

AGENDA

City of Hapeville

3468 North Fulton Avenue

Hapeville, Georgia 30354

Design Review Committee

June 19, 2019

6:00 PM

1. Welcome And Introduction

2. Approval Of Minutes

2.I. Design Review Committee Minutes: May 15, 2019

Documents:

[DRC MINUTES MAY 15, 2019.PDF](#)

3. Tia Muse/Brooke Fortenberry 3303 North Whitney Avenue

Documents:

[3303 NORTH WHITNEY AVENUE DRC APP.PDF](#)

4. Tia Muse/Brooke Fortenberry 3341 North Whitney Avenue

Documents:

[3341 NORTH WHITNEY AVENUE DRC APP.PDF](#)

5. Tia Muse/Brooke Fortenberry 3377 Lavista Drive

Documents:

[3377 LAVISTA DRIVE DRC APP.PDF](#)

6. Casey Busch 600 South Central Avenue

Documents:

[600 SOUTH CENTRAL AVENUE DRC APP.PDF](#)

7. Paula Smith 3365 Northside Drive

Documents:

[3365 NORTHSIDE DRIVE DRC APP.PDF](#)

8. Michael Miles 831 Custer Street

Documents:

[831 CUSTER STREET DRC APP.PDF](#)

9. New Business
10. Next Scheduled Meeting - Wednesday, July 17, 2019
11. Adjourn

Design Review Committee Meeting Minutes

May 15, 2019

I. Call to Order

Jonathan Love called to order the regular meeting of the Design Review Committee at 6:09 PM on May 15, 2019 in the Hapeville City Hall Conference Room.

II. Roll Call

Jonathan Love (Chairman) conducted a roll call. The following persons were present Rick Ferrero, John Stalvey (acting secretary) and Planner's Lynn Patterson and Michael Smith (non-voting).

III. Approval of Minutes

John Stalvey made a motion to approve the minutes from April 19, 2019. Rick Ferrero seconded, motion passed 3-0

IV. Applications

a) 232 Birch Street – Mariano Alvarado and Alexander Tapia attending

Rick Ferrero made a motion to approve the application with the following condition:

1. Top and bottom rail material and size must be compliant with requirements and must be painted or stained

John Stalvey seconded, motion passed 3-0

b) 632 South Central Avenue – Bianca Howard attending

Jonathan Love made a motion to approve the application with the condition that the paint meets standards identified in the Planner's Report and will include a topcoat or varnish that will guarantee a 5-year lifespan

Rick Ferrero seconded, motion passed 3-0

c) 3418 Dogwood Drive – Bianca Howard attending

Jonathan Love made a motion to approve the application with the condition that the paint meets the requirements identified in the Planner's Report, will include a topcoat or varnish that will guarantee a 5-year lifespan and that size requirements for the text portion of the mural doesn't exceed maximum size requirements

John Stalvey seconded, motion passed 3-0

d) 3472 Rainey Avenue – Tony McSwain attending

John Stalvey made a motion to approve the application with the following conditions:

1. Convert master bath area from 2' to a 1' offset and use board and batten on the exterior instead of stucco (reference home at 3388 Colville Avenue)
2. Chimney will stack and go to grade; Chimney height must meet requirements
3. Light to be located at front door
4. Roof shingle information must be provided and meet standards
5. Must include building numbers on plan
6. Gutter and downspout material must be provided and meet standards
7. Any exposed slab must have mock foundation
8. Add window to dining room area
9. Provide specifications on windows and must meet standards; glass must be recessed from façade

Design Exceptions:

10. A design exception will be made to allow PVC columns
11. An exception to be given to the porch width requirement; due to width of home and lot a driveway would not fit if porch extended further
12. A design exception given to allow for windowsill height less than 30"

Jonathan Love seconded, motion passed 3-0

e) Village Walk @ Hapeville – Scott Johnson and Trey Baltz attending

The site will eventually be subdivided and will be partial residential and partial commercial. As such, the residential and commercial will be split and include different standards and separate votes.

Residential

Jonathan Love made a motion to table the vote until such time that the applicant can correct several items on the plan to include the following:

1. The façade and roof form of the townhomes cannot be mirrored or repeating; it is suggested to add offsets in the units (no more than 3 per offset)
2. Mechanical features must be included and show screening
3. No GBG windows to be used; must provide window and window trim dimensions
4. Plans must include building numbers and a light next to the doors
5. Provide roof shingle warranty information that must meet standards
6. Roof overhang will be a minimum of 12" beyond façade

7. Provide a landscape plan that shows sidewalk connecting units to commercial area and each unit to the sidewalk to meet ADA requirements. Landscape plan must include details of the wall and screening to be used along the Central Avenue portion of the property

Design Exceptions:

8. A design exception will be provided to allow 26' width on driveway at request of Fire Marshal

Rick Ferrero seconded, motion passed 3-0

Commercial

Jonathan Love made a motion to table the vote until applicant can update items on the plan to include the following:

1. Building heights must be at least 24' tall
2. Provide building numbers on plan
3. Must include information on material and look of proposed screening wall along Central Avenue
4. Upgrade landscape plan to include street trees
5. Sidewalk shown on landscape plan must wrap from Colville side to rear parking area
6. Provide plans to include mechanical features and screening
7. Provide height and material of dumpster screening for all dumpsters
8. Provide pedestrian scale streetlights
9. Awnings must have square aluminum tubing frame
10. Commercial properties must use full depth brick

Design Exceptions:

11. Exception to allow for 5' sidewalk along Colville Avenue to allow for 6' width in parking area for safety concerns
12. An exception to not require hardscape along Colville Avenue frontage to allow for more plantings and maintain the park like feel that is desired
13. A design exception will be given to allow for a 26' driveway at the request of the Fire Marshal

Rick Ferrero seconded, motion passed 3-0

V. New Business

None

VI. Next Scheduled Meeting is Wednesday, June 19, 2019 at 6:00 PM

VII. Adjournment

Jonathan Love made a motion to adjourn, John Stalvey seconded.
Motion passed 3-0

Minutes submitted by: _____
John Stalvey, Acting Secretary

Minutes approved by: _____
Jonathan Love, Chairman



**DEPARTMENT OF PLANNING AND ZONING
PLANNER'S REPORT**

DATE: June 5, 2019
TO: Tonya Hutson
FROM: Lynn Patterson
RE: **Design Review – 3303 North Whitney Avenue**

BACKGROUND

The City of Hapeville has received a Design Review Application from Tia Muse and Brooke Fortenberry for the addition of solar panels to the roof of the existing building at 3303 North Whitney Avenue.

The property is zoned R-1, One-Family Detached, and is subject to the Neighborhood Conservation Area of the Architectural Design Standards.

CODE

(e) *Roof and chimney standards.*

1. Principal building roofs for one-family detached dwellings shall have a minimum usable life of thirty (30) years, per manufacturer's warranty.
2. Roof shingles shall be slate, cedar, or asphalt.
3. Roof tiles shall be clay, terra cotta or concrete.
4. Metal roofs are:
 - a. Permitted on one-family and two-family detached dwellings if approved by the design review committee; and
 - b. Permitted on multifamily and townhouse dwellings only when screened from the adjacent street by a parapet wall.
5. Gutters shall be copper, aluminum or galvanized steel.
6. Downspouts shall match gutters in material and finish.
7. Roof forms shall be based on architectural style.
8. All roofs, excluding dormers, shall overhang a minimum of 12 inches beyond the facade.
9. Dormers are permitted on all style homes (unless specified), but shall not be taller than the main roof to which they are attached.
10. Chimneys exposed to the public view may not be faced in wood or cement based siding and may not be of an exposed metal or ceramic pipe. All chimneys shall be wrapped in a brick, stone or suitable masonry finish material.
11. Chimneys on exterior building walls shall begin at grade.
12. Chimneys shall begin at grade and be faced with brick or stacked stone; extend chimneys between three and six feet above the roof line.

FINDINGS

The Architectural Design Standards do not provide guidance for the installation of roof-mounted solar panels. As solar panels are not directly allowed by the code, a Design Exception would be required.

CITY OF HAPEVILLE DESIGN REVIEW APPLICATION

SUBMITTAL DATE: May 15, 2019

NOTE: All applications must be typed or neatly printed. Applications or an authorized representative is required to personally appear at the Design Review Meeting to answer questions.

The Design Review Committee meets the third Wednesday of each month. Every attempt will be made to place your application for review on the next month's agenda following the submittal of a completed application with supporting documents; however, that may not always be possible. The City reserves the right to schedule applications as deemed necessary.

Applicant: Tia Muse/Brooke Fortenberry Contact Number: 770-485-7438

Applicants Address: 2931 Lewis St Ste 300 Kennesaw GA 30144

E-Mail Address: tia.muse@creativesolarusa.com Zoning Classification: _____

Address of Proposed Work: 3303 N Whitney Ave Hapeville GA 30354

Parcel ID# (INFORMATION MUST BE PROVIDED): 14 009800140271

Property Owner: Travis Horsley Contact Number: [REDACTED]

Project Description (including occupancy type): installing 4.80 kw of solar panels to rooftop

Contractors Name: Alan Carrier Contact Number: 678-779-6248

Contact Person: Tia Muse Contact Number: 770-485-7438

I hereby make application to the City of Hapeville, to the Design Review Committee for the above referenced property. I do hereby swear or affirm that the information provided here and above is true, complete and accurate, and I understand that any inaccuracies may be considered just cause for invalidation of this application and any action taken on this application. I understand that the City of Hapeville, Georgia, reserves that right to enforce any and all ordinances regardless of any action or approval on this application. I further understand that it is my/our responsibility to conform with all of City of Hapeville's Ordinances in full. I hereby acknowledge that all requirements of the City of Hapeville shall be adhered to. I can read and write the English language and/or this document has been read and explained to me and I have full and voluntarily completed this application. I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for violation thereof.

Tia Muse
Applicants Signature

5-6-19
Date

Project Class (check one):

☒ Residential ☐ Commercial ☐ Mixed-Use Development

Project Type:

☐ New Commercial Construction ☐ Addition to Existing Commercial Building

☐ Addition to Existing Residential Structure ☐ Accessory Structure

☐ Site Plan, Grading & Landscaping ☐ New Single Family Residential Construction

☒ Other - solar panels

Total Square Footage of proposed New Construction: _____

Total Square Footage of existing building: _____

Estimated Cost of Construction: \$12,480

List/Describe Building Materials on the exterior of the **existing** structure: _____

List/Describe Building Materials **proposed** for the exterior facade of the new structure: _____

(17) Hanwha Q-Cell solar panels (data sheet provided)

(17) Enphase IQ7-60-2-US microinverters (data sheet provided)

(1) Soladeck

Iron ridge mounting system (data sheet provided)

NOTICE

Please be advised that the Community Service Department is here to assist all applicants regarding application procedures, meeting schedules and necessary deadlines. The Community Service Department does **NOT** make any final decisions for the Design Review Committee, Sign Committee, Planning Commission, Board of Appeals or rezoning request to Mayor and Council.

A complete application must be submitted before the Community Service Department will accept an application and forward the same to the appropriate entity.

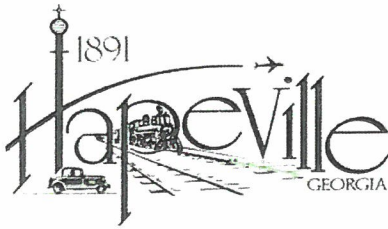
Building inspections issued by the City of Hapeville are contracted out to State of Georgia Certified Inspectors. These inspectors make the final decisions regarding building, electrical, plumbing and HVAC work completed in the City of Hapeville. The Hapeville Fire Marshal conducts inspections issued through the Community Services Department as needed. Both the Certified Inspectors and Fire Marshal make the final decisions before Certificates of Occupancy's are issued.

Please be advised that the Community Service Department shall not be responsible for your purchasing materials, equipment, items, signs, etc... before you receive final approval by any entity whose approval is required.

I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for a violation thereof.

(Please Print & Initial)

I Brooke Fortenberry BF swear or affirm that before receipt of an application, I have received this notice and I read and write the English language or I have had someone read and explain this document to me.



DEPARTMENT OF PLANNING AND ZONING

DESIGN REVIEW APPLICATION INSTRUCTIONS AND ACKNOWLEDGEMENT

I, the undersigned, agree that with my signature and submission to the City of Hapeville, I have done the following:

- ☒ Read the City of Hapeville's Architectural Design Guidelines and relevant Code sections for my proposed project. The Architectural Design Guidelines may be found here:
https://library.municode.com/ga/hapeville/codes/code_of_ordinances?nodeId=PTIICOOR_CH81ARDEST
- ☒ Ensured that my proposed project meets all of the required criteria per the City of Hapeville Code of Ordinances.
- ☒ Submitted my application materials in full by the published deadline for review by Staff prior to the Design Review Committee meeting.
- ☒ Identified and explained all deficiencies or components of the proposed project that do not meet with the requirements set forth in the Code. This explanation should be submitted as a separate document in the application.
- ☒ Understood that any deficiencies in the application must be resolved at least 10 days prior to the Design Review Committee meeting or the application may not be presented to the DRC for review.
- ☒ Submitted architectural drawings and details for all projects unless allowed in writing by the Community Services or Planning & Zoning Department.
- ☒ Agreed to submit any required revisions by the Design Review Committee with updated drawings to the Community Services Department for review prior to requesting any permits.

<u>Tia Muse</u>	<u>Tia Muse</u>	<u>5-6-19</u>
Printed Name	Signature	Date

Should you have any questions, please do not hesitate to contact the Community Services Department at 404-669-2120.

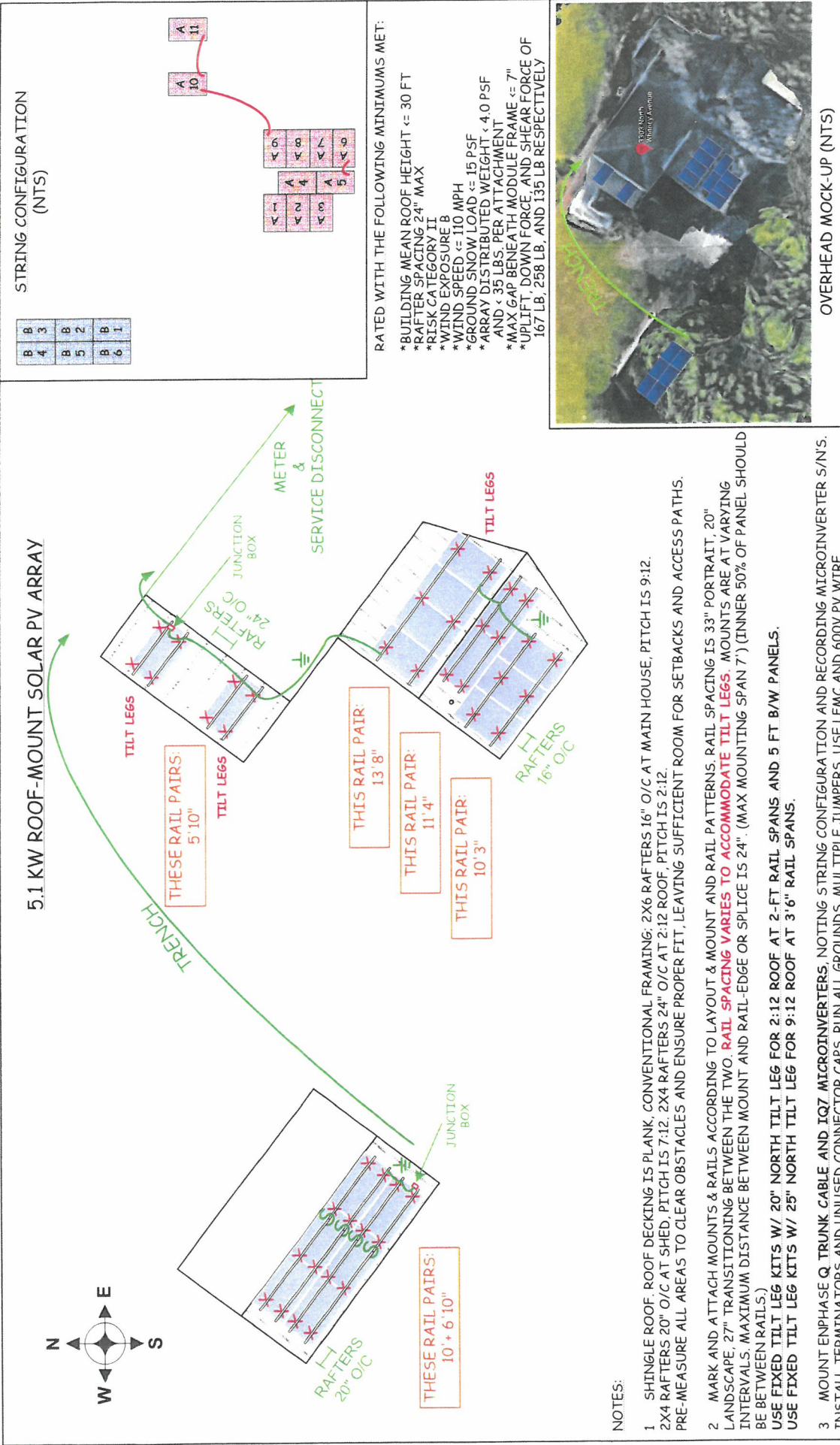
Thank you for interest and investment in the City of Hapeville.

