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Builder: Raiphael Locklear Date: 03/02/2020

Designer: Adam T Frazier Date: 03/02/2020

Owner: Chad Fu Date: 03/02/2020

Owner: _____ Date: _____

Super: _____ Date: _____

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

04/14/2020

Harnett COUNTY NORTH CAROLINA

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Hope Mills NC
28348 Suite 16
Office Phone:
1 910 824 7505

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Project: Furne Residence

MODEL: SEGC-3027

BUILDER: Southeastern General Contractors

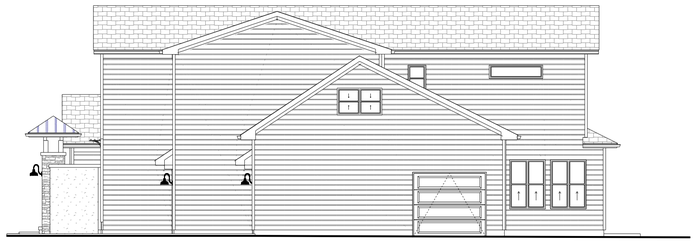
DATE PRINTED: Mar 2020

DRAWN BY: ATF

SHEET

Front Elevation
Scale: 1/4" = 1'0"

Left Elevation
Scale: 1/8" = 1'0"



Right Elevation
Scale: 1/8" = 1'0"

Rear Elevation
Scale: 1/4" = 1'0"

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Builder: Ralphael Locklear Date: 03/02/2020

Designer: Adam T Frazier Date: 03/02/2020

Owner: Chad Fume Date: 03/02/2020

Owner: _____ Date: _____

Super: _____ Date: _____

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Project: Fume Residence

MODEL: SEGC-3027

BUILDER: Southeastern General Contractors

DATE PRINTED: Mar 2020

DRAWN BY: ATF

Elevations

SHEET 1

Plans Designed to the 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

CLIMATE ZONE	ZONE 3	ZONE 4	ZONE 5
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.65	0.65	0.60
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
CEILING R-VALUE	30	38	38
WALL R-VALUE	13	15	19
FLOOR R-VALUE	19	19	30
*BASEMENT WALL R-VALUE	10/13	10/13	10/13
**SLAB R-VALUE	0	0	10
* CRAWLSPACE WALL R-VALUE	5/13	10/13	10/13

* "10/13" Means R-10 Sheathing Insulation or R-13 Cavity Insulation
** Insulation Depth with Monolithic Slab 18" or From Inspection Gap to bottom of Footing; Insulation Depth with Stem Wall Slab 24" or to bottom of Foundation Wall

DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"

DESIGN PRESSURES FOR DOORS AND WINDOWS POSITIVE AND NEGATIVE IN PSF			
	MEAN ROOF HEIGHT (FT)		
VELOCITY (MPH)	15	25	35
115	15	17	19
120	20	23	25
130	25	29	32

ASSUMED MEAN ROOF HEIGHT 22'2"

Roof Truss Requirements

TRUSS DESIGN.
Trusses, if used, to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Frazier Designs attention before contruction begins.

KNEE WALL AND CEILING HEIGHTS.
All Finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meetor exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Frazier Designs Attention, so that a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the responsibility of the truss manufacturer.

ANCHORAGE.
All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.

Bearing.
All trusses shall be designed for bearing on SPF # 2 Plates or Ledgers unless noted otherwise.

Plate Heights and Floor Systems.
See Elevation page(s) for plate heights and floor system thicknesses.

ROOF VENTILATION

Section R806

R806.1 Ventilation required.
Enclosed Attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of the roof rafters shall have a a cross ventilation for each seperate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shallhave a least dimesion of 1/16 inch (1.6mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4" inch (6.4mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 insh(1.6mm) minimum and 1/4 inch (6.4mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.

R806.2 Minimum Area.
The Total net free ventilating area shall not be less than 1/150 of thearea of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space th be ventilated at least 3 feet (914mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area my be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.

Exceptions:
1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only.
2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuoussoffit vent only.

Square footage of roof to be vented = N/A
Net-Free Cross Ventilation Needed:
Without 50% to 80% of Venting 3'0" above Eave= N/A
With 50% to 80% of Venting 3'0" above eave; or with Class I or II Vapor Retarder on Warm-In-Winter Side of Ceiling: N/A

STRUCTURAL NOTES

All construction shall conform t the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supercede the code.

Job Site Practices And Safety:
Frazier Designs assumes no liability for contractors practices and procedures or safety program. Frazier Designs takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed,anchored, and braced in accordance with good construction practice and the building code.

Design Loads

USE	Live Load (PSF)	Dead Load (PSF)	Deflection (LL)
Attics without storage	10	10	L/240
Attics with Limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and Decks	40	10	L/360
Fire Escapes	40	10	L/360
Guardrails and Handrails	200	--	--
Guardrail in-fill conponents	50	--	--
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40	--	L/360
Snow	20	--	--

Framing Lumber:
All non treated framing lumber shall be SPF # 2 (Fb=875 PSI) or SYP # 2 (Fb= 750 PSI) and all treated lumber shall be SYP # 2 (Fb= 750 PSI) unless noted otherwise.

Engineered Wood Beams:
Laminated veneer lumber (LVL) = Fb= 2600 PSI, Fv=285 PSI, E=1.9x106 PSI
Parallel strand lumber (PSL) = Fb= 2900 PSI, Fv= 290 PSI, E= 2.0x106 PSI
Laminated Strand Lumber (LSL) = Fb= 2250 PSI, Fv= 400 PSI, E = 1.55 x 106 PSI
Install All connections per Manufacturers Instructions

Truss And I -Joist Members:
All Roof Truss and I-Joist Layouts shall be prepared in accordance with this document. Trusses and I-Joists shall be Installed according to the Manufacturers specifications. Any Change in Truss or I-Joist Layout shall be cooridinated with Frazier Designs.

Lintels:
Brick Lintels Shall be 3 1/2" x 3 1/2" x 1/4" Steel angle for up to 6'0" Span and 6" x 4" x 5/16" Steel angle with 6" leg vertical for spans up to 9'0" unless noted otherwise.

Concrete and Soils:
See Foundation Notes.

Foundation Structural Notes

120 MPH wind zone (1 1/2 to 2 1/2 story)

Continuous Footing:
16" wide and 8" thick minimum. 20" wide minimum at brick veneer. Must extended 2" to either side of supported wall.

Girders:
(2) 2x8 girder unless noted otherwise.

Piers:
8" x 16" piers with 8" solid masonry cap on 16" x 24" x 8" concrete footing with maximum pier height of 64" with hollow masonry and 160" with solid masonry unless otherwise noted.

Point Loads:
designates significant point load and should have solid blocking to pier, girder or foundation wall.

Anchor Bolts:
1/2" diameter anchor bolts embedded minimum 7" maximum 6'0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

Concrete:
Concrete shall hae a minimum 28 day strength of 3000 psi and maximum 5" slump. Air entrained in Table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.

Lug Footings:
Lug Footings shall be 2'0" wide x 1'0" depth and shall run continuously underneath any wall that is deemed to be load bearing. See Detail for specs.

Soils:
Allowable soil bearing pressure assumed to be 2000 PSF. The Contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to be foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

AIR LEAKAGE

Section N1102.4
N1102.4.1 Building Thermal Envelope.
The Building Thermal Envelope shall be durably sealed with an Air Barrier System to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed,weatherstripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code:

1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditoned or exterior space.
2. Capping and sealing shafts or chases, including flue shafts.
3. Capping and sealing soffit or dropped ceiling areas.

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Designer: Adam T Frazier Date: 03/02/2020
Owner: Date: 03/02/2020
Owner: Date:
Super: Date:

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Location: 3059 N.Main Street Hope Mills NC 28348 Suite 16
Office Phone: 1 910 824 7505

Project: Fume Residence
MODEL: SEGC-3027
BUILDER: Southeastern General Contractors

DATE PRINTED: Oct. 2019

DRAWN BY: ATF

Notes

SHEET 2

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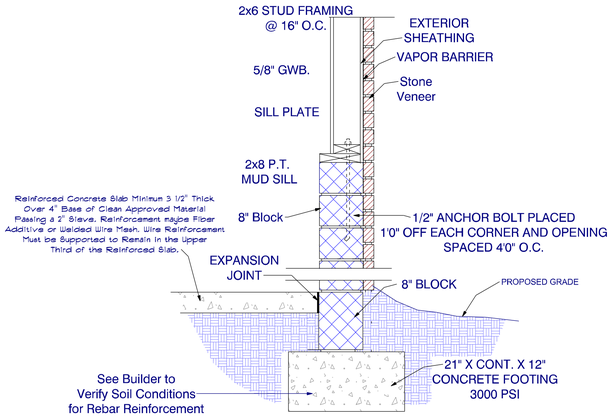
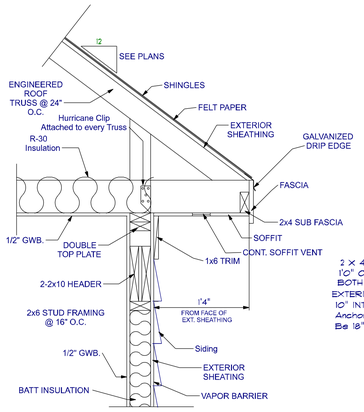


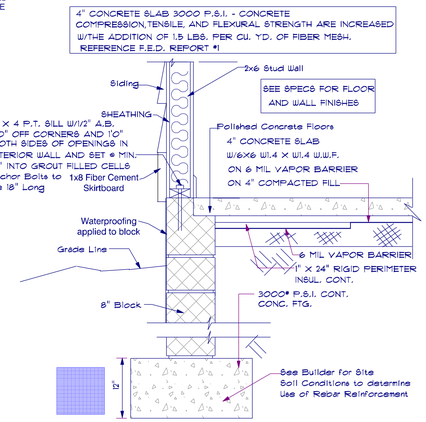
Exterior Wall Detail
Stone - Garage Exterior

