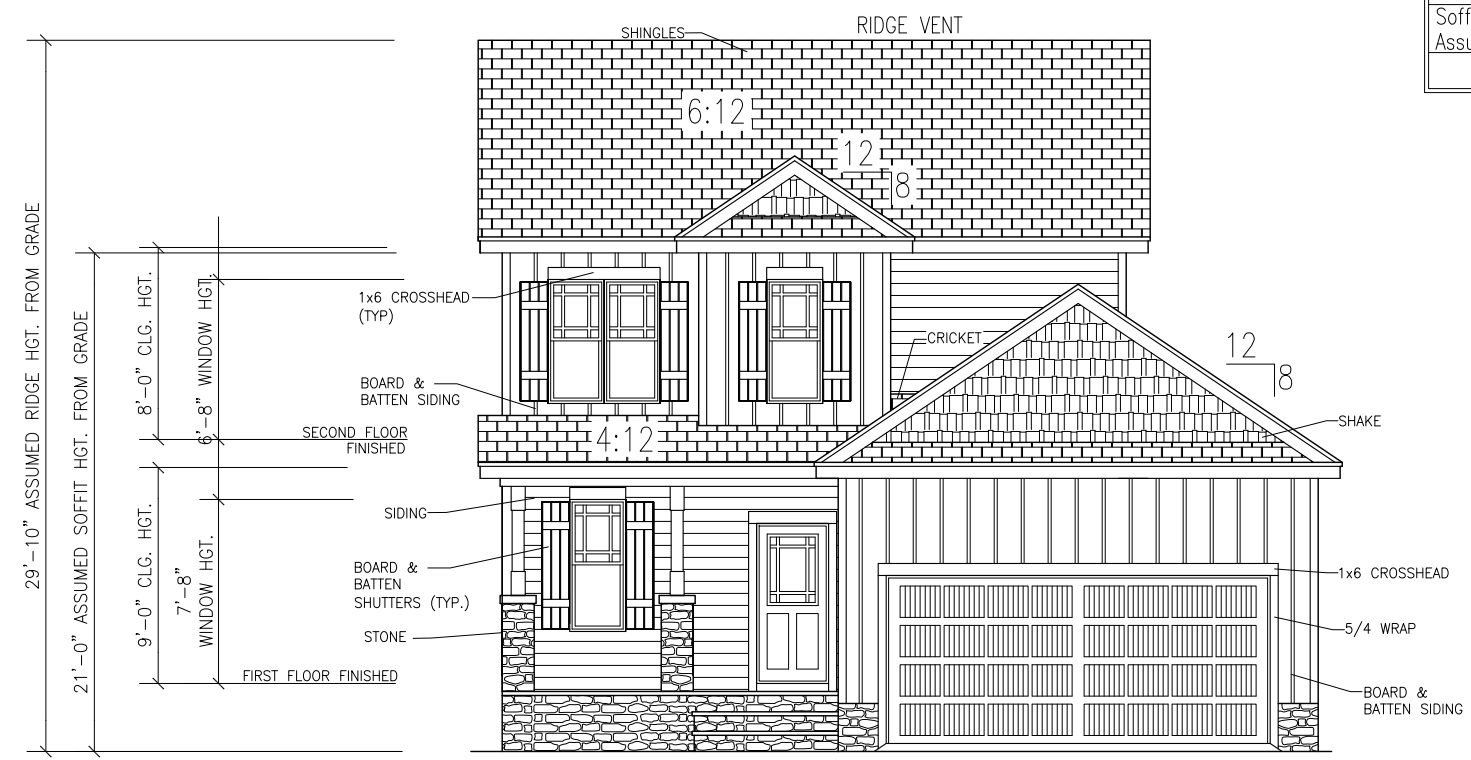
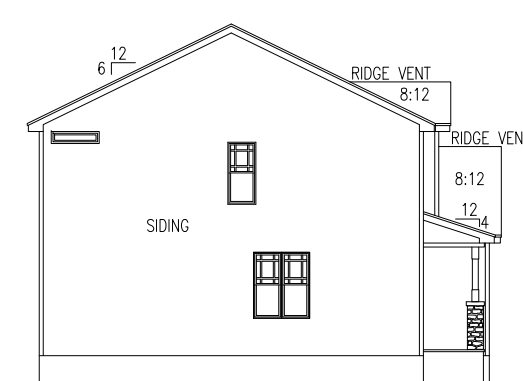


ATTIC SPACE VENTILATION	
REQUIRED	
1118	SQ. FT. OF CLG. / 150 = 7.46 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE 2018 INTERNATIONAL RESIDENTIAL BUILDING CODES.	

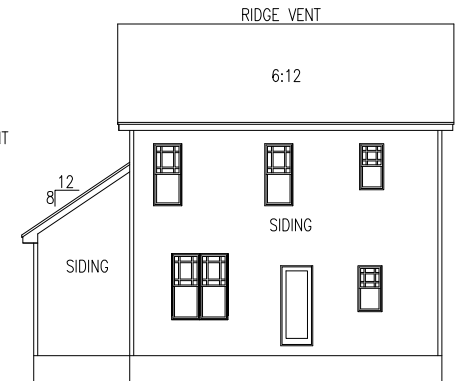
MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2	= Mean Roof Hgt.
21'-0"	+ 29'-10"	÷ 2	= 25'-5" Mean Roof Hgt.



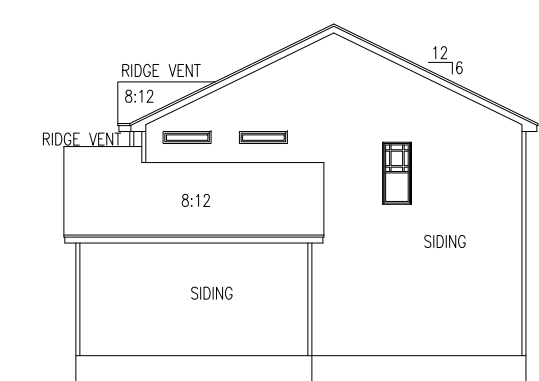
FRONT ELEVATION "B"



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

# RiverWILD Homes Lot 8 Mason Landing- 177 SAWYER MILL DR

SCALE	
24"X36"	= 1/4"=1'-0"
11"X17"	= 1/8"=1'-0"

REVISIONS:  
12/13/18

314 EAST MAIN STREET  
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info@adamsandhodge.com  
919-243-1332  
FIRM # C-4187

**ADAMS & HODGE**  
ENGINEERING, PC

**A&H**

Crawl  
Elevation "B"

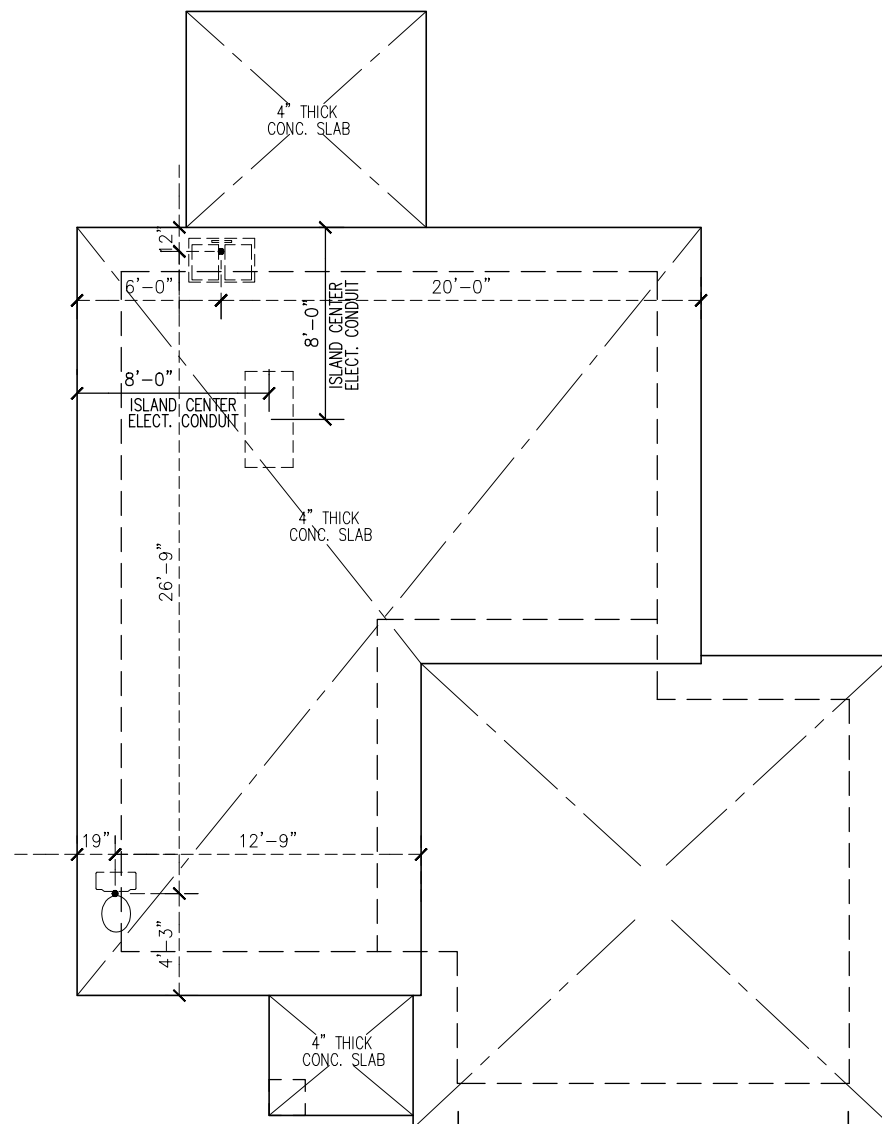
The Redwood  
2-Car

DESIGN  
ADS

DRAWN  
ADS

DATE  
12/05/18

SHEET  
1B



PLUMBING LAYOUT

SCALE  
 24"x36" = 1/4"=1'-0"  
 11"x17" = 1/8"=1'-0"

