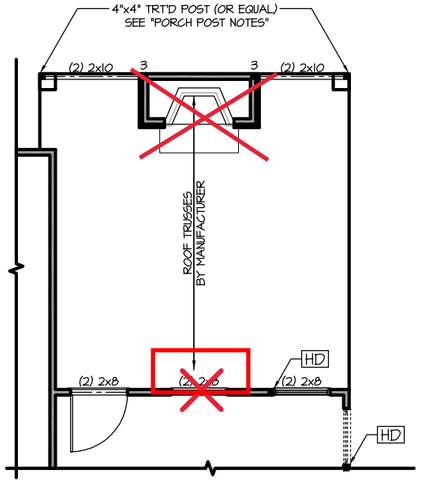
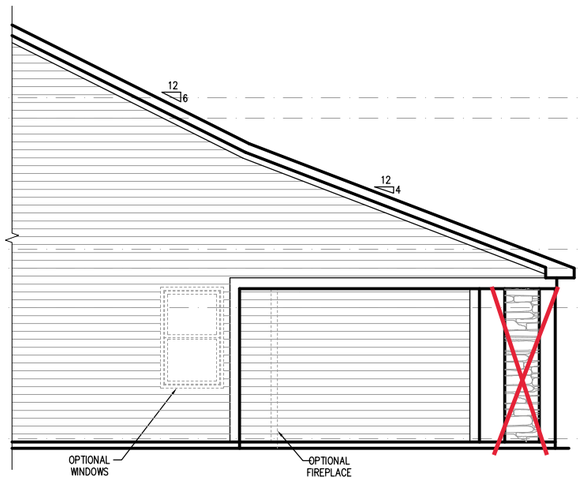