Google Maps 3308 N Whitney Ave



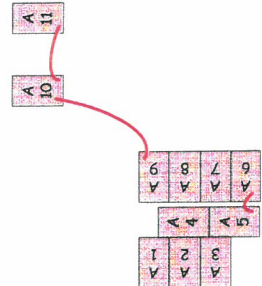
Image capture: Sep 2018 © 2019 Google

Hapeville, Georgia
Google
Street View - Sep 2018



STRING CONFIGURATION (NTS)

B	B
4	3
B	B
5	2
B	B
6	1



RATED WITH THE FOLLOWING MINIMUMS MET:

- *BUILDING MEAN ROOF HEIGHT $\leq$ 30 FT
- *RAFTER SPACING 24" MAX
- *RISK CATEGORY II
- *WIND EXPOSURE B
- *WIND SPEED $\leq$ 110 MPH
- *GROUND SNOW LOAD $\leq$ 15 PSF
- *ARRAY DISTRIBUTED WEIGHT $\leq$ 4.0 PSF AND $\leq$ 35 LBS PER ATTACHMENT
- *MAX GAP BENEATH MODULE FRAME $\leq$ 7"
- *UPLIFT, DOWN FORCE, AND SHEAR FORCE OF 167 LB, 258 LB, AND 135 LB RESPECTIVELY



OVERHEAD MOCK-UP (NTS)

Creative Solar USA, Inc.

2931 Lewis Street
Kennesaw, Ga 30144
Russell Seifert: 770-378-9668
www.creativesolarusa.com

TITLE:	5.1 KW ROOF-MOUNT SOLAR PV ARRAY
CUSTOMER:	TRAVIS HORSLEY
ADDRESS:	3303 N WHITNEY AVE, HAPEVILLE, GA 30354
SCALE:	1" = 12' (OUTPUT: 8.5 X 11 LANDSCAPE)
PAGE:	1 OF 1
DATE:	01-27-2019
ENG/DRA:	REG

REVISIONS		
DATE	DESCRIPTION	BY
01/27/19	PROPOSAL v1	REG

CERTIFIED Solar PV

Richard Gale

NABCEP Certified Solar PV Installer™

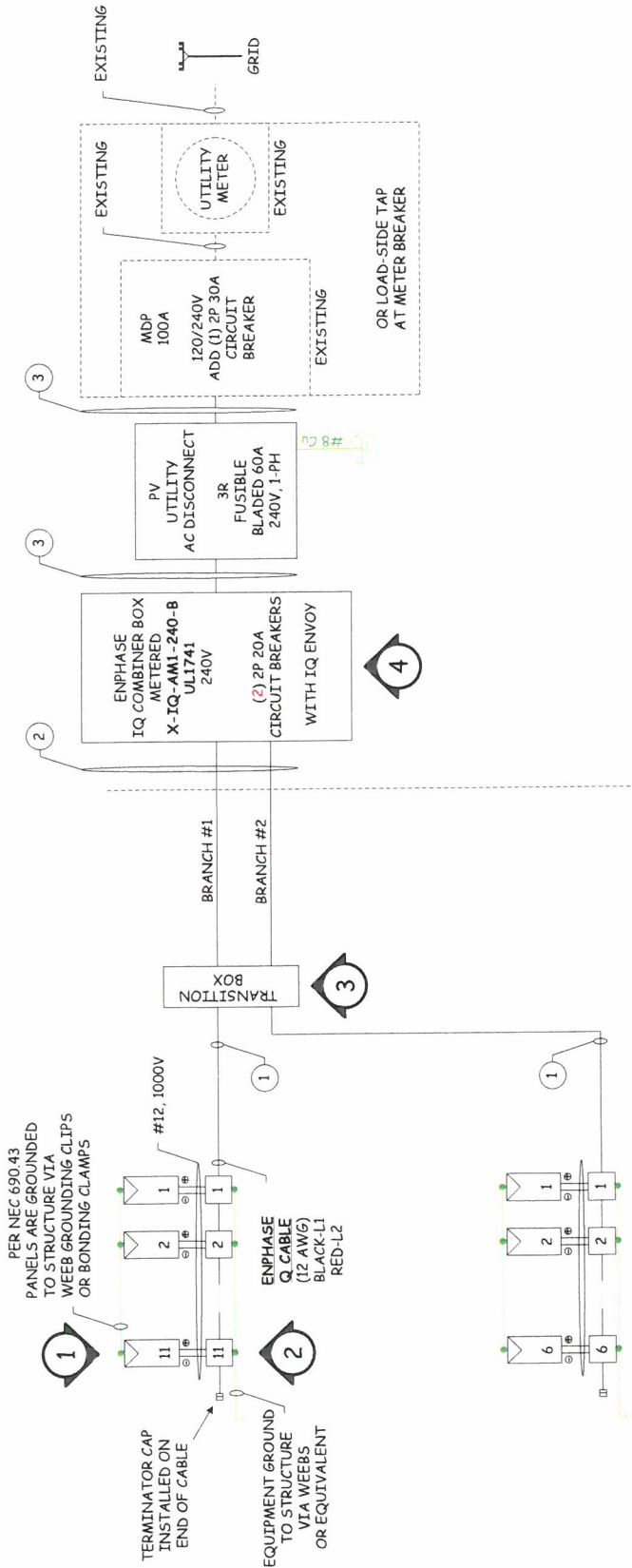
Certification No.: PV 032611-117

1"

12"

1"

5.1 KW DC PV ARRAY - SINGLE-LINE ELECTRICAL



CONDUIT AND WIRE SCHEDULE	
# OF RUN	CONDUIT
1	N/A
2	IMC
3	IMC

DESCRIPTION	
#12 Q CABLE (ENPHASE)	
(4) - #10 XHHW, (1) - #8 XHHW GND	
#8 4-WIRE	

CONDUIT	
N/A	
IMC	
IMC	

DESCRIPTION	
#12 Q CABLE (ENPHASE)	
(4) - #10 XHHW, (1) - #8 XHHW GND	
#8 4-WIRE	

CONDUIT	
N/A	
IMC	
IMC	

DESCRIPTION	
#12 Q CABLE (ENPHASE)	
(4) - #10 XHHW, (1) - #8 XHHW GND	
#8 4-WIRE	

CONDUIT	
N/A	
IMC	
IMC	

DESCRIPTION	
#12 Q CABLE (ENPHASE)	
(4) - #10 XHHW, (1) - #8 XHHW GND	
#8 4-WIRE	

CONDUIT	
N/A	
IMC	
IMC	

CREATIVE SOLAR USA, INC.

2931 Lewis Street
Kennesaw, Ga 30144
Russell Seifert: 770-378-9668
www.creativesolarusa.com

TITLE	
5.1 KW DC PV ARRAY - SINGLE-LINE ELECTRICAL	
CUSTOMER	
TRAVIS HORSLEY	
ADDRESS	
3303 N WHITNEY AVE, HAPEVILLE, GA 30354	
SCALE	
NONE	
PAGE	
1 OF 1	
DATE	
01-27-2019	
ENG/DRA	
REG	



Q.PEAK BLK-G4.1 290-300

Q.ANTUM SOLAR MODULE

With its top performance and completely black design the new **Q.PEAK BLK-G4.1** is the ideal solution for all residential rooftop applications thanks to its innovative cell technology **Q.ANTUM**. The world-record cell design was developed to achieve the best performance under real conditions – even with low radiation intensity and on clear, hot summer days.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 18.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti-PID technology, Hot-Spot-Protect and Traceable Quality Tra-Q™.



EXTREME WEATHER RATING

High tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



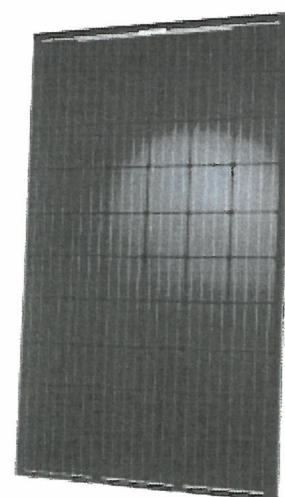
MAXIMUM COST REDUCTIONS

Up to 10% lower logistics costs due to higher module capacity per box.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee.



THE IDEAL SOLUTION FOR:



Residential buildings

Engineered in Germany

Anti-PID technology (APIT) with a fully applied grounded, with conductive polymer covered module surface, 20% DC leakage.
See data sheet on rear for further information.

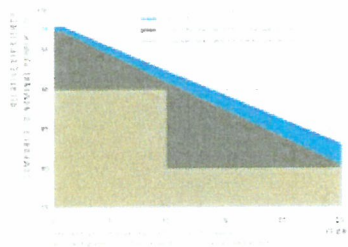
Q CELLS

Format	65.7 (in) 39.4 (in) x 1.26 (in) including frame 1654 (mm) x 1000 (mm) x 32 (mm)
Weight	41.4 (lbs) 18.8 (kg)
Front Cover	3.0 mm (0.29 in) thermally prestressed glass w/ anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 x 10 monocrystalline Q-ANTUM solar cells
Junction box	6 pin 4 (0.16 in) x 2.7 (0.106 in) x 0.05 (0.002 in) 44.77 mm x 11.94 mm x 1.27 (0.5 in) Protection class IP67 with bypass diodes
Cable	4 mm Solar cable, 1 x 2 (0.39, 0.7 in) 1000 (mm) 4 x 39.37 in 1000 (mm)
Connector	Multi-Contact MC4 or MC4 compatible IP68

ELECTRICAL CHARACTERISTICS

POWER CLASS			780	795	800
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS (STEP POWER TOLERANCE $\pm 5\%$ / $\pm 0.5\%$)					
Minimum	Power at MPP*	P_{MPP} (W)	290	295	300
	Short Circuit Current*	I_{SC} (A)	9.63	9.78	9.92
	Open Circuit Voltage*	V_{OC} (V)	39.13	39.48	39.76
	Current at MPP*	I_{MPP} (A)	9.07	9.13	9.26
	Voltage at MPP*	V_{MPP} (V)	31.95	32.19	32.41
	Efficiency†	η (%)	17.4	17.7	18.0
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS (NOC)					
Minimum	Power at MPP*	P_{MPP} (W)	214.4	218.1	221.8
	Short Circuit Current*	I_{SC} (A)	7.33	7.52	7.68
	Open Circuit Voltage*	V_{OC} (V)	26.85	26.92	27.13
	Current at MPP*	I_{MPP} (A)	5.12	5.20	5.27
	Voltage at MPP*	V_{MPP} (V)	30.12	30.30	30.49

Q CELLS PERFORMANCE WARRANTY



- At least 40% of normal power during 1st year
- Thereafter, up to 25% thereafter per year
- At least 32% of normal power up to 100 years
- At least 8% of normal power up to 250 years

PERFORMANCE AT LOW IRRADIANCE

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{sc}	α	(%/K)	-0.04	Temperature Coefficient of V_{oc}	β	(%/K)	-0.08
Temperature Coefficient of P_{max}	γ	(%/K)	-0.50	Normal Operating Cell Temperature	NOCT	(°F)	113 ± 5, 41 ± 3 (°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{sys}	[V]	1000 (IEC) / 1000 (UL)	Safety Class	1
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	0 (IEC) / TYPE 2 (UL)
Design load, push (UL)	[lbs/ft ²]	75 (IEC) / 50	Permitted module temperature on continuous duty	40 °C up to 145 °F 140 °C up to 285 °F
Design load, pull (UL)	[lbs/ft ²]	35.5 (IEC) / 50	See installation manual	

QUALIFICATIONS AND CERTIFICATES

[illegible]

PACKAGING INFORMATION

Number of Modules per Pallet	32
Number of Pallets per 53' Container	30
Number of Pallets per 40' Container	24
Pallet Dimensions (L x W x H)	48" L x 45" W x 46" H 1219 mm x 1143 mm x 1168 mm
Pallet Weight	143 lbs (64.8 kg)

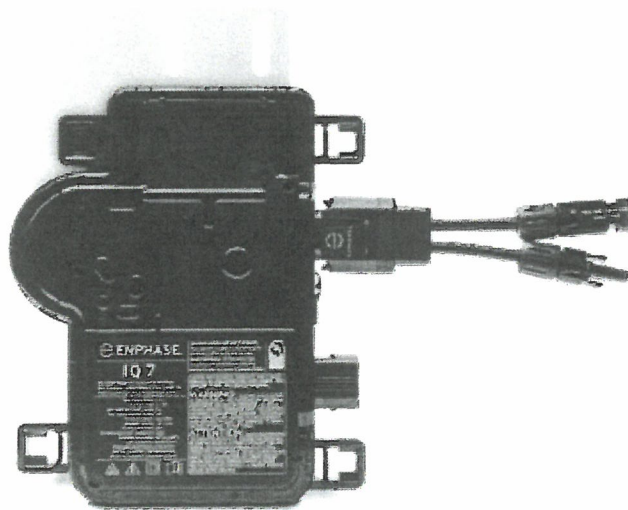
Harwin Q CELLS America Inc. 400 North 1st Avenue, Suite 1000, Phoenix, AZ 85004, USA www.qcells.com **TEL** +1 602 258 5900 **FAX** +1 602 258 5900 **EMAIL** info@qcells.com **WEB** www.qcells.com

Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2011 & 2017)

Productive and Reliable

- Optimized for high-powered 60-cell and 72-cell modules
- More than a million hours of testing
- Class I, double-insulated enclosure
- UL-listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

- The IQ 7+ Micro is designed to support 72-cell modules.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)		IQ 7-60-2-US / IQ 7-60-B-US		IQ7PLUS-72-2-US / IQ7PLUS-72-B-US	
Commonly used module pairings ¹		235 W - 350 W +		235 W - 440 W +	
Module compatibility		60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage		48 V		60 V	
Peak power tracking voltage		27 V - 37 V		27 V - 45 V	
Operating range		16 V - 48 V		16 V - 60 V	
Min/Max start voltage		22 V - 45 V		22 V - 60 V	
Max DC short circuit current (module Isc)		15 A		15 A	
Overvoltage class DC port		II		I	
DC port backfeed current		0 A		0 A	
PV array configuration		1 x 1 ungrounded array. No additional DC side protection required. AC side protection ignores max 20A per branch circuit.			
OUTPUT DATA (AC)		IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power		250 VA		295 VA	
Maximum continuous output power		240 VA		240 VA	
Nominal (L-L) voltage/range ²		240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current		1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency		60 Hz		60 Hz	
Extended frequency range		47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles		5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit		16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port		III		III	
AC port backfeed current		0 A		0 A	
Power factor setting		1.0		1.0	
Power factor (adjustable)		0.85 leading	0.85 lagging	0.85 leading	0.85 lagging
EFFICIENCY		@240 V	@208 V	@240 V	@208 V
Peak efficiency		97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency		97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA					
Ambient temperature range		-40°C to +65°C			
Relative humidity range		4% to 100% (condensing)			
Connector type (IQ 7-60-2-US & IQ7PLUS-72-2-US)		MC4 (or Amphenol H4 UTX with additional Q-DCC-S adapter)			
Connector type (IQ7-60-B-US & IQ7PLUS-72-B-US)		Friends PV2 (MC4 interchangeable) Adapters for modules with MC4 or UTX connectors: PV2 to MC4 - order ECA-523-S27 PV2 to UTX - order LCA-520-S25			
Dimensions (WxHxD)		212 mm x 175 mm x 30.2 mm (without bracket)			
Weight		1.08 kg (2.38 lbs)			
Cooling		Natural convection - No fans			
Approved for wet locations		Yes			
Pollution degree		PD3			
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating		NEMA Type 6 / outdoor			

FEATURES

To learn more about Enphase offerings, visit enphase.com





Roof Mount System



Built for solar's toughest roofs.