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**Plumbing  
 Layout**

**The Redwood  
 2-Car**

DESIGN  
 ADS

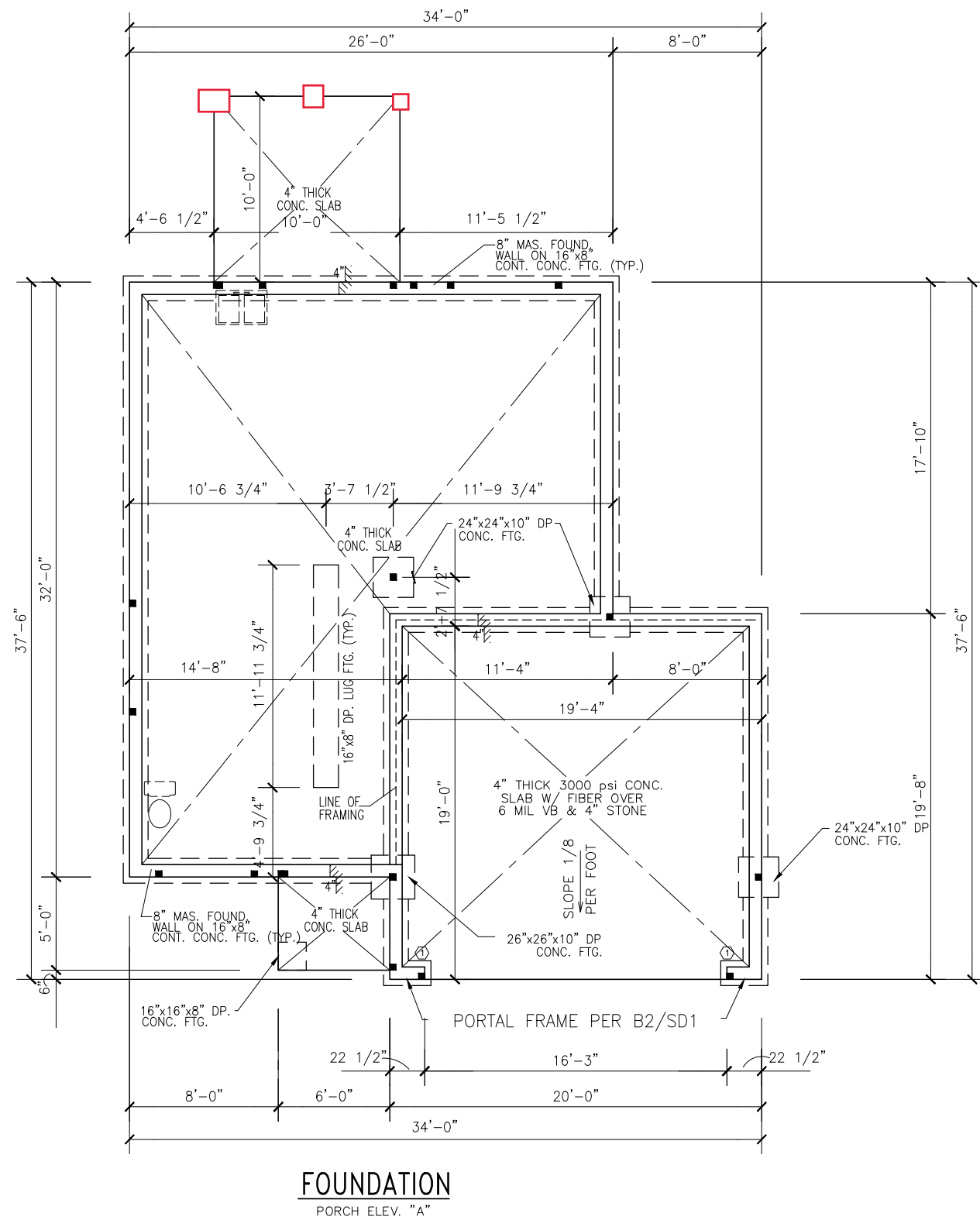
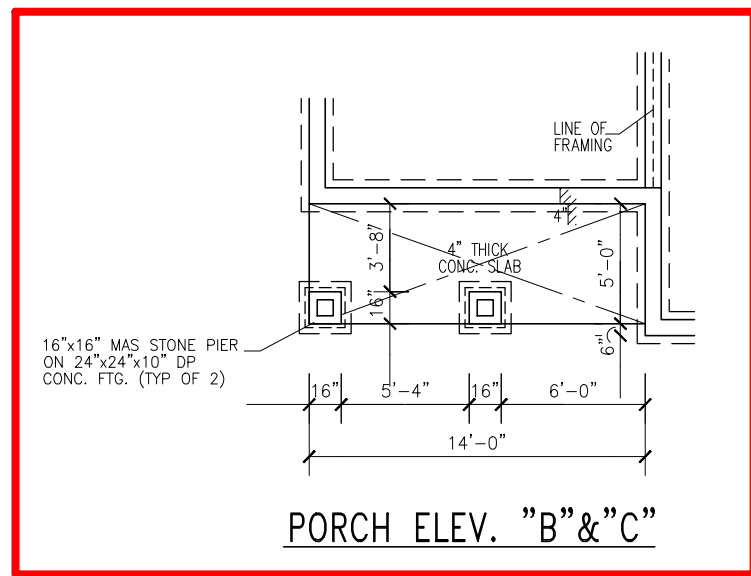
DRAWN  
 ADS

DATE  
 12/05/18

SHEET



Project Number: 1501-010208  
 \* Structural analysis based on NC Residential Building Code 2018  
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SCALE  
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 11"x17" = 1/8"=1'-0"

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Stem Wall Slab  
 Foundation

The Redwood  
 2-Car

DESIGN  
 ADS

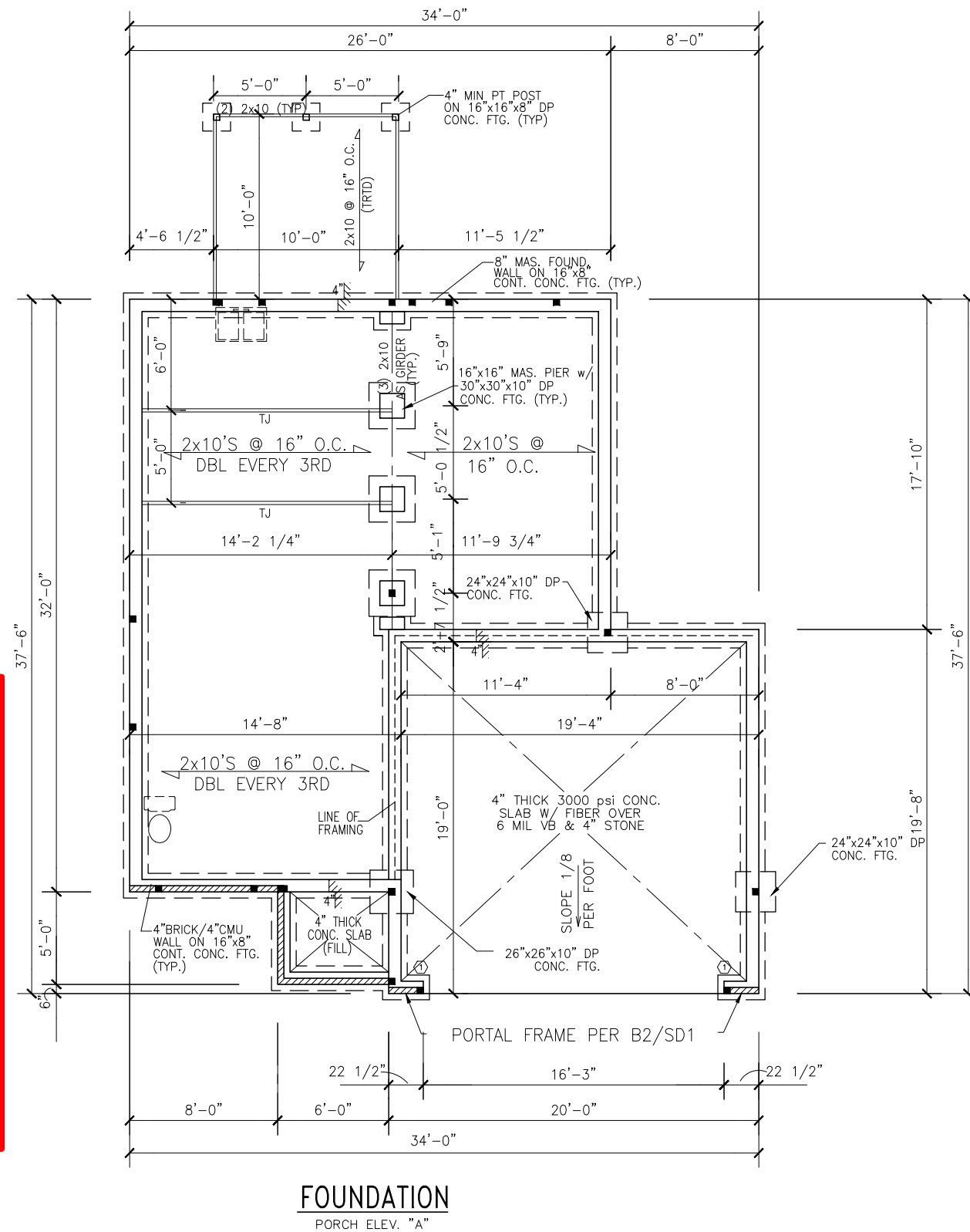
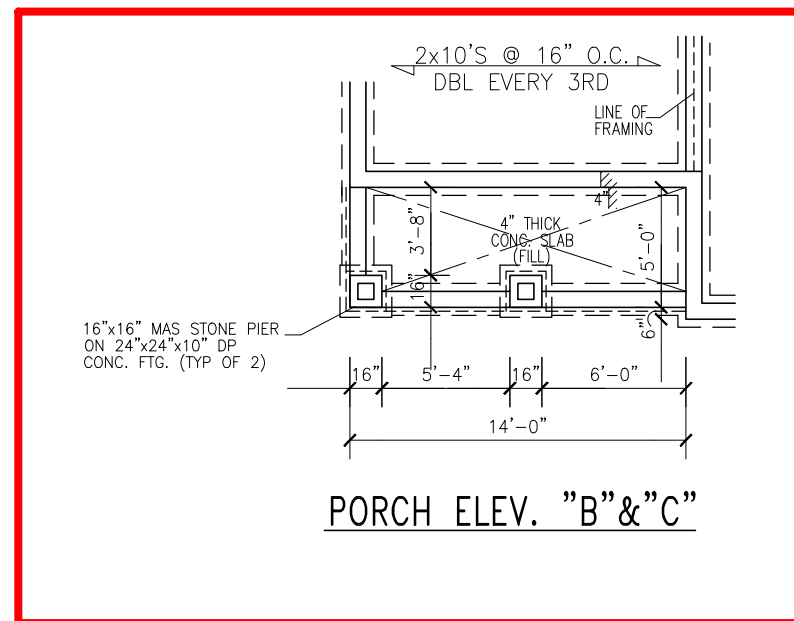
DRAWN  
 ADS

DATE  
 12/05/18

SHEET  
 2FS



Project Number: 1501-010208  
 \*Structural analysis based on NC Residential Building Code 2018  
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SCALE  
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 11"x17" = 1/8"=1'-0"

REVISIONS:  
 12/13/18

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 info@adamsandhodge.com  
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**A&H**

Crawlspace Foundation

The Redwood 2-Car

DESIGN ADS  
 DRAWN ADS  
 DATE 12/05/18  
 SHEET 2FS

DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
			L/360	L/240
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no storage)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