SCALE: 1" = 1'0"

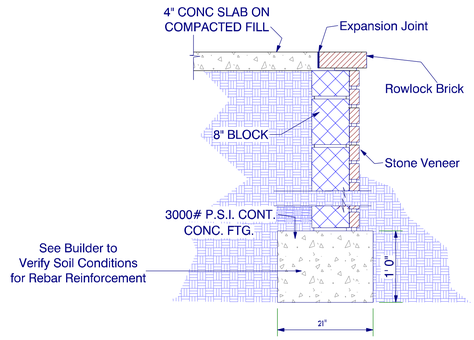


Overhang Detail Siding

SCALE: 1" = 1'0"

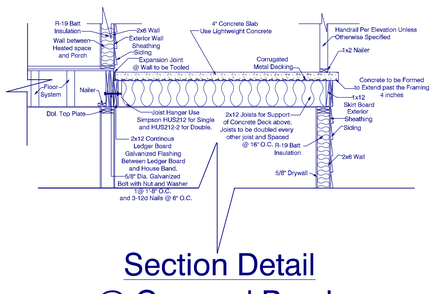


Raised Slab Detail W/Block



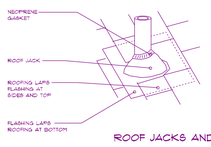
Foundation Wall & Porch

SCALE: 1" = 1'0"

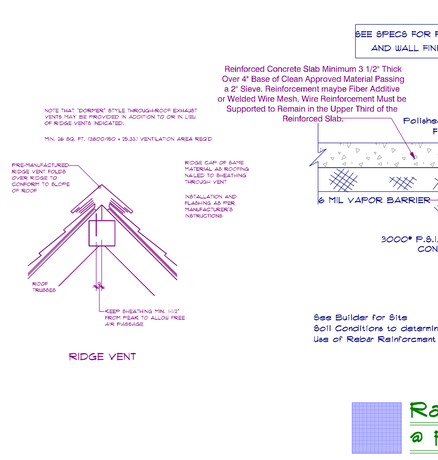


Section Detail @ Covered Porch

Scale: 3/8" = 1'0"

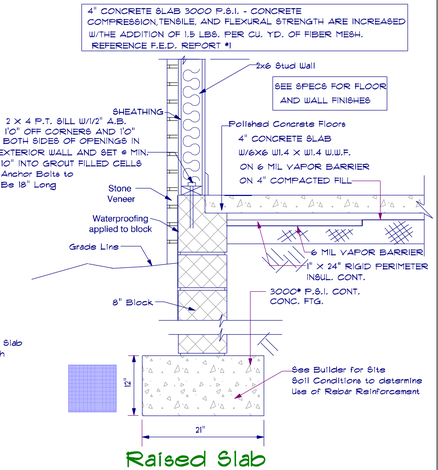


ROOF JACKS AND VENTS

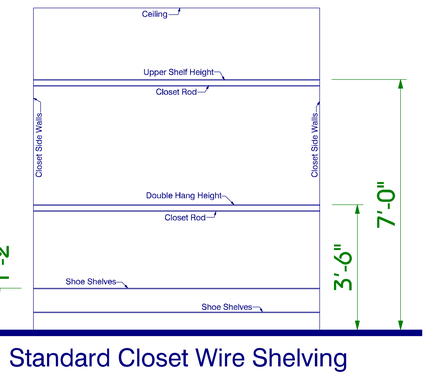


Raised Slab Detail @ Porch Corbel

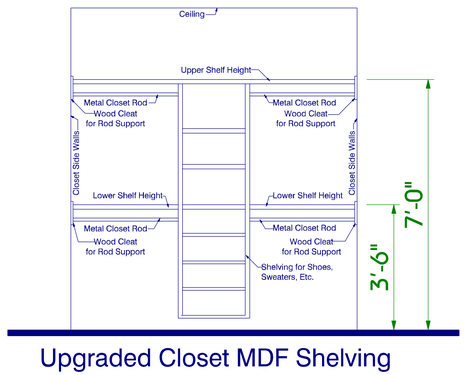
Scale: 1'=1'0"



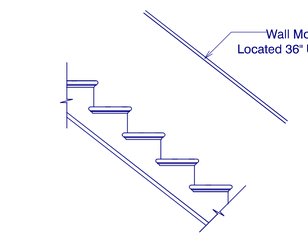
Raised Slab Detail W/Block Stone Veneer



Standard Closet Wire Shelving

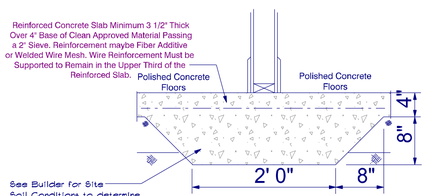


Upgraded Closet MDF Shelving



Stair Detail

16 Risers @ 7- 3/4" W/ 15 Treads @ 10" + 1" Nosing



TYP. LUG FOOTING

SCALE: 1" = 1'0"

RIDGE VENT

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Designer: Adam T Frazier Date: 03/02/2020

Owner: Chad Fu Date: 03/02/2020

Owner: _____ Date _____

Super: _____ Date: _____

Project: Fume Residence

MODEL: SEGC-3027

BUILDER: Southeastern General Contractors

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DRAWN BY: ATF

Construction Details

SHEET 3

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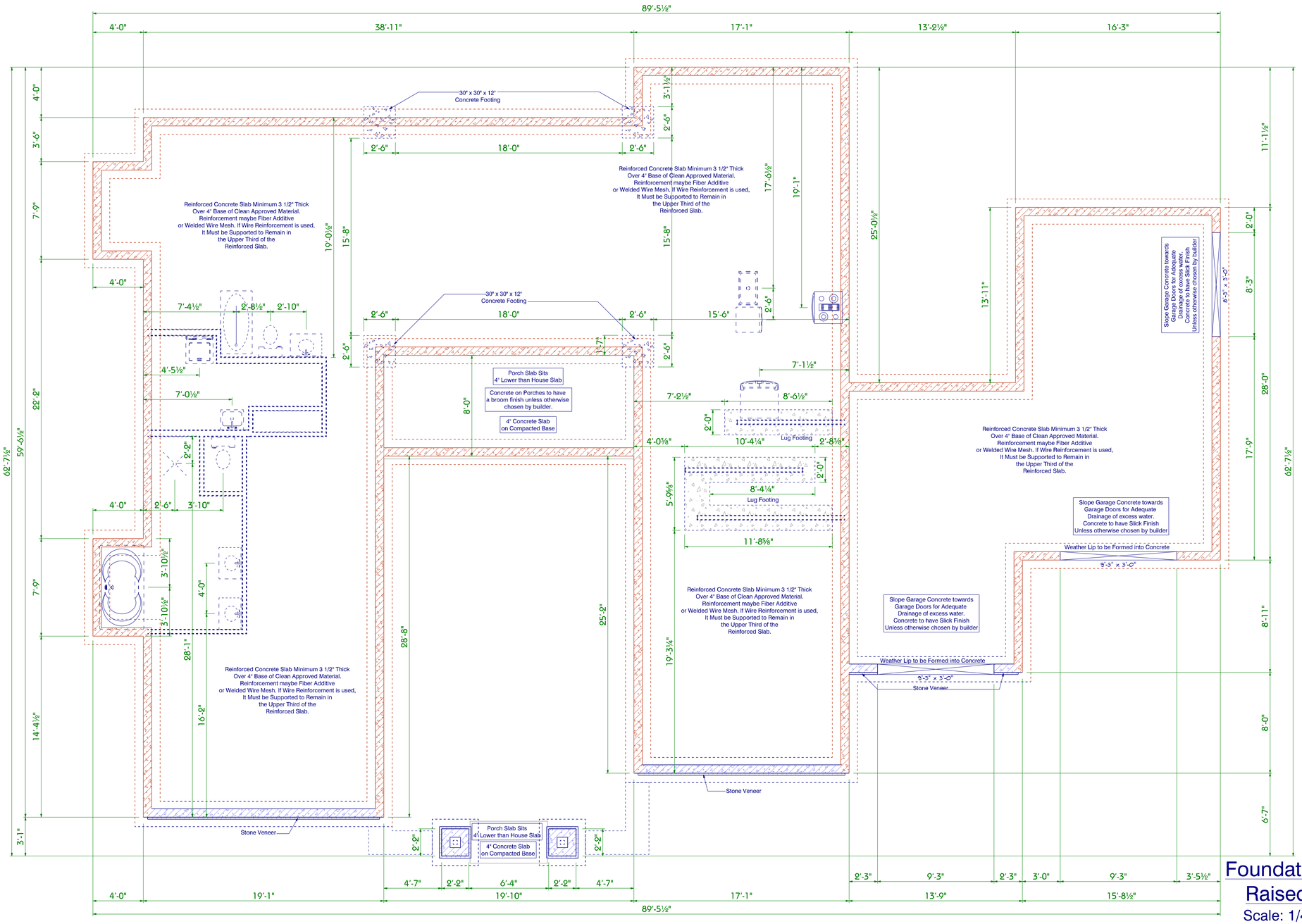

Foundation Plan
Raised Slab

Scale: 1/4" = 1'0"

* Block that is Exposed above Grade to have Waterproofing Applied to it.*

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Builder: Ralphael Locklear Date: 03/02/2020