OPT. EXTENDED
COVERED PORCH W/ FIREPLACE

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

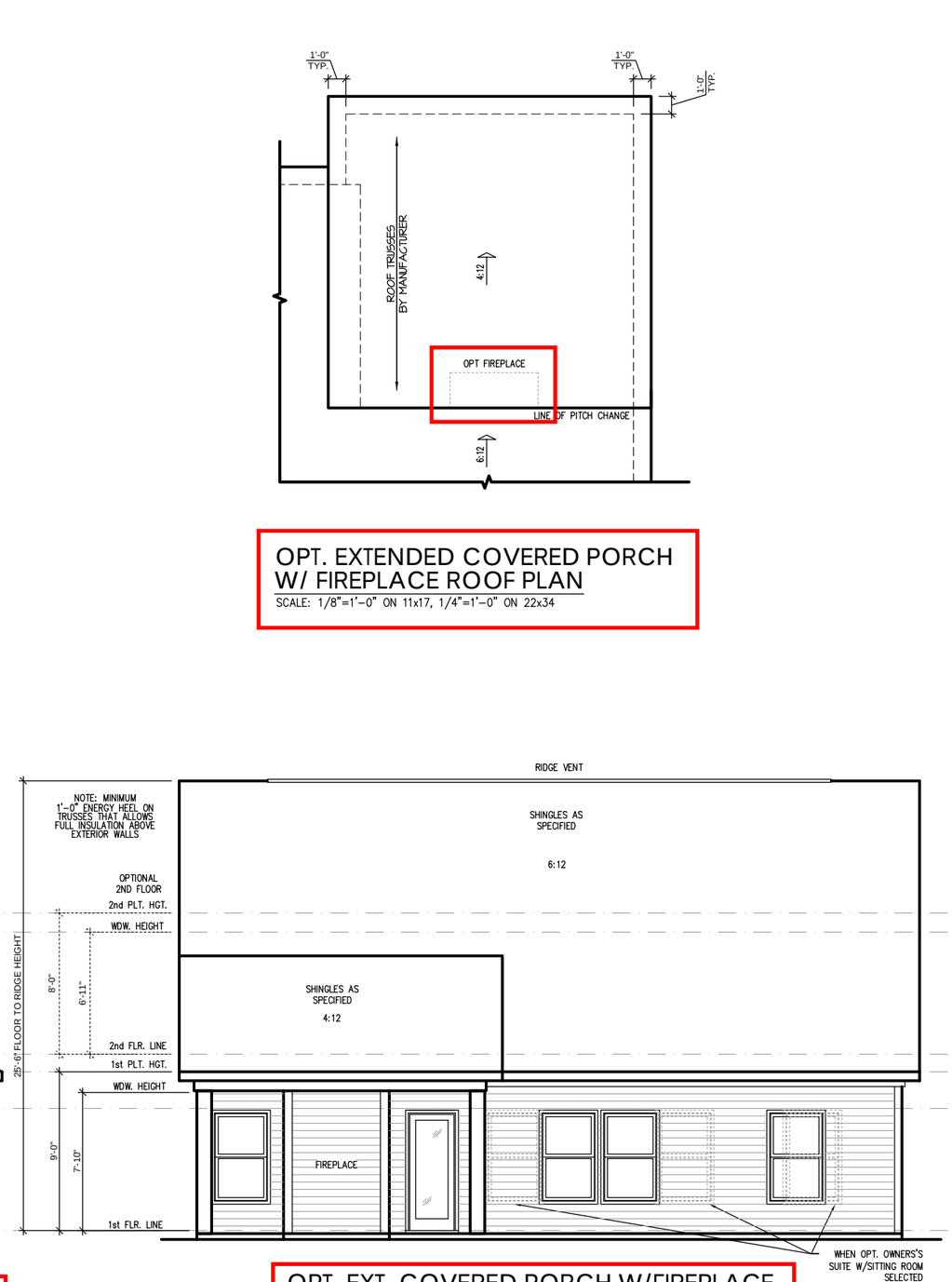
OPT. EXTENDED COVERED PORCH
W/ FIREPLACE ROOF PLAN

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



OPT. EXT. COVERED PORCH W/FIREPLACE
PARTIAL RIGHT SIDE ELEVATION

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



OPT. EXT. COVERED PORCH W/FIREPLACE
REAR ELEVATION

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

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NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER D. MARK MINGUEN 3/20/24

PROJECT #
21-2967.1-GL

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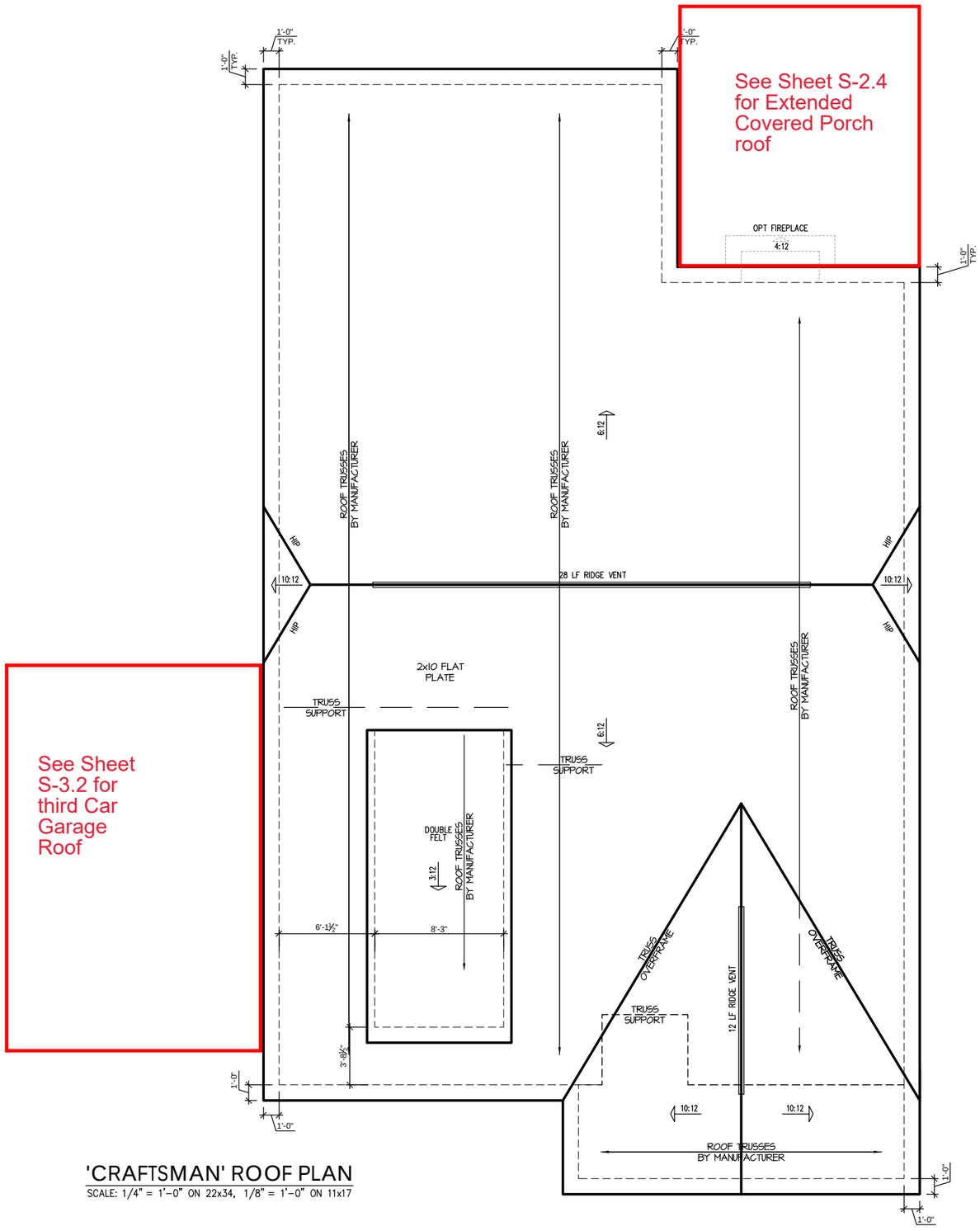