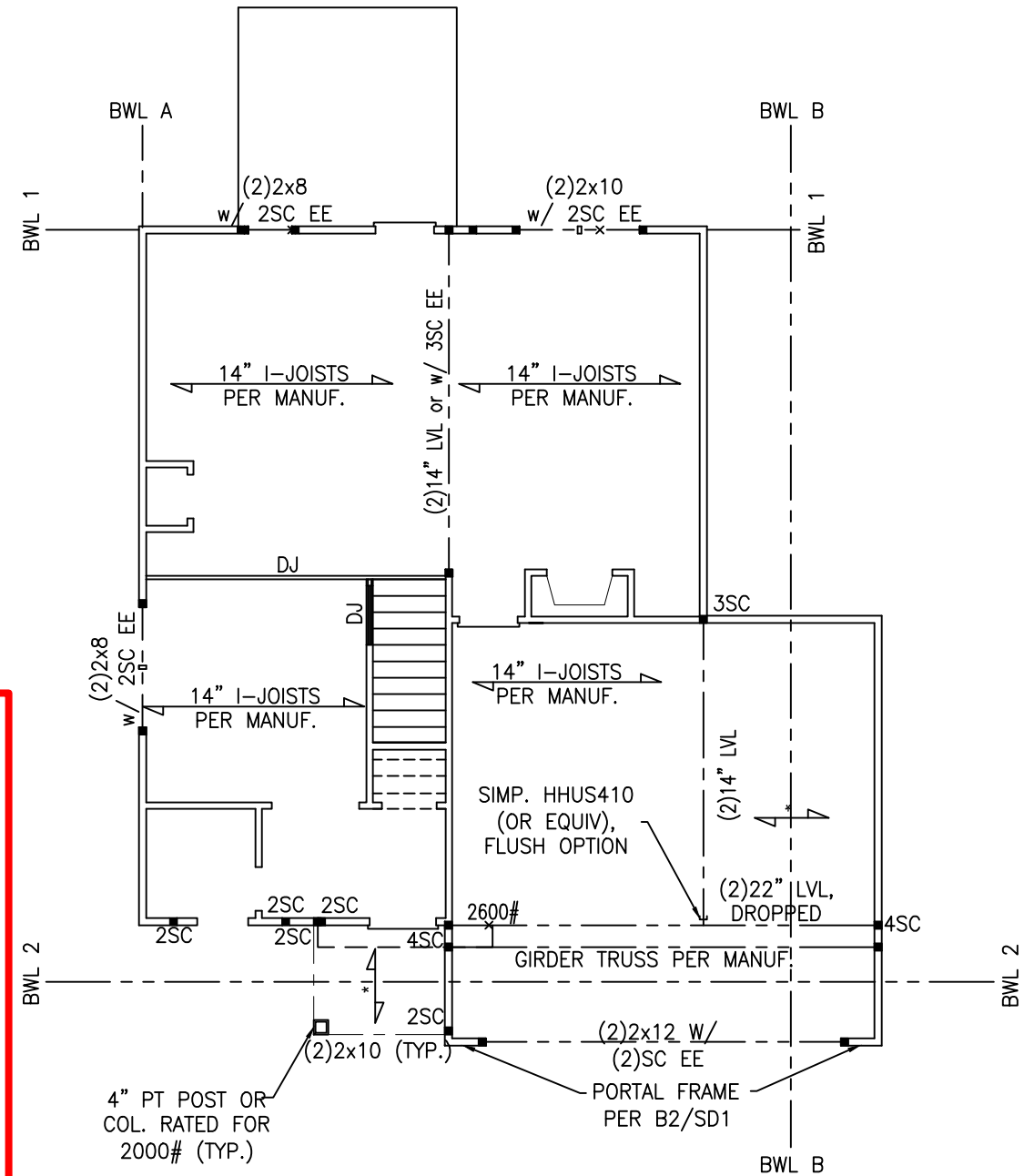
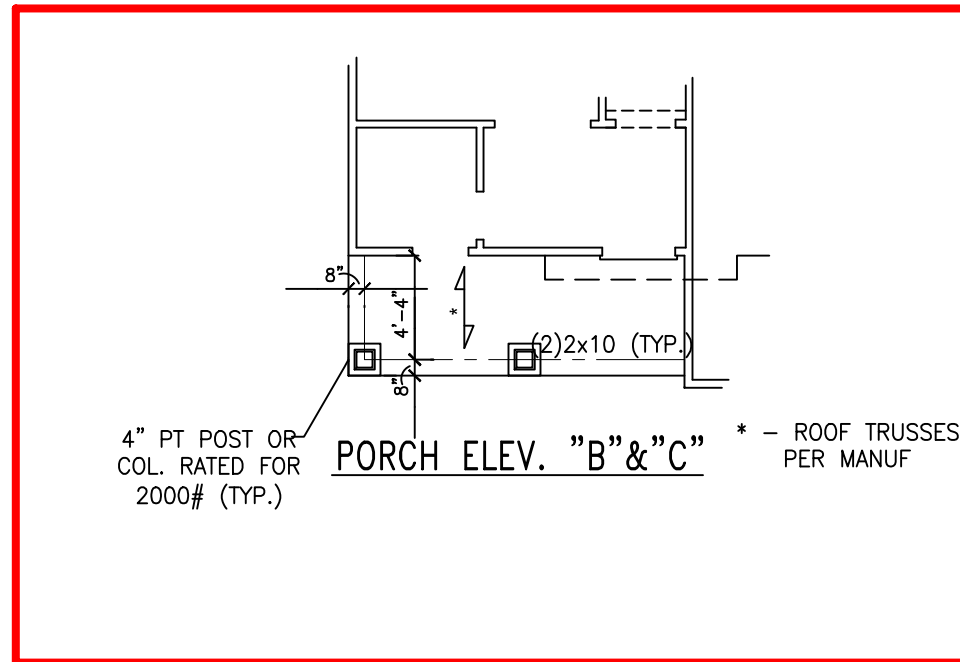
- 1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- 2) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- 3) ALL LUMBER SHALL BE SYP #2 (UNO)  
ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (I.E. LEVEL MICROLAM)  
ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
- 4) ALL LOAD BEARING EXTERIOR WINDOW HEADERS WITH MAXIMUM SPAN OF 5'-6" SHOULD BE A (2) 2x10 w/ (1) 2x4 KING STUD AND (1) 2x4 JACK STUD NAILED TOGETHER w/ (2) 10d @ 8" O.C. PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-6", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-0", OTHERWISE REFER TO TABLE R602.7(1).
- 5) ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLE R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- 6) REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- 7) ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 Fy = 50 KSI MIN. (UNO)
- 8) ALL EXTERIOR LUMBER TO BE #2 SYP PT
- 9) ALL CONCRETE, fc = 3000 PSI MIN.
- 10) PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 11) 1/2" ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- 12) PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- 13) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 14) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
- 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

BRACING PANEL LENGTHS REQUIRED:  
 BWL A = 8.0 FT  
 BWL B = 8.0 FT  
 BWL 1 = 8.9 FT  
 BWL 2 = 8.9 FT

BRACING PANEL LENGTHS PROVIDED:  
 BWL A = 28.5 FT CS-WSP  
 BWL B = 37.5 FT CS-WSP  
 BWL 1 = 15.5 FT CS-WSP  
 BWL 2 = 14.1 FT CS-WSP/PF



Project Number: 1501-010208  
 \* Structural analysis based on NC Residential Building Code 2018  
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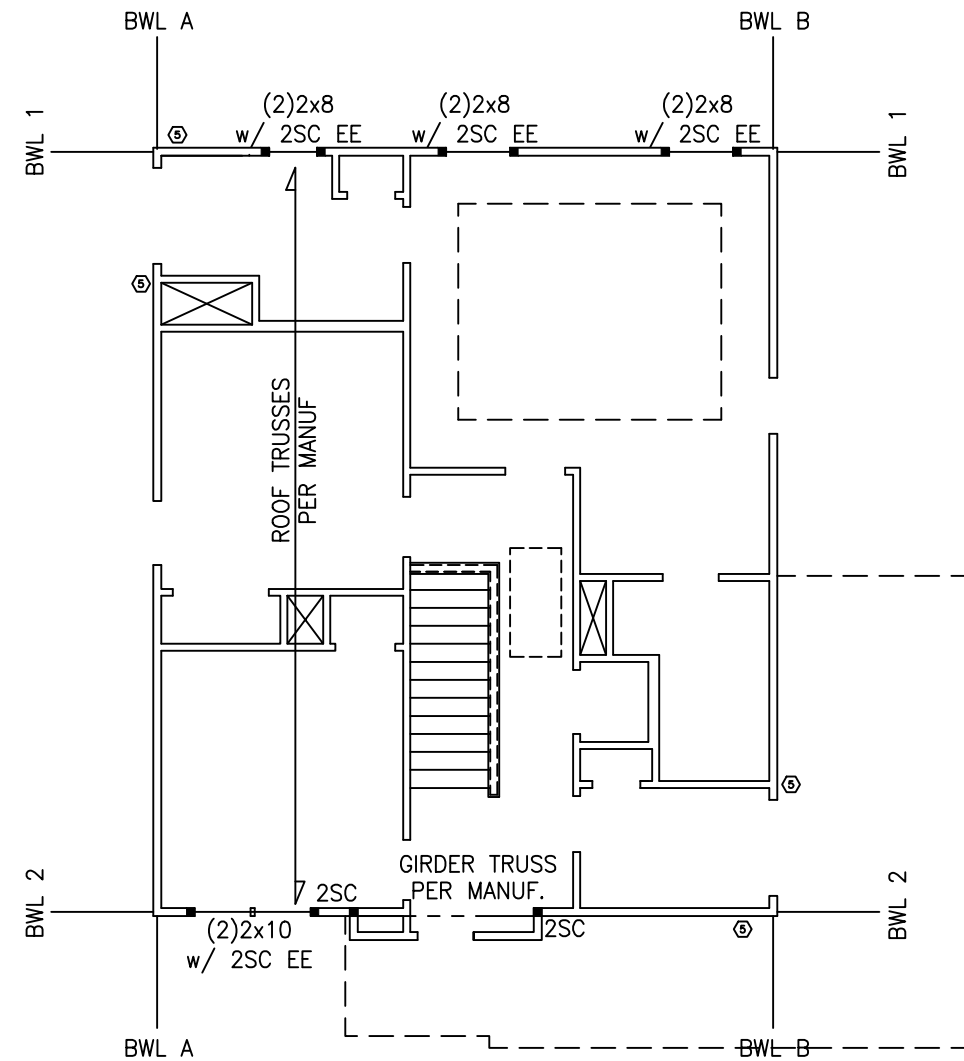