IronRidge builds the strongest roof mounting system in solar. Every component has been tested to the limit and proven in extreme environments.

Our rigorous approach has led to unique structural features, such as curved rails and reinforced flashings, and is also why our products are fully certified, code compliant and backed by a 20-year warranty.



Strength Tested

All components evaluated for superior structural performance.



PE Certified

Pre-stamped engineering letters available in most states.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof.



Design Software

Online tool generates a complete bill of materials in minutes.



Integrated Grounding

UL 2703 system eliminates separate module grounding components.



20 Year Warranty

Twice the protection offered by competitors.

XR Rails

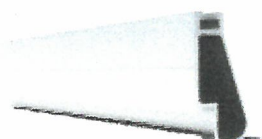
XR10 Rail



A low-profile mounting rail for regions with light snow.

- 6' spanning capability
- Moderate load capability
- Clear & black anod. finish

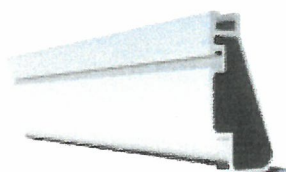
XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear & black anod. finish

XR1000 Rail



A heavyweight mounting rail for commercial projects.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish

Internal Splices

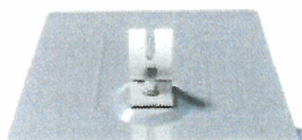


All rails use internal splices for seamless connections.

- Self-tapping screws
- Varying versions for rails
- Grounding Straps offered

Attachments

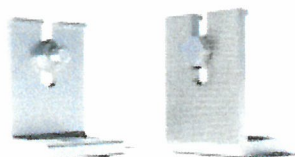
FlashFoot



Anchor, flash, and mount with all-in-one attachments.

- Ships with all hardware
- IBC & IRC compliant
- Certified with XR Rails

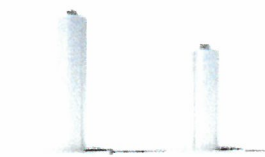
Slotted L-Feet



Drop-in design for rapid rail attachment.

- High-friction serrated face
- Heavy-duty profile shape
- Clear & black anod. finish

Standoffs



Raise flush or tilted systems to various heights.

- Works with vent flashing
- Ships pre-assembled
- 4" and 7" Lengths

Tilt Legs

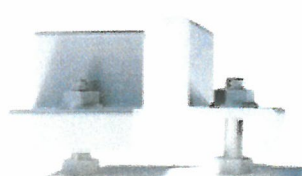


Tilt assembly to desired angle, up to 45 degrees.

- Attaches directly to rail
- Ships with all hardware
- Fixed and adjustable

Clamps & Grounding

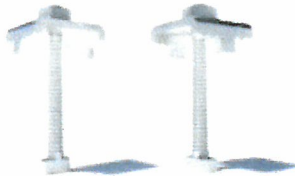
End Clamps



Slide in clamps and secure modules at ends of rails.

- Mill finish & black anod.
- Sizes from 1.22" to 2.3"
- Optional Under Clamps

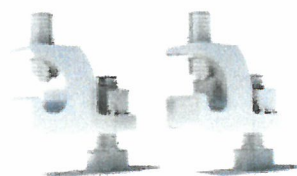
Grounding Mid Clamps



Attach and ground modules in the middle of the rail.

- Parallel bonding T-bolt
- Reusable up to 10 times
- Mill & black stainless

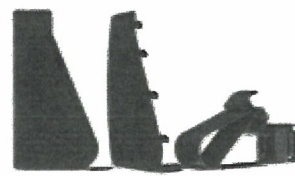
T-Bolt Grounding Lugs



Ground system using the rail's top slot.

- Easy top-slot mounting
- Eliminates pre-drilling
- Swivels in any direction

Accessories



Provide a finished and organized look for rails.

- Snap-in Wire Clips
- Perfected End Caps
- UV-protected polymer

Free Resources



Design Assistant

Go from rough layout to fully engineered system. For free.

[Go to IronRidge.com/rm](http://GoToIronRidge.com/rm)



NABCEP Certified Training

Earn free continuing education credits, while learning more about our systems.

[Go to IronRidge.com/training](http://GoToIronRidge.com/training)



**DEPARTMENT OF PLANNING AND ZONING
PLANNER'S REPORT**

DATE: June 5, 2019
TO: Tonya Hutson
FROM: Lynn Patterson
RE: **Design Review – 3341 North Whitney Avenue**

BACKGROUND

The City of Hapeville has received a Design Review Application from Tia Muse and Brooke Fortenberry for the addition of solar panels to the roof of the existing building at 3341 North Whitney Avenue.

The property is zoned R-1, One-Family Detached, and is subject to the Neighborhood Conservation Area of the Architectural Design Standards.

CODE

(e) *Roof and chimney standards.*

1. Principal building roofs for one-family detached dwellings shall have a minimum usable life of thirty (30) years, per manufacturer's warranty.
2. Roof shingles shall be slate, cedar, or asphalt.
3. Roof tiles shall be clay, terra cotta or concrete.
4. Metal roofs are:
 - a. Permitted on one-family and two-family detached dwellings if approved by the design review committee; and
 - b. Permitted on multifamily and townhouse dwellings only when screened from the adjacent street by a parapet wall.
5. Gutters shall be copper, aluminum or galvanized steel.
6. Downspouts shall match gutters in material and finish.
7. Roof forms shall be based on architectural style.
8. All roofs, excluding dormers, shall overhang a minimum of 12 inches beyond the facade.
9. Dormers are permitted on all style homes (unless specified), but shall not be taller than the main roof to which they are attached.
10. Chimneys exposed to the public view may not be faced in wood or cement based siding and may not be of an exposed metal or ceramic pipe. All chimneys shall be wrapped in a brick, stone or suitable masonry finish material.
11. Chimneys on exterior building walls shall begin at grade.
12. Chimneys shall begin at grade and be faced with brick or stacked stone; extend chimneys between three and six feet above the roof line.

FINDINGS

The Architectural Design Standards do not provide guidance for the installation of roof-mounted solar panels. As solar panels are not directly allowed by the code, a Design Exception would be required.

CITY OF HAPEVILLE DESIGN REVIEW APPLICATION

SUBMITTAL DATE: May 15, 2019

NOTE: All applications must be typed or neatly printed. Applications or an authorized representative is required to personally appear at the Design Review Meeting to answer questions.

The Design Review Committee meets the third Wednesday of each month. Every attempt will be made to place your application for review on the next month's agenda following the submittal of a completed application with supporting documents; however, that may not always be possible. The City reserves the right to schedule applications as deemed necessary.

Applicant: Tia Muse / Brooke Fortenberry Contact Number: 770-485-7438

Applicants Address: 2931 Lewis St. Ste 300 Kennesaw GA 30144

E-Mail Address: tia.muse@creative.solar.usa.com Zoning Classification: _____

Address of Proposed Work: 3341 N Whitney Ave Hapeville GA 30354

Parcel ID# (INFORMATION MUST BE PROVIDED): 14009800150122

Property Owner: Marcus Fellingham Contact Number: [REDACTED]

Project Description (including occupancy type): Installing 5.90 KW
of solar panels to rooftop

Contractors Name: Alan Carrier Contact Number: 678-779-6248

Contact Person: Tia Muse Contact Number: 770-485-7438

I hereby make application to the City of Hapeville, to the Design Review Committee for the above referenced property. I do hereby swear or affirm that the information provided here and above is true, complete and accurate, and I understand that any inaccuracies may be considered just cause for invalidation of this application and any action taken on this application. I understand that the City of Hapeville, Georgia, reserves that right to enforce any and all ordinances regardless of any action or approval on this application. I further understand that it is my/our responsibility to conform with all of City of Hapeville's Ordinances in full. I hereby acknowledge that all requirements of the City of Hapeville shall be adhered to. I can read and write the English language and/or this document has been read and explained to me and I have full and voluntarily completed this application. I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for violation thereof.

Tia Muse
Applicants Signature

5-6-19
Date

Project Class (check one):

☒ Residential ☐ Commercial ☐ Mixed-Use Development

Project Type:

☐ New Commercial Construction ☐ Addition to Existing Commercial Building
☐ Addition to Existing Residential Structure ☐ Accessory Structure
☐ Site Plan, Grading & Landscaping ☐ New Single Family Residential Construction
☒ Other Solar Panels

Total Square Footage of proposed New Construction: _____

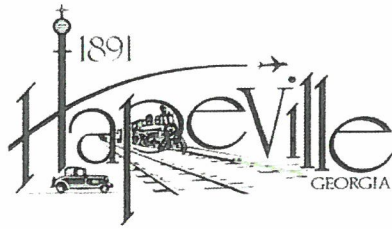
Total Square Footage of existing building: _____

Estimated Cost of Construction: \$15,250

List/Describe Building Materials on the exterior of the **existing** structure: _____

List/Describe Building Materials **proposed** for the exterior facade of the new structure: _____

(20) Hanwha Q-Cells solar panels (data sheet provided)
(20) Enphase IQ-7-60-2-US micro inverters (data sheet provided)
(1) solar deck
Iron ridge mounting system (data sheet provided)



DEPARTMENT OF PLANNING AND ZONING

DESIGN REVIEW APPLICATION INSTRUCTIONS AND ACKNOWLEDGEMENT

I, the undersigned, agree that with my signature and submission to the City of Hapeville, I have done the following:

- ☒ Read the City of Hapeville's Architectural Design Guidelines and relevant Code sections for my proposed project. The Architectural Design Guidelines may be found here:
https://library.municode.com/ga/hapeville/codes/code_of_ordinances?nodeId=PTIICOOR_CH81ARDEST
- ☒ Ensured that my proposed project meets all of the required criteria per the City of Hapeville Code of Ordinances.
- ☒ Submitted my application materials in full by the published deadline for review by Staff prior to the Design Review Committee meeting.
- ☒ Identified and explained all deficiencies or components of the proposed project that do not meet with the requirements set forth in the Code. This explanation should be submitted as a separate document in the application.
- ☒ Understood that any deficiencies in the application must be resolved at least 10 days prior to the Design Review Committee meeting or the application may not be presented to the DRC for review.
- ☒ Submitted architectural drawings and details for all projects unless allowed in writing by the Community Services or Planning & Zoning Department.
- ☒ Agreed to submit any required revisions by the Design Review Committee with updated drawings to the Community Services Department for review prior to requesting any permits.

<u>Tia Muse</u>	<u>Tia Muse</u>	<u>5-6-19</u>
Printed Name	Signature	Date

Should you have any questions, please do not hesitate to contact the Community Services Department at 404-669-2120.

Thank you for interest and investment in the City of Hapeville.

Google Maps 3341 N Whitney Ave

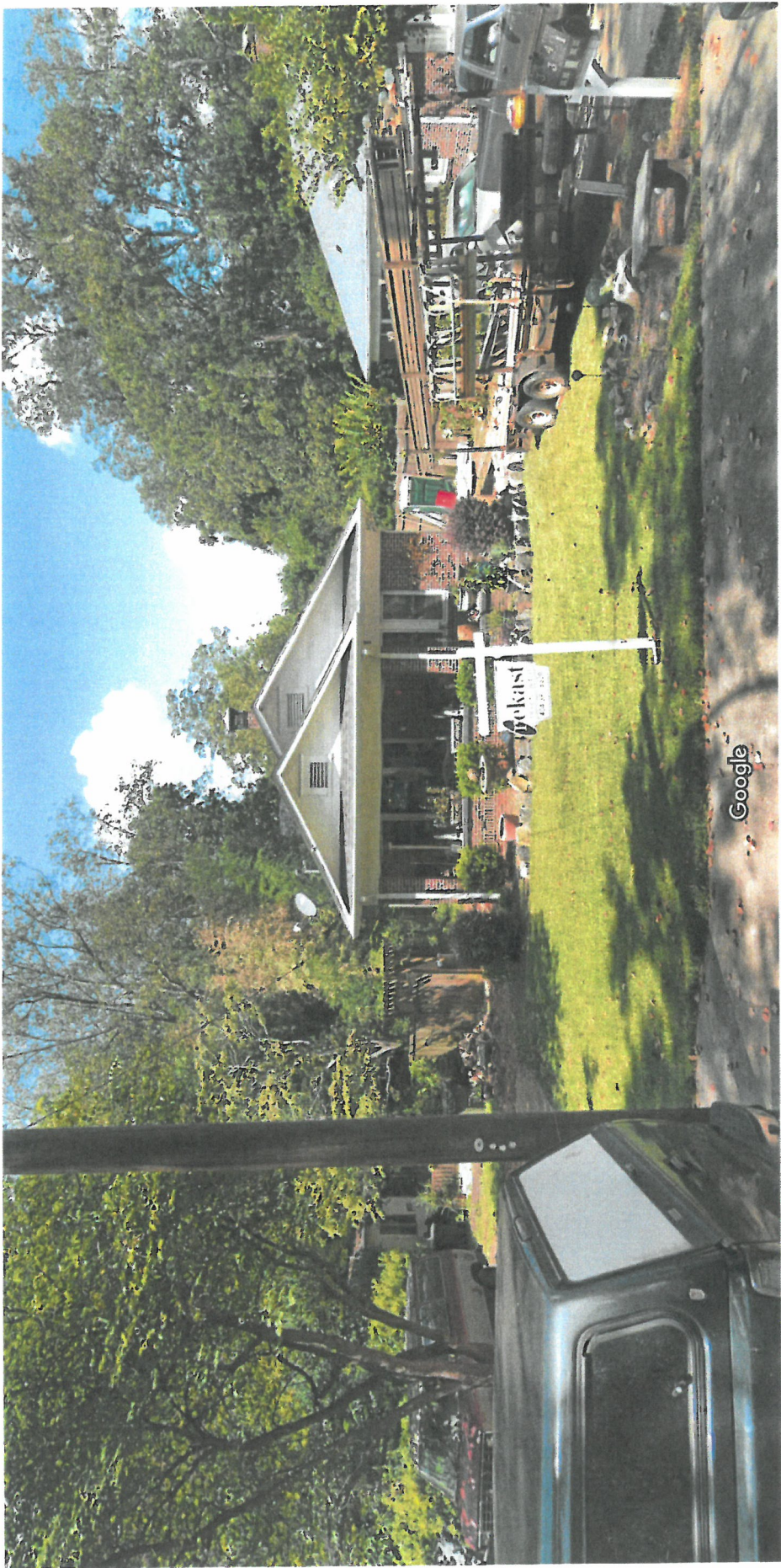
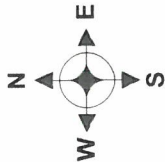


