

# Plans Designed to the 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

<sup>\* &</sup>quot;10/15" Means R-10 Sheathing Insulation or R-15 Cavity Insulation \*\* Insulation Depth with Monolithic Slab 18" or From Inspection Gap to bottom of Footing; Insulation Depth with Stem Wall Slab 24" or

DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (89 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			

ASSUMED MEAN ROOF HEIGHT 12'5"

# **Roof Truss Requirements**

### TRUSS DESIGN.

to bottom of Foundation Wall

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 = 2539 Sq. Ft.

Net-Free Cross Ventilation Needed: Without 50% to 80% of Venting 3'0" above Eave= 16.92 Sq.Ft.

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: 8.46 Sq.Ft.

# 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	Live Load	Dead Load	Deflection
USE	(PSF)	(PSF)	(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.

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

N1102.4.1 Building Thermal Envelope.

### Section N1102.4

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, weather stripped 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.
- "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 (2018 RESIDENTIAL NC BUILDING CODE), ENERGY CONSERVATION STANDARDS OF THE 2018 COUNCIL OF AMERICAN BUILDING OFFICIALS, MODEL ENERGY CODE AND

THE REQUIREMENT FOR LEAD-FREE PIPING.

**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.

Signing Here Indicates Approval of All

### **APPROVED BY**

Builder: Ralphael Locklear

08/08/2023 Designer: Adam T Frazier

Owner: 959 08/08/2023

08/08/2023

SuperIntendent:







DATE

08/08/2023







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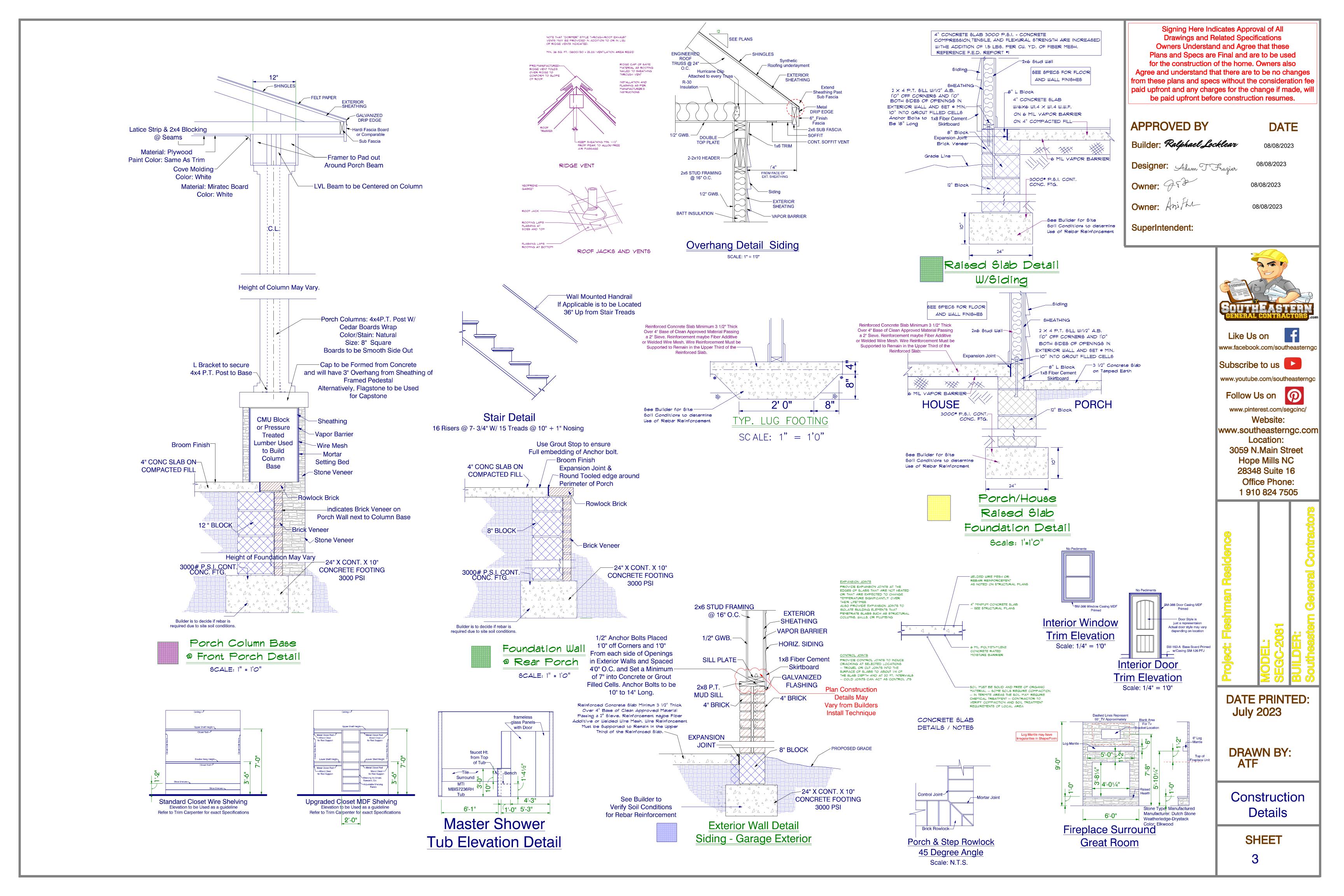
28348 Suite 16 Office Phone:

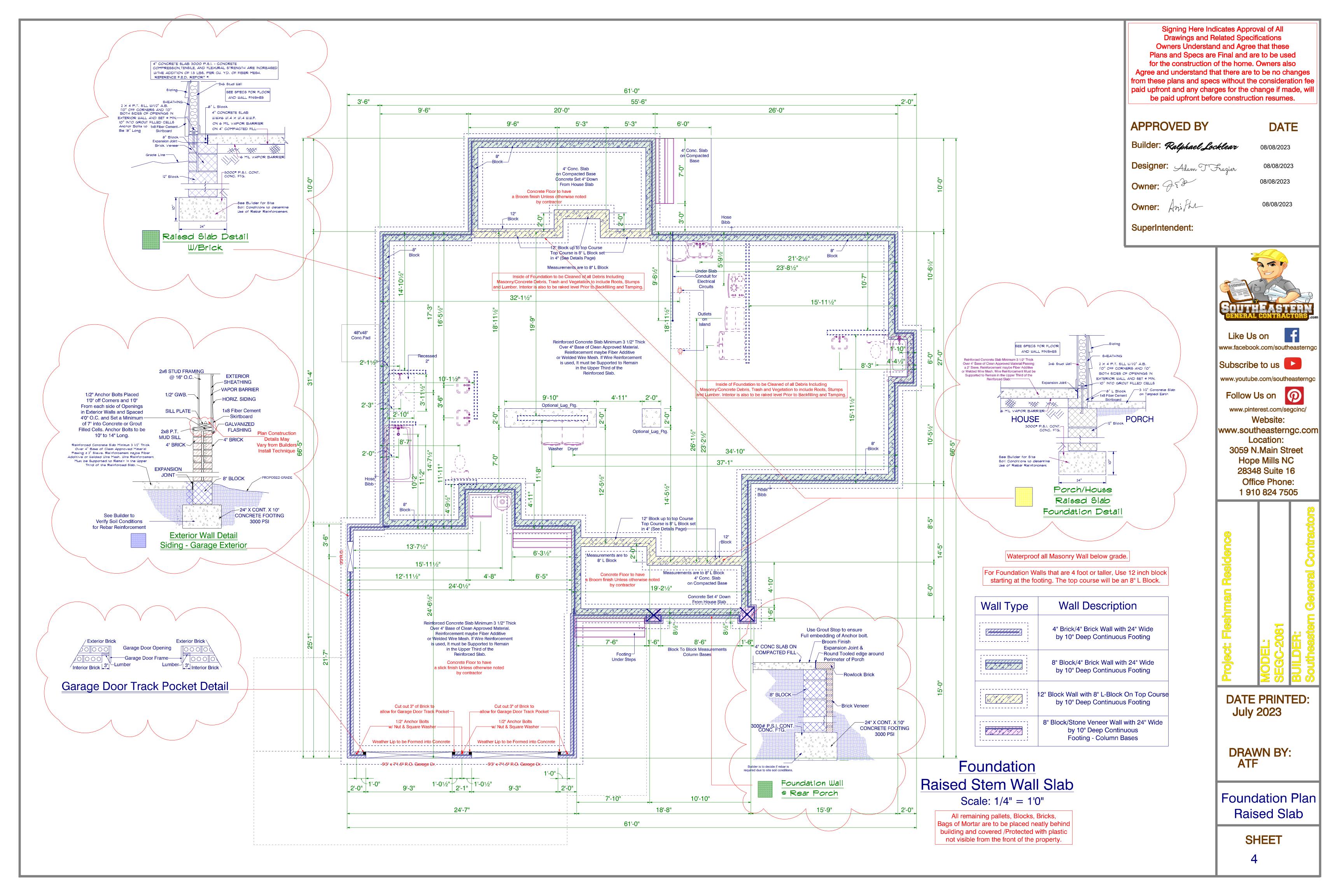
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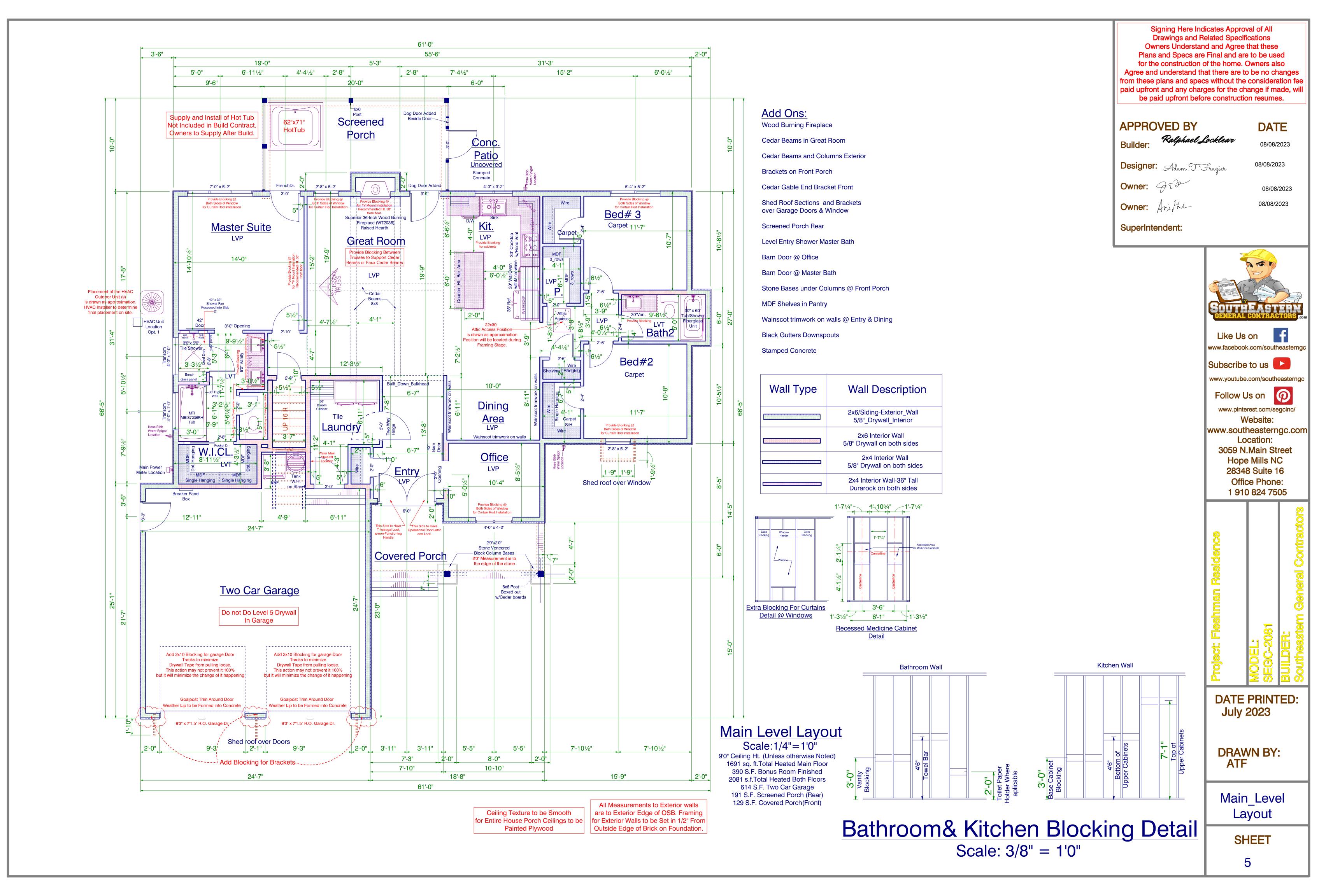
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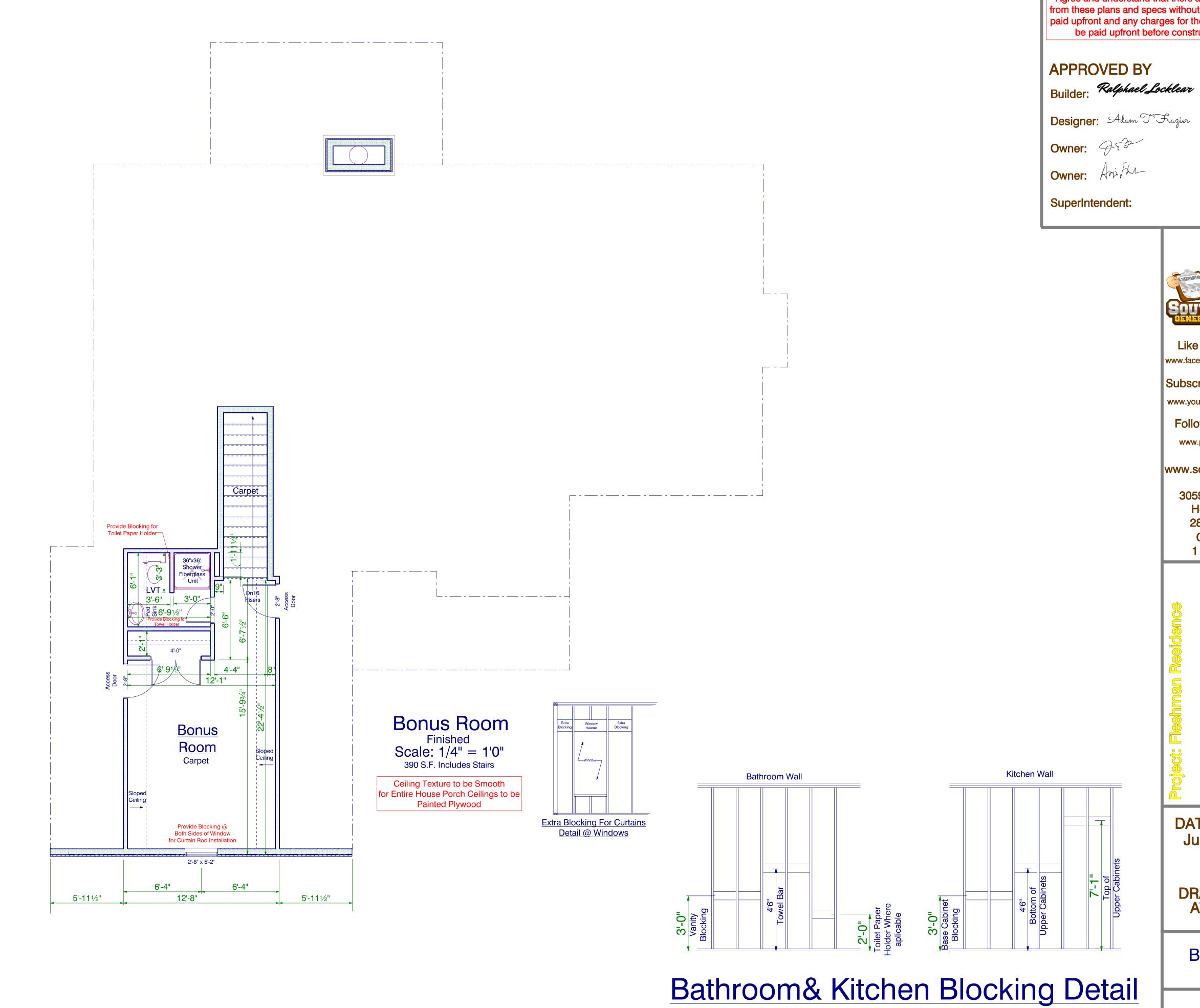
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Notes