Designer: Adam T Frazier Date: 03/02/2020

Owner: [signature] Date: 03/02/2020

Owner: _____ Date: _____

Super: _____ Date: _____

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Foundation Raised Slab

SHEET 4

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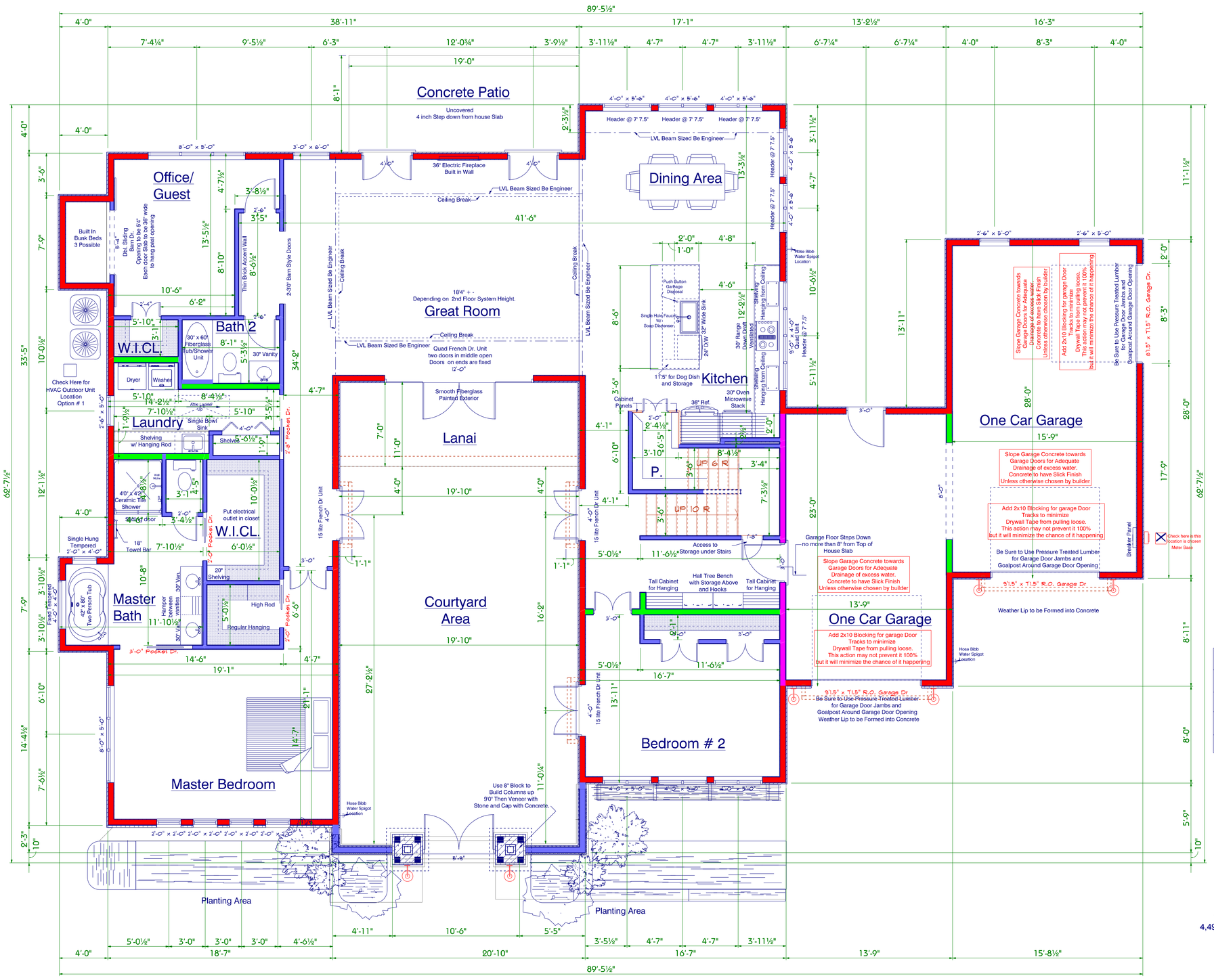

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Designer: Adam T Frazier Date: 03/02/2020

Owner: Chad Fume Date: 03/02/2020

Owner: _____ Date: _____

Super: _____ Date: _____

Potential Add Ons All Floors

Balcony on Second Floor $_____

Unfinished Room on First Floor $_____

Screened Porch on Second Floor $_____

Unfinished In Law Suite on Second Floor $_____

Two Person Tub in Master Suite $_____

Jacuzzi Connection &_____

Outside Shower Area $_____

Transfer Switch for Generator $_____

Quad French Dr. in Master Suite $_____

Quad French Dr. in Great Room $_____

Drain for Boot Wash Station $_____

Master Bedroom Quad Door Roof $_____

Garage entry Roof $_____

Two Metal Roofs with Brackets over windows $_____

Thin Brick Wall Accent $_____

Large Custom Window @ Kitchen $_____

Mud Room Built Ins $_____

Built In Bunk Beds $_____

Wall Type	Wall Description
	2x6/Brick Exterior Wall 5/8" Drywall on Interior Side of Wall
	2x6 Interior Framing wall between Heated and UnHeated Space 5/8" Drywall on Both Sides
	2x6 Interior Plumbing Wall 5/8" Drywall on both sides
	2x4 Interior Framing Wall 5/8" Drywall on Both Sides

First Floor Layout

Scale: 1/4"= 1'0"

9'0" Finished Ceiling Ht.
(Unless otherwise Noted)
2438 S.F. First Floor Heated
807 S.F. Second Floor Heated
3245 S.F. Total Heated

140 S.F. Lanai (Front)
353 S.F. Unfinished Space (Above Garage)
760 S.F. Two Car Garage

1,253 S.F. Total Unheated Unfinished Space
4,498 Total Heated and Unheated Unfinished Space

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DATE PRINTED: Mar 2020

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Main Floor Layout

SHEET 5

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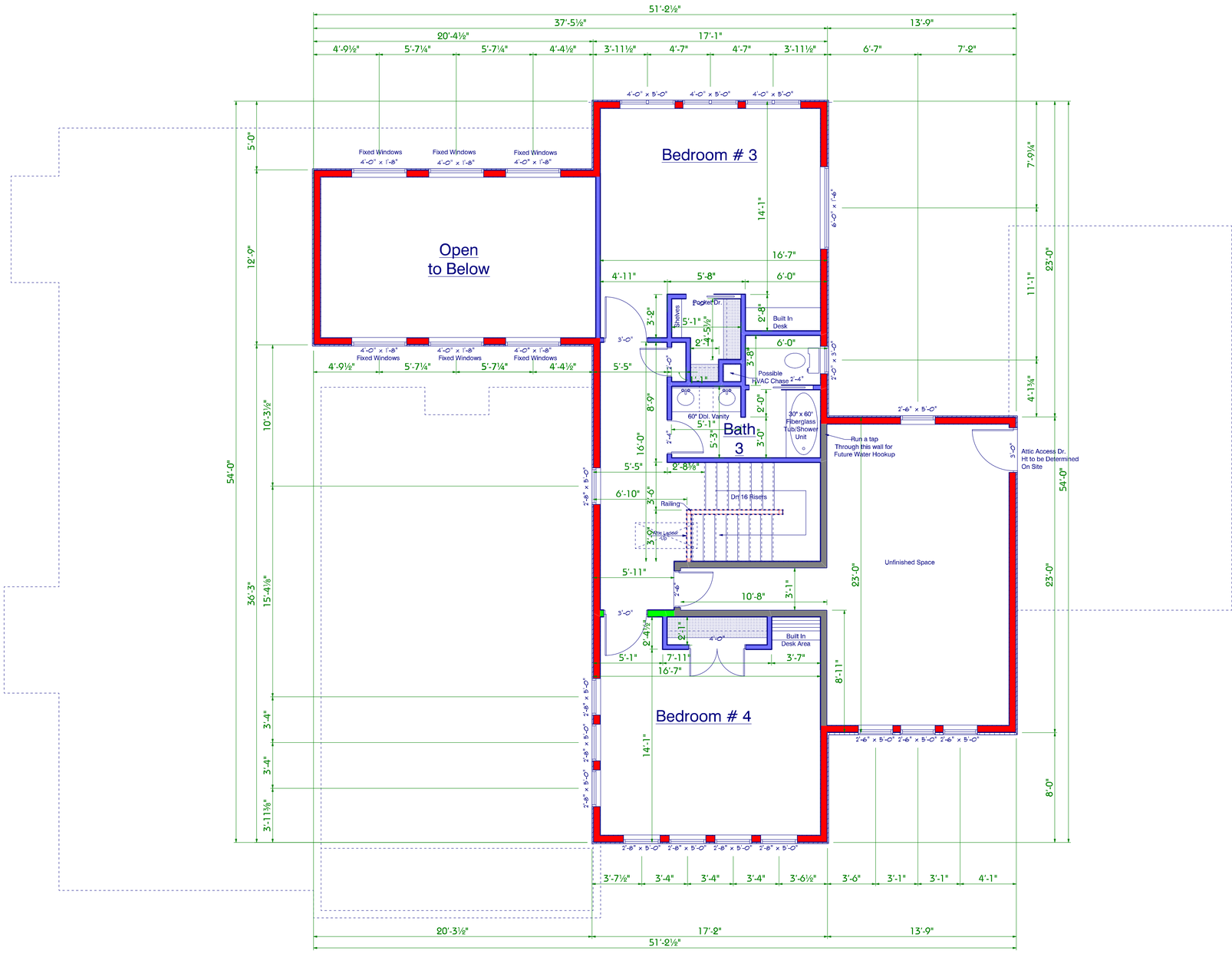
Designer: Adam T Frazier Date: 03/02/2020

Owner: Date: 03/02/2020

Owner: Date:

Super: Date:



Wall Type	Wall Description
	2x6/Brick Exterior Wall 5/8" Drywall on Interior Side of Wall
	2x4 Interior Framing Wall 5/8" Drywall on Both Sides
	2x6 Interior Framing Wall 5/8" Drywall on Both Sides
	2x4 Interior Framing Wall 5/8" Drywall on Heated Side of Wall

Second Floor Layout

Scale: 1/4" = 1'0"

8'0" Finished Ceiling Ht.
807 S.F. Second Floor Heated Total
760 S.F. Unfinished Space

"I DO HEREBY CERTIFY THAT THIS DRAWING OR PLAN AND RELATED SPECIFICATIONS MEET ALL LOCAL REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND VA MINIMUM PROPERTY REQUIREMENTS INCLUDING THE INTERNATIONAL BUILDING CODE COUNCIL (2012 NC RESIDENTIAL BUILDING CODE),ENERGY CONSERVATION STANDARDS OF THE 2012 COUNCIL OF AMERICAN BUILDING OFFICIALS,MODEL ENERGY CODE AND THE REQUIREMENT FOR LEAD-FREE PIPING.