Image capture: Sep 2018 © 2019 Google

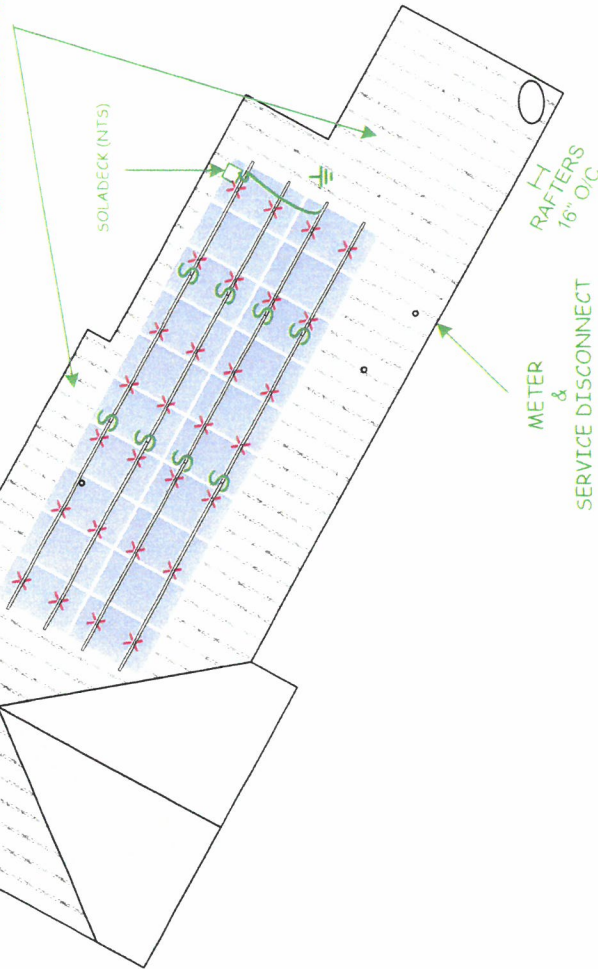
Hapeville, Georgia
Google
Street View - Sep 2018

5.9 KW ROOF-MOUNT SOLAR PV ARRAY



RAIL PAIRS:
14' + 11' + 8' 6"

3-FT MAIN RIDGE SETBACK AND 3-FT ACCESS PATHS
PER IFC 605.11.3.2 AND NFPA 1: 11.12.2.2.2



NOTES:

- SHINGLE ROOF DECKING IS 2X6 PLANK. 2X6 RAFTERS 16" O/C. CONVENTIONAL FRAMING; PITCH IS 7:12. PRE-MEASURE ALL AREAS TO CLEAR OBSTACLES AND ENSURE PROPER FIT, LEAVING SUFFICIENT ROOM FOR SETBACKS AND ACCESS PATHS.
- MARK AND ATTACH MOUNTS & RAILS ACCORDING TO LAYOUT & MOUNT AND RAIL PATTERNS. RAIL SPACING IS 33". MOUNTS ARE AT VARYING INTERVALS. MAXIMUM DISTANCE BETWEEN MOUNT AND RAIL-EDGE OR SPLICE IS 24". (MAX MOUNTING SPAN 7') (INNER 50% OF PANEL SHOULD BE BETWEEN RAILS.) LEAVE ROOM FOR FUTURE PANELS.
- MOUNT ENPHASE Q, TRUNK CABLE AND IQ7 MICROINVERTERS, NOTING STRING CONFIGURATION AND RECORDING MICROINVERTER S/N'S. INSTALL TERMINATORS AND UNUSED CONNECTOR CAPS. RUN ALL GROUND. USE LFC AND 600V PV WIRE.
- INSTALL SOLADECKS. VERIFYING POSITION IN ATTIC BEFORE PENETRATING ROOF, AND WIRE HOME RUNS. RUNS ARE 600V.
- MOUNT & CONNECT PANELS CENTERED OVER RAILS. RECORDING PANEL S/N'S. RAIL OVERHANGS ARE APPROX. 2-3" PAST PANELS. CONNECT ALL JUMPERS. MANAGE WIRES. SEPARATION DISTANCE BETWEEN ADJACENT PANELS $\frac{1}{4}$ " - $\frac{1}{2}$ ".

REVISIONS			
DATE	DESCRIPTION	BY	CK'D
03/16/19	PROPOSAL v1	REG	



Richard Gale
NABCEP Certified Solar PV Installer™
Certification No. PV 032611-117

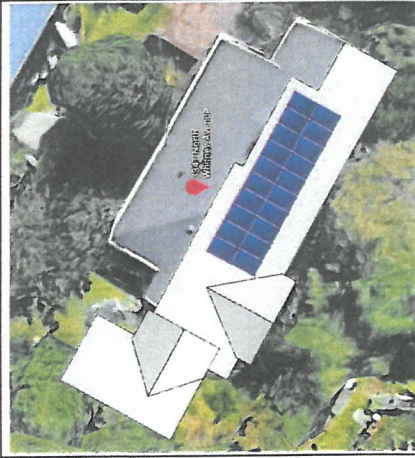
1" = 12"

A	A	A	A	A	A	A	A	A	A
1	2	3	4	5	6	7	8	9	10
B	B	B	B	B	B	B	B	B	B
1	2	3	4	5	6	7	8	9	10

STRING CONFIGURATION
(NTS)

RATED WITH THE FOLLOWING MINIMUMS MET:

- *BUILDING MEAN ROOF HEIGHT $\leq$ 30 FT
- *RAFTER SPACING 24" MAX
- *RISK CATEGORY II
- *WIND EXPOSURE B
- *WIND SPEED $\leq$ 110 MPH
- *GROUND SNOW LOAD $\leq$ 15 PSF
- *ARRAY DISTRIBUTED WEIGHT $\leq$ 4.0 PSF AND $\leq$ 35 LBS. PER ATTACHMENT
- *MAX GAP BENEATH MODULE FRAME $\leq$ 7"
- *UPLIFT, DOWN FORCE, AND SHEAR FORCE OF 167 LB, 258 LB, AND 135 LB RESPECTIVELY



OVERHEAD MOCK-UP (NTS)

Creative Solar USA, Inc.

2931 Lewis Street
Kennesaw, Ga 30144
Russell Seifert: 770-378-9668
www.creativesolarusa.com

TITLE:	5.9 KW ROOF-MOUNT SOLAR PV ARRAY
CUSTOMER:	JOE & MARCUS FELLINGHAM
ADDRESS:	3341 N WHITNEY AVE, HAPEVILLE, GA 30354
SCALE:	1" = 12" (OUTPUT: 8.5 X 11 LANDSCAPE)
PAGE:	1 OF 1
DATE:	03-05-2019
ENG/DRA:	REG

PER NEC 690.43
PANELS ARE GROUNDED
TO STRUCTURE VIA
WEB GROUNDING CLIPS
OR BONDING CLAMPS

1

2

3

4

TERMINATOR CAP
INSTALLED ON
END OF CABLE

EQUIPMENT GROUND
TO STRUCTURE
VIA WEBS
OR EQUIVALENT

ENPHASE
Q CABLE
(12 AWG)
BLACK-L1
RED-L2

TRANSITION
BOX

BRANCH #1

BRANCH #2

ENPHASE
IQ COMBINER BOX
METERED
X-IQ-AM1-240-B
UL1741
240V

(2) 2P 20A
CIRCUIT BREAKERS
WITH IQ ENVOY

PV
UTILITY
AC DISCONNECT
3R
FUSIBLE
BLADED 60A
240V, 1-PH

MDP
200A

120/240V
ADD (1) 2P 30A
CIRCUIT
BREAKER

UTILITY
METER

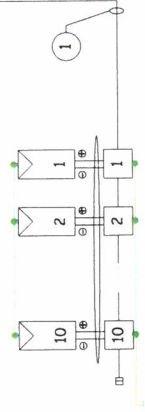
EXISTING

EXISTING

EXISTING

GRID

OR LOAD-SIDE TAP
AT METER BREAKER



(20) HANWHA Q-CELLS
Q-ANTUM SOLAR MODULE
Q-PEAK BLK-64.1 295, 295W PV PANELS
60-CELL POLYCRYSTALLINE;
ROOF-MOUNTED.
SHORT CIRCUIT CURRENT 9.7A.
EACH WIRED TO INDIVIDUAL INVERTERS
5,900 WATTS TOTAL.
UL1703

(20) ENPHASE IQ7-60-2-US
MICROINVERTERS,
ROOF-MOUNTED, UNDER EACH PANEL.
MAX CONTINUOUS AC OUTPUT POWER 240VA
NOMINAL AC OUTPUT CURRENT
AT 240V SINGLE PHASE OF 1.0A.
(2) BRANCHES AT (10) INVERTERS PER STRING,
CONNECTED IN SERIES.
(MAX 16 UNITS PER 20A BRANCH, 240VAC),
(2) STRINGS IN PARALLEL.
MAX CONT AC OUTPUT POWER 4,800 VA TOTAL.
MAX CONTINUOUS AC OUTPUT CURRENT AT 240V OF
10A PER 10-INVERTER BRANCH,
EACH PROTECTED AT 20A.
NEC 2014 & 2017 SECTION 690.12 COMPLIANT
UL1741/IEEE1547

(1) AC BRANCH CIRCUIT
JUNCTION BOX
/ SOLADECK

COMBINED
MAX CONTINUOUS AC
OUTPUT CURRENT AT
240V OF 20A.

CONDUIT AND WIRE SCHEDULE		
# OF RUN	CONDUIT	DESCRIPTION
1	N/A	#12 Q. CABLE (EN-PHASE)
2	IMC	(4) - #10 XH-PW, (1) - #8 XH-HW GND
3	IMC	#8 4-WIRE

Creative Solar USA, Inc.

2931 Lewis Street
Kennesaw, Ga 30144
Russell Seifert: 770-378-9668
www.creativesolarusa.com

TITLE:	5.9 KW DC PV ARRAY - SINGLE-LINE ELECTRICAL		
CUSTOMER:	JOE & MARCUS FELLINGHAM		
ADDRESS:	3341 N WHITNEY AVE, HAPEVILLE, GA 30354		
SCALE:	NONE		
PAGE:	1 OF 1	DATE:	03-16-2019
		ENG/DRA	REG

REVISIONS			
DATE	DESCRIPTION	BY	CKD
03/16/19	PROPOSAL v1	REG	

powered by
Q.ANTUM

Q.PEAK BLK-G4.1 290-300

Q.ANTUM SOLAR MODULE

With its top performance and completely black design the new **Q.PEAK BLK-G4.1** is the ideal solution for all residential rooftop applications thanks to its innovative cell technology **Q.ANTUM**. The world-record cell design was developed to achieve the best performance under real conditions – even with low radiation intensity and on clear, hot summer days.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area and lower BOS costs thanks to higher power classes and an efficiency rate of up to 18.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti-PID technology¹, Hot-Spot-Protect and Traceable Quality Track™.



EXTREME WEATHER RATING

High tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



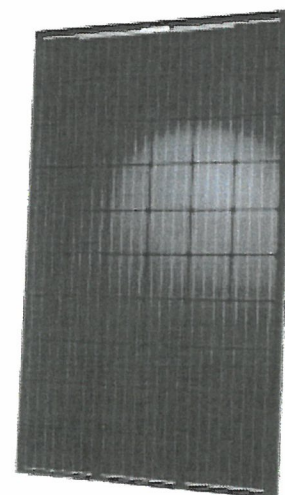
MAXIMUM COST REDUCTIONS

Up to 10% lower logistics costs due to higher module capacity per box.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 20-year linear performance guarantee².



THE IDEAL SOLUTION FOR:



Residential buildings
residential buildings

Engineered in **Germany**

Anti-PID technology (APIT) is an IEC 61215 requirement, with maximum voltage of 1500V for monocrystalline modules (2014, 2015, 2016).
See data sheet on page 10 for further information.

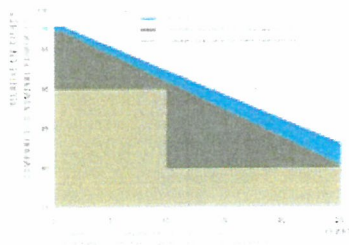
Q CELLS

Format	65.7in x 39.4in x 1.2in (including frame) 1660mm x 1000mm x 32mm
Weight	41.4lbs (18.8kg)
Front Cover	0.1in (2.5mm) thermally distressed glass w/ anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 x 10 monocrystalline 1/4 ANTUM solar cells
Junction Box	5.6in x 3.6in x 2.4in (142.9mm x 91.4mm x 61.0mm) x 1.1in (28mm) x 1.5in (38mm) Protection class IP67 - with bypass diodes
Cable	1mm Solar cable, 1/4 x 39.37in (1000mm), 1/4 x 39.37in (1000mm)
Connector	Multi-Contact MC4 or MC4 compatible, IP68

ELECTRICAL CHARACTERISTICS

POWER CLASS		290	295	300	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS: STD (POWER TOLERANCE $\pm 5\%$ / $\pm 0.5\%$)					
Minimum	Power at MPP*	P_{MPP} (W)	290	295	300
	Short Circuit Current*	I_{sc} (A)	9.63	9.78	9.77
	Open Circuit Voltage*	V_{oc} (V)	35.13	35.48	35.76
	Current at MPP*	I_{MPP} (A)	9.07	9.17	9.26
	Voltage at MPP*	V_{MPP} (V)	31.95	32.19	32.43
	Efficiency†	η (%)	17.4	17.7	18.0
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS: NDC					
Minimum	Power at MPP‡	P_{MPP} (W)	214.4	218.1	221.8
	Short Circuit Current*	I_{sc} (A)	7.77	7.82	7.88
	Open Circuit Voltage*	V_{oc} (V)	36.65	36.92	37.19
	Current at MPP*	I_{MPP} (A)	7.10	7.20	7.27
	Voltage at MPP*	V_{MPP} (V)	30.10	30.30	30.49

Q CELLS PERFORMANCE WARRANTY



- At least 90% of nominal power during first year.
- Thereafter max. 2.5% degradation per year.
- At least 40% of nominal power up to 1st year.
- At least 8.4% of nominal power up to 25 years.

All data within braces, excepted otherwise, follow examples in accordance with the format of the GATEL's sales representation, respectively.