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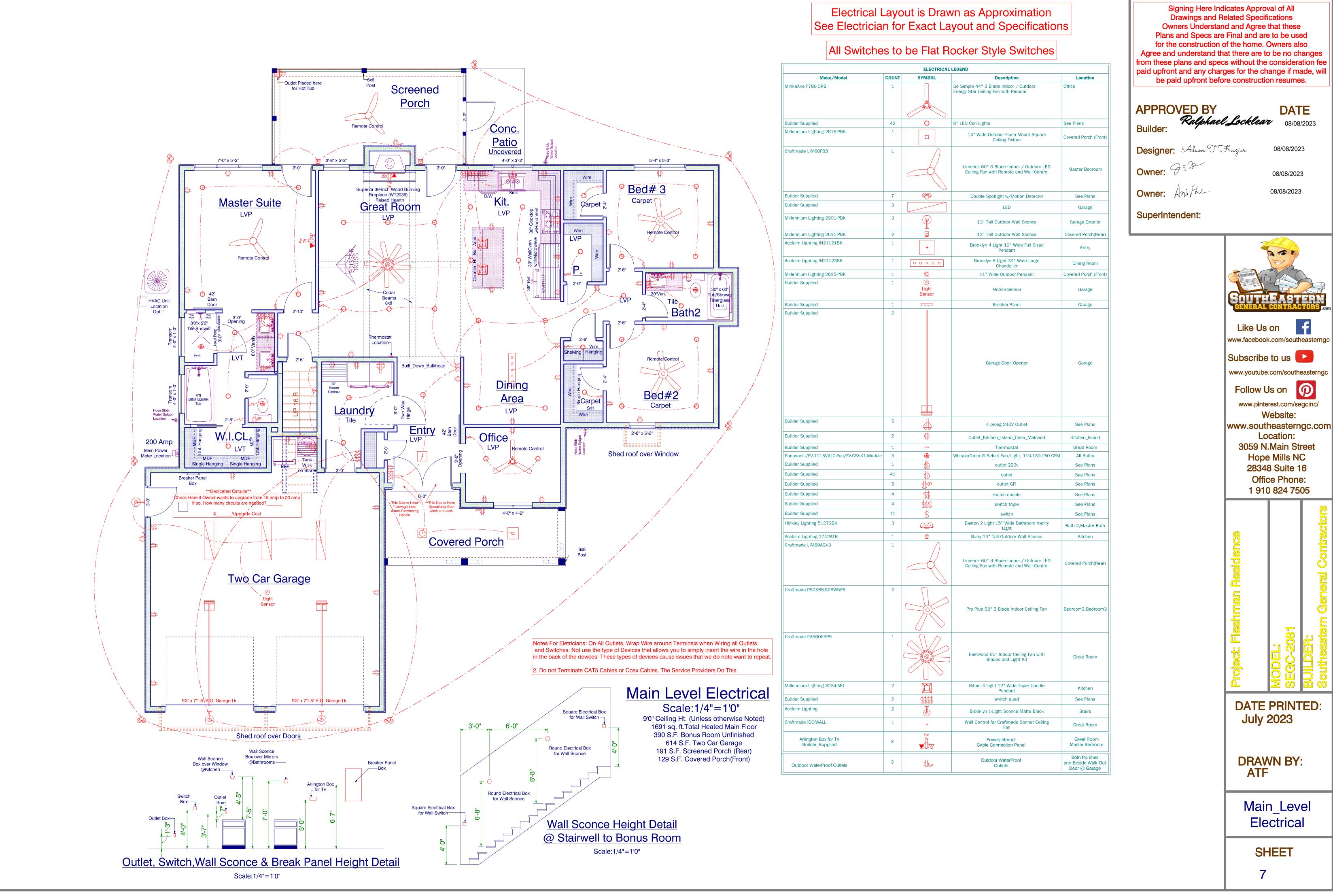
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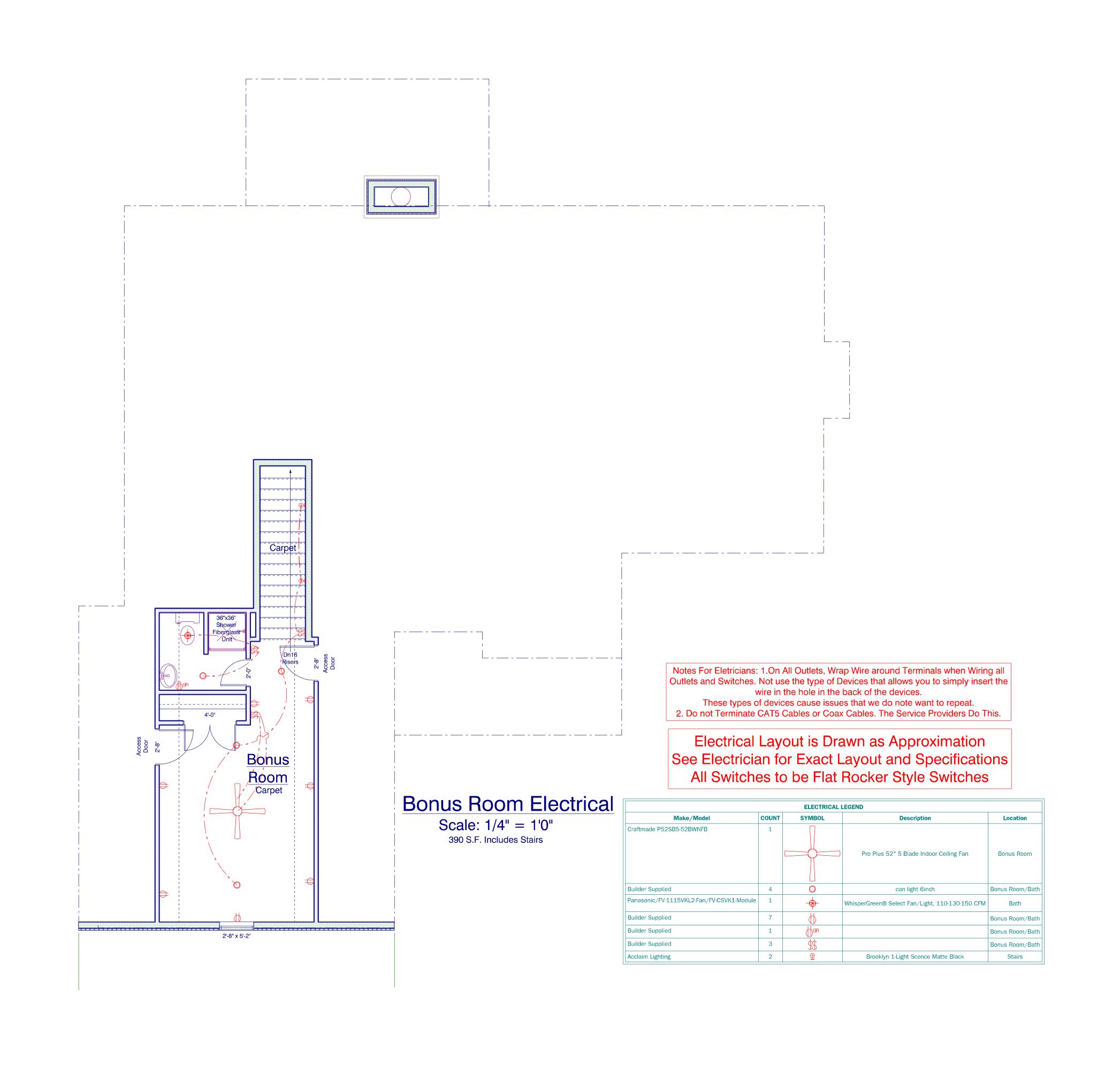
Bonus\_Room Layout

SHEET

Scale: 3/8" = 1'0"



Agree and understand that there are to be no changes



# APPROVED BY

Builder: Ralphael Locklear

Designer: Adam T Frazier

Owner: Anith 08/08/2023

SuperIntendent:

**DATE** 

08/08/2023

08/08/2023

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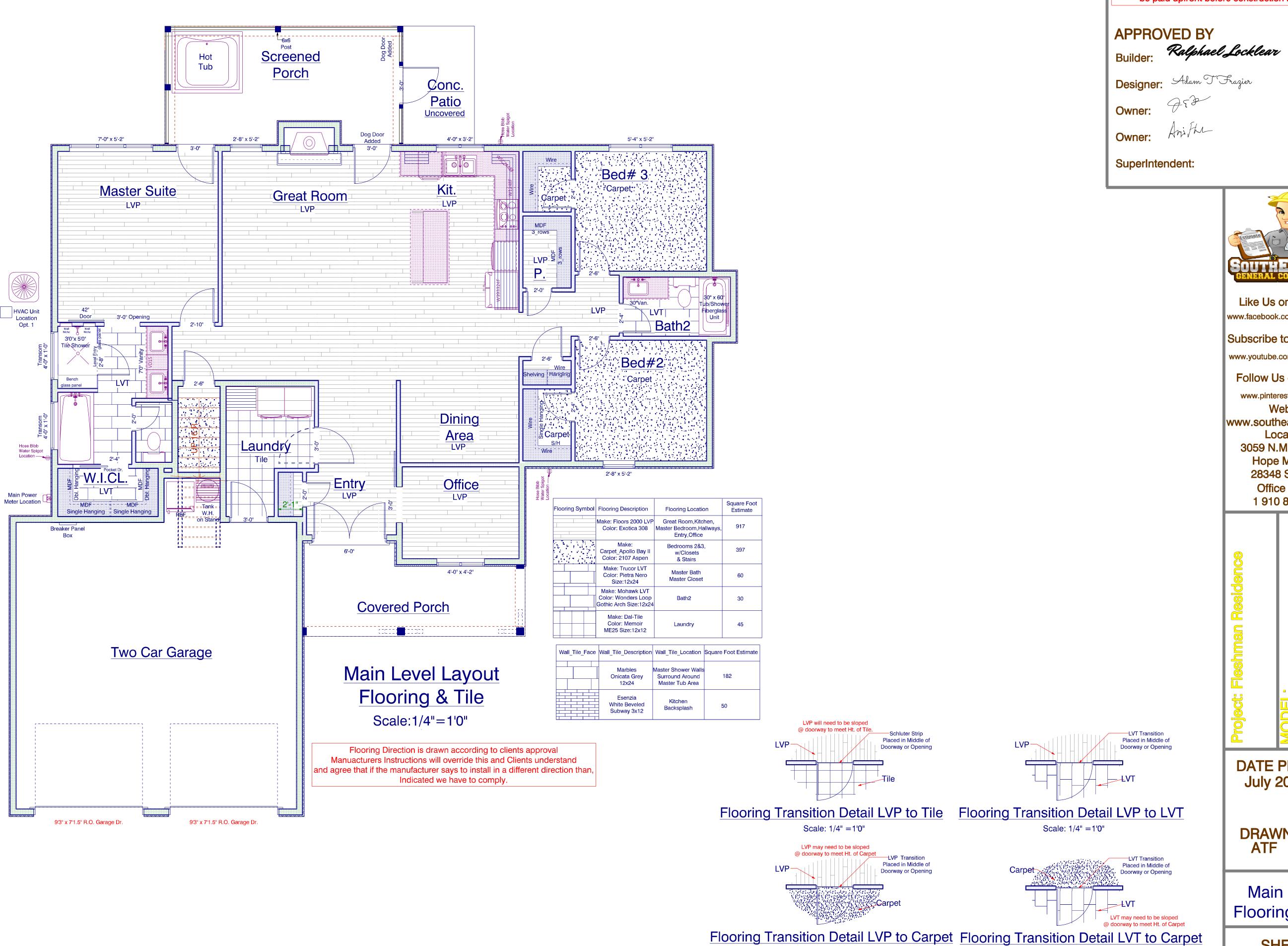
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BonusRoom Electrical



Scale: 1/4" =1'0"

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.

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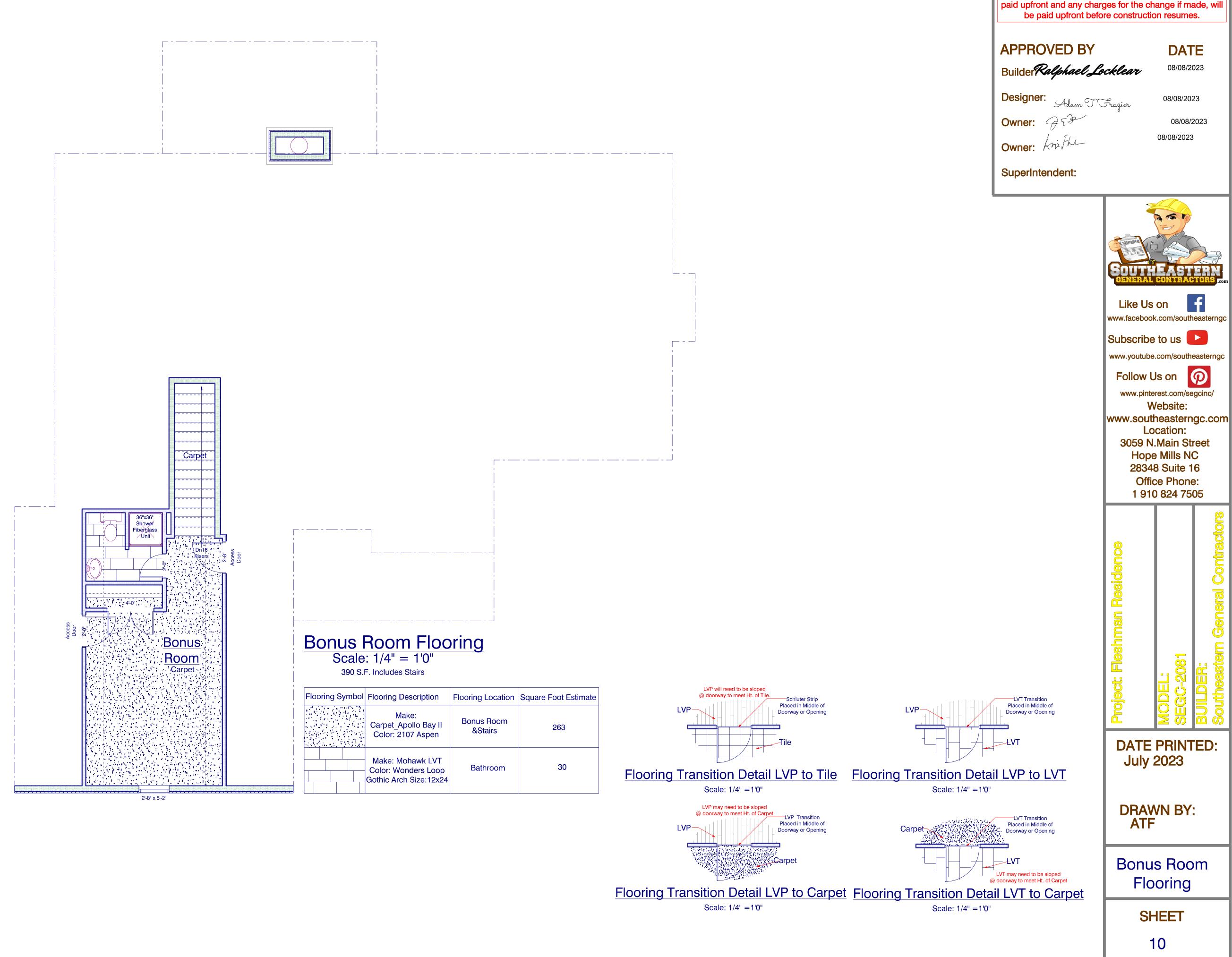
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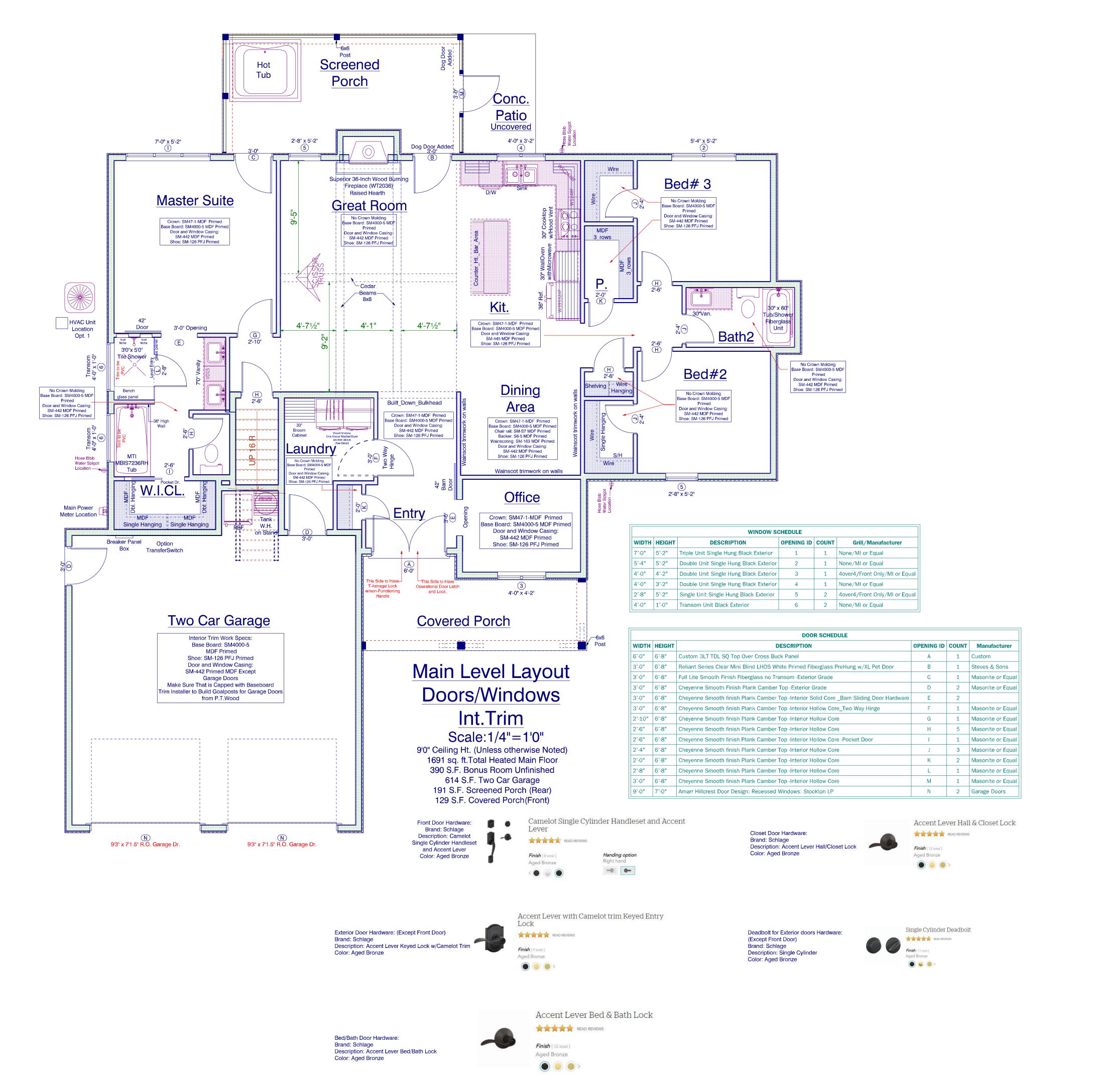
Main Level Flooring & Tile