'CRAFTSMAN' ROOF PLAN

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

TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC): 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.

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

NORTH CAROLINA PROFESSIONAL SEAL 33158 ENGINEER MARK MINSHEW
3/20/24

PROJECT # 21-2967.1-GL

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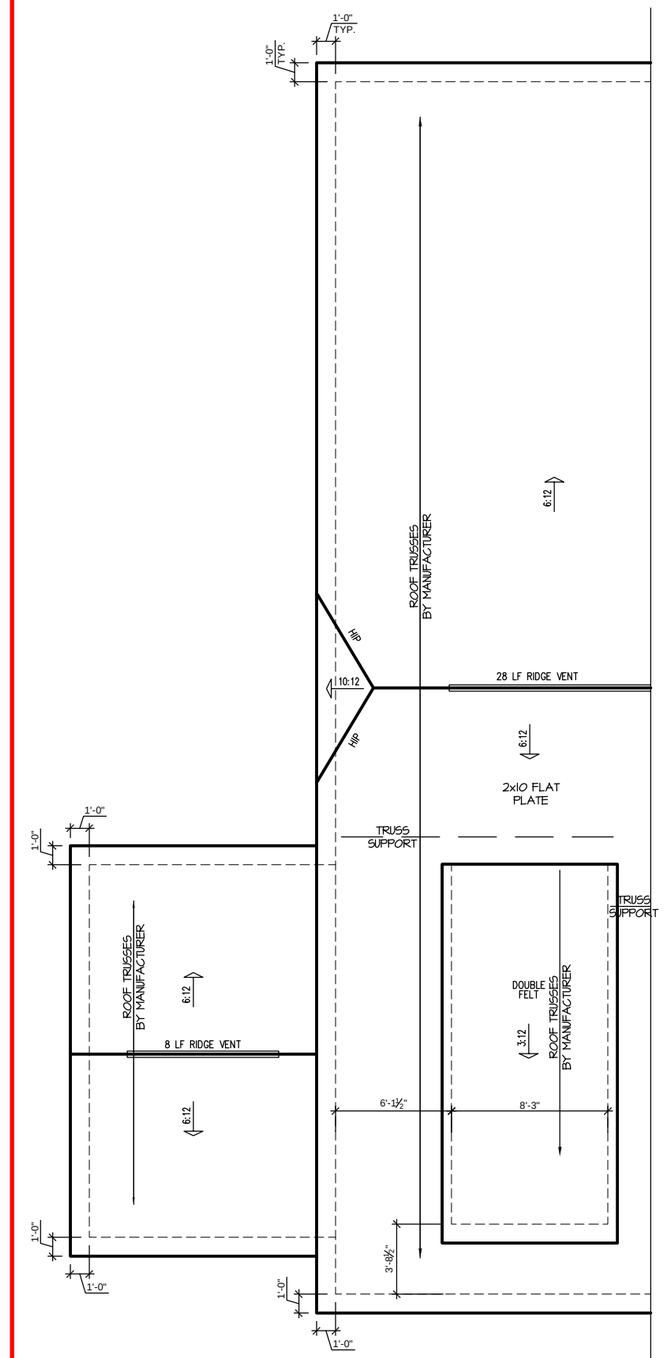