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Website: www.southeasterngc.com
Location:
3059 N.Main Street
Hope Mills NC
28348 Suite 16
Office Phone:
1 910 824 7505

Project: Fume Residence

MODEL: SEGC-3027

BUILDER: Southeastern General Contractors

DATE PRINTED: Mar 2020

DRAWN BY: ATF

Second Floor Level

SHEET 6

Signing Here Indicates Approval of All Drawings and Related Specifications
Owners Understand and Agree that these Plans and Specs are Final and are to be used for the construction of the home. Owners also Agree and understand that there are to be no changes from these plans and specs without the consideration fee paid upfront and any charges for the change if made, will be paid upfront before construction resumes.

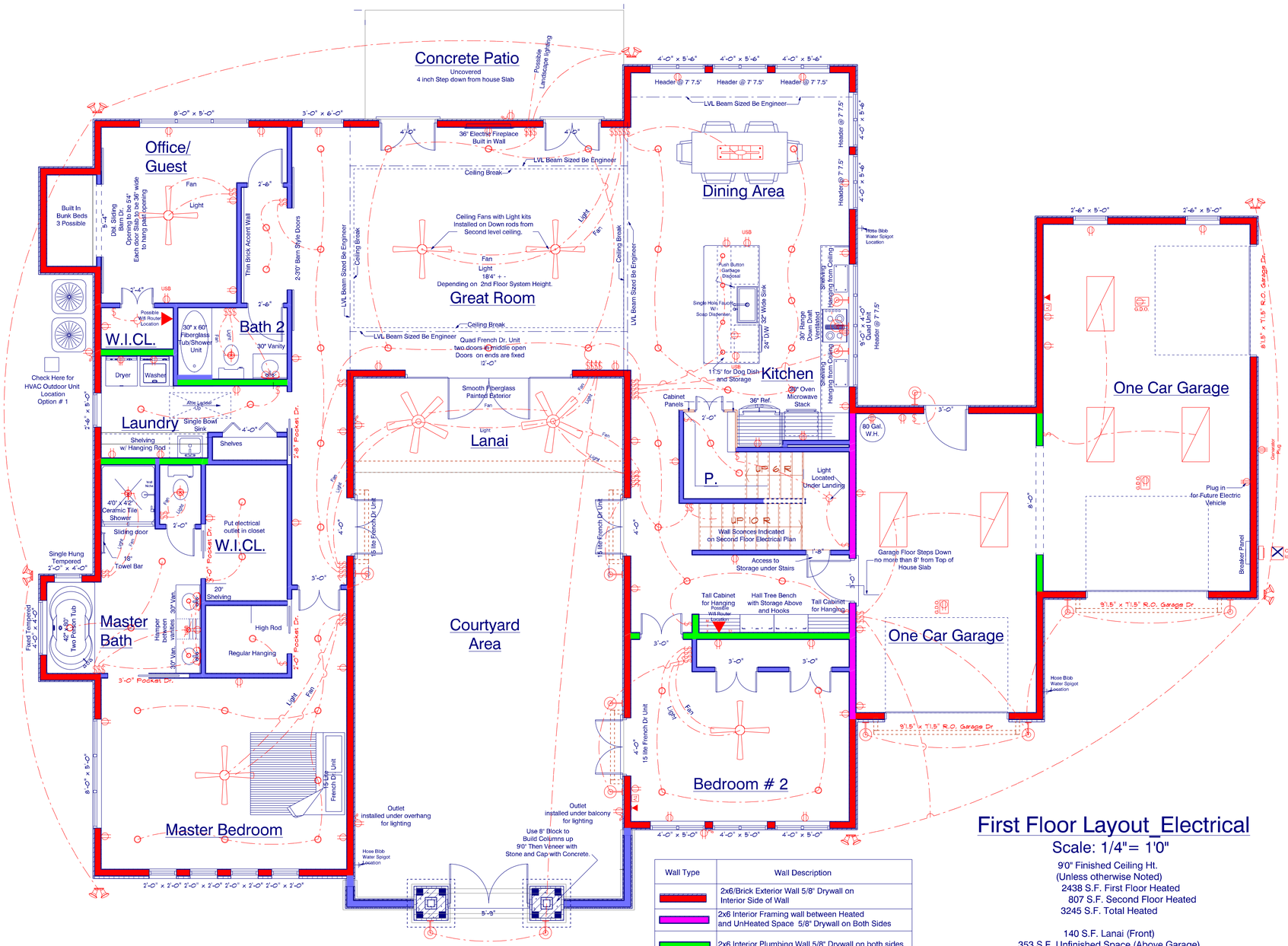
Builder: Ralphael Locklear Date: 03/02/2020

Designer: Adam T Frazier Date: 03/02/2020

Owner: Chad Fe Date: 03/02/2020

Owner: _____ Date: _____

Super: _____ Date: _____



Wall Type	Wall Description
	2x6/Brick Exterior Wall 5/8" Drywall on Interior Side of Wall
	2x6 Interior Framing wall between Heated and UnHeated Space 5/8" Drywall on Both Sides
	2x6 Interior Plumbing Wall 5/8" Drywall on both sides
	2x4 Interior Framing Wall 5/8" Drywall on Both Sides

First Floor Layout_Electrical

Scale: 1/4"= 1'0"

9'0" Finished Ceiling Ht.
(Unless otherwise Noted)
2438 S.F. First Floor Heated
807 S.F. Second Floor Heated
3245 S.F. Total Heated

140 S.F. Lanai (Front)
353 S.F. Unfinished Space (Above Garage)
760 S.F. Two Car Garage

1,253 S.F. Total Unheated Unfinished Space
4,498 Total Heated and Unheated Unfinished Space

ELECTRICAL LEGEND

ELECTRICAL	COUNT	SYMBOL	COMMENT
ceiling fan 5 bladed 01	2		
ceiling fan globe 01	3		
ceiling fan globe 02	2		
can light 4inch	4		Per Builder Spec
can light 6inch	48		Per Builder Spec
ceiling lumi mode 02	1		
fluorescent light 2 x 4	5		Per Builder Spec
spotlight double with motion detector	7		
wall mount savoy	14		
data port	2	T2 M X	Per Builder Spec
Exhaust fan w light	3		Per Builder Spec
Garage Door Outlet	3	GDO	Per Builder Spec
Outlet with USB Port	4	USB	Per Builder spec
LAN connection	2		Per Builder Spec
cable tv outlet	2	TV	Per Builder Spec
light	2		Per Builder Spec
outlet 220v	5		Per Builder Spec
outlet wp	6	WP	Per Builder Spec
outlet	48		Per Builder Spec
switch double	6	$$	Per Builder Spec
switch quad	6	$$$$	Per Builder Spec
switch triple	5	$$$	Per Builder Spec
switch	13	$	Per Builder Spec
wall mounted 02 2 lights	3		
can light 4inch	3		
Generator Plug	1	Generator Plug	
Meter base	1	Meter Base Check here is this location is chosen	

Website: www.southeasterngc.com
Location: 3059 N.Main Street Hope Mills NC 28348 Suite 16
Office Phone: 1 910 824 7505

"I DO HEREBY CERTIFY THAT THIS DRAWING OR PLAN AND RELATED SPECIFICATIONS MEET ALL LOCAL REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND VA MINIMUM PROPERTY REQUIREMENTS INCLUDING THE INTERNATIONAL BUILDING CODE COUNCIL (2012 NC RESIDENTIAL BUILDING CODE),ENERGY CONSERVATION STANDARDS OF THE 2012 COUNCIL OF AMERICAN BUILDING OFFICIALS,MODEL ENERGY CODE AND THE REQUIREMENT FOR LEAD-FREE PIPING.

Project: Fume Residence

MODEL: SEGC-3027

BUILDER: Southeastern General Contractors

DATE PRINTED: Mar 2020

DRAWN BY: ATF

Main Floor Electrical

SHEET 7

Signing Here Indicates Approval of All Drawings and Related Specifications
Owners Understand and Agree that these Plans and Specs are Final and are to be used for the construction of the home. Owners also Agree and understand that there are to be no changes from these plans and specs without the consideration fee paid upfront and any charges for the change if made, will be paid upfront before construction resumes.