SHEET

Scale: 1/4" =1'0"



DATE PRINTED:



**APPROVED BY** 

Builder: Ralphael Locklear

08/08/2023

**DATE** 

08/08/2023

08/08/2023

Designer: Adam T Frazier

08/08/2023

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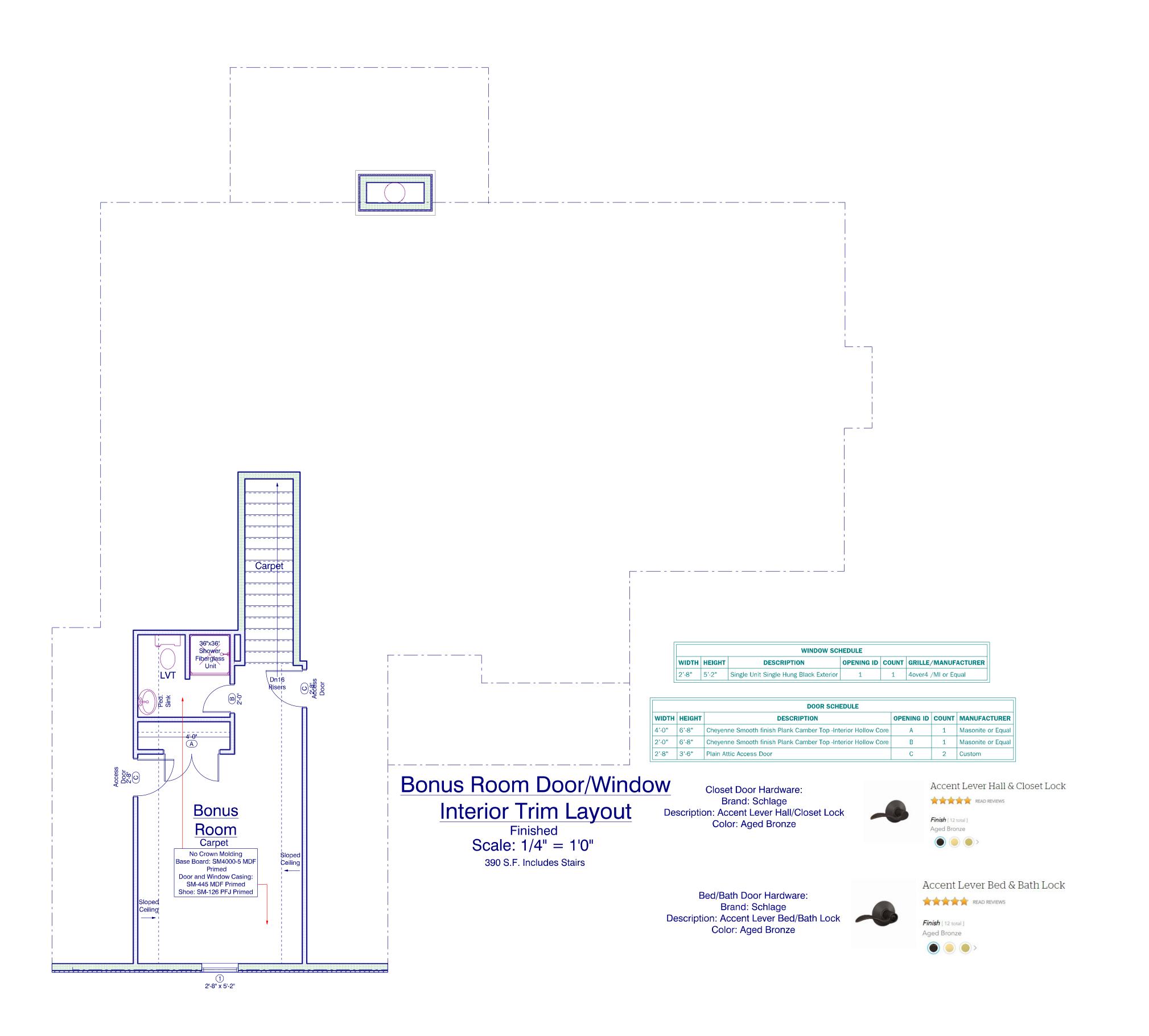
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Main Level Dr./Windows Int. Trim



# APPROVED BY

Builder: Ralphael Locklear

08/08/2023

Designer: Adam T Frazier
Owner:

08/08/2023

08/08/2023

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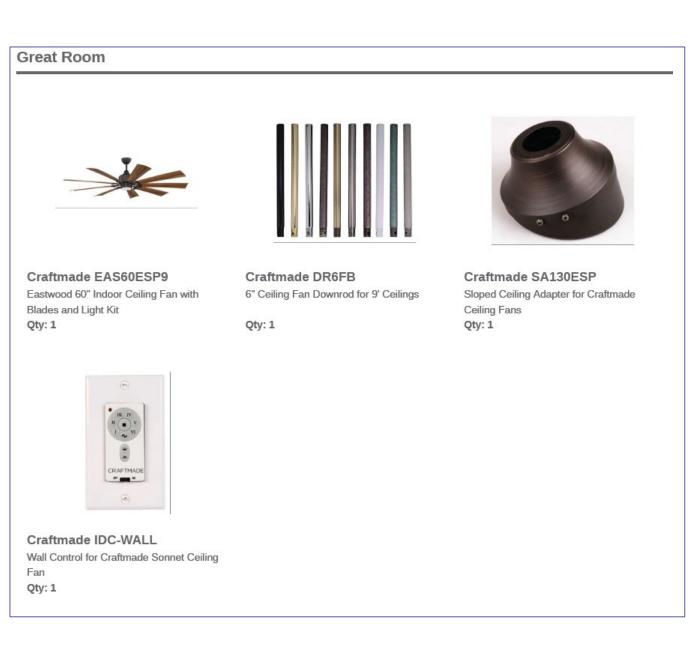
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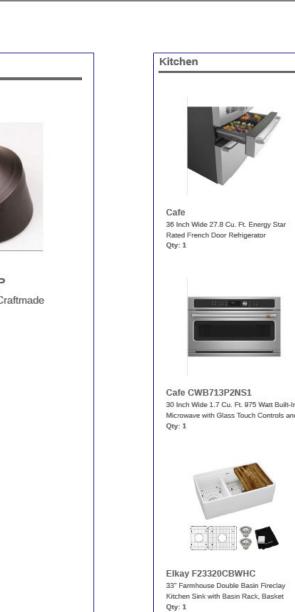
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**Bonus Room** Dr/Win. Int. Trim