OPT. 3-CAR GARAGE 'CRAFTSMAN' ROOF PLAN

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

TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC): 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.

NORTH CAROLINA PROFESSIONAL SEAL 32153 ENGINEER D. MARK MINSHEW 3/20/24

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

PROJECT # 21-2967.1-GL

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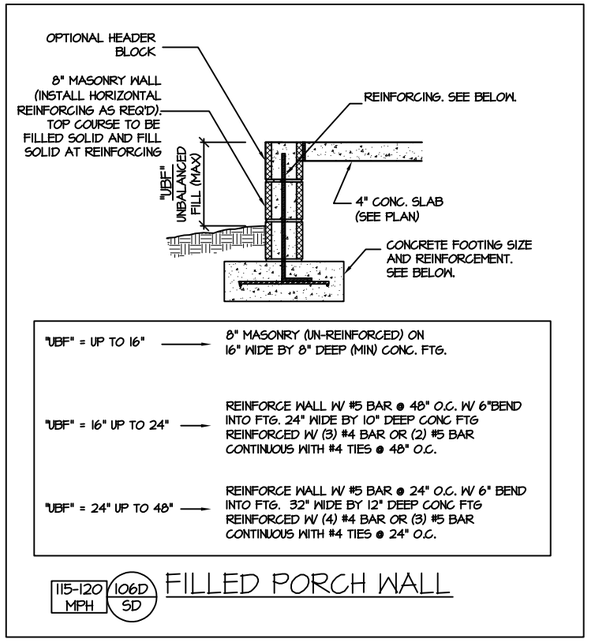
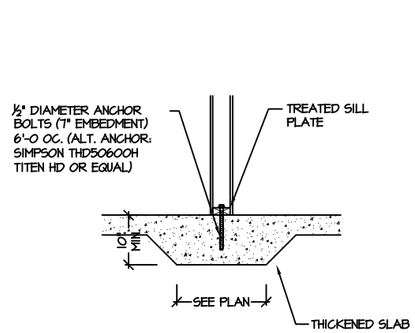


115-120 MPH / 106D SD

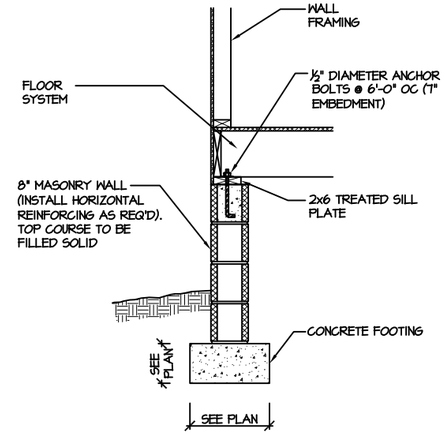
FILLED PORCH WALL



115-120 MPH / 104A SD

THICKENED SLAB

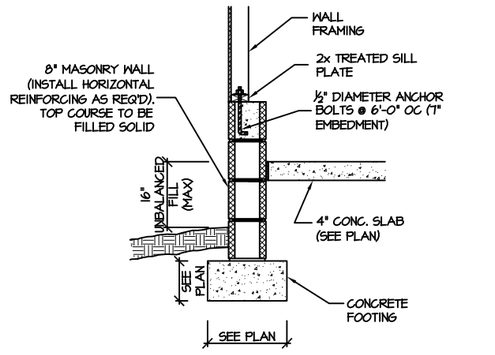
(INTERIOR BEARING WALL)