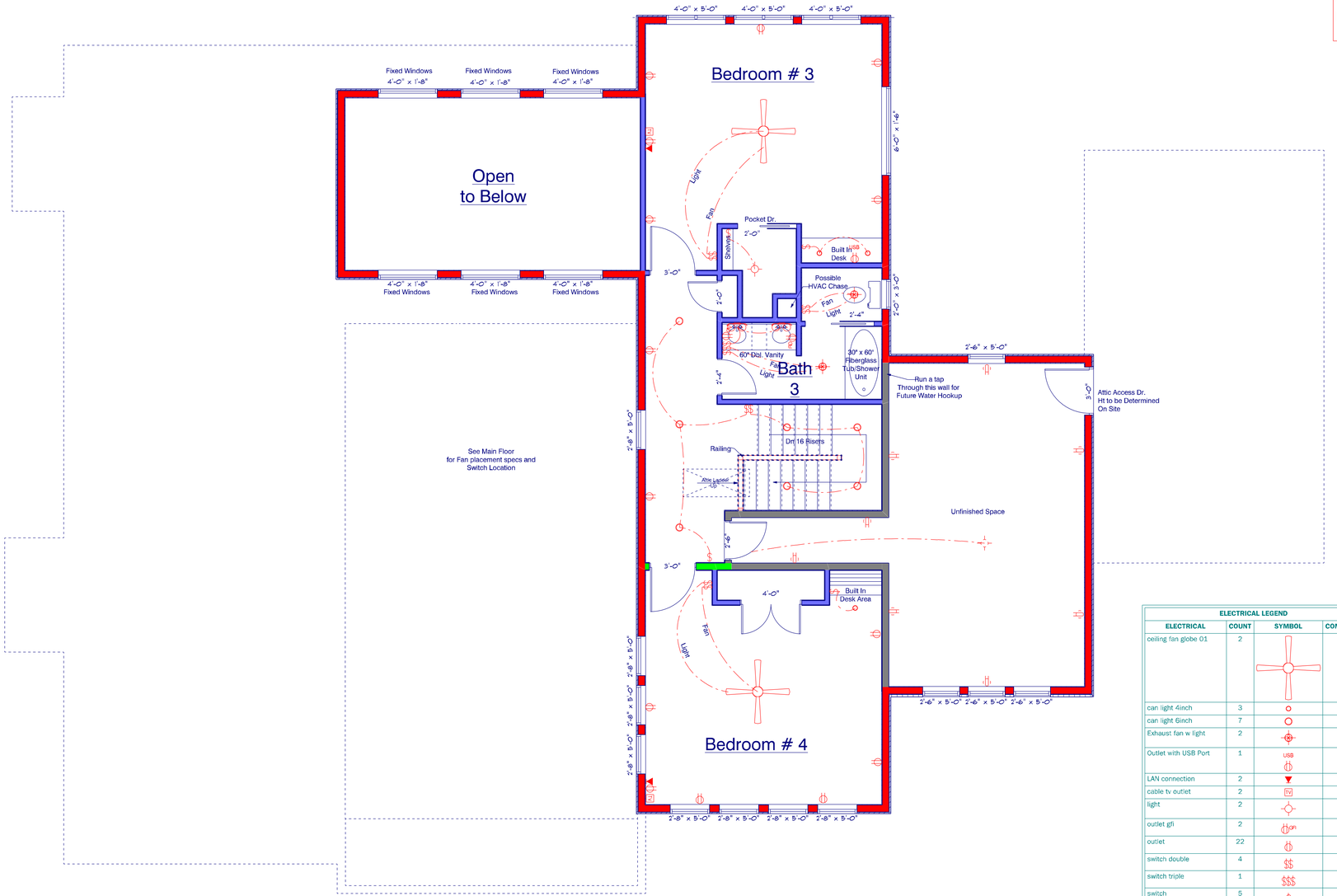
Builder: Ralphael Locklear Date: 03/02/2020

Designer: Adam T Frazier Date: 03/02/2020

Owner: Chad Fum Date: 03/02/2020

Owner: _____ Date: _____

Super: _____ Date: _____



ELECTRICAL LEGEND			
ELECTRICAL	COUNT	SYMBOL	COMMENT
ceiling fan globe 01	2		
can light 4inch	3		
can light 6inch	7		
Exhaust fan w light	2		
Outlet with USB Port	1	USB	
LAN connection	2		
cable tv outlet	2	TV	
light	2		
outlet gfi	2	GFCI	
outlet	22		
switch double	4	$$	
switch triple	1	$$$	
switch	5	$	
wall mounted 02 2 lights	2		

Wall Type	Wall Description
	2x6/Brick Exterior Wall 5/8" Drywall on Interior Side of Wall
	2x4 Interior Framing Wall 5/8" Drywall on Both Sides
	2x6 Interior Framing Wall 5/8" Drywall on Both Sides
	2x4 Interior Framing Wall 5/8" Drywall on Heated Side of Wall

Second Floor Layout

Scale: 1/4" = 1'0"

8'0" Finished Ceiling Ht.
807 S.F. Second Floor Heated Total
760 S.F. Unfinished Space

"I DO HEREBY CERTIFY THAT THIS DRAWING OR PLAN AND RELATED SPECIFICATIONS MEET ALL LOCAL REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND VA MINIMUM PROPERTY REQUIREMENTS INCLUDING THE INTERNATIONAL BUILDING CODE),ENERGY CONSERVATION STANDARDS OF THE 2012 COUNCIL OF AMERICAN BUILDING OFFICIALS,MODEL ENERGY CODE AND THE REQUIREMENT FOR LEAD-FREE PIPING.

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www.pinterest.com/segcinc/

Website:
www.southeasterngc.com
Location:
3059 N.Main Street
Hope Mills NC
28348 Suite 16
Office Phone:
1 910 824 7505

Project: Fume Residence

MODEL: SEGC-3027

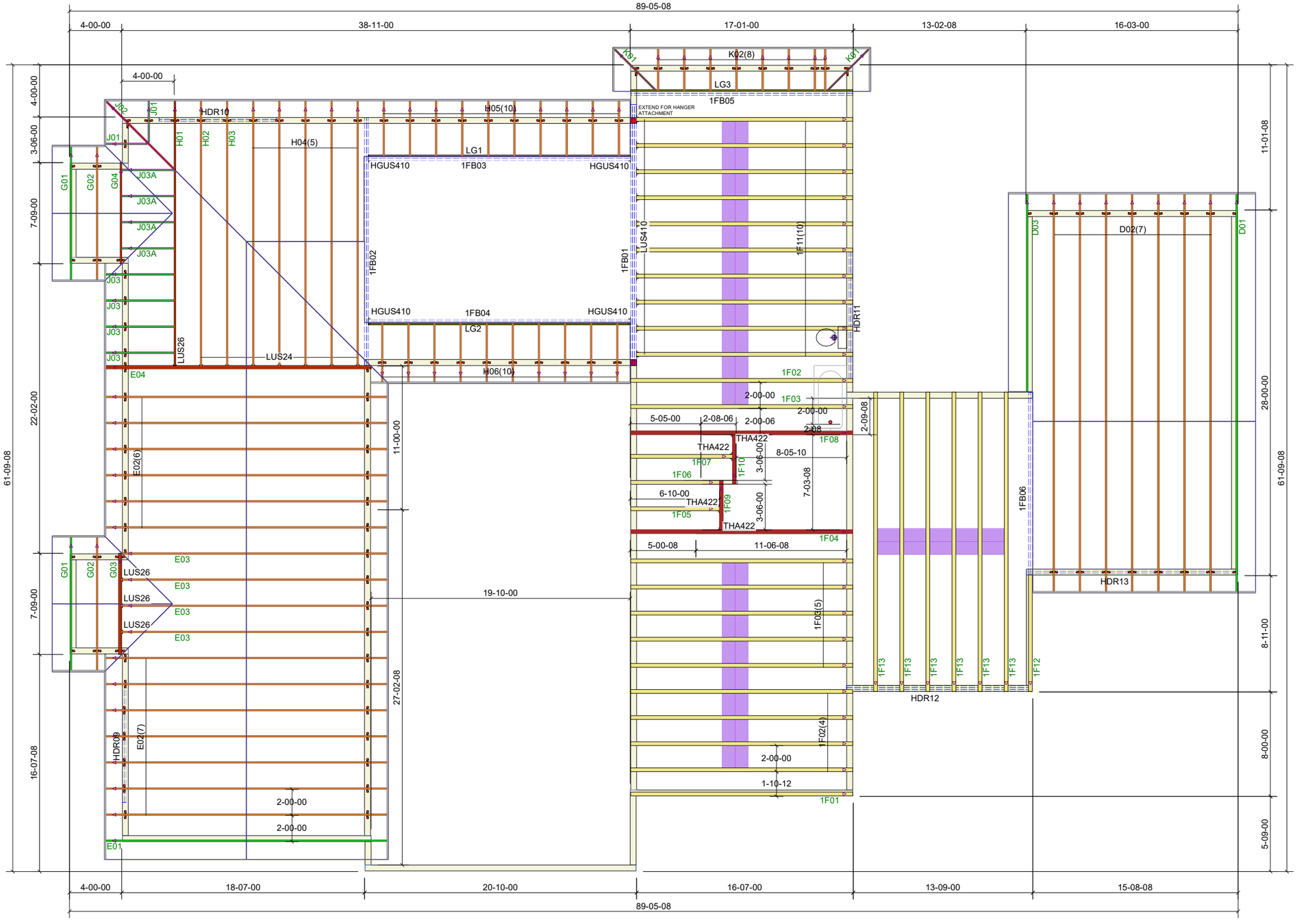
BUILDER: Southeastern General Contractors

DATE PRINTED: Mar 2020

DRAWN BY: ATF

Second Floor Electrical

SHEET 8



Truss Connector Total List		
Manuf	Product	Qty
Simpson	LUS24	7
Simpson	LUS26	4
Simpson	LUS410	10
Simpson	THA422	4
Simpson	HGUS410	4

Products				
PlotID	Length	Product	Plies	Net Qty
HDR11	10-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2
HDR09	9-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2
HDR10	9-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2
HDR13	17-00-00	1-3/4X11-7/8 LP-LVL 2900Fb-2.0E	3	3
HDR12	15-00-00	1-3/4X11-7/8 LP-LVL 2900Fb-2.0E	3	3
1FB03	21-00-00	1-3/4X18 LP-LVL 2900Fb-2.0E	2	2
1FB04	21-00-00	1-3/4X18 LP-LVL 2900Fb-2.0E	2	2
1FB01	20-00-00	1-3/4X18 LP-LVL 2900Fb-2.0E	3	3
1FB02	19-00-00	1-3/4X18 LP-LVL 2900Fb-2.0E	2	2
1FB05	17-00-00	1-3/4X18 LP-LVL 2900Fb-2.0E	2	2
1FB06	14-00-00	1-3/4X18 LP-LVL 2900Fb-2.0E	2	2
Pt1	10-00-00	5 1/4" x 5 1/4" 1.8E Parallam® PSL	1	1
Pt2	10-00-00	5 1/4" x 5 1/4" 1.8E Parallam® PSL	1	1

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.