SHEET

12



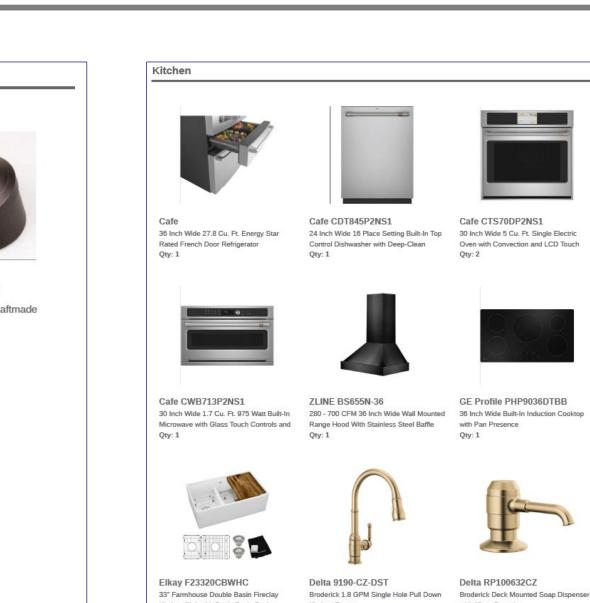


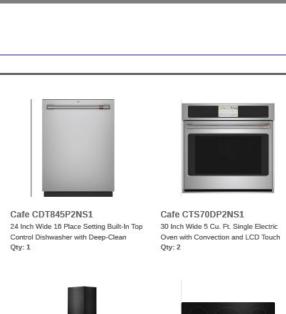
Covered Porch(Rear)

Craftmade P52SB5-52BWNFB

Pro Plus 52" 5 Blade Indoor Ceiling Fan

Qty: 1







Amerock BP36861CZ

Cabinet Pull

Covered Porch (Front)

Injection Septic Assist - Made in the USA UL Listed

Qty: 1

Destine 8-13/16 Inch Center to Center Bar Burry 13" Tall Outdoor Wall Sconce





Amerock BP36859CZ 3/4 HP Garbage Disposal with Bio-Charge Garbage Disposal Power Cord Kit 3 Feet Destine 5-1/16 Inch Center to Center Bar Cabinet Pull



Acclaim Lighting 1742ATB



Qty: 35

Millennium Lighting 3234-MG Ritner 4 Light 12" Wide Taper Candle



Delta R3500-WL

Delta R22000-WS

In with Three Port Diverter and Service

Two Handle Wall Mount Rough-In

Hinkley Lighting 51272BK

Easton 2 Light 15" Wide Bathroom Vanity

Master Bath



Delta 35775-BLMPU-DST

Stryke 1.2 GPM Widespread Bathroom

Faucet with Pop-Up Drain Assembly



Shower Hose Connection

Delta T5776-CZWL

Filler Trim - Less Rough In

Stryke Double Handle Wall Mounted Tub

Designer: Adam T Frazier 08/08/2023 Owner: Ani FM 08/08/2023

Builder: Ralphael Locklear

Signing Here Indicates Approval of All

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**DATE** 

08/08/2023

08/08/2023

SuperIntendent:

Delta 77608-BL

Stryke 8" Towel Bar

Qty: 2

**APPROVED BY** 

















Delta 55421-BL

Multichoice Shower Only Universal Rough 1.75 GPM Single Function Hand Shower Square Wall Supply Elbow for Hand

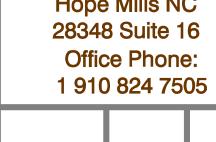
Package with H2Okinetic Technology -





Brizo RP74448BL





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Appliances **Fixtures** 

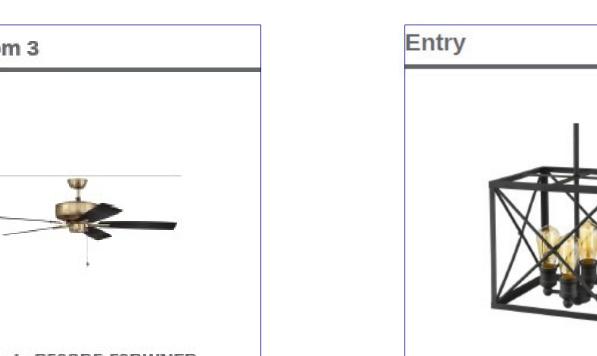
SHEET

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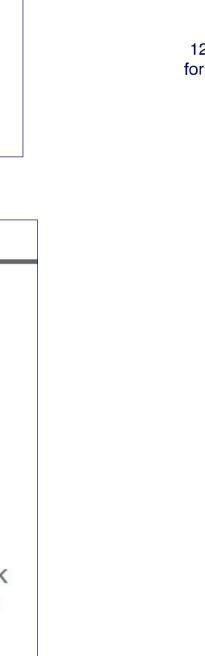
Millennium Lighting 2615-PBK Millennium Lighting 2616-PBK 11" Wide Outdoor Pendant 14" Wide Outdoor Flush Mount Square Ceiling Fixture Qty: 1 Qty: 1 **Dining Room** 