115-120 MPH / 110A SD

CRAWL SPACE FOOTING

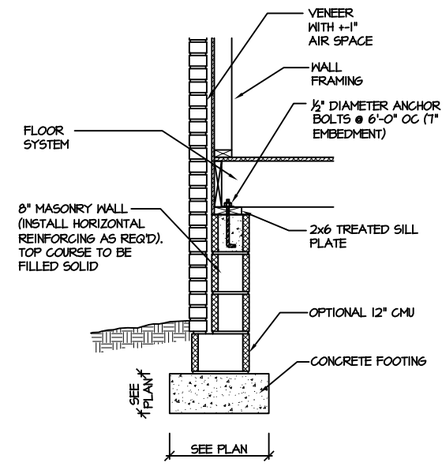
(SIDING OR EQUAL)



115-120 MPH / 111A SD

GARAGE WALL FOOTING

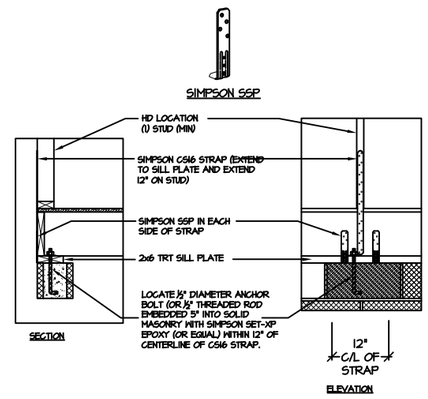
(SIDING OR EQUAL)



115-120 MPH / 112A SD

CRAWL SPACE FOOTING

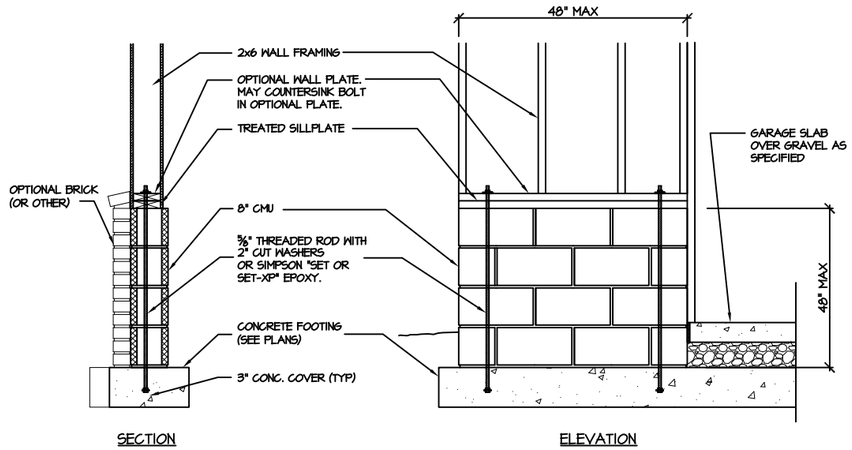
(VENEER)



904 SD

BRACED WALL END CONDITION " HD" HOLD-DOWN DETAIL

NOTE: SIMPSON DTT-1Z 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.