REVIEWED BY:

APPROVED BY:

DATE:

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'Onifrio Drive; Madison, WI 53179.

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 #: 200126FT1

Plan: Furne

Customer: Southeastern General Con.

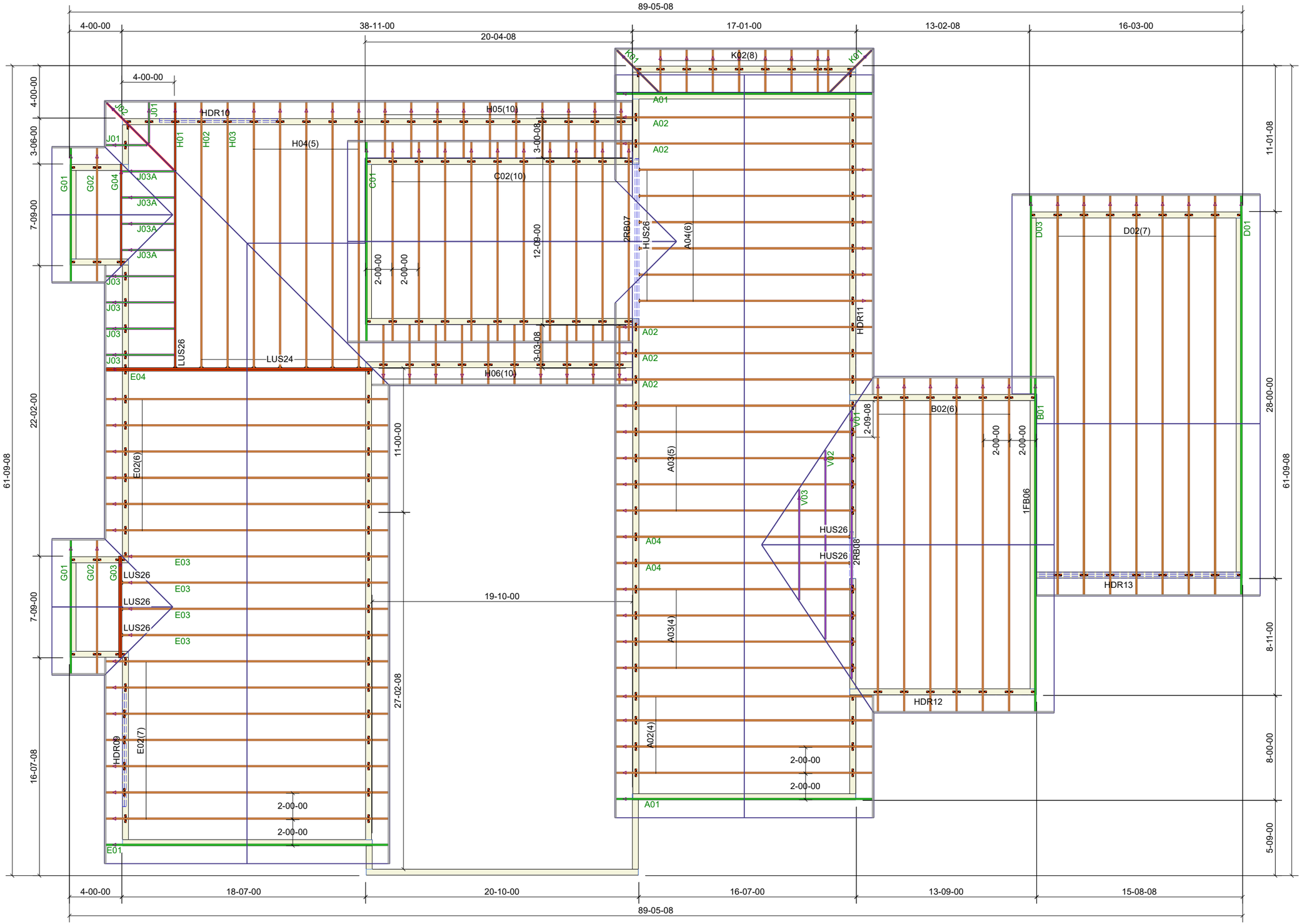
Date: 3/31/2020

Site Address: 168 Shearwood Drive

Sales Rep: RW

City, ST, ZIP: Sanford, NC, 27332

Designer: CSL



Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	8
Simpson	LUS24	7
Simpson	LUS26	4
Simpson	H2.5A	200

Products				
PlotID	Length	Product	Plies	Net Qty
2RB08	4-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2
2RB07	13-00-00	1-3/4X11-7/8 LP-LVL 2900Fb-2.0E	2	2

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.

REVIEWED BY: APPROVED BY: DATE:

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'Onifrio Drive; Madison, WI 53179.

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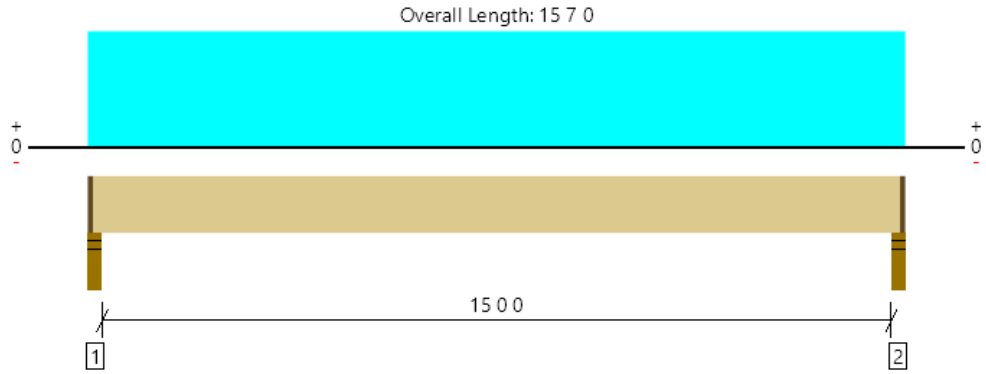
Carolina Structural Systems
P.O. Box 157, Ether, NC 27247
225 Frame Shop Rd., Star, NC 27356
910-491-9004

Job #: 200126RT1
Plan: Furne
Customer: Southeastern General Con.
Date: 3/31/2020
Site Address: 168 Sherwood Drive
Sales Rep: RW
City, ST, ZIP: Sanford, NC, 27332
Designer: CSL

Level, 2RB07

Current Solution: 2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2899 @ 0 2 0	3347 (2.25")	Passed (87%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2455 @ 1 3 6	9081	Passed (27%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	10963 @ 7 9 8	20525	Passed (53%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.314 @ 7 9 8	0.762	Passed (L/582)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.500 @ 7 9 8	1.017	Passed (L/366)	--	1.0 D + 1.0 S (All Spans)

System : Roof
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD
Member Pitch : 0/12

All Product Solutions			
Depth	Series	Plies	Wood Volume
11 7/8"	1 3/4" 2.0E Microllam® LVL	2	83.13

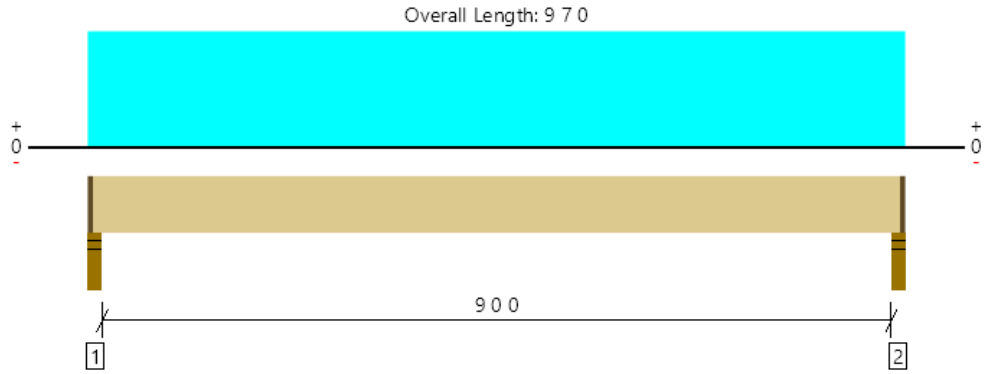
The purpose of this report is for product comparison only. Load and support information necessary for professional design review is not displayed here. Please print an individual Member Report for submittal purposes.

ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, HDR12

Current Solution: 3 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	5033 @ 0 2 0	5020 (2.25")	Passed (100%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	3321 @ 1 3 6	11845	Passed (28%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	10120 @ 4 9 8	26772	Passed (38%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.080 @ 4 9 8	0.231	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.142 @ 4 9 8	0.463	Passed (L/782)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
9 1/4"	1 3/4" 2.0E Microllam® LVL	3	97.13
11 7/8"	1 3/4" 2.0E Microllam® LVL	3	124.69
14"	1 3/4" 2.0E Microllam® LVL	3	147.00

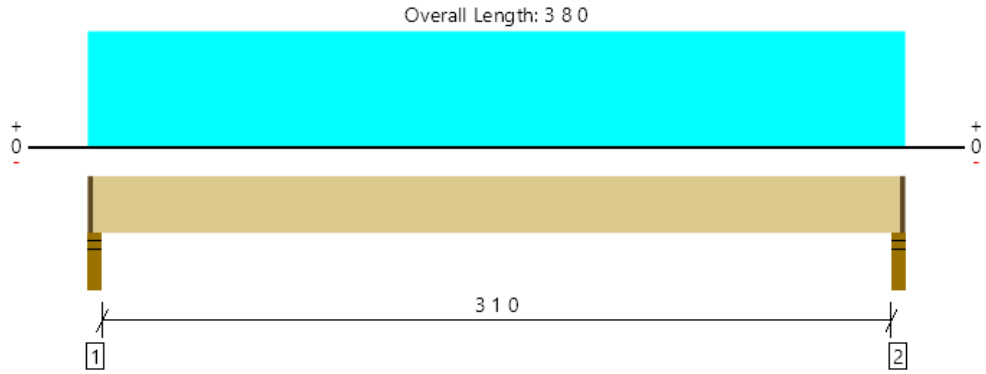
The purpose of this report is for product comparison only. Load and support information necessary for professional design review is not displayed here. Please print an individual Member Report for submittal purposes.

ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, 2RB08

Current Solution: 2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	708 @ 0 2 0	3347 (2.25")	Passed (21%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	316 @ 1 0 12	7689	Passed (4%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	569 @ 1 10 0	14005	Passed (4%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.003 @ 1 10 0	0.167	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.004 @ 1 10 0	0.222	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD
Member Pitch : 0/12

All Product Solutions			
Depth	Series	Plies	Wood Volume
9 1/4"	1 3/4" 2.0E Microllam® LVL	2	64.75

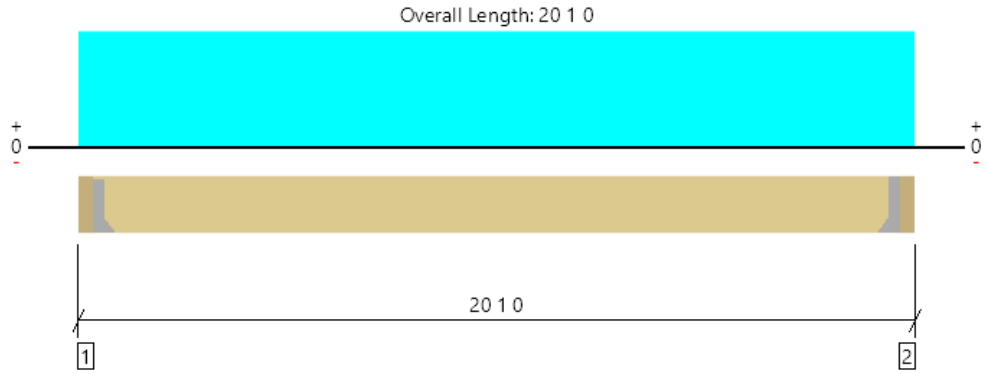
The purpose of this report is for product comparison only. Load and support information necessary for professional design review is not displayed here. Please print an individual Member Report for submittal purposes.

ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, 1FB04

Current Solution: 2 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3718 @ 0 3 8	3938 (1.50")	Passed (94%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	3146 @ 1 9 8	13766	Passed (23%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	18127 @ 10 0 8	44566	Passed (41%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.206 @ 10 0 8	0.488	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.398 @ 10 0 8	0.975	Passed (L/588)	--	1.0 D + 1.0 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
18"	1 3/4" 2.0E Microllam® LVL	2	126.00

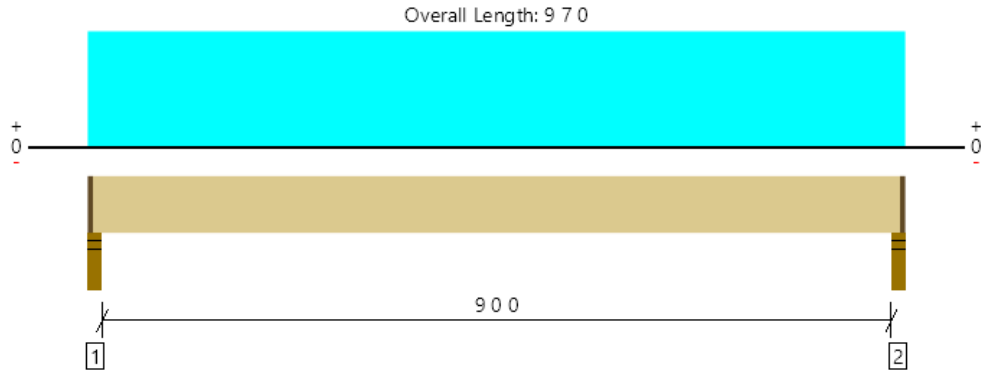
The purpose of this report is for product comparison only. Load and support information necessary for professional design review is not displayed here. Please print an individual Member Report for submittal purposes.

ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, HDR11

Current Solution: 2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2538 @ 0 2 0	3347 (2.25")	Passed (76%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2019 @ 1 0 12	7074	Passed (29%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	5791 @ 4 9 8	12884	Passed (45%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.109 @ 4 9 8	0.231	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.214 @ 4 9 8	0.463	Passed (L/519)	--	1.0 D + 1.0 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
9 1/4"	1 3/4" 2.0E Microllam® LVL	2	64.75
11 7/8"	1 3/4" 2.0E Microllam® LVL	2	83.13

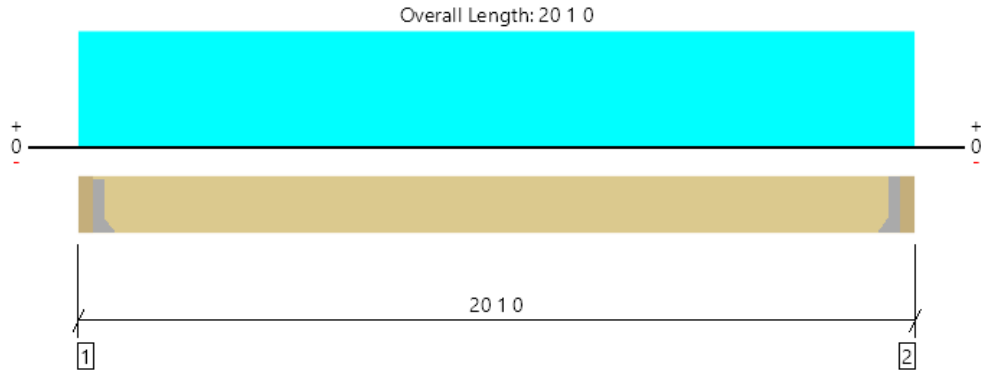
The purpose of this report is for product comparison only. Load and support information necessary for professional design review is not displayed here. Please print an individual Member Report for submittal purposes.

ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, 1FB03

Current Solution: 2 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3718 @ 0 3 8	3938 (1.50")	Passed (94%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	3146 @ 1 9 8	13766	Passed (23%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	18127 @ 10 0 8	44566	Passed (41%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.206 @ 10 0 8	0.488	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.398 @ 10 0 8	0.975	Passed (L/588)	--	1.0 D + 1.0 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
18"	1 3/4" 2.0E Microllam® LVL	2	126.00

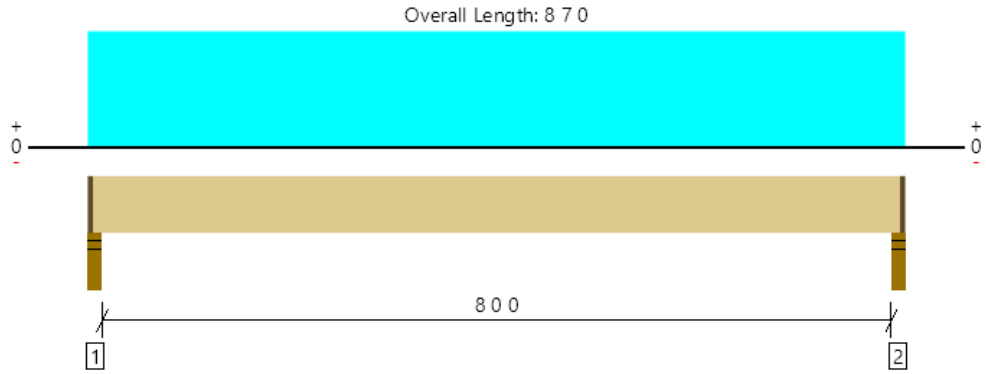
The purpose of this report is for product comparison only. Load and support information necessary for professional design review is not displayed here. Please print an individual Member Report for submittal purposes.

ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, HDR10

Current Solution: 2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2221 @ 0 2 0	3347 (2.25")	Passed (66%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	1713 @ 1 0 12	7074	Passed (24%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	4513 @ 4 3 8	12884	Passed (35%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.087 @ 4 3 8	0.412	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.136 @ 4 3 8	0.550	Passed (L/729)	--	1.0 D + 1.0 S (All Spans)

System : Roof
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD
Member Pitch : 0/12

All Product Solutions			
Depth	Series	Plies	Wood Volume
9 1/4"	1 3/4" 2.0E Microllam® LVL	2	64.75
11 7/8"	1 3/4" 2.0E Microllam® LVL	2	83.13

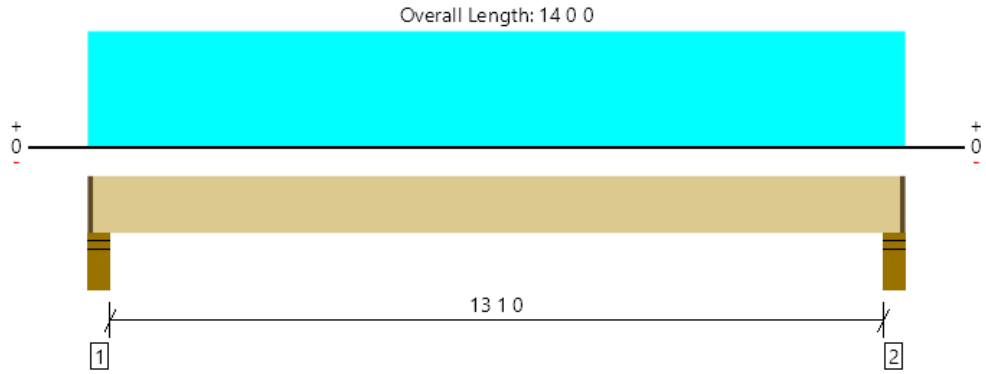
The purpose of this report is for product comparison only. Load and support information necessary for professional design review is not displayed here. Please print an individual Member Report for submittal purposes.

ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, 1FB06

Current Solution: 2 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1920 @ 0 4 0	6322 (4.25")	Passed (30%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	1403 @ 1 11 8	13766	Passed (10%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Moment (Ft-lbs)	6186 @ 7 0 0	44566	Passed (14%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Live Load Defl. (in)	0.030 @ 7 0 0	0.333	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.069 @ 7 0 0	0.667	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
18"	1 3/4" 2.0E Microllam® LVL	2	126.00

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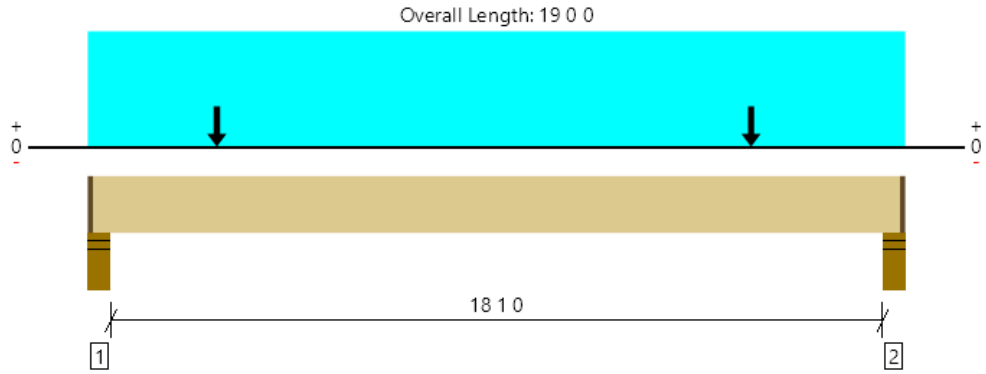
ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, 1FB02

Current Solution: 2 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	4196 @ 0 4 0	6322 (4.25")	Passed (66%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	4125 @ 1 11 8	13766	Passed (30%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	13392 @ 10 6 1	44566	Passed (30%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Live Load Defl. (in)	0.170 @ 9 6 13	0.458	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.287 @ 9 6 13	0.917	Passed (L/765)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
18"	1 3/4" 2.0E Microllam® LVL	2	126.00

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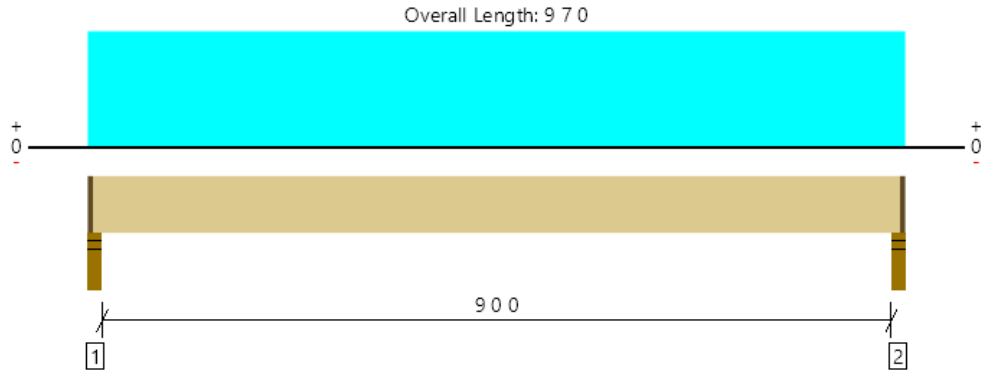
ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, HDR13

Current Solution: 3 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3038 @ 0 2 0	5020 (2.25")	Passed (61%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2275 @ 1 3 6	13622	Passed (17%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	6933 @ 4 9 8	30788	Passed (23%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.048 @ 4 9 8	0.463	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.086 @ 4 9 8	0.617	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)

System : Roof
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD
Member Pitch : 0/12

All Product Solutions			
Depth	Series	Plies	Wood Volume
9 1/4"	1 3/4" 2.0E Microllam® LVL	3	97.13
11 7/8"	1 3/4" 2.0E Microllam® LVL	3	124.69

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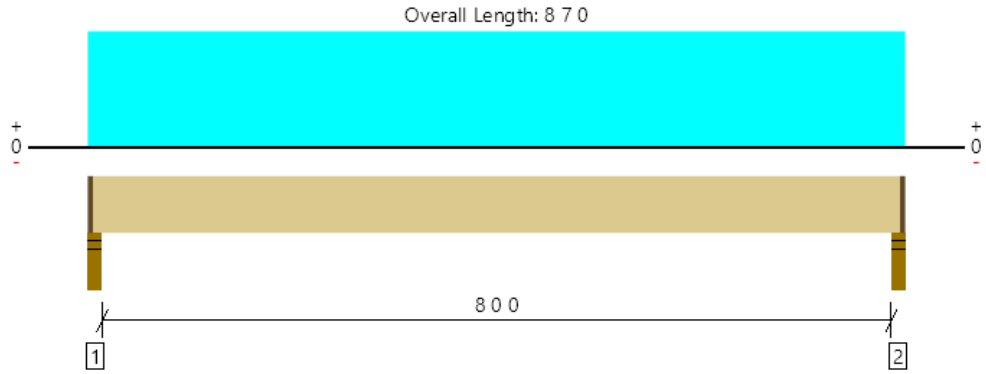
ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, HDR09

Current Solution: 2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1660 @ 0 2 0	3347 (2.25")	Passed (50%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	1280 @ 1 0 12	7074	Passed (18%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	3373 @ 4 3 8	12884	Passed (26%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.065 @ 4 3 8	0.412	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.102 @ 4 3 8	0.550	Passed (L/975)	--	1.0 D + 1.0 S (All Spans)

System : Roof
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD
Member Pitch : 0/12

All Product Solutions			
Depth	Series	Plies	Wood Volume
9 1/4"	1 3/4" 2.0E Microllam® LVL	2	64.75
11 7/8"	1 3/4" 2.0E Microllam® LVL	2	83.13

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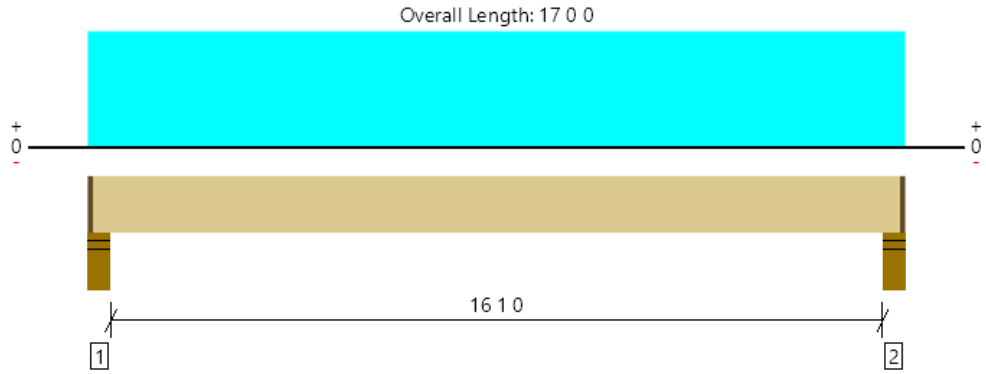
ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, 1FB05

Current Solution: 2 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1749 @ 0 4 0	6322 (4.25")	Passed (28%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	1363 @ 1 11 8	13766	Passed (10%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	6949 @ 8 6 0	44566	Passed (16%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.043 @ 8 6 0	0.408	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.111 @ 8 6 0	0.817	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
18"	1 3/4" 2.0E Microllam® LVL	2	126.00

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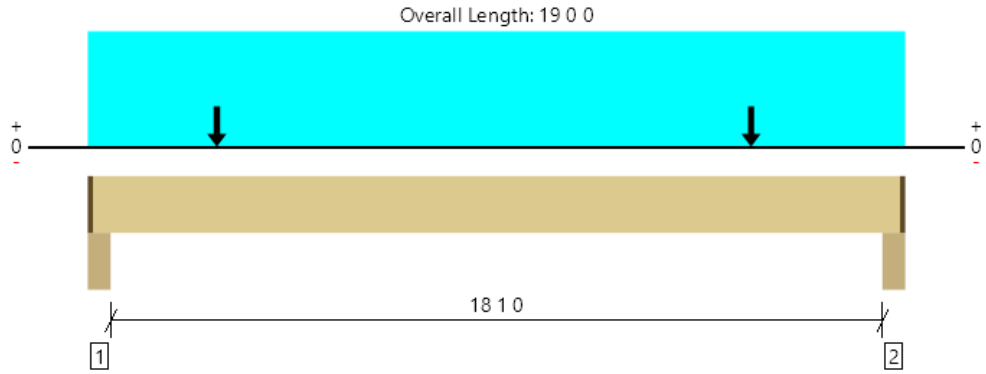
ForteWEB Software Operator	Job Notes
Cameron Lallathin Carolina Structural Systems (336) 423-2910 clallathin@carolinastructuralsystems.com	

Weyerhaeuser

Level, 1FB01

Current Solution: 3 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	9358 @ 0 4 0	16177 (4.25")	Passed (58%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	8639 @ 1 11 8	20648	Passed (42%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Moment (Ft-lbs)	32712 @ 9 11 7	66849	Passed (49%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Live Load Defl. (in)	0.274 @ 9 6 9	0.458	Passed (L/802)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.458 @ 9 6 9	0.917	Passed (L/481)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

System : Floor
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

All Product Solutions			
Depth	Series	Plies	Wood Volume
18"	1 3/4" 2.0E Microllam® LVL	2	126.00
18"	1 3/4" 2.0E Microllam® LVL	3	189.00
18"	1 3/4" 2.0E Microllam® LVL	4	252.00
24"	1 3/4" 2.0E Microllam® LVL	2	168.00
24"	1 3/4" 2.0E Microllam® LVL	3	252.00
24"	1 3/4" 2.0E Microllam® LVL	4	336.00

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Weyerhaeuser