PERFORMANCE AT LOW IRRADIANCE

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{sc}	α	(%/K)	-0.18	Temperature Coefficient of V_{oc}	β	(%/K)	-0.28
Temperature Coefficient of P_{max}	γ	(%/K)	-0.35	Normal Operating Cell Temperature	NOCT	(°F)	113 ± 5, 41.68 ± 3.05

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{sys}	[V]	1000 (AC) / 1500 (DC)	Safety Class	1
Maximum Series Fuse Rating	[A DC]	20	Fire Rating	C (UL) / TYPE C (UL)
Design load, push (UL)	[lbs./in ²]	75 (3,000 Pa)	Permitted module temperature on continuous duty	-40 °C up to +145 °C -40 °C up to +65 °C
Design load, pull (UL)	[lbs./in ²]	25 (1,000 Pa)	See installation manual	

QUALIFICATIONS AND CERTIFICATES

THE 1975-1976, 1976-1977, 1977-1978, 1978-1979, and 1979-1980, 1980-1981, 1981-1982, 1982-1983, 1983-1984, 1984-1985, 1985-1986, 1986-1987, 1987-1988, 1988-1989, 1989-1990, 1990-1991, 1991-1992, 1992-1993, 1993-1994, 1994-1995, 1995-1996, 1996-1997, 1997-1998, 1998-1999, 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025, 2025-2026, 2026-2027, 2027-2028, 2028-2029, 2029-2030, 2030-2031, 2031-2032, 2032-2033, 2033-2034, 2034-2035, 2035-2036, 2036-2037, 2037-2038, 2038-2039, 2039-2040, 2040-2041, 2041-2042, 2042-2043, 2043-2044, 2044-2045, 2045-2046, 2046-2047, 2047-2048, 2048-2049, 2049-2050, 2050-2051, 2051-2052, 2052-2053, 2053-2054, 2054-2055, 2055-2056, 2056-2057, 2057-2058, 2058-2059, 2059-2060, 2060-2061, 2061-2062, 2062-2063, 2063-2064, 2064-2065, 2065-2066, 2066-2067, 2067-2068, 2068-2069, 2069-2070, 2070-2071, 2071-2072, 2072-2073, 2073-2074, 2074-2075, 2075-2076, 2076-2077, 2077-2078, 2078-2079, 2079-2080, 2080-2081, 2081-2082, 2082-2083, 2083-2084, 2084-2085, 2085-2086, 2086-2087, 2087-2088, 2088-2089, 2089-2090, 2090-2091, 2091-2092, 2092-2093, 2093-2094, 2094-2095, 2095-2096, 2096-2097, 2097-2098, 2098-2099, 2099-2100, 2100-2101, 2101-2102, 2102-2103, 2103-2104, 2104-2105, 2105-2106, 2106-2107, 2107-2108, 2108-2109, 2109-2110, 2110-2111, 2111-2112, 2112-2113, 2113-2114, 2114-2115, 2115-2116, 2116-2117, 2117-2118, 2118-2119, 2119-2120, 2120-2121, 2121-2122, 2122-2123, 2123-2124, 2124-2125, 2125-2126, 2126-2127, 2127-2128, 2128-2129, 2129-2130, 2130-2131, 2131-2132, 2132-2133, 2133-2134, 2134-2135, 2135-2136, 2136-2137, 2137-2138, 2138-2139, 2139-2140, 2140-2141, 2141-2142, 2142-2143, 2143-2144, 2144-2145, 2145-2146, 2146-2147, 2147-2148, 2148-2149, 2149-2150, 2150-2151, 2151-2152, 2152-2153, 2153-2154, 2154-2155, 2155-2156, 2156-2157, 2157-2158, 2158-2159, 2159-2160, 2160-2161, 2161-2162, 2162-2163, 2163-2164, 2164-2165, 2165-2166, 2166-2167, 2167-2168, 2168-2169, 2169-2170, 2170-2171, 2171-2172, 2172-2173, 2173-2174, 2174-2175, 2175-2176, 2176-2177, 2177-2178, 2178-2179, 2179-2180, 2180-2181, 2181-2182, 2182-2183, 2183-2184, 2184-2185, 2185-2186, 2186-2187, 2187-2188, 2188-2189, 2189-2190, 2190-2191, 2191-2192, 2192-2193, 2193-2194, 2194-2195, 2195-2196, 2196-2197, 2197-2198, 2198-2199, 2199-2200, 2200-2201, 2201-2202, 2202-2203, 2203-2204, 2204-2205, 2205-2206, 2206-2207, 2207-2208, 2208-2209, 2209-2210, 2210-2211, 2211-2212, 2212-2213, 2213-2214, 2214-2215, 2215-2216, 2216-2217, 2217-2218, 2218-2219, 2219-2220, 2220-2221, 2221-2222, 2222-2223, 2223-2224, 2224-2225, 2225-2226, 2226-2227, 2227-2228, 2228-2229, 2229-2230, 2230-2231, 2231-2232, 2232-2233, 2233-2234, 2234-2235, 2235-2236, 2236-2237, 2237-2238, 2238-2239, 2239-2240, 2240-2241, 2241-2242, 2242-2243, 2243-2244, 2244-2245, 2245-2246, 2246-2247, 2247-2248, 2248-2249, 2249-2250, 2250-2251, 2251-2252, 2252-2253, 2253-2254, 2254-2255, 2255-2256, 2256-2257, 2257-2258, 2258-2259, 2259-2260, 2260-2261, 2261-2262, 2262-2263, 2263-2264, 2264-2265, 2265-2266, 2266-2267, 2267-2268, 2268-2269, 2269-2270, 2270-2271, 2271-2272, 2272-2273, 2273-2274, 2274-2275, 2275-2276, 2276-2277, 2277-2278, 2278-2279, 2279-2280, 2280-2281, 2281-2282, 2282-2283, 2283-2284, 2284-2285, 2285-2286, 2286-2287, 2287-2288, 2288-2289, 2289-2290, 2290-2291, 2291-2292, 2292-2293, 2293-2294, 2294-2295, 2295-2296, 2296-2297, 2297-2298, 2298-2299, 2299-2300, 2300-2301, 2301-2302, 2302-2303, 2303-2304, 2304-2305, 2305-2306, 2306-2307, 2307-2308, 2308-2309, 2309-2310, 2310-2311, 2311-2312, 2312-2313, 2313-2314, 2314-2315, 2315-2316, 2316-2317, 2317-2318, 2318-2319, 2319-2320, 2320-2321, 2321-2322, 2322-2323, 2323-2324, 2324-2325, 2325-2326, 2326-2327, 2327-2328, 2328-2329, 2329-2330, 2330-2331, 2331-2332, 2332-2333, 2333-2334, 2334-2335, 2335-2336, 2336-2337, 2337-2338, 2338-2339, 2339-2340, 2340-2341, 2341-2342, 2342-2343, 2343-2344, 2344-2345, 2345-2346, 2346-2347,



PACKAGING INFORMATION

Number of Modules per Pallet	32
Number of Pallets per 53' Container	30
Number of Pallets per 40' Container	26
Pallet Dimensions (L x W x H)	98.4 in x 45.5 in x 46.1 in 2500 mm x 1156 mm x 1170 mm
Pallet Weight	14.25 lbs (6.46 kg)

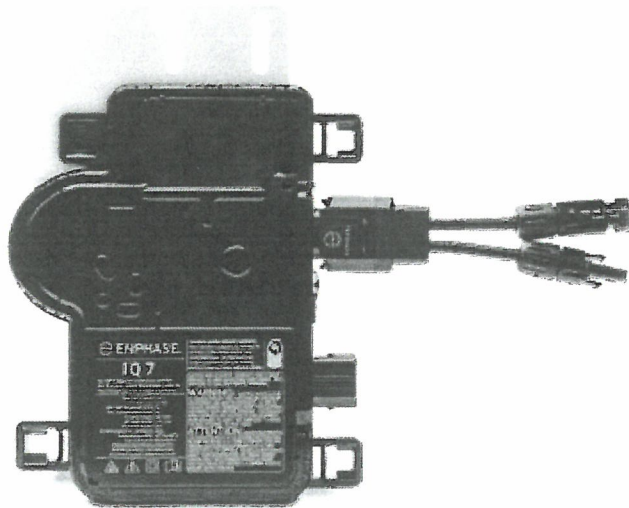
Harvard © CELLS America, Inc.

4011 Southway, Canton, Mass. 01921 USA; FAX 617/253-8156; TEL 617/253-8199; E-MAIL info@awd.com; WEB www.awd.com

test

Enphase Microinverters

Enphase IQ 7 and IQ 7+ Microinverters



To learn more about Enphase offerings, visit enphase.com

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.

Easy to Install

- Lightweight and simple
- Faster installation with integrated lighter two-wire conduit
- Built-in rapid shutdown compliant (NEC 2011 & 2017)

Productive and Reliable

- Optimized for high-powered 60-colt and 48-volt modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL-listed

Smart Grid Ready

- Complies with advanced grid capacity, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for various grid profiles
- Meets CA Rule 21 (UL 1741-3A)

- The IQ 7+ Microinverter also supports three-wire cables

 **ENPHASE**

Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US / IQ7-60-B-US		IQ7PLUS-72-2-US / IQ7PLUS-72-B-US	
Commonly used module pairings ¹	235 W - 350 W +		235 W - 440 W +	
Module compatibility	60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage	48 V		60 V	
Peak power tracking voltage	22 V - 37 V		22 V - 45 V	
Operating range	15 V - 48 V		15 V - 60 V	
Min-Max start voltage	22 V - 48 V		22 V / 60 V	
Max DC short circuit current (module Isc)	15 A		15 A	
Overvoltage class DC port	II		II	
DC port backfeed current	0 A		0 A	
PV array configuration	1 x 1 ungrounded array. No additional DC side protection required. AC side protection requires max 20A per branch circuit.			
OUTPUT DATA (AC)	IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (1-l) branch circuit	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	0 A		0 A	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.85 leading - 0.85 lagging		0.85 leading - 0.85 lagging	
EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	45% to 100% (condensing)			
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 for Amphenol H4 UT-X with additional Q-DCC-5 adapter			
Connector type (IQ7-60-B-US & IQ7PLUS-72-B-US)	Friends PV2 (MC4 interchangeable) Adapters for modules with MC4 or UT-X connectors: - PV2 to MC4: order ECA-S20-S27 - PV2 to UT-X: order ECA-S20-S25			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion-resistant polymer enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL 1741/IEEE 1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA C22.2 NO. 1071-01 This product is UL Listed as PV Rapid Shut-Down Equipment and conforms with NEC-2014 and NEC 2017 section 690.12 and C22.1 2015 Rule 64-216 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.			

¹ No enforced DC:AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>

² Terminal voltage range can be extended beyond nominal if required by the utility.

³ Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com



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Roof Mount System



Built for solar's toughest roofs.

IronRidge builds the strongest roof mounting system in solar. Every component has been tested to the limit and proven in extreme environments.

Our rigorous approach has led to unique structural features, such as curved rails and reinforced flashings, and is also why our products are fully certified, code compliant and backed by a 20-year warranty.



Strength Tested

All components evaluated for superior structural performance.



PE Certified

Pre-stamped engineering letters available in most states.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof.



Design Software

Online tool generates a complete bill of materials in minutes.



Integrated Grounding

UL 2703 system eliminates separate module grounding components.



20 Year Warranty

Twice the protection offered by competitors.

XR Rails

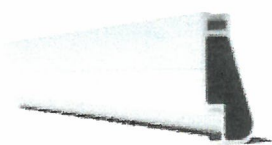
XR10 Rail



A low-profile mounting rail for regions with light snow.

- 6' spanning capability
- Moderate load capability
- Clear & black anod. finish

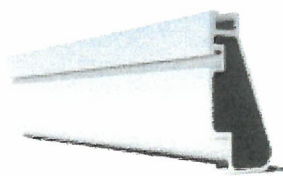
XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear & black anod. finish

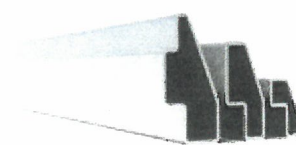
XR1000 Rail



A heavyweight mounting rail for commercial projects.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish

Internal Splices

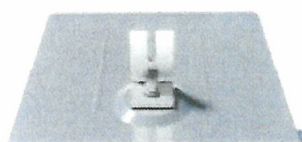


All rails use internal splices for seamless connections.

- Self-tapping screws
- Varying versions for rails
- Grounding Straps offered

Attachments

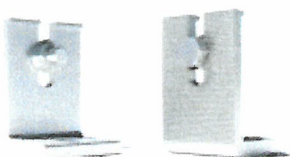
FlashFoot



Anchor, flash, and mount with all-in-one attachments.

- Ships with all hardware
- IBC & IRC compliant
- Certified with XR Rails

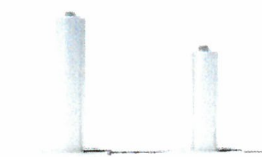
Slotted L-Feet



Drop-in design for rapid rail attachment.

- High-friction serrated face
- Heavy-duty profile shape
- Clear & black anod. finish

Standoffs



Raise flush or tilted systems to various heights.

- Works with vent flashing
- Ships pre-assembled
- 4" and 7" Lengths

Tilt Legs

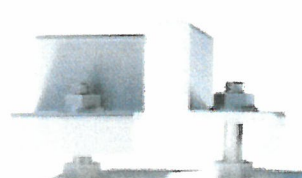


Tilt assembly to desired angle, up to 45 degrees.

- Attaches directly to rail
- Ships with all hardware
- Fixed and adjustable

Clamps & Grounding

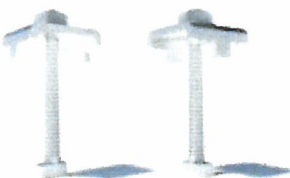
End Clamps



Slide in clamps and secure modules at ends of rails.

- Mill finish & black anod.
- Sizes from 1.22" to 2.3"
- Optional Under Clamps

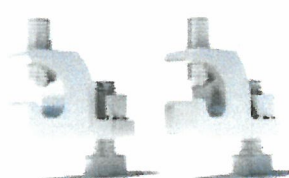
Grounding Mid Clamps



Attach and ground modules in the middle of the rail.

- Parallel bonding T-bolt
- Reusable up to 10 times
- Mill & black stainless

T-Bolt Grounding Lugs



Ground system using the rail's top slot.

- Easy top-slot mounting
- Eliminates pre-drilling
- Swivels in any direction

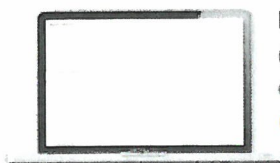
Accessories



Provide a finished and organized look for rails.

- Snap-in Wire Clips
- Perfected End Caps
- UV-protected polymer

Free Resources



Design Assistant

Go from rough layout to fully engineered system. For free.

Go to IronRidge.com/rm



NABCEP Certified Training

Earn free continuing education credits, while learning more about our systems.

Go to IronRidge.com/training



**DEPARTMENT OF PLANNING AND ZONING
PLANNER'S REPORT**

DATE: June 5, 2019
TO: Tonya Hutson
FROM: Lynn Patterson
RE: **Design Review – 3377 La Vista Drive**

BACKGROUND

The City of Hapeville has received a Design Review Application from Tia Muse and Brooke Fortenberry for the addition of solar panels to the roof of the existing building at 3377 La Vista Drive.

The property is zoned R-1, One-Family Detached, and is subject to the Neighborhood Conservation Area, Subarea E, of the Architectural Design Standards.

CODE

(e) *Roof and chimney standards.*

1. Principal building roofs for one-family detached dwellings shall have a minimum usable life of thirty (30) years, per manufacturer's warranty.
2. Roof shingles shall be slate, cedar, or asphalt.
3. Roof tiles shall be clay, terra cotta or concrete.
4. Metal roofs are:
 - a. Permitted on one-family and two-family detached dwellings if approved by the design review committee; and
 - b. Permitted on multifamily and townhouse dwellings only when screened from the adjacent street by a parapet wall.
5. Gutters shall be copper, aluminum or galvanized steel.
6. Downspouts shall match gutters in material and finish.
7. Roof forms shall be based on architectural style.
8. All roofs, excluding dormers, shall overhang a minimum of 12 inches beyond the facade.
9. Dormers are permitted on all style homes (unless specified), but shall not be taller than the main roof to which they are attached.
10. Chimneys exposed to the public view may not be faced in wood or cement based siding and may not be of an exposed metal or ceramic pipe. All chimneys shall be wrapped in a brick, stone or suitable masonry finish material.
11. Chimneys on exterior building walls shall begin at grade.
12. Chimneys shall begin at grade and be faced with brick or stacked stone; extend chimneys between three and six feet above the roof line.

FINDINGS

The Architectural Design Standards do not provide guidance for the installation of roof-mounted solar panels. As solar panels are not directly allowed by the code, a Design Exception would be required.

CITY OF HAPEVILLE

DESIGN REVIEW APPLICATION

SUBMITTAL DATE: May 15, 2019

NOTE: All applications must be typed or neatly printed. Applications or an authorized representative is required to personally appear at the Design Review Meeting to answer questions.

The Design Review Committee meets the third Wednesday of each month. Every attempt will be made to place your application for review on the next month's agenda following the submittal of a completed application with supporting documents; however, that may not always be possible. The City reserves the right to schedule applications as deemed necessary.