FIRST FLOOR STRUCTURAL PLAN



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\* Structural analysis based on NC Residential Building Code 2018  
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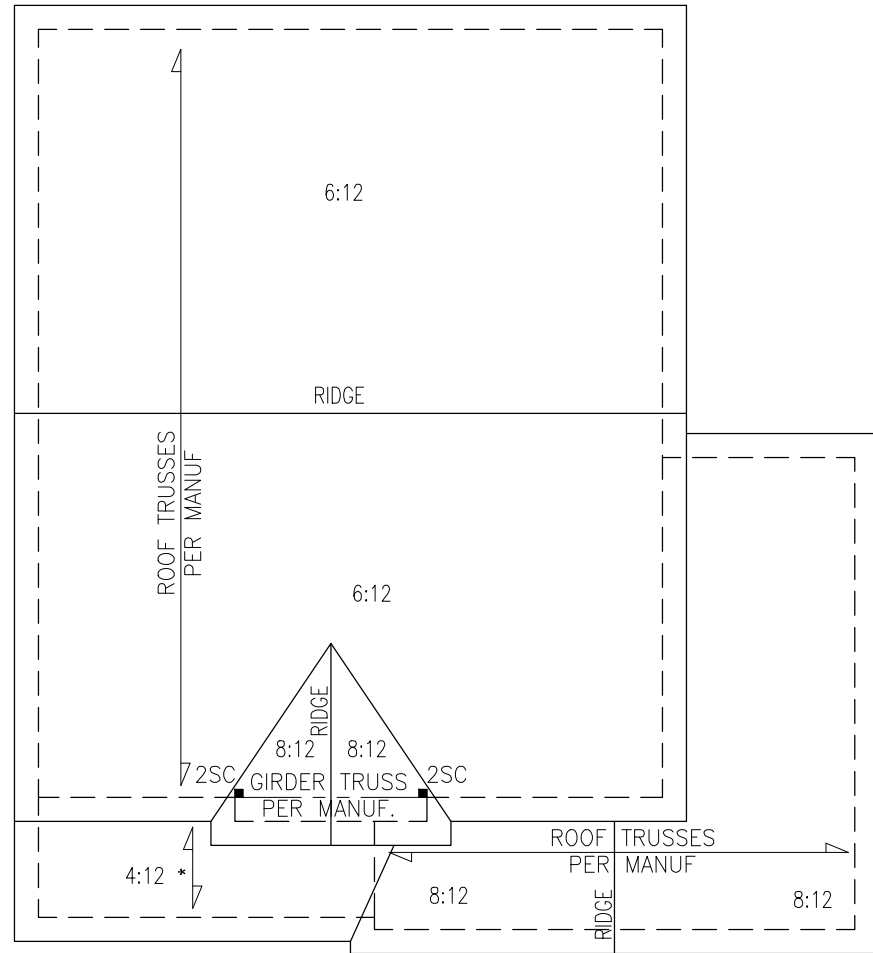
BRACING PANEL LENGTHS REQUIRED:  
BWL A = 2.8 FT  
BWL B = 2.8 FT  
BWL 1 = 3.3 FT  
BWL 2 = 3.3 FT  
BRACING PANEL LENGTHS PROVIDED:  
BWL A = 25.3 FT CS-WSP  
BWL B = 25.7 FT CS-WSP  
BWL 1 = 18.7 FT CS-WSP  
BWL 2 = 18.6 FT CS-WSP



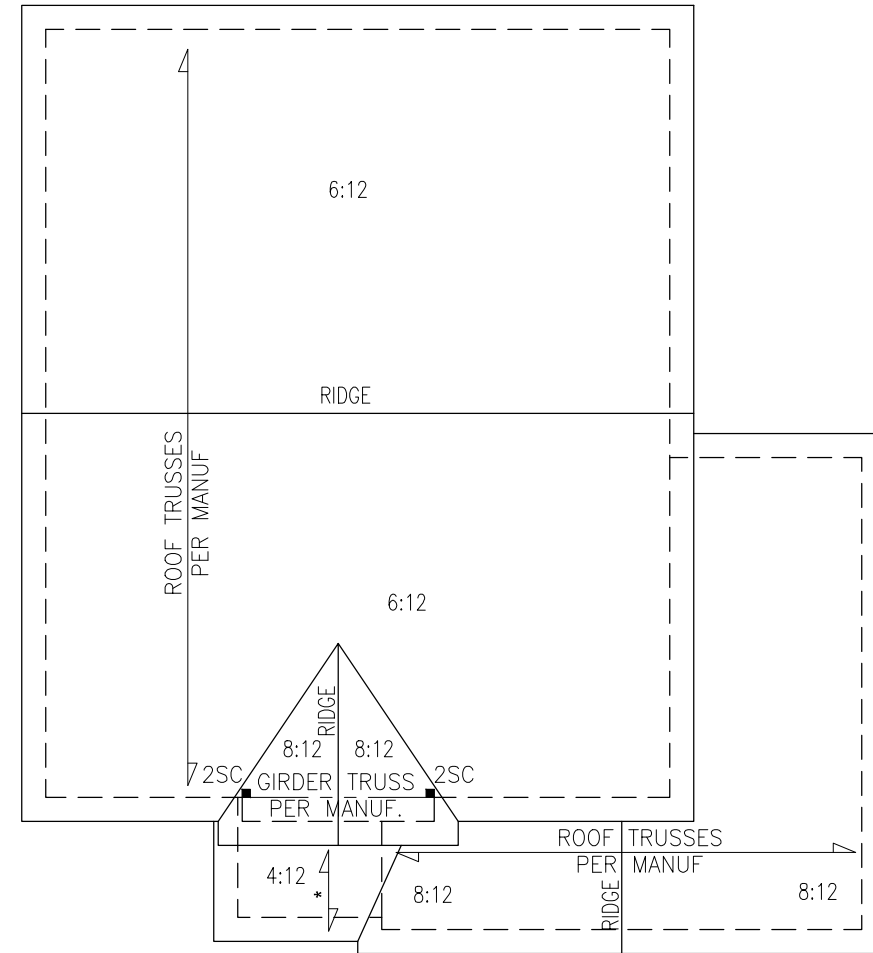
Ⓢ MINIMUM 800# HOLD-DOWN DEVICE

DELUXE SECOND FLOOR STRUCTURAL PLAN

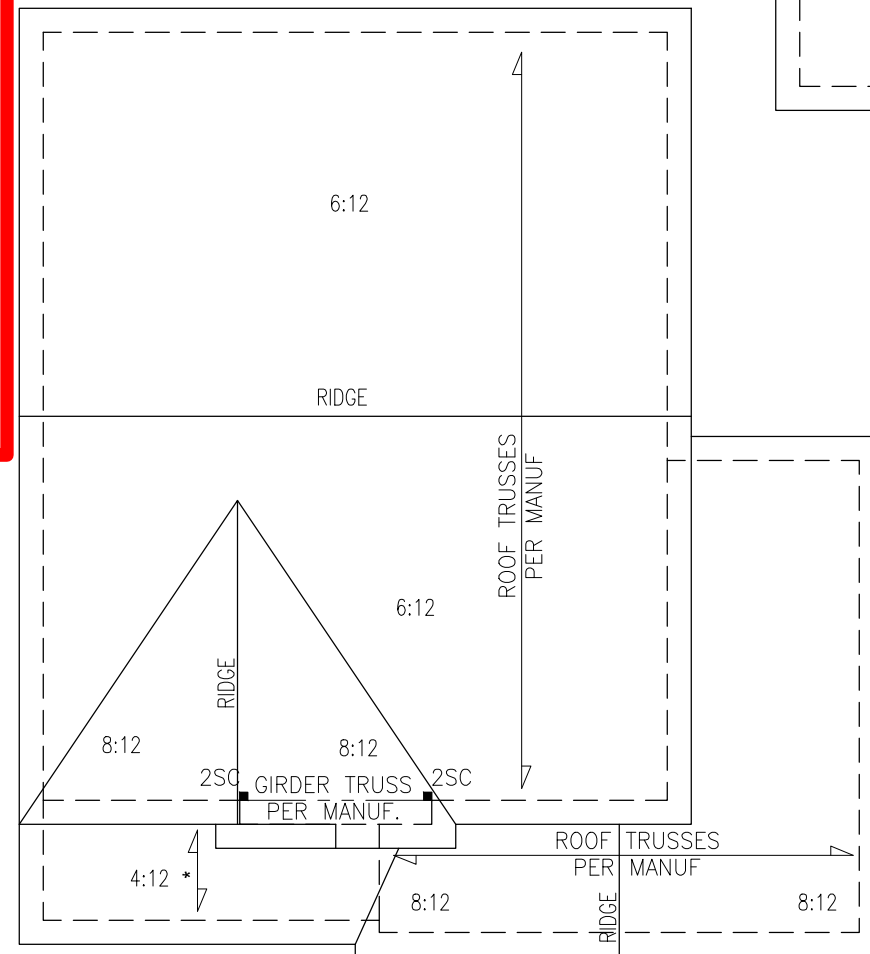
SCALE  
24"x36" = 1/4"=1'-0"  
11"x17" = 1/8"=1'-0"



ROOF FRAMING PLAN "B"



ROOF FRAMING PLAN "A"



ROOF FRAMING PLAN "C"

\* - ROOF TRUSSES PER MANUF

SCALE	
24"X36"	= 1/4"=1'-0"
11"X17"	= 1/8"=1'-0"