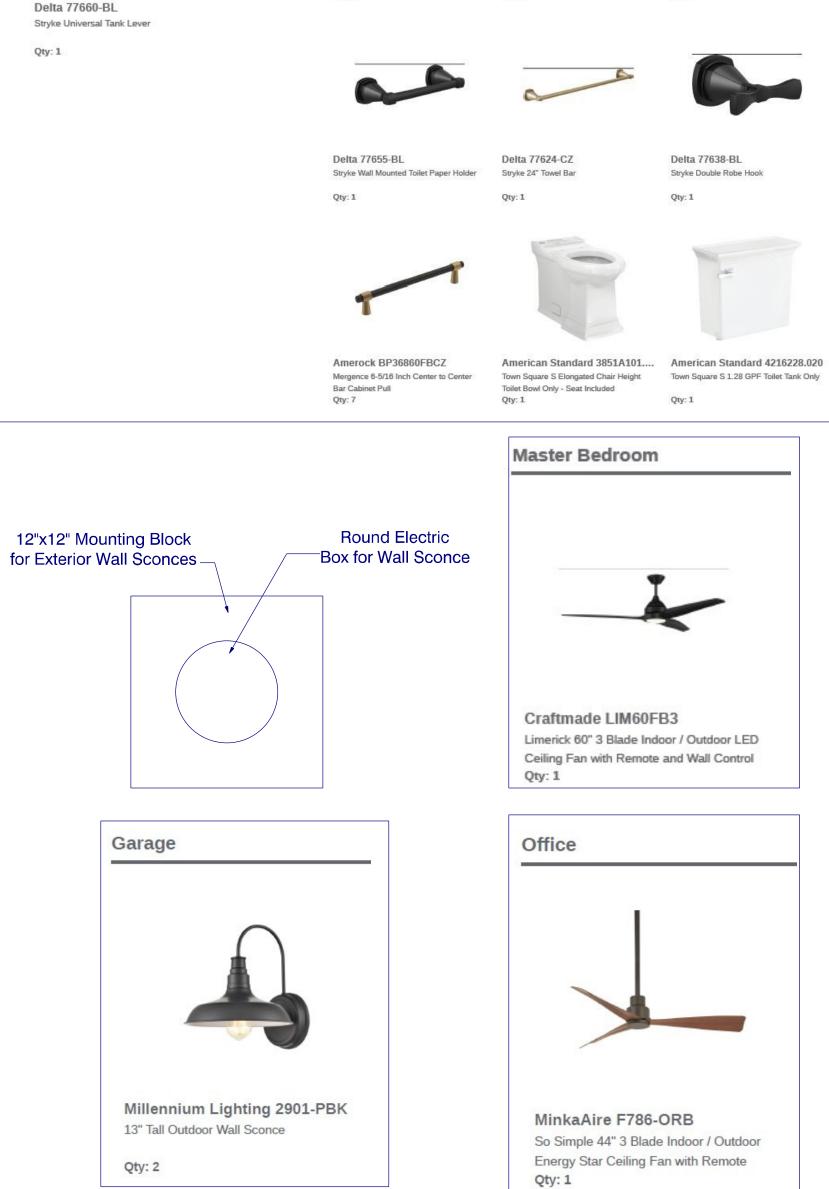


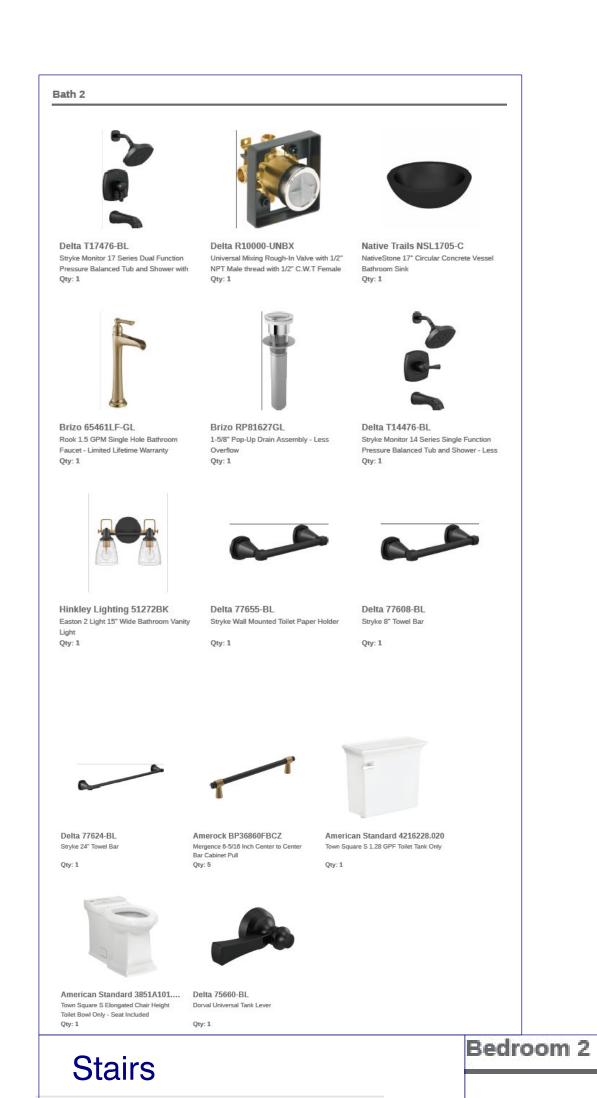
Acclaim Lighting IN21123BK Brooklyn 8 Light 39" Wide Large Chandelier Qty: 1









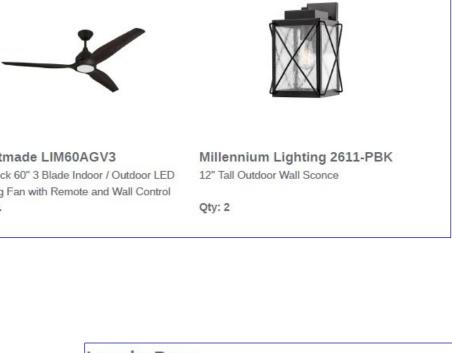


Acclaim Lighting IN41120BK

Brooklyn 10" Tall Wall Sconce

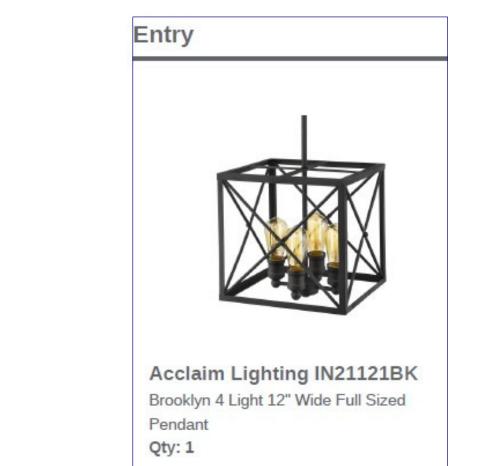
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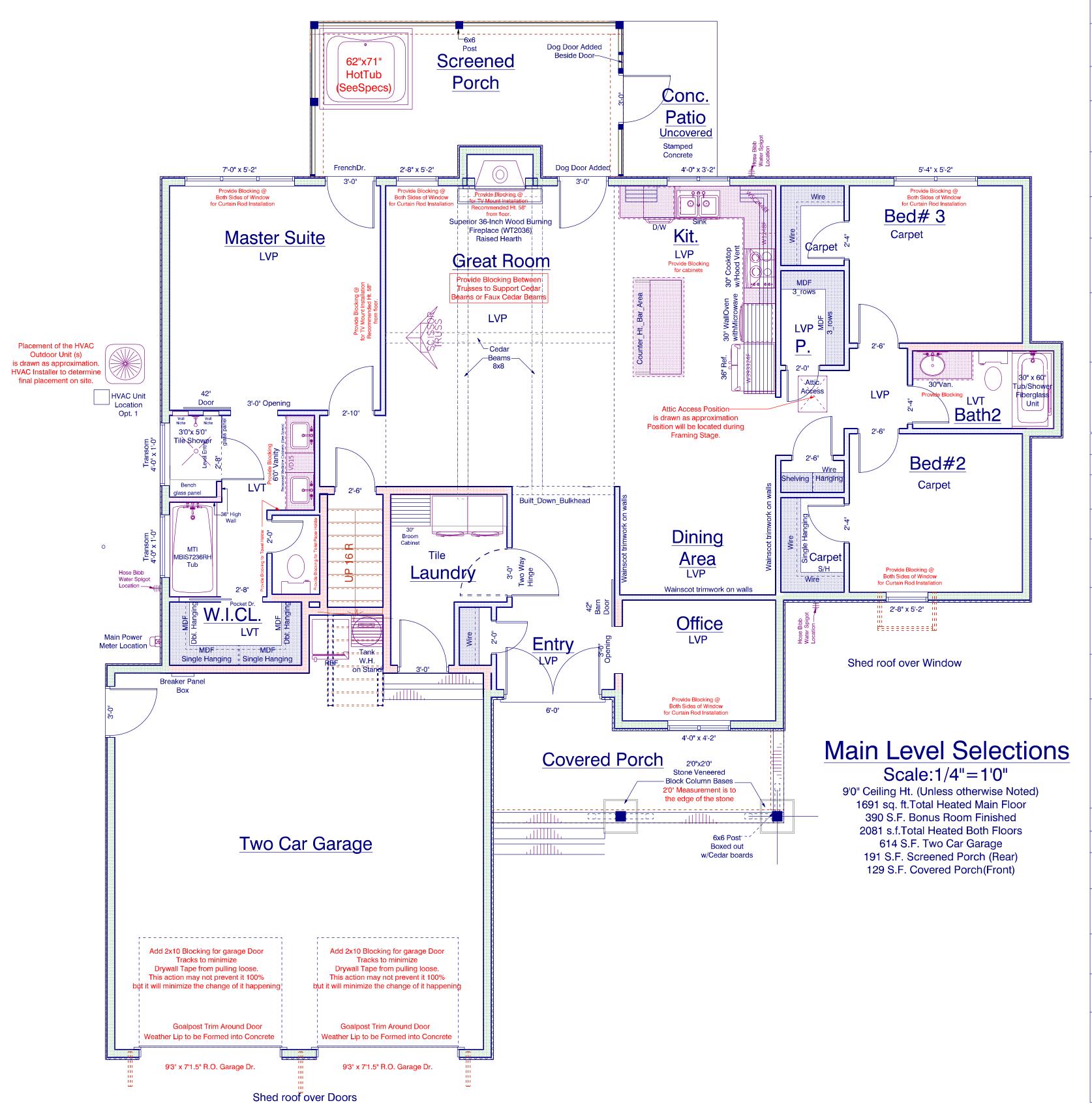