Applicant: Tia Muse / Brooke Fortenberry Contact Number: 770-485-7438

Applicants Address: 2931 Lewis St Ste 300 Kennesaw GA 30144

E-Mail Address: tia.muse@creativesolarusa.com Zoning Classification: _____

Address of Proposed Work: 3377 La Vista Dr Hapeville GA 30354

Parcel ID# (INFORMATION MUST BE PROVIDED): 14 006600010233

Property Owner: Isaac Bear Contact Number: 404-862-1886

Project Description (including occupancy type): Installing 5.70 kw
of solar panels to rooftop

Contractors Name: Alan Carrier Contact Number: 678-779-6248

Contact Person: Tia Muse Contact Number: 770-485-7438

I hereby make application to the City of Hapeville, to the Design Review Committee for the above referenced property. I do hereby swear or affirm that the information provided here and above is true, complete and accurate, and I understand that any inaccuracies may be considered just cause for invalidation of this application and any action taken on this application. I understand that the City of Hapeville, Georgia, reserves that right to enforce any and all ordinances regardless of any action or approval on this application. I further understand that it is my/our responsibility to conform with all of City of Hapeville's Ordinances in full. I hereby acknowledge that all requirements of the City of Hapeville shall be adhered to. I can read and write the English language and/or this document has been read and explained to me and I have full and voluntarily completed this application. I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for violation thereof.

Tia Muse
Applicants Signature

5-6-19
Date

Project Class (check one):

☒ Residential ☐ Commercial ☐ Mixed-Use Development

Project Type:

☐ New Commercial Construction ☐ Addition to Existing Commercial Building
☐ Addition to Existing Residential Structure ☐ Accessory Structure
☐ Site Plan, Grading & Landscaping ☐ New Single Family Residential Construction
☒ Other Solar Panels

Total Square Footage of proposed New Construction: _____

Total Square Footage of existing building: _____

Estimated Cost of Construction: \$14,535

List/Describe Building Materials on the exterior of the **existing** structure: _____

List/Describe Building Materials **proposed** for the exterior facade of the new structure: _____

(19) Hanwha Q-Cell solar panels (data sheet provided)
(19) Enphase IQ7-60-2-VS microinverters (data sheet provided)

NOTICE

Please be advised that the Community Service Department is here to assist all applicants regarding application procedures, meeting schedules and necessary deadlines. The Community Service Department does **NOT** make any final decisions for the Design Review Committee, Sign Committee, Planning Commission, Board of Appeals or rezoning request to Mayor and Council.

A complete application must be submitted before the Community Service Department will accept an application and forward the same to the appropriate entity.

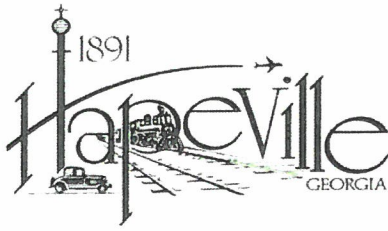
Building inspections issued by the City of Hapeville are contracted out to State of Georgia Certified Inspectors. These inspectors make the final decisions regarding building, electrical, plumbing and HVAC work completed in the City of Hapeville. The Hapeville Fire Marshal conducts inspections issued through the Community Services Department as needed. Both the Certified Inspectors and Fire Marshal make the final decisions before Certificates of Occupancy's are issued.

Please be advised that the Community Service Department shall not be responsible for your purchasing materials, equipment, items, signs, etc... before you receive final approval by any entity whose approval is required.

I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for a violation thereof.

(Please Print & Initial)

BF I Brooke Fortenberry swear or affirm that before receipt of an application, I have received this notice and I read and write the English language or I have had someone read and explain this document to me.



DEPARTMENT OF PLANNING AND ZONING

DESIGN REVIEW APPLICATION INSTRUCTIONS AND ACKNOWLEDGEMENT

I, the undersigned, agree that with my signature and submission to the City of Hapeville, I have done the following:

- ☒ Read the City of Hapeville's Architectural Design Guidelines and relevant Code sections for my proposed project. The Architectural Design Guidelines may be found here:
https://library.municode.com/ga/hapeville/codes/code_of_ordinances?nodeId=PTIICOOR_CH81ARDEST
- ☒ Ensured that my proposed project meets all of the required criteria per the City of Hapeville Code of Ordinances.
- ☒ Submitted my application materials in full by the published deadline for review by Staff prior to the Design Review Committee meeting.
- ☒ Identified and explained all deficiencies or components of the proposed project that do not meet with the requirements set forth in the Code. This explanation should be submitted as a separate document in the application.
- ☒ Understood that any deficiencies in the application must be resolved at least 10 days prior to the Design Review Committee meeting or the application may not be presented to the DRC for review.
- ☒ Submitted architectural drawings and details for all projects unless allowed in writing by the Community Services or Planning & Zoning Department.
- ☒ Agreed to submit any required revisions by the Design Review Committee with updated drawings to the Community Services Department for review prior to requesting any permits.

Tia Muse

Printed Name

Tia Muse

Signature

5-6-19

Date

Should you have any questions, please do not hesitate to contact the Community Services Department at 404-669-2120.

Thank you for interest and investment in the City of Hapeville.

Google Maps 3377 La Vista Dr



Image capture: Oct 2018 © 2019 Google

Hapeville, Georgia
Google
Street View - Oct 2018



RATED WITH THE FOLLOWING MINIMUMS MET:

- *BUILDING MEAN ROOF HEIGHT <= 30 FT
- *RAFTER SPACING 24" MAX
- *RISK CATEGORY II
- *WIND EXPOSURE B
- *WIND SPEED <= 110 MPH
- *GROUND SNOW LOAD <= 15 PSF
- *ARRAY DISTRIBUTED WEIGHT < 0 PSF AND < 35 LBS. PER ATTACHMENT
- *MAX GAP BENEATH MODULE FRAME < 7"
- *UPLIFT, DOWN FORCE, AND SHEAR FORCE OF 167 LB, 258 LB, AND 135 LB RESPECTIVELY



OVERHEAD MOCK-UP (NTS)

Creative Solar USA, Inc.

2931 Lewis Street
Kennesaw, Ga 30144
Russell Seifert: 770-378-9668
www.creativesolarusa.com

TITLE: 5.7 KW ROOF-MOUNT SOLAR PV ARRAY	
CUSTOMER: ISAAC BEAR	
ADDRESS: 3377 LA VISTA DR. HAPEVILLE, GA 30354	
SCALE: 1" = 12' (OUTPUT: 8.5 X 11 LANDSCAPE)	
PAGE: 1 OF 1	DATE: 05-13-2019 ENG/DRA: REG

REVISIONS			
DATE	DESCRIPTION	BY	CK'D
05/13/19	PROPOSAL v1	REG	



Richard Gale

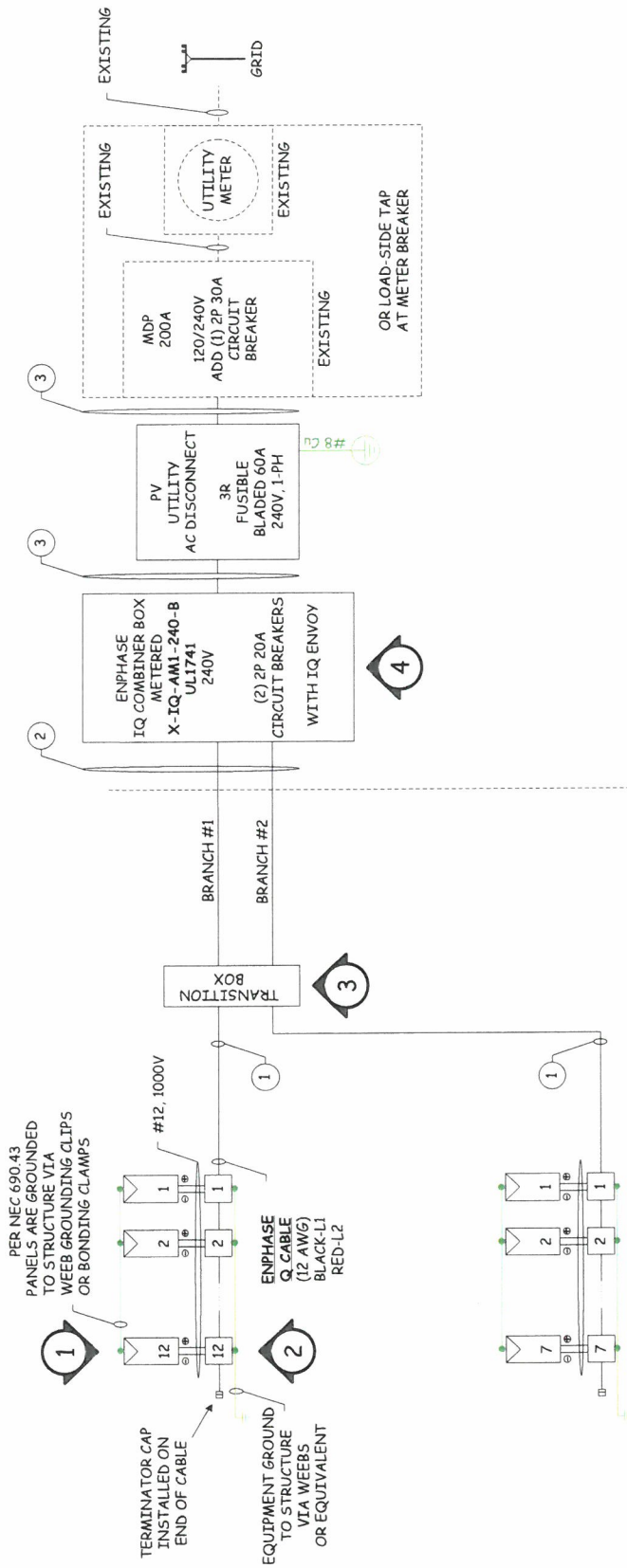
NABCEP Certified Solar PV Installer™
Certification No. PV 032611-117



NOTES:

- 1 SHINGLE ROOF. ROOF DECKING IS 1X6 PLANK, 2X6 RAFTERS 22" O/C. CONVENTIONAL FRAMING, PITCH IS 6:12. PRE-MEASURE ALL AREAS TO CLEAR OBSTACLES AND ENSURE PROPER FIT, LEAVING SUFFICIENT ROOM FOR SETBACKS AND ACCESS PATHS.
- 2 MARK AND ATTACH MOUNTS & RAILS ACCORDING TO LAYOUT & MOUNT AND RAIL PATTERNS. RAIL SPACING IS 33". MOUNTS ARE AT VARYING INTERVALS. MAXIMUM DISTANCE BETWEEN MOUNT AND RAIL-EDGE OR SPLICE IS 24". (MAX MOUNTING SPAN 7") (INNER 50% OF PANEL SHOULD BE BETWEEN RAILS.)
- 3 MOUNT ENPHASE Q, TRUNK CABLE AND IQ7 MICROINVERTERS, NOTING STRING CONFIGURATION AND RECORDING MICROINVERTER S/N'S. INSTALL TERMINATORS AND UNUSED CONNECTOR CAPS. RUN ALL GROUNDS. USE LFMC AND 600V PV WIRE.
- 4 INSTALL SOLADECK, VERIFYING POSITION IN A TTIC BEFORE PENETRATING ROOF, AND WIRE HOME RUNS. RUNS ARE 600V.
- 5 MOUNT & CONNECT PANELS CENTERED OVER RAILS, RECORDING PANEL S/N'S. RAIL OVERHANGS ARE APPROX. 2-3" PAST PANELS.

5.7 KW DC PV ARRAY - SINGLE-LINE ELECTRICAL



CONDUIT AND WIRE SCHEDULE	
# OF RUN	CONDUIT DESCRIPTION
1	N/A
2	IMC
3	IMC

Creative Solar USA, Inc.

2931 Lewis Street
Kennesaw, Ga 30144
Russell Seifert: 770-378-9668
www.creativesolarusa.com

TITLE: 5.7 KW DC PV ARRAY - SINGLE-LINE ELECTRICAL

CUSTOMER:	ISAAC BEAR
ADDRESS:	3377 LA VISTA DR, HAPEVILLE, GA 30354
SCALE:	NONE
PAGE:	1 OF 1
DATE:	05-13-2019
ENG/DRA:	REG

3. TRANSITION BOX
(1) AC BRANCH CIRCUIT JUNCTION BOX / SOLADECK
4. COMBINER BOX
COMBINED
MAX CONTINUOUS AC
OUTPUT CURRENT AT
240V OF 19A.

1. PV ARRAY SOURCE CIRCUIT
(19) JINKO SOLAR
EAGLE PERC 60
JKM300W-60 300W PV PANELS
60-CELL, MONO-CRYSTALLINE,
ROOF-MOUNTED.
SHORT CIRCUIT CURRENT 9.72A.
EACH WIRED TO INDIVIDUAL INVERTERS.
5,700 WATTS TOTAL
UL1703
2. INVERTERS
(19) ENPHASE IQ7-60-2-US
MICROINVERTERS.
ROOF-MOUNTED, UNDER EACH PANEL.
MAX CONTINUOUS AC OUTPUT POWER 240VA
NOMINAL AC OUTPUT CURRENT
AT 240V SINGLE PHASE OF 1.0A.
(2) BRANCHES AT (12 & 7) INVERTERS PER STRING,
CONNECTED IN SERIES.
(MAX 16 UNITS PER 20A BRANCH, 240VAC).
(2) 5 STRINGS IN PARALLEL.
MAX CONT AC OUTPUT POWER 4,560 VA TOTAL.
MAX CONTINUOUS AC OUTPUT CURRENT AT 240V OF
7A PER 7-INVERTER BRANCH,
12A PER 12-INVERTER BRANCH,
EACH PROTECTED AT 20A.
NEC 2014 & 2017 SECTION 690.12 COMPLIANT
UL1741/IEEE1547

Eagle PERC 60

280-300 Watt

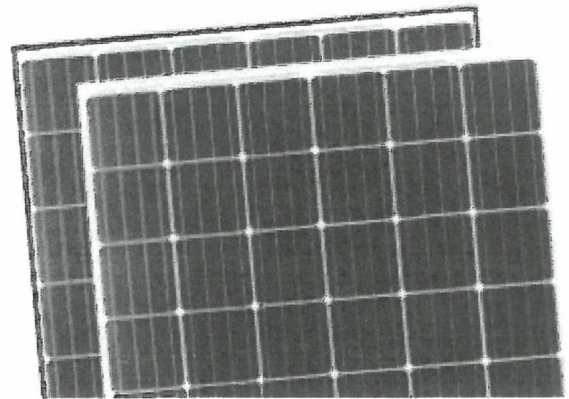
MONO CRYSTALLINE MODULE

Positive power tolerance of 0~+3%

ISO9001:2008-ISO14001:2004-OHSAS18001
certified factory.
IEC61215-IEC61730 certified products.



PERC



KEY FEATURES



4 Busbar Solar Cell:

4 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Efficiency:

Higher module conversion efficiency up to 18.2% (panel 1 from Passivated Emitter Rear Cell (PERC) technology).



PID RESISTANT:

Unlited power degradation of Eagle module caused by PID effect is guaranteed under strict testing condition (85°C/85%RH, 1000V for max. production).



Low-light Performance:

Advancing glass and solar cell surface texturing allow for excellent performance in low-light environments.



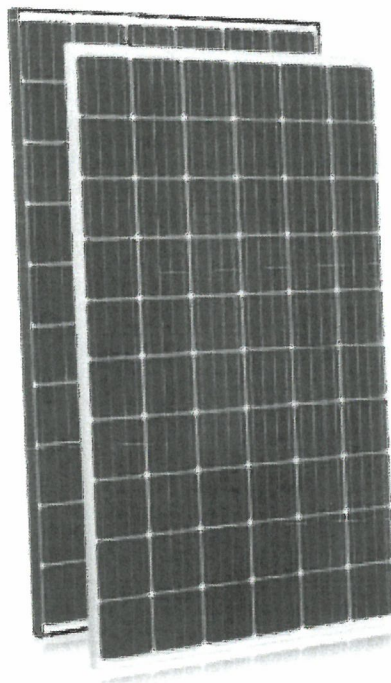
Severe Weather Resilience:

Certified to withstand wind load 1740N/m² and snow load 1400N/m².