Project Number: 1501-010208  
 \* Structural analysis based on NC Residential Building Code 2018  
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 info@adams-hodge.com  
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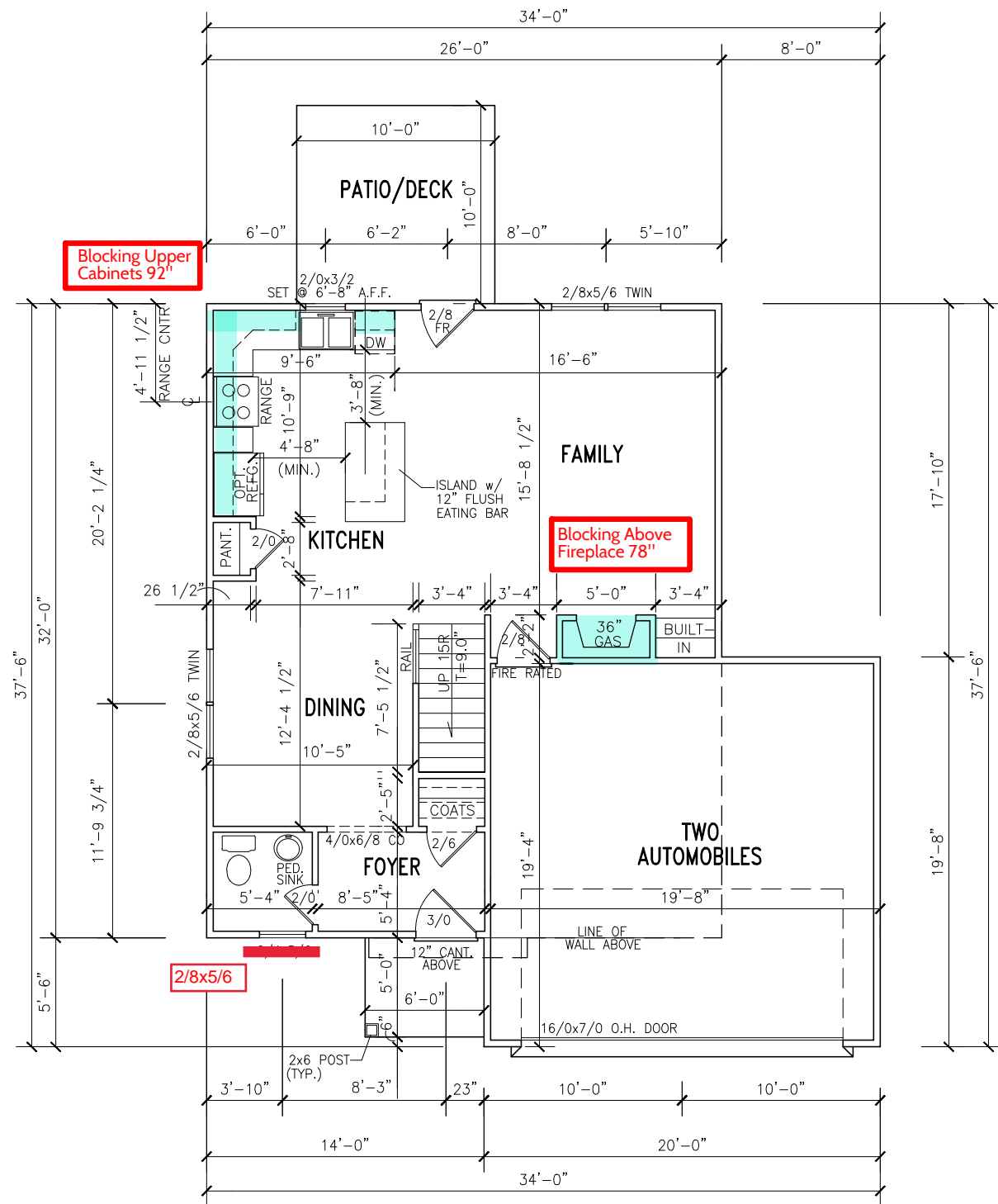
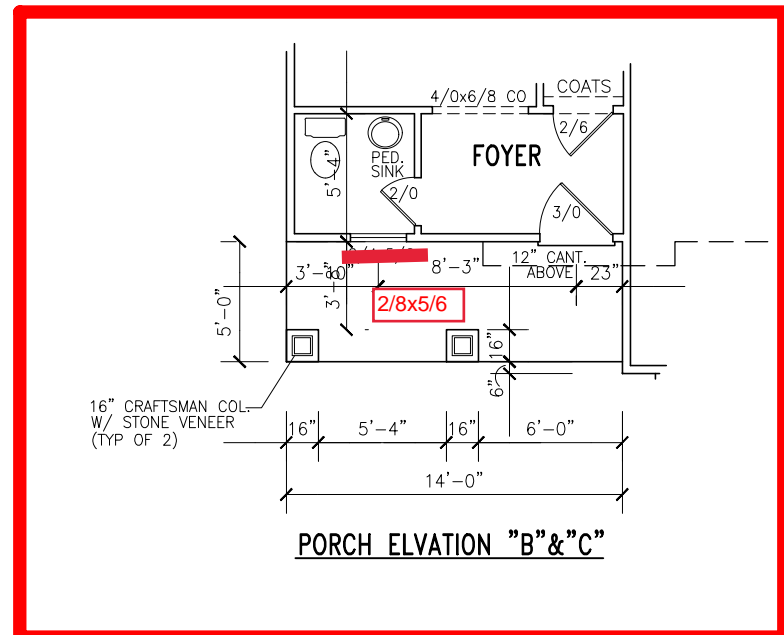
ADAMS & HODGE  
 ENGINEERING, P.C.



Roof Framing Plan

The Redwood 2-Car

DESIGN ADS  
 DRAWN ADS  
 DATE 12/05/18  
 SHEET



SQUARE FOOTAGE	
FLOOR HTD.	664
FLOOR HTD.	809
FLOOR HTD.	1473
GARAGE	384
PATIO	100
ELV "A" PORCH	30
ELV "B" PORCH	70
ELV "C" PORCH	70

- 1ST FLOOR PLAN NOTES:**
- 9'-0" CLG. HGT. (9'-1 1/2" PLT. HGT.) UNLESS OTHERWISE NOTED.
  - ALL EXTERIOR WALLS FIGURED AT 4" NOMINAL WIDTHS UNLESS OTHERWISE NOTED.
  - ALL INTERIOR WALLS FIGURED AT 3 1/2" WIDTHS UNLESS OTHERWISE NOTED.
  - SET WINDOWS AT 7'-8" A.F.F. UNLESS OTHERWISE NOTED.
  - DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.

SCALE	
24"x36"	= 1/4"=1'-0"
11"x17"	= 1/8"=1'-0"

REVISIONS:

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info@adamsandhodge.com  
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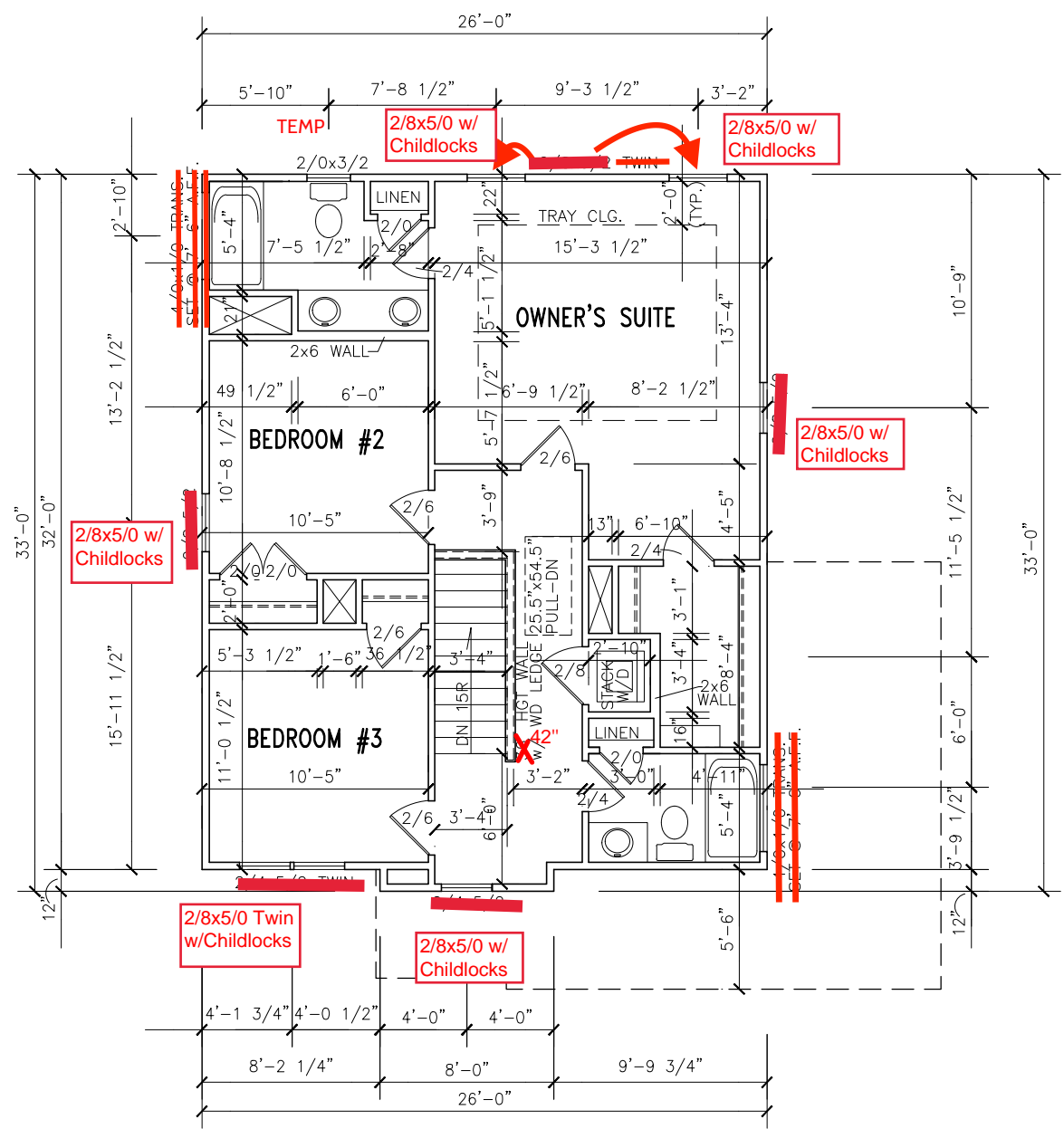
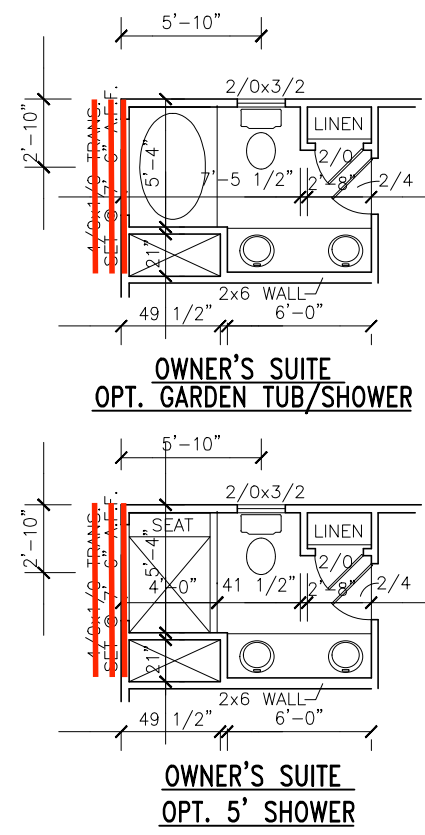
**ADAMS & HODGE**  
ENGINEERING, P.C.

**First Floor Plan**

**The Redwood 2-Car**

DESIGN: ADS  
DRAWN: ADS  
DATE: 12/05/18  
SHEET: 6





- 2ND FLOOR PLAN NOTES:
- 1) 8'-0" CLG. HGT. (8'-1 1/2" PLT. HGT.) UNLESS OTHERWISE NOTED.
  - 2) ALL EXTERIOR WALLS FIGURED AT 4" NOMINAL WIDTHS UNLESS OTHERWISE NOTED.
  - 3) ALL INTERIOR WALLS FIGURED AT 3 1/2" WIDTHS UNLESS OTHERWISE NOTED.
  - 4) SET WINDOWS AT 6'-8" A.F.F. UNLESS OTHERWISE NOTED.
  - 5) DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.