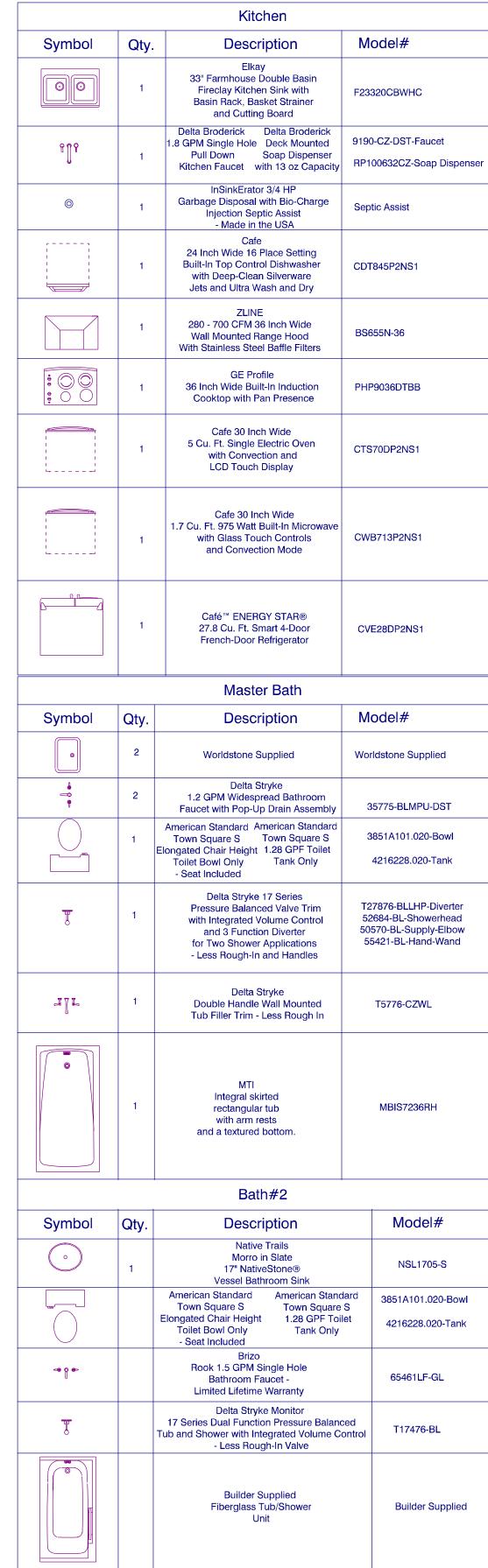












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Builder: Ralphael Locklear

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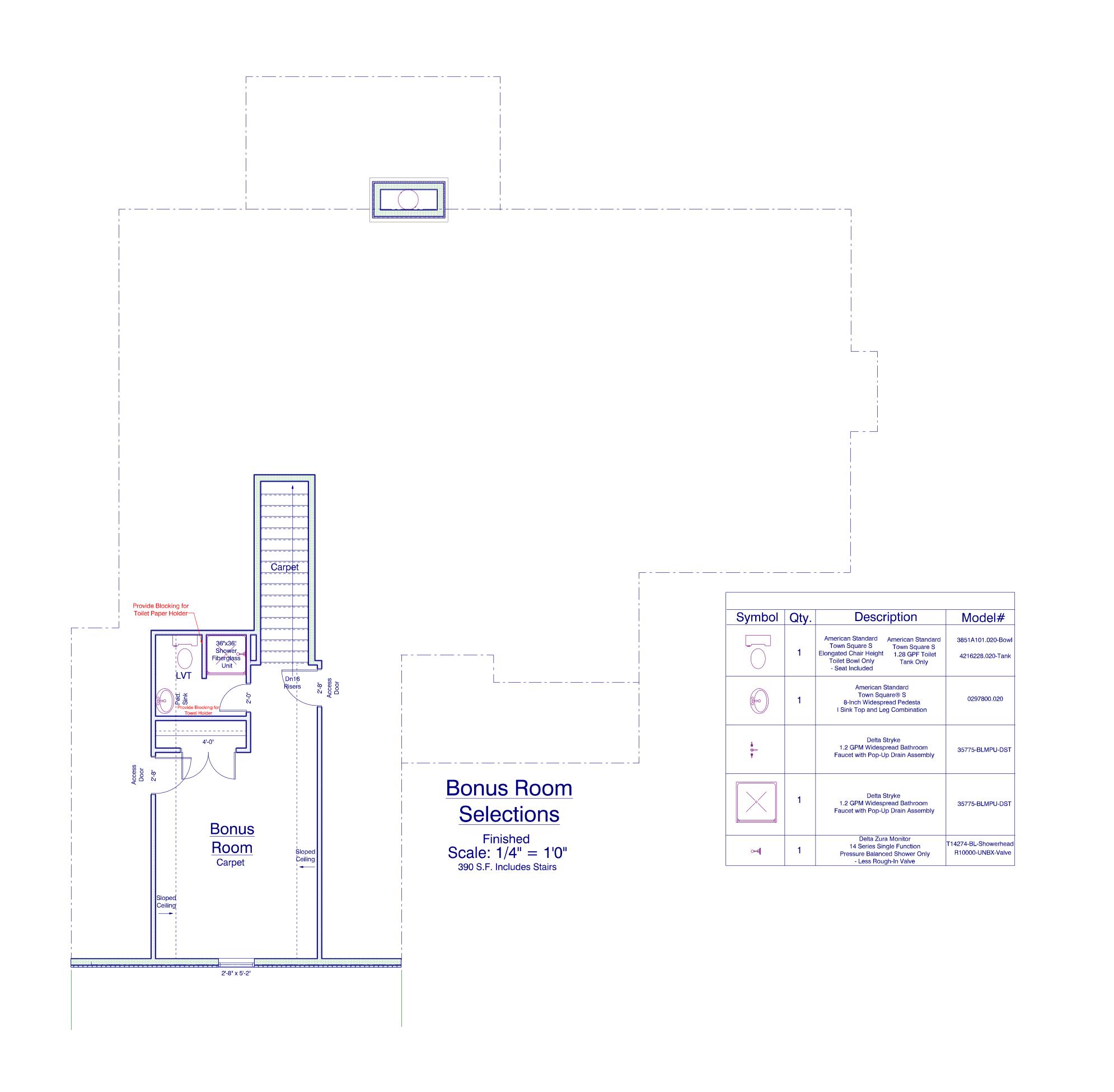
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MainLevel Selections

SHEET

14



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08/08/2023

Builder: Ralphael Locklear

Designer: Adam T Frazier

Owner: Anithe 08/08/2023

SuperIntendent:



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BonusRoom Selections



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Signer

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Signature

Ralphael Locklear

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Email: adam@southeasterngc.com IP Address: 173.94.92.61

Ralphael Locklear

Ralphael Locklear

Ralphael Locklear

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Adam T Frazier

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Email: jefleshman1@yahoo.com IP Address: 2600:6c60:5b7f:4cc2:58ba:b09e:c003:f5e2

Email: jefleshman1@yahoo.com IP Address: 2600:6c60:5b7f:4cc2:58ba:b09e:c003:f5e2 Adam T Frazier

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Adam T Frazier

Adam T Frazier

Adam T Frazier

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Email: texassmama@yahoo.com IP Address: 2600:6c60:5b7f:4cc2:b591:7872:1d54:256e

Event	User	Time	IP Address
Upload document	southeasterngc@gmail.com	8/8/23 2:54:56 PM EDT	173.94.92.61
Open document	southeasterngc@gmail.com	8/8/23 2:54:59 PM EDT	173.94.92.61
Sign document	southeasterngc@gmail.com	8/8/23 3:02:31 PM EDT	173.94.92.61
Close document	southeasterngc@gmail.com	8/8/23 3:02:31 PM EDT	173.94.92.61
Send for signing	southeasterngc@gmail.com	8/8/23 3:03:02 PM EDT	173.94.92.61
Open document	adam@southeasterngc.com	8/8/23 3:07:05 PM EDT	173.94.92.61
Sign document	adam@southeasterngc.com	8/8/23 3:07:53 PM EDT	173.94.92.61
Close document	adam@southeasterngc.com	8/8/23 3:07:53 PM EDT	173.94.92.61
Open document	texassmama@yahoo.com	8/8/23 3:17:22 PM EDT	2600:6c60:5b7f:4cc2:b591:78 72:1d54:256e
Open document	jefleshman1@yahoo.com	8/8/23 3:18:58 PM EDT	2600:6c60:5b7f:4cc2:58ba:b0 9e:c003:f5e2
Sign document	jefleshman1@yahoo.com	8/8/23 3:22:08 PM EDT	2600:6c60:5b7f:4cc2:58ba:b0 9e:c003:f5e2
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