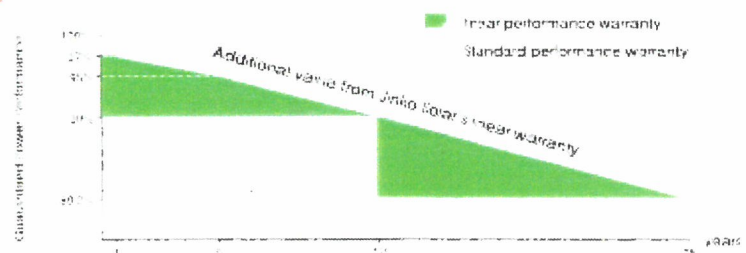
Durability against extreme environmental conditions:

High salt mist and ammonia resistance certified by TÜV NORD.

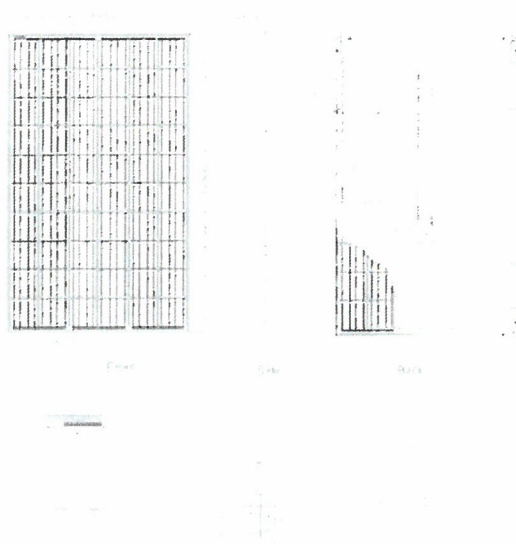


LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



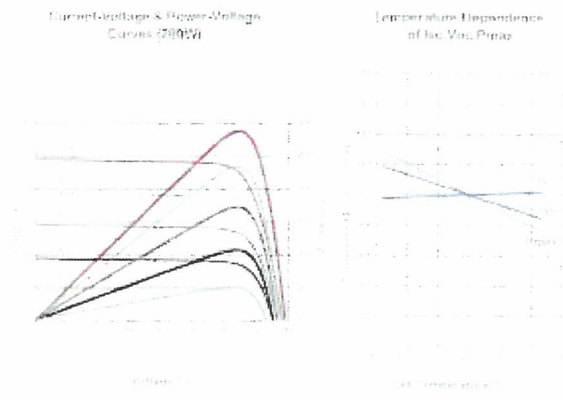
Engineering Drawings



Packaging Configuration

Single row of 60 cells
26pcs/box, 52pcs/pallet, 728 pcs/40' HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Monocrystalline PERC 156x156mm 16 inch
No. of cells	60 (6x10)
Dimensions	1650mm (L) x 990mm (W) x 35mm (H) ± 1.5mm
Weight	19.0 kg (41.9 lbs)
Front Glass	3.2mm Anti-Reflection Coating High Strength Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Cable in Box	100% 1 year
Output Cables	TUV 1x4.0mm Length 900mm or Customized Length

SPECIFICATIONS

Module Type	JKM260M-60		JKM270M-60		JKM290M-60		JKM295M-60		JKM300M-60	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Watt)	260Wp	208Wp	270Wp	210Wp	290Wp	216Wp	295Wp	220Wp	300Wp	224Wp
Maximum Power Voltage (Vmp)	31.8V	29.7V	32.0V	29.8V	32.2V	30.2V	32.4V	30.4V	32.6V	30.6V
Maximum Power Current (Imp)	8.81A	7.01A	8.09A	7.12A	9.02A	7.15A	9.10A	7.24A	9.21A	7.32A
Open-Circuit Voltage (Voc)	38.6V	36.2V	38.7V	36.4V	39.5V	36.8V	39.7V	36.8V	40.1V	37.0V
Short-Circuit Current (IsC)	9.49A	7.62A	9.01A	7.22A	9.15A	7.51A	9.61A	7.89A	9.72A	8.01A
Module Efficiency STC (%)	17.11%		17.41%		17.72%		18.02%		18.33%	
Operating Temperature (°C)					-40° ~ +85 °C					
Maximum system voltage					1000VDC (IEC)					
Maximum series fuse rating					15A					
Power tolerance					0~+3%					
Temperature coefficient of Pmax					-0.38%/°C					
Temperature coefficient of Voc					-0.29%/°C					
Temperature coefficient of IsC					0.05%/°C					
Nominal operating cell temperature (NOCT)					45±2°C					

STC: ☀️ Irradiance 1000W/m² ☂️ Cell Temperature 25°C ☁️ AM=1.5
NOCT: ☀️ Irradiance 800W/m² ☂️ Ambient Temperature 20°C ☁️ AM=1.5 ☔ Wind Speed 1m/s

* Power measurement tolerance: ± 3%

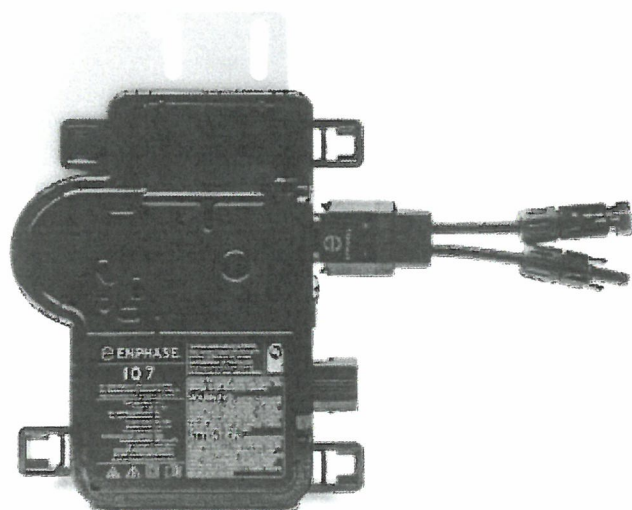
JKM260M-60 is a monocrystalline PERC solar module with a power output of 260W. It is designed for use in residential and commercial solar power systems. The module is made of high-quality materials and is built to last. It is also easy to install and maintain.

Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high-powered 60-cell and 72-cell modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell modules.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)		IQ7-60-2-US / IQ7-60-B-US		IQ7PLUS-72-2-US / IQ7PLUS-72-B-US	
Commonly used module pairings ¹		235 W - 350 W +		235 W - 440 W +	
Module compatibility		60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage		48 V		60 V	
Peak power tracking voltage		27 V - 37 V		27 V - 45 V	
Operating range		16 V - 48 V		16 V - 60 V	
Min./Max. start voltage		22 V / 48 V		22 V / 60 V	
Max DC short-circuit current (module I _{sc})		15 A		15 A	
Overvoltage class DC port		II		II	
DC port backfeed current		0 A		0 A	
PV array configuration		1 x 1 ungrounded array. No additional DC side protection required. AC side protection requires max. 20A per branch circuit.			
OUTPUT DATA (AC)		IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power		250 VA		295 VA	
Maximum continuous output power		240 VA		290 VA	
Nominal (L-L) voltage/range ²		240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current		1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency		60 Hz		60 Hz	
Extended frequency range		47 - 68 Hz		47 - 68 Hz	
AC short-circuit fault current over 3 cycles		5.8 Arms		5.8 Arms	
Maximum units per 20 A (1-p) branch circuit ³		16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port		III		III	
AC port backfeed current		0 A		0 A	
Power factor setting		1.0		1.0	
Power factor (adjustable)		0.85 leading - 0.85 lagging		0.85 leading - 0.85 lagging	
EFFICIENCY		@240 V	@208 V	@240 V	@208 V
Peak efficiency		97.6 %	97.6 %	97.5 %	97.3 %
IEC weighted efficiency		97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA					
Ambient temperature range		-40°C to +65°C			
Relative humidity range		4% to 100% (condensing)			
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)		MC4 for Amphenol H4-UT-X with additional Q-DCC-5 adapter			
Connector type (IQ7-60-B-US & IQ7PLUS-72-B-US)		Friends PV2 (MC4 intermateable) Adapters for modules with MC4 or UT-X connectors: - PV2 to MC4, order ECA-S20-S22 - PV2 to UT-X, order LCA-S20-S25			
Dimensions (WxHxD)		212 mm x 175 mm x 30.2 mm (without bracket)			
Weight		1.08 kg (2.38 lbs)			
Cooling		Natural convection - No fans			
Approved for wet locations		Yes			
Pollution degree		PD3			
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating		NEMA Type 5 / outdoor			
FEATURES					
Communication		Power Line Communication (PLC)			
Monitoring		Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Livox.			
Disconnecting means		The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance		CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEC62109-1, IEC Part 15 Class B, IEC60063 Class B, CAN/CSA C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC 2017 section 690.12 and C22.1-2015 Rule 64.2.18 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.			

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>

2. Nominal voltage range can be extended beyond nominal if required by the utility.

3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com



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Roof Mount System



Built for solar's toughest roofs.

IronRidge builds the strongest roof mounting system in solar. Every component has been tested to the limit and proven in extreme environments.

Our rigorous approach has led to unique structural features, such as curved rails and reinforced flashings, and is also why our products are fully certified, code compliant and backed by a 20-year warranty.



Strength Tested

All components evaluated for superior structural performance.



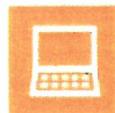
PE Certified

Pre-stamped engineering letters available in most states.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof.



Design Software

Online tool generates a complete bill of materials in minutes.



Integrated Grounding

UL 2703 system eliminates separate module grounding components.



20 Year Warranty

Twice the protection offered by competitors.

XR Rails

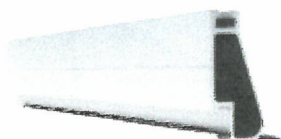
XR10 Rail



A low-profile mounting rail for regions with light snow.

- 6' spanning capability
- Moderate load capability
- Clear & black anod. finish

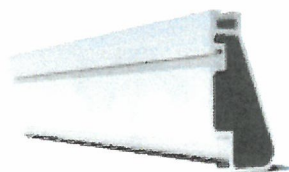
XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear & black anod. finish

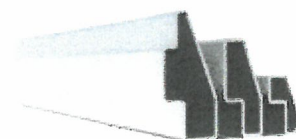
XR1000 Rail



A heavyweight mounting rail for commercial projects.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish

Internal Splices

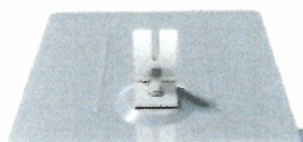


All rails use internal splices for seamless connections.

- Self-tapping screws
- Varying versions for rails
- Grounding Straps offered

Attachments

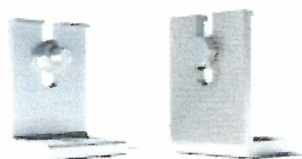
FlashFoot



Anchor, flash, and mount with all-in-one attachments.

- Ships with all hardware
- IBC & IRC compliant
- Certified with XR Rails

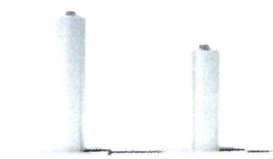
Slotted L-Feet



Drop-in design for rapid rail attachment.

- High-friction serrated face
- Heavy-duty profile shape
- Clear & black anod. finish

Standoffs



Raise flush or tilted systems to various heights.

- Works with vent flashing
- Ships pre-assembled
- 4" and 7" Lengths

Tilt Legs

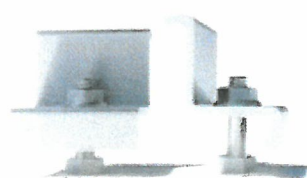


Tilt assembly to desired angle, up to 45 degrees.

- Attaches directly to rail
- Ships with all hardware
- Fixed and adjustable

Clamps & Grounding

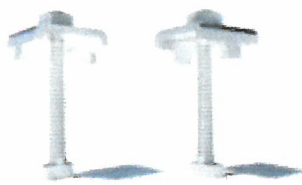
End Clamps



Slide in clamps and secure modules at ends of rails.

- Mill finish & black anod.
- Sizes from 1.22" to 2.3"
- Optional Under Clamps

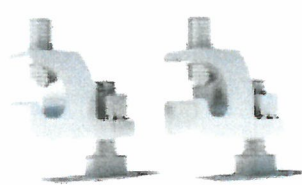
Grounding Mid Clamps



Attach and ground modules in the middle of the rail.

- Parallel bonding T-bolt
- Reusable up to 10 times
- Mill & black stainless

T-Bolt Grounding Lugs



Ground system using the rail's top slot.

- Easy top-slot mounting
- Eliminates pre-drilling
- Swivels in any direction

Accessories



Provide a finished and organized look for rails.

- Snap-in Wire Clips
- Perfected End Caps
- UV-protected polymer

Free Resources



Design Assistant

Go from rough layout to fully engineered system. For free.

Go to IronRidge.com/rm



NABCEP Certified Training

Earn free continuing education credits, while learning more about our systems.

Go to IronRidge.com/training



**DEPARTMENT OF PLANNING AND ZONING
PLANNER'S REPORT**

DATE: June 4, 2019
TO: Tonya Hutson
FROM: Lynn Patterson
RE: **Design Review – 600 South Central Avenue**

BACKGROUND

The City of Hapeville has received a Design Review Application from Casey Montana Busch for the addition of solar panels to the roof of the existing building at 600 South Central Avenue.

The property is zoned RMU, Residential Mixed-Use, and is subject to the Commercial/Mixed-Use Area, Subarea B, of the Architectural Design Standards.

CODE

Sec. 81-1-6. - Commercial/mixed-use area.

(f) Roof and chimney standards.

1. Principal building roofs for one-family detached dwellings shall have a minimum usable life of 30 years, per manufacturer's warranty.
2. Roof shingles shall be slate, cedar, or asphalt.
3. Roof tiles shall be clay, terra cotta or concrete.
4. Street-facing gutters shall be copper, aluminum or galvanized steel.
5. Downspouts shall match gutters in material and finish.
6. Metal flashing, where utilized, shall be copper or factory-finished sheet metal and shall be of a color that blends with other building materials.
7. Chimneys visible from a public right-of-way shall not be faced in wood or fiber cement siding and shall not be a metal or ceramic pipe. Chimneys shall be wrapped in a full-depth brick, stone or masonry finish material.
8. Chimneys located on an exterior building wall shall begin at grade.
9. Flat roofs shall be permitted.
10. Buildings with sloped roofs not completely screened from the adjacent street by a parapet shall have a pitch between 4:12 and 12:12. Mansard roofs are prohibited. Pitched-roof materials are limited to roof shingles, natural slate, wood shake, factory-finished sheet metal, and terra cotta tile, unless determined to be historically appropriate by the planning and zoning manager.
11. Roof-mounted lights and flagpoles are prohibited. Roof-mounted satellite dishes or telecommunication devices shall be screened from public view and shall blend with the background of the building as practical.

12. In subarea A roof lines shall appear flat from the adjacent street and roof structures shall be vertically screened by a parapet wall.

FINDINGS

The Architectural Design Standards do not provide guidance for the installation of roof-mounted solar panels. As solar panels are not directly allowed by the code, a Design Exception would be required.

CITY OF HAPEVILLE DESIGN REVIEW APPLICATION

SUBMITTAL DATE: JUN 04 2019

NOTE: All applications must be typed or neatly printed. Applications or an authorized representative is required to personally appear at the Design Review Meeting to answer questions.

The Design Review Committee meets the third Wednesday of each month. Every attempt will be made to place your application for review on the next month's agenda following the submittal of a completed application with supporting documents; however, that may not always be possible. The City reserves the right to schedule applications as deemed necessary.