SCALE  
 24"x36" = 1/4"=1'-0"  
 11"x17" = 1/8"=1'-0"

DELUXE SECOND FLOOR PLAN

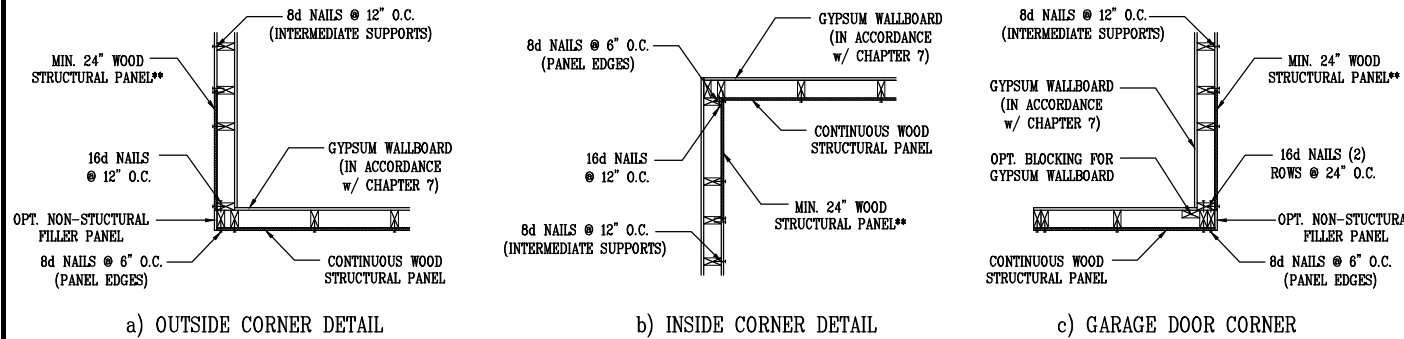
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 919.243.1333  
 FIRM# C-4187



Deluxe Second Floor Plan

The Redwood 2-Car

DESIGN ADS  
 DRAWN ADS  
 DATE 12/05/18  
 SHEET 7A



\*\* IN LIEU OF THE 24" (MIN.) CORNER RETURN, A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.

**B1: TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING**  
 NO SCALE

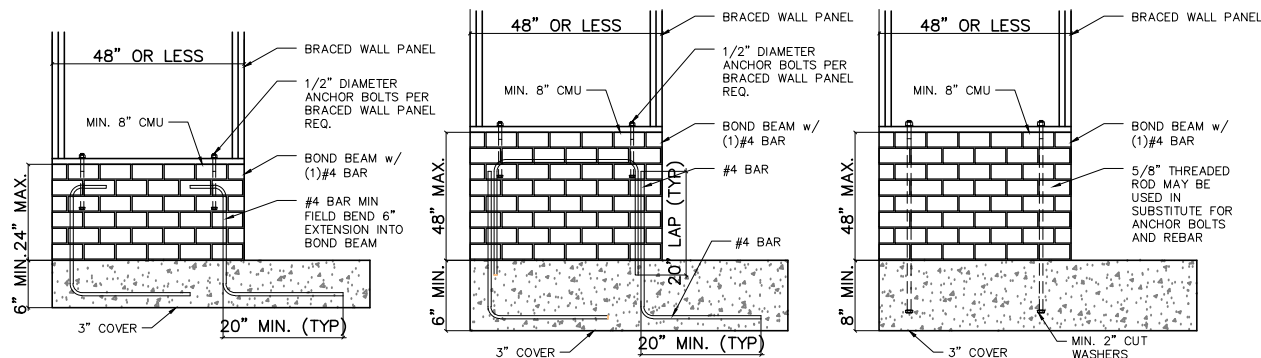
**STRUCTURAL SHEATHING NOTES**

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NRC.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
  - REFERENCE FIGURE R602.10.4.3 OF THE 2018 NRC.
- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
  - 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
  - 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS.
- MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS:
  - 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT
  - 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT.
  - 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
- SHEATH INTERIOR & EXTERIOR
- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3(4), IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.
  - MINIMUM 800# HOLD-DOWN DEVICE

REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			@ PANEL EDGES	@ INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL** @ 7" O.C.	5d COOLER NAIL** @ 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.

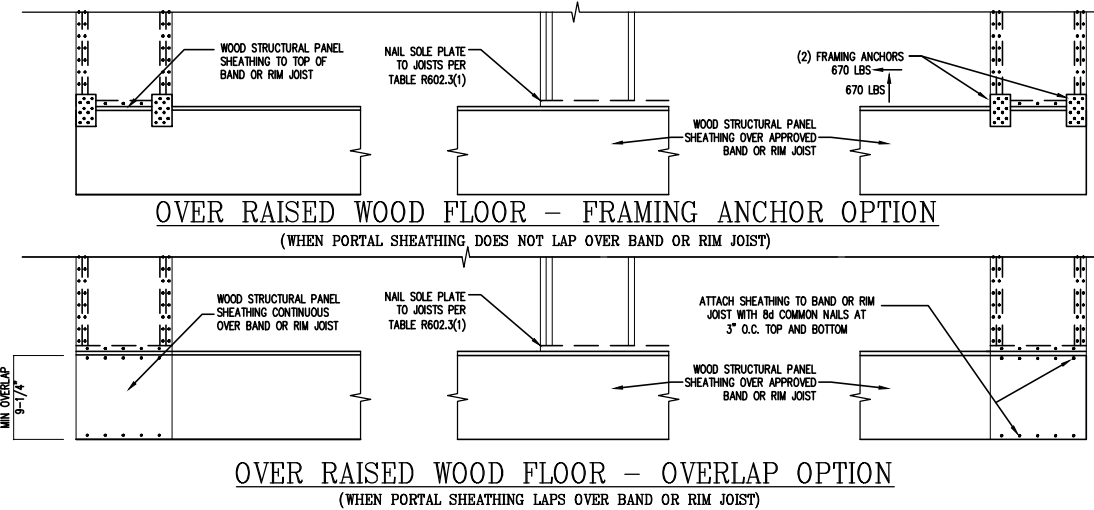
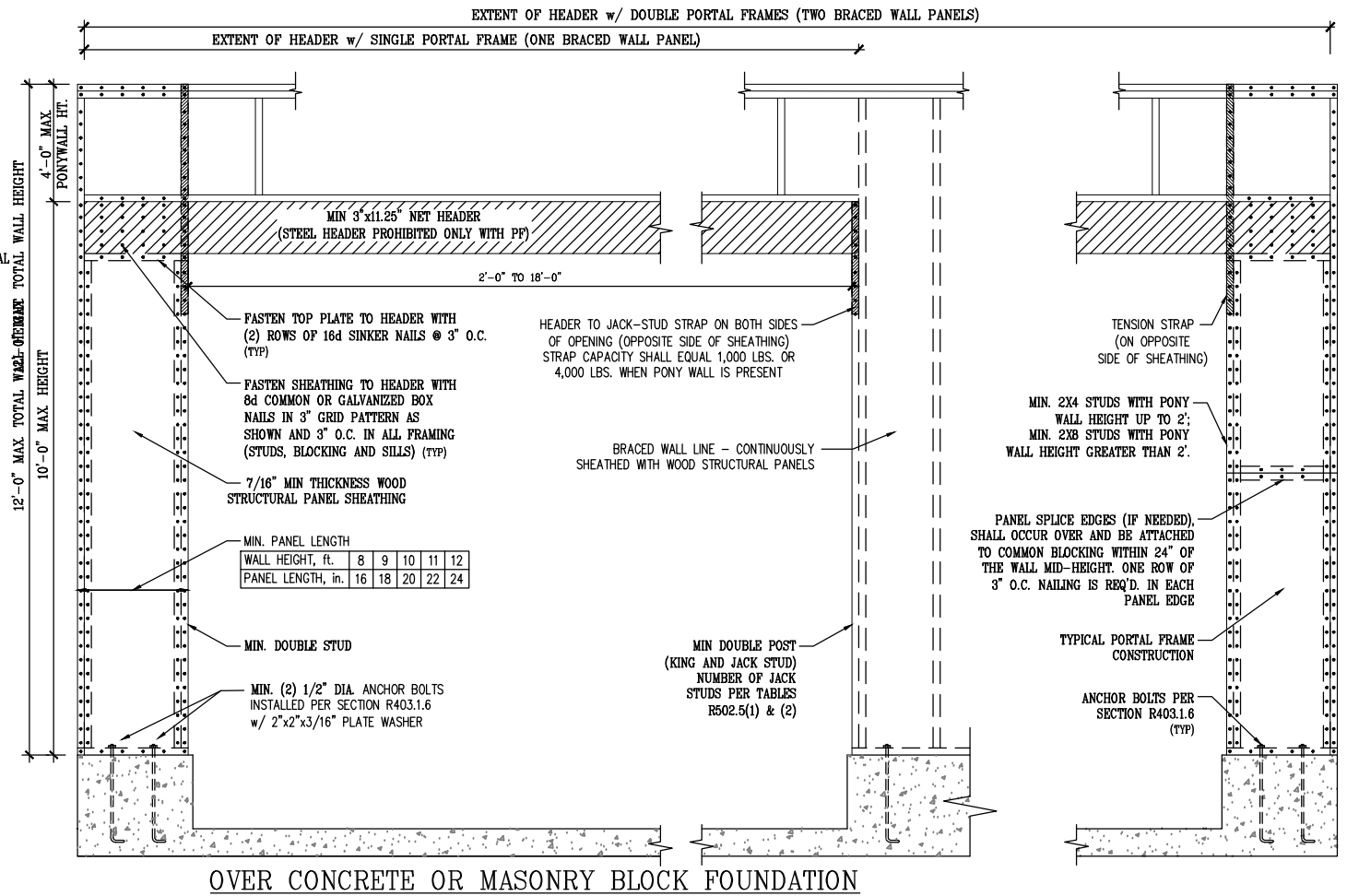
\*\*OR EQUIVALENT PER TABLE R702.3.5

**B3: BRACE WALL PANEL CONNECTIONS**



**B5: MASONRY STEM WALL SUPPORTING BRACED WALL PANELS**

FIGURE R602.10.9 OF THE IRC  
 NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS



**B2: METHOD CS-PF: CONTINUOUSLY SHEATHED PORTAL FRAME**

FIGURE R602.10.1



Project Number: 1501-010208  
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SCALE	
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11"x17"	= 1/8"=1'-0"

**REVISIONS:**

314 EAST MAIN STREET  
 CLAYTON, NC 27520  
 info@adamsandhodge.com  
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**BRACING DETAILS**