907 SD

GARAGE 'WING WALL' REINFORCING

PER IRC FIGURE R602.10.4.3

CRAWL SPACE FOUNDATION

NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER MARK MINSHEW

PROJECT # 21-2967.1

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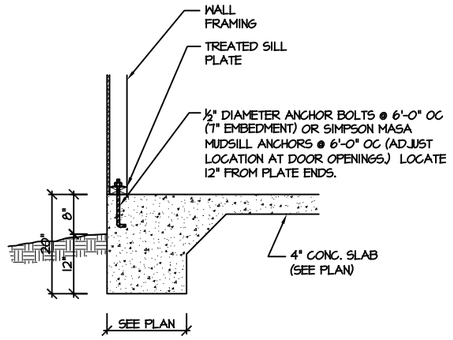
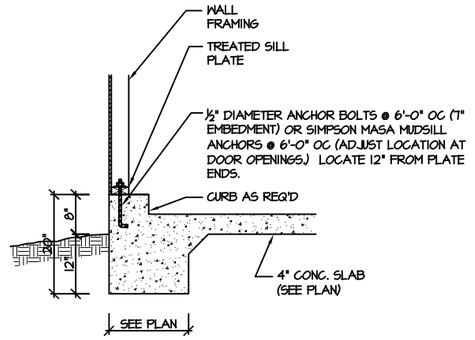
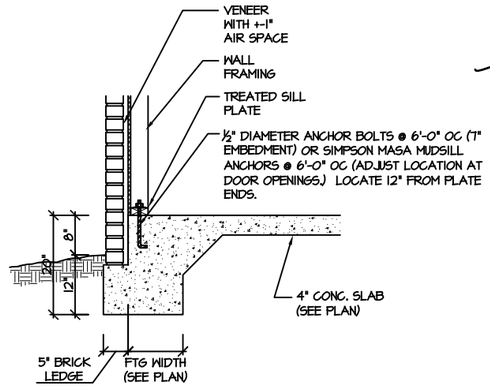


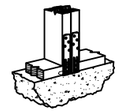
115-120 MPH | 100A SD — MONOLITHIC SLAB FOOTING
(SIDING OR EQUAL)

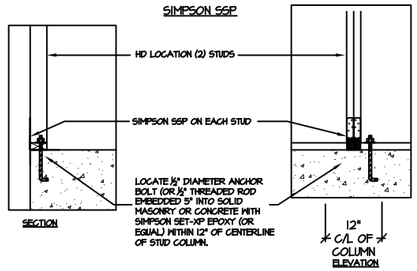


115-120 MPH | 101A SD — MONOLITHIC SLAB @ GARAGE
(SIDING OR EQUAL)

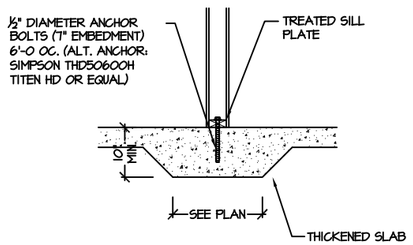


115-120 MPH | 102A SD — MONOLITHIC SLAB FOOTING
(VENEER)

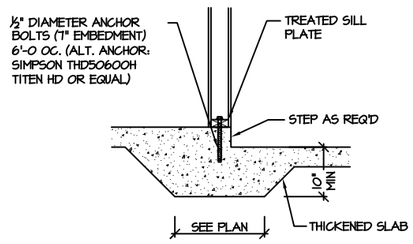

SIMPSON SSP



903 SD — BRACED WALL END CONDITION "HD" HOLD-DOWN DETAIL
NOTE: SIMPSON DTT-1Z 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.



115-120 MPH | 104A SD — THICKENED SLAB
(INTERIOR BEARING WALL)



115-120 MPH | 105A SD — THICKENED SLAB @ GARAGE
(INTERIOR GARAGE WALL)

MONOLITHIC SLAB FOUNDATION

PROJECT # 21-2967.1

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33153 MARK MINSHEW 3/20/24

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Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
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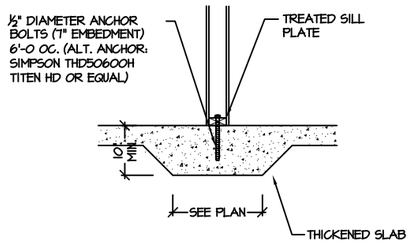
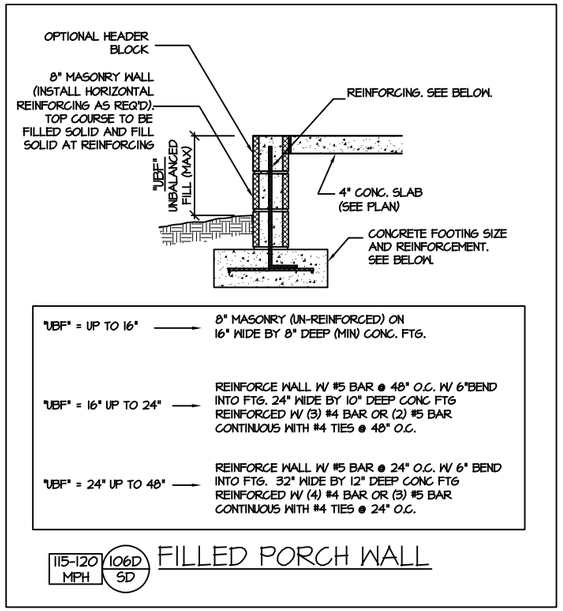
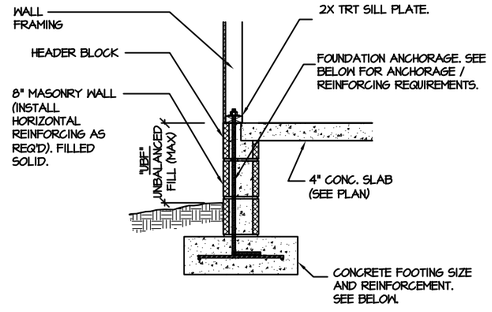