Applicant: Casey Montana Busch Contact Number: 678-672-8822

Applicants Address: 615 Deer Run SW Lilburn, GA 30047

E-Mail Address: montana@altenergyse.com Zoning Classification: Commercial

Address of Proposed Work: 600 S Central Ave. Hapeville GA 30354

Parcel ID# (INFORMATION MUST BE PROVIDED): 14 009800200513

Property Owner: Dr. Jay Prakash Contact Number: [REDACTED]

Project Description (including occupancy type): Installation of roof-mounted, ballasted solar PV system. Commercial building (Regions Bank bldg)

Contractors Name: Alternative Energy Southeast Contact Number: 678 897 7262

Contact Person: Casey Montana Busch Contact Number: 678 897 7262

I hereby make application to the City of Hapeville, to the Design Review Committee for the above referenced property. I do hereby swear or affirm that the information provided here and above is true, complete and accurate, and I understand that any inaccuracies may be considered just cause for invalidation of this application and any action taken on this application. I understand that the City of Hapeville, Georgia, reserves that right to enforce any and all ordinances regardless of any action or approval on this application. I further understand that it is my/our responsibility to conform with all of City of Hapeville's Ordinances in full. I hereby acknowledge that all requirements of the City of Hapeville shall be adhered to. I can read and write the English language and/or this document has been read and explained to me and I have full and voluntarily completed this application. I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for violation thereof.

Guy M. Busch
Applicants Signature

6/3/19
Date

Project Class (check one):

☐ Residential

☒ Commercial

☐ Mixed-Use Development

Project Type:

☐ New Commercial Construction

☐ Addition to Existing Commercial Building

☐ Addition to Existing Residential Structure

☐ Accessory Structure

☐ Site Plan, Grading & Landscaping

☐ New Single Family Residential Construction

☒ Other Installation of roof-mounted, ballasted solar PV system

Total Square Footage of proposed New Construction: PV System Footprint: Approx 4500sqft

Total Square Footage of existing building: Rooftop: Approx 6000sqft

Estimated Cost of Construction: \$172,000.00

List/Describe Building Materials on the exterior of the **existing** structure: _____

The solar panels will be installed on the flat roof via a non-penetrating, fully ballasted mounting system. They will not be visible from the ground. The conduit from the roof will be installed inside of a chase and will not be visible from the outside.

List/Describe Building Materials **proposed** for the exterior facade of the new structure: _____

No changes to the exterior facade.

NOTICE

Please be advised that the Community Service Department is here to assist all applicants regarding application procedures, meeting schedules and necessary deadlines. The Community Service Department does **NOT** make any final decisions for the Design Review Committee, Sign Committee, Planning Commission, Board of Appeals or rezoning request to Mayor and Council.

A complete application must be submitted before the Community Service Department will accept an application and forward the same to the appropriate entity.

Building inspections issued by the City of Hapeville are contracted out to State of Georgia Certified Inspectors. These inspectors make the final decisions regarding building, electrical, plumbing and HVAC work completed in the City of Hapeville. The Hapeville Fire Marshal conducts inspections issued through the Community Services Department as needed. Both the Certified Inspectors and Fire Marshal make the final decisions before Certificates of Occupancy's are issued.

Please be advised that the Community Service Department shall not be responsible for your purchasing materials, equipment, items, signs, etc... before you receive final approval by any entity whose approval is required.

I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for a violation thereof.

(Please Print & Initial)

I Casey Montana Busch *CMB* swear or affirm that before receipt of an application, I have received this notice and I read and write the English language or I have had someone read and explain this document to me.

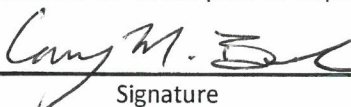


DEPARTMENT OF PLANNING AND ZONING

DESIGN REVIEW APPLICATION INSTRUCTIONS AND ACKNOWLEDGEMENT

I, the undersigned, agree that with my signature and submission to the City of Hapeville, I have done the following:

- ☒ Read the City of Hapeville's Architectural Design Guidelines and relevant Code sections for my proposed project. The Architectural Design Guidelines may be found here:
https://library.municode.com/ga/hapeville/codes/code_of_ordinances?nodeId=PTIICOOR_CH81ARDEST
- ☒ Ensured that my proposed project meets all of the required criteria per the City of Hapeville Code of Ordinances.
- ☒ Submitted my application materials in full by the published deadline for review by Staff prior to the Design Review Committee meeting.
- ☒ Identified and explained all deficiencies or components of the proposed project that do not meet with the requirements set forth in the Code. This explanation should be submitted as a separate document in the application.
- ☒ Understood that any deficiencies in the application must be resolved at least 10 days prior to the Design Review Committee meeting or the application may not be presented to the DRC for review.
- ☒ Submitted architectural drawings and details for all projects unless allowed in writing by the Community Services or Planning & Zoning Department.
- ☒ Agreed to submit any required revisions by the Design Review Committee with updated drawings to the Community Services Department for review prior to requesting any permits.

<u>Casey Montana Busch</u>		<u>05/30/2019</u>
Printed Name	Signature	Date

Should you have any questions, please do not hesitate to contact the Community Services Department at 404-669-2120.

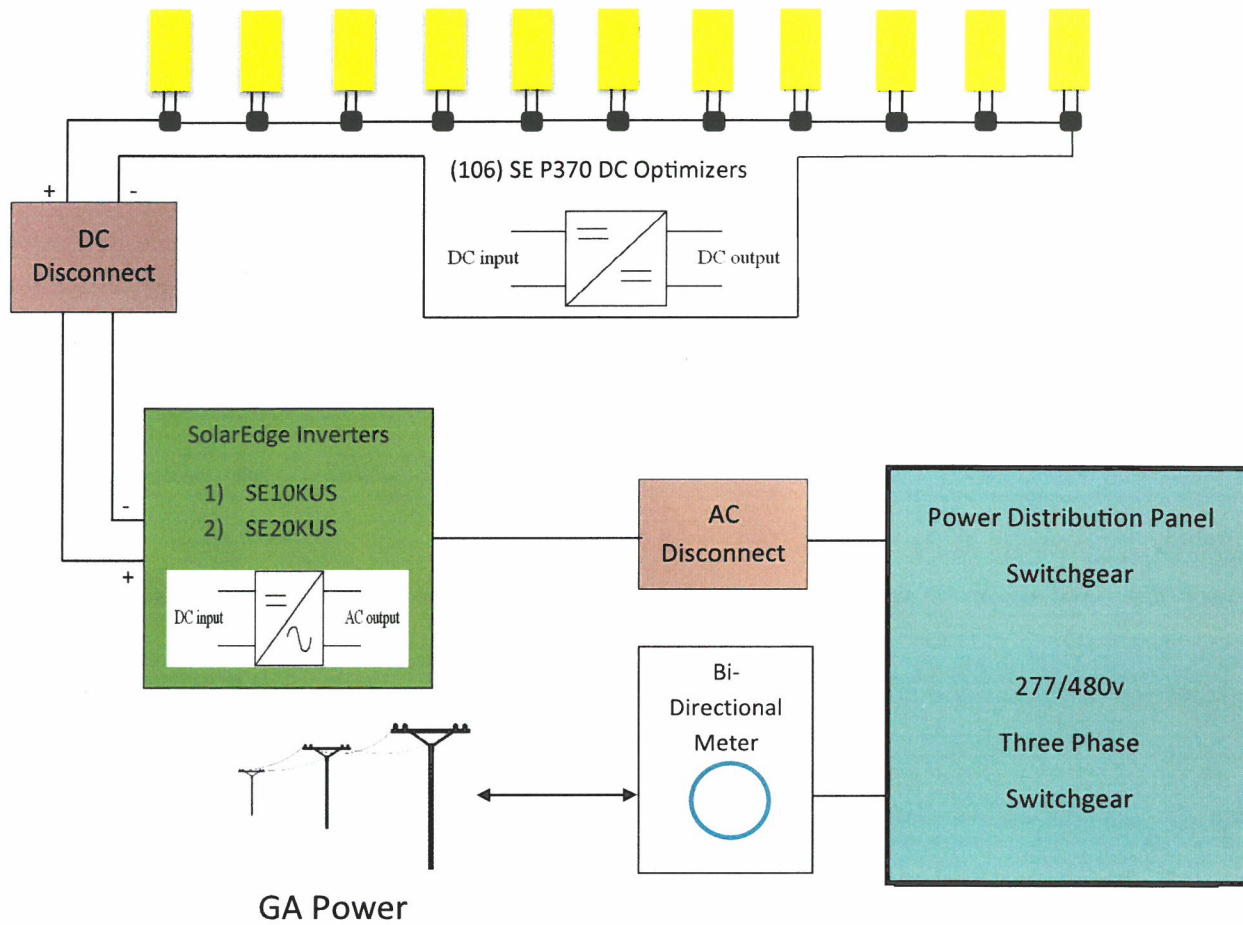
Thank you for interest and investment in the City of Hapeville.

One-Line Diagram

600 S Central Ave. Hapeville, GA 30354

38.2kW Solar PV System

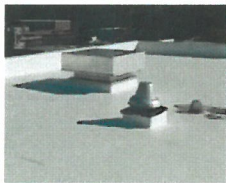
(106) RISEN RSM72-6-360M PV Modules



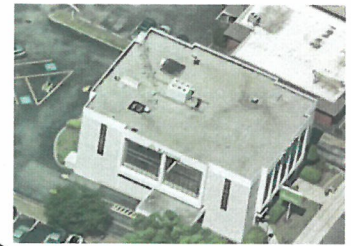
Alternative Energy Southeast

Atlanta, GA | Phone: 770.490.6178

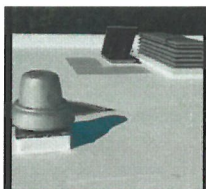
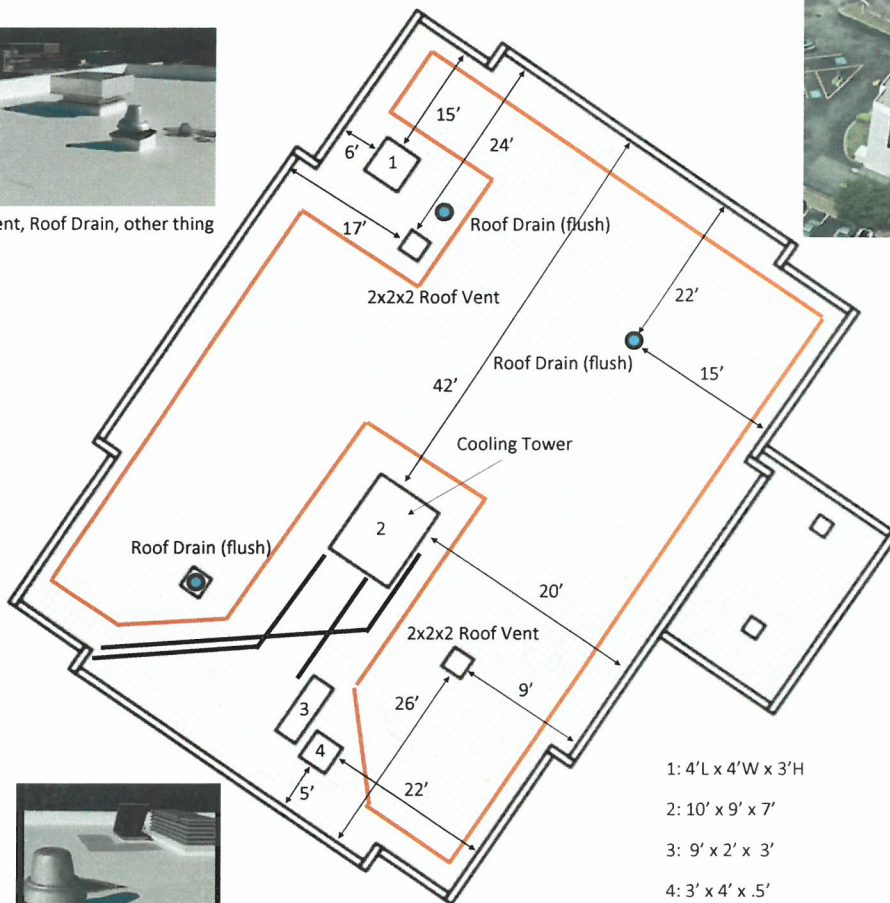
Info@AltEnergySE.com | www.AltEnergySE.com



Roof Vent, Roof Drain, other thing



Cooling Tower

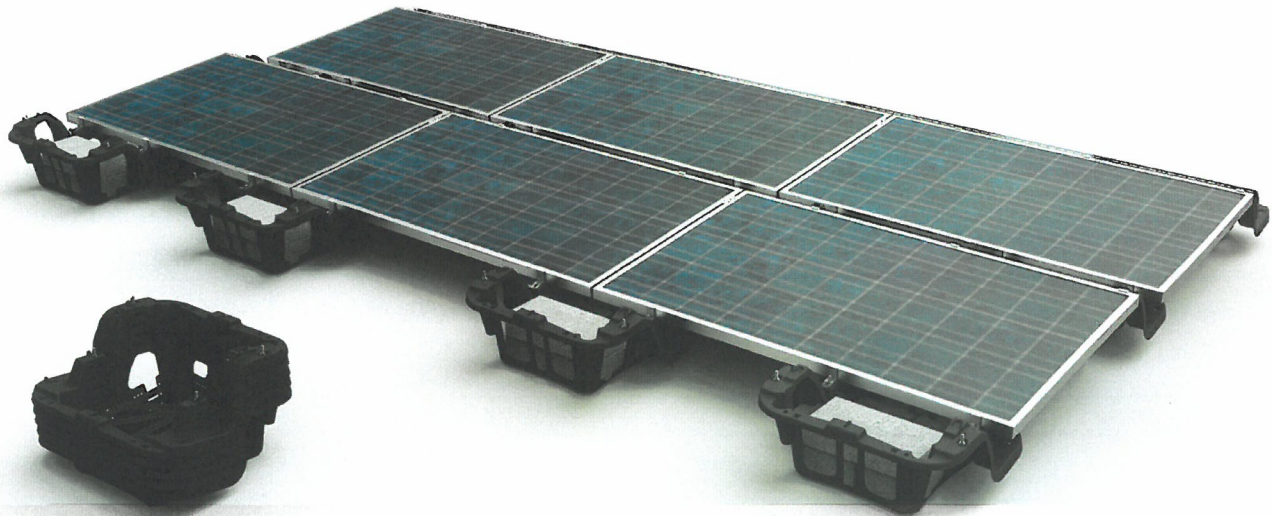


Roof Vent, Roof Hatch, other thing



An aerial photograph of a multi-story building with a grid-like facade. The building is surrounded by parking lots and streets. Numerous red location pins are placed along the edges and corners of the building. A single red teardrop-shaped marker is positioned in the center of the building's facade. The surrounding area includes a large tree to the left, a parking lot with several cars to the right, and a street with a yellow car in the foreground.





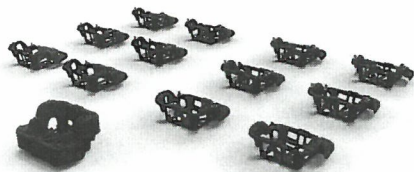
FastRack510TM

The simple solar racking solution for flat roof or ground mount PV installations.

- 5° or 10° mounting solution
- Simple, modular, one piece design
- Universal design compatible with all framed modules
- Fully ballasted, heat welded, anchored and hybrid options
- Roof friendly with round edges and low point loads
- One size bolt with all top down connections
- Injection molded with Ultramid® by BASF
- Engineering and ballast layout services available
- UL 1703 Class "A" Type 1 and 2 Module
- UL 467 Integrated grounding
- 100% Recyclable

Easy to install:

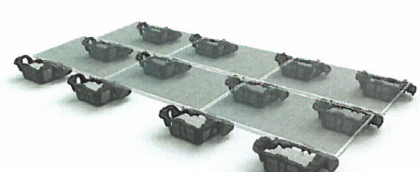
① Position FastRacks



② Add Ballast and Clamps



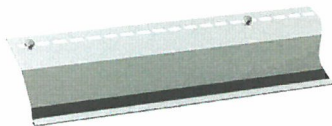
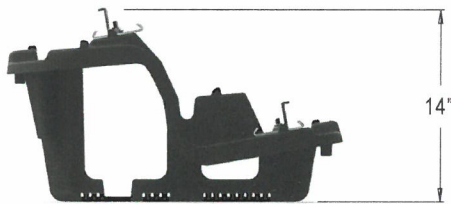