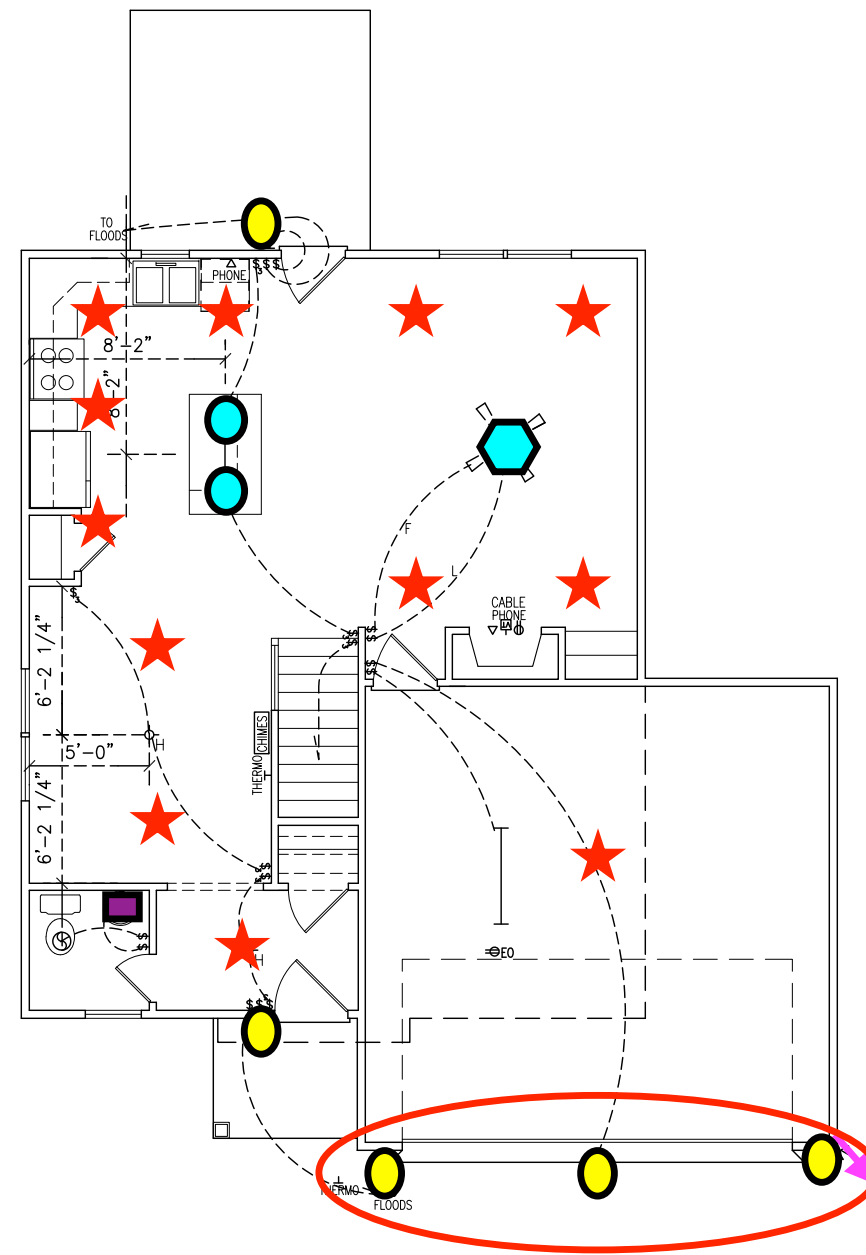
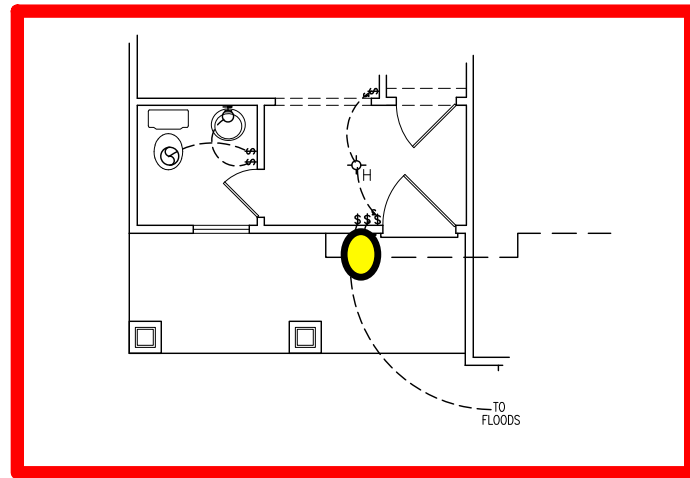
**The Redwood 2-Car**

DESIGN	ADS
DRAWN	ADS
DATE	12/05/18
SHEET	SD1

ELECTRICAL SYMBOLS			
	CEILING MOUNTED LIGHT FIXTURE		SINGLE RECEPTACLE OUTLET
	DIRECTIONAL CLG. LIGHT FIXTURE		DUPLEX RECEPTACLE OUTLET
	RECESSED LIGHT FIXTURE		QUADRUPLEX RECEPTACLE OUTLET
	WALL MOUNTED LIGHT FIXTURE		FLOOR OUTLET
	EXTERIOR FLOOD LIGHT		DUPLEX RECEPTACLE OUTLET SPLIT USED
	TRACK LIGHT FIXTURE		220 VOLT OUTLET
	CHIMES		WATER PROOF OUTLET
	SINGLE POLE WALL SWITCH		TELEPHONE OUTLET
	3-WAY POLE WALL SWITCH		TV OUTLET
	FOUR-WAY SWITCH		GROUND FAULT INTERCEPTOR
	GROUND FAULT INTERCEPTOR		RECESSED LIGHT FIXTURE ANGLE CUT
	WATER PROOF SWITCH		PULL CHAIN LIGHT FIXTURE
	DIMMER SWITCH		FLUORESCENT LIGHT BOX
	TIMER SWITCH		CEILING FAN
	FLUORESCENT LIGHT		EXHAUST FAN
	ELECTRICAL OUTLET GARAGE DOOR OPENER		SMOKE DETECTOR
	HANGING LIGHT FIXTURE		EXHAUST FAN/LIGHT
	CEILING FAN/LIGHT		SHOWER LIGHT

NOTE:  
 (1) ALL RECEPTACLE PLACEMENT TO CODE.  
 (2) PLEASE NOTE RECEPTACLE PLACEMENT PER BUILDER.

- Disk Light
- Vanity Wall Fixture
- Ceiling Fan
- Flush Mount
- Pendant Light
- Flood Lights
- Exterior Wall Mount
- 



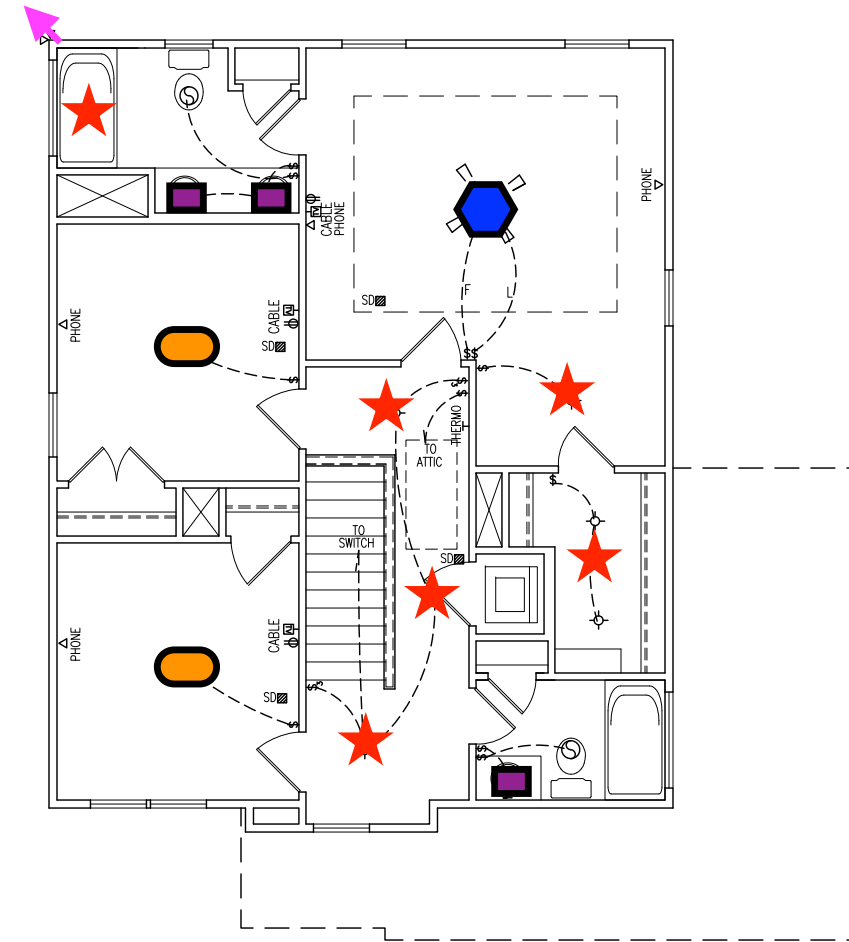
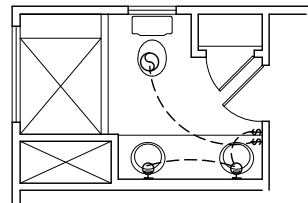
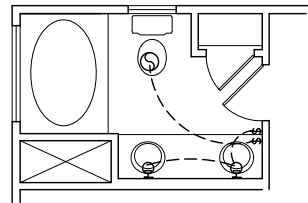
**1 Over Garage**  
 OR  
~~2 on Sides~~

**ELECTRICAL SYMBOLS**

	CEILING MOUNTED LIGHT FIXTURE		SINGLE RECEPTACLE OUTLET
	DIRECTIONAL CLG. LIGHT FIXTURE		DUPLEX RECEPTACLE OUTLET
	RECESSED LIGHT FIXTURE		QUADRUPLIX RECEPTACLE OUTLET
	WALL MOUNTED LIGHT FIXTURE		FLOOR OUTLET
	EXTERIOR FLOOD LIGHT		DUPLEX RECEPTACLE OUTLET SPLIT USED
	TRACK LIGHT FIXTURE		220 VOLT OUTLET
	CHIMES		WATER PROOF OUTLET
	SINGLE POLE WALL SWITCH		TELEPHONE OUTLET
	3-WAY POLE WALL SWITCH		TV OUTLET
	FOUR-WAY SWITCH		GROUND FAULT INTERCEPTOR
	GROUND FAULT INTERCEPTOR		RECESSED LIGHT FIXTURE ANGLE CUT
	WATER PROOF SWITCH		PULL CHAIN LIGHT FIXTURE
	DIMMER SWITCH		FLUORESCENT LIGHT BOX
	TIMER SWITCH		CEILING FAN
	FLUORESCENT LIGHT		EXHAUST FAN
	ELECTRICAL OUTLET GARAGE DOOR OPENER		SMOKE DETECTOR
	HANGING LIGHT FIXTURE		EXHAUST FAN/LIGHT
	CEILING FAN/LIGHT		SHOWER LIGHT

NOTE:  
 (1) ALL RECEPTACLE PLACEMENT TO CODE.  
 (2) PLEASE NOTE RECEPTACLE PLACEMENT PER BUILDER.