115-120 MPH | 104A SD — THICKENED SLAB

(INTERIOR BEARING WALL)

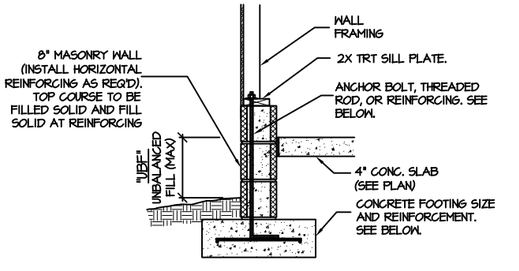


115-120 MPH | 106D SD — FILLED PORCH WALL



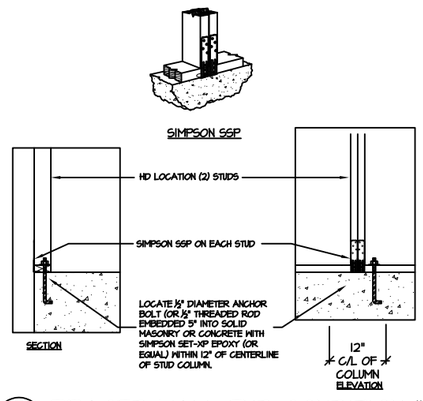
115-120 MPH | 106F SD — STEM WALL SLAB FOOTING

(SIDING OR EQUAL)



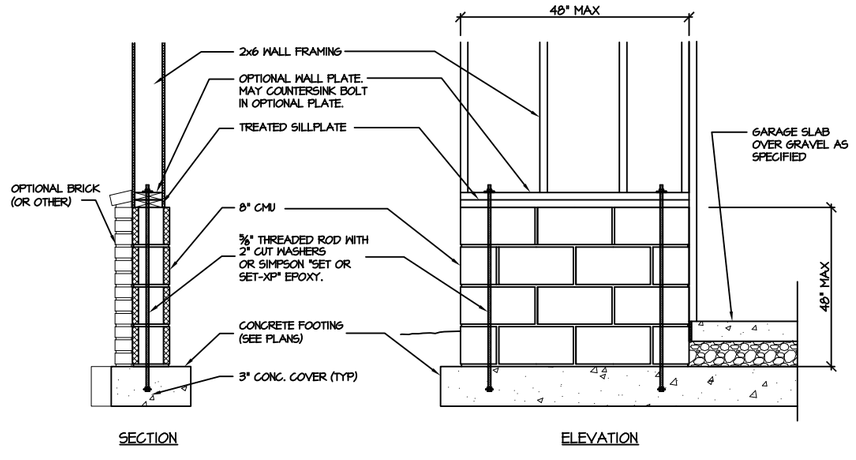
115-120 MPH | 107E SD — STEM WALL SLAB @ GARAGE

(SIDING OR EQUAL)



903 SD — BRACED WALL END CONDITION "HD" HOLD-DOWN DETAIL

NOTE: SIMPSON DTT-1Z 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.