- Disk Light
- Vanity Wall Fixture
- Ceiling Fan
- Flush Mount
- Pendant Light
- Flood Lights
- Exterior Wall Mount
- Ceiling Fan Pre-Wire



REVISIONS:

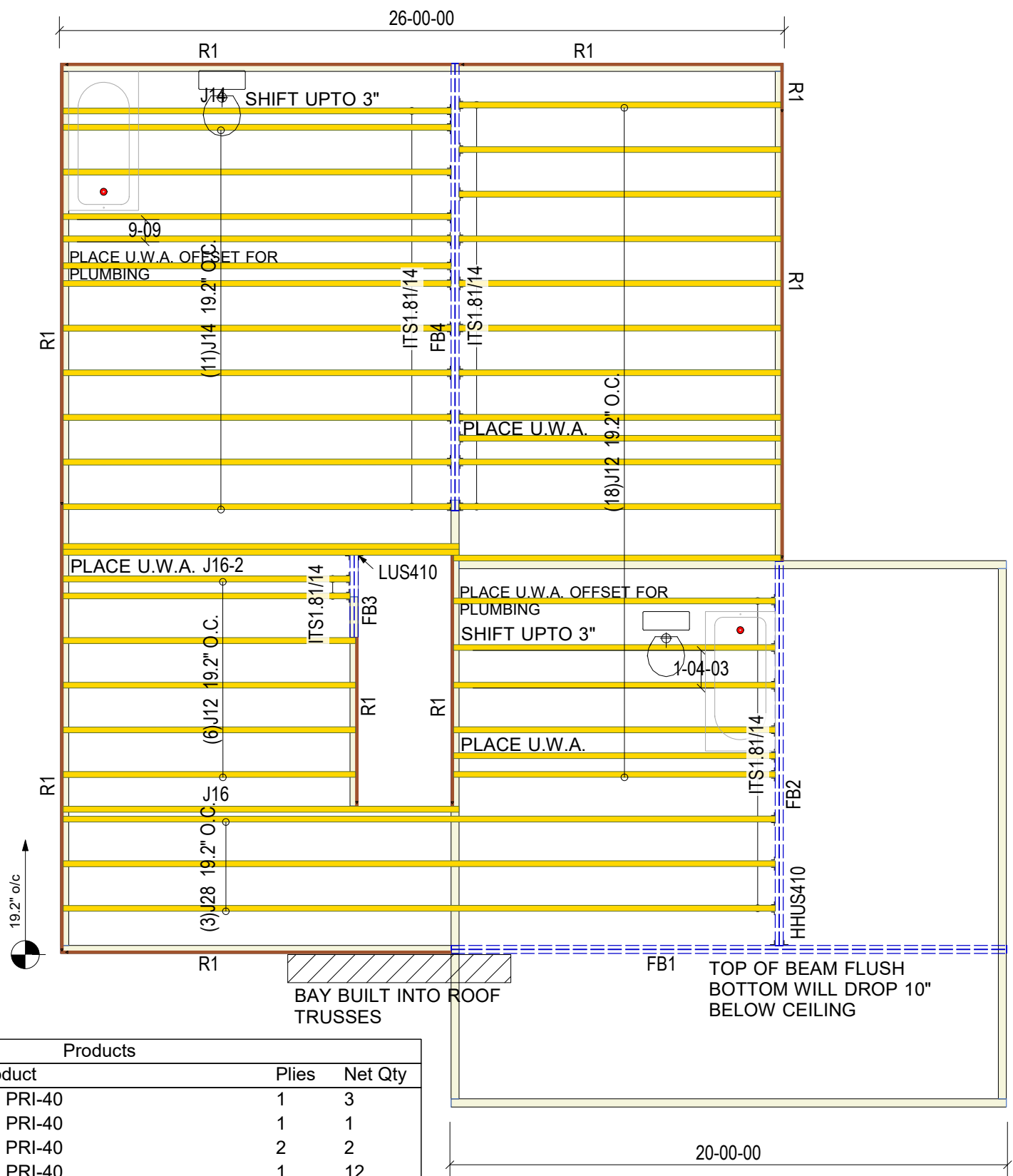
314 EAST MAIN STREET  
 CLAYTON, NC 27520  
 info@adamsandhodge.com  
 919-243-1332  
 FIRM # C-4187



Deluxe Second  
 Electrical Plan

The Redwood  
 2-Car

DESIGN	ADS
DRAWN	ADS
DATE	12/05/18
SHEET	



Products				
PlotID	Length	Product	Plies	Net Qty
J28	28-00-00	14" PRI-40	1	3
J16	16-00-00	14" PRI-40	1	1
J16-2	16-00-00	14" PRI-40	2	2
J14	14-00-00	14" PRI-40	1	12
J12	12-00-00	14" PRI-40	1	24
FB4	17-00-00	1 3/4" x 14" 2.0E Microllam® LVL	2	2
FB2	14-00-00	1 3/4" x 14" 2.0E Microllam® LVL	2	2
FB3	3-00-00	1 3/4" x 14" 2.0E Microllam® LVL	2	2
FB1	20-00-00	1 3/4" x 24" 2.0E Microllam® LVL	2	2
R1	16-00-00	1 1/8" x 14" TJ® Rim Board	1	7

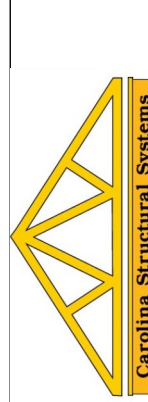
Connector Summary		
Qty	Manuf	Product
1	Simpson	HHUS410
34	Simpson	ITS1.81/14
1	Simpson	LUS410

**THIS IS A TRUSS PLACEMENT DIAGRAM ONLY**

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

**SHOP DRAWING APPROVAL**

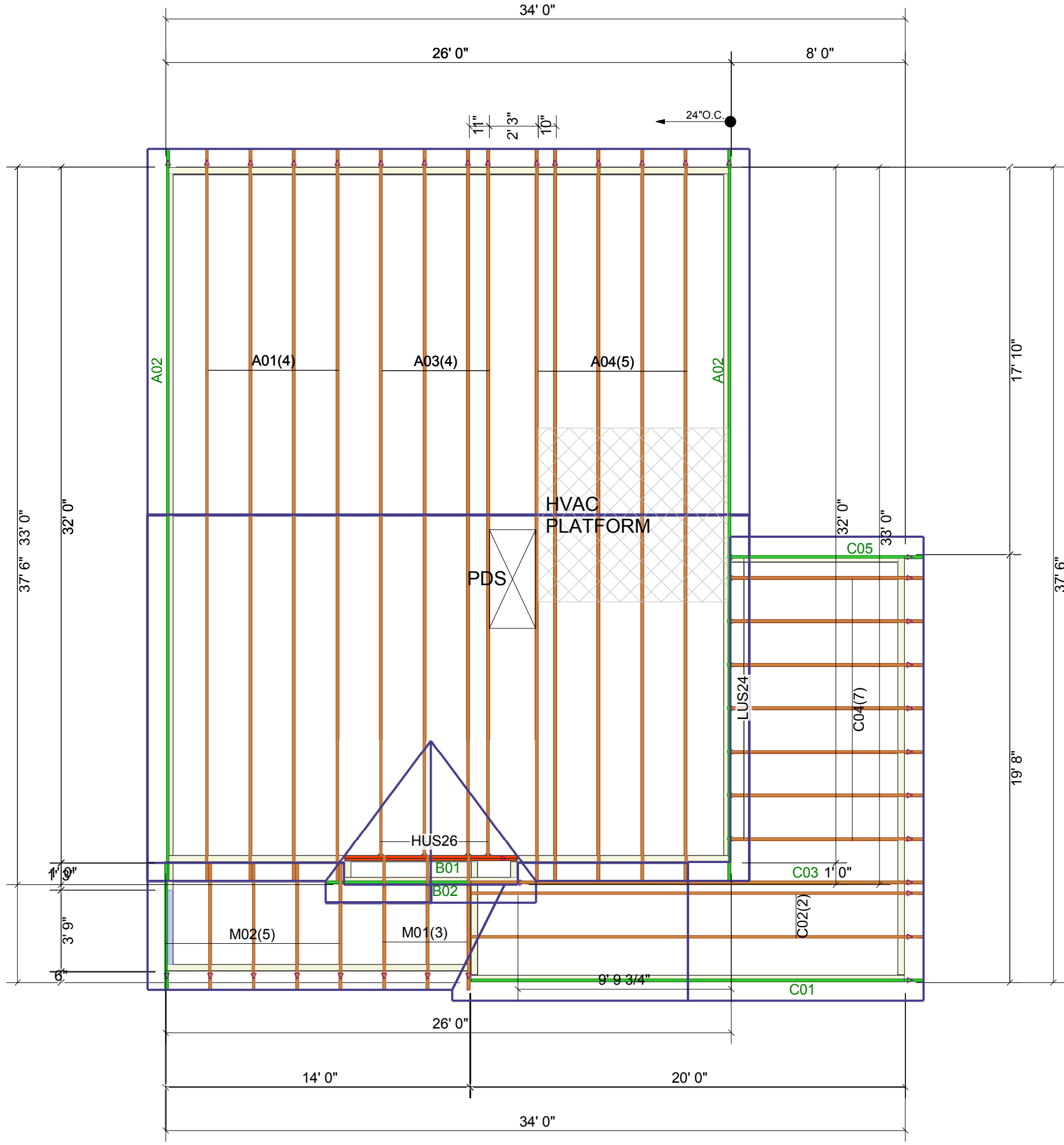
THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.



Carolina Structural Systems  
 Roof Trusses • Floor Trusses • EWP  
 Carolina Structural Systems  
 P.O. Box 157, Ether, NC 27247  
 225 Frame Shop Rd., Star, NC 27356  
 910-491-9004

Job #: 1270047	Plan: REDWOOD 2 CAR	APPROVED BY:	DATE:
Customer: ONE27 HOMES	Date: 8/29/2023	REVIEWED BY:	
Site Address:	Sales Rep: RW		
City, ST, ZIP:	Designer: YS		
<b>FLOOR DATA</b>			
	Floor Area: 827.21 SF		

Truss Connector Total List		
Qty	Product	Manuf
4	HUS26	Simpson
9	LUS24	Simpson



**THIS IS A TRUSS PLACEMENT DIAGRAM ONLY**

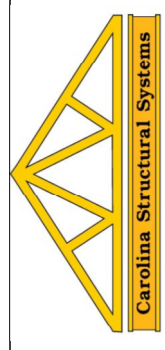
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REVIEWED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Job #: 127005	Plan: REDWOOD 2CAR ELEV B LAYOUT RIGHT
Customer: ONE27 HOMES	Date: 8/28/2020
Site Address:	Sales Rep: RW
City, ST, ZIP:	Designer: RW



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