907 SD — GARAGE 'WING WALL' REINFORCING

PER IRC FIGURE R602.10.4.3

STEMWALL SLAB FOUNDATION

NORTH CAROLINA PROFESSIONAL SEAL 33153 ENGINEER MARK MINSON 3/12/25

PROJECT # 21-2967.1

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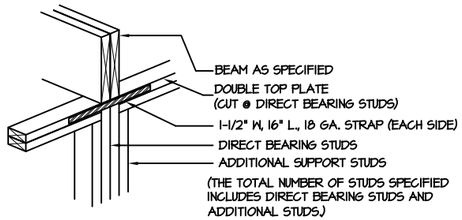
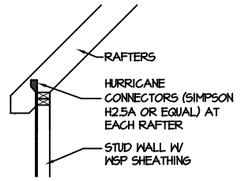
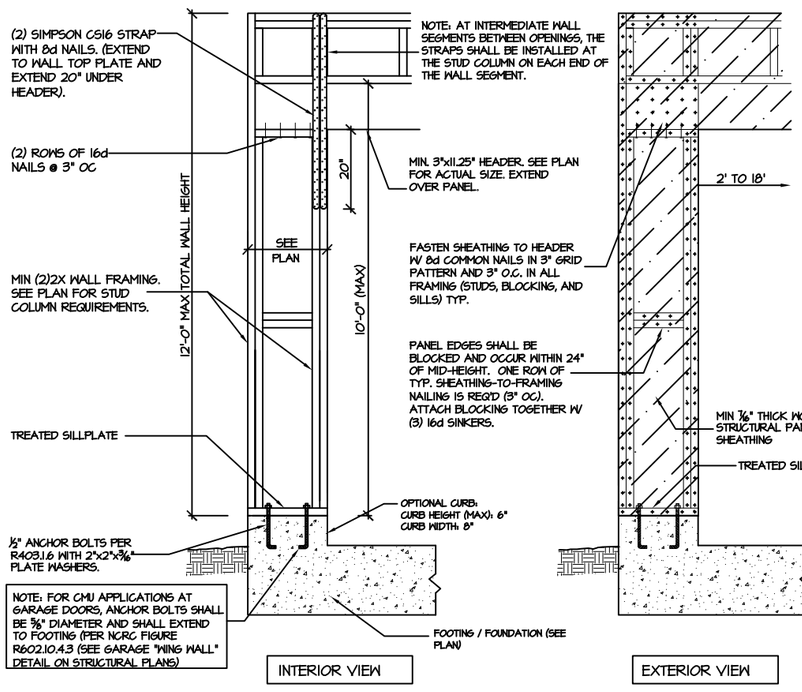
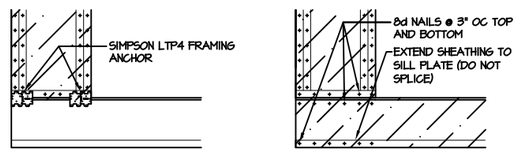


205A SD DIRECT STUD BEARING
NTS



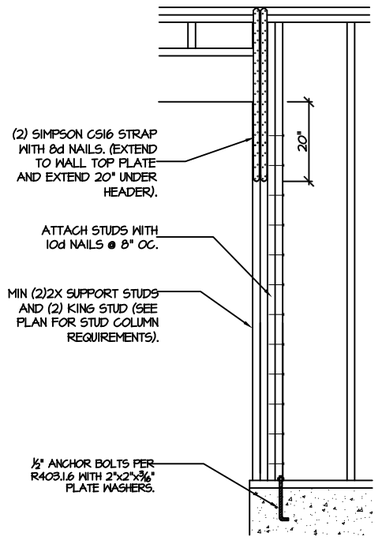
304A SD RAFTER TIE @ VAULT
NTS.





CS-PF - OVER WOOD FLOOR

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



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

NORTH CAROLINA PROFESSIONAL SEAL 30153 ENGINEER MARK MINSHEW 3-10-22

STRUCTURAL NOTES

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

1. 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.

2. 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.

3. 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)

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 ¼" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +-10'-0" x +-10'-0" GRID).

7. 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) = 425 PSI - MIN).

9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9x10 PSI.
   9.1. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0x10 PSI.
   9.2. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.

10. 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.

11. 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 DIAMETERS.

13. 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.

14. 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 R703.8.3 LINTELS.

15. 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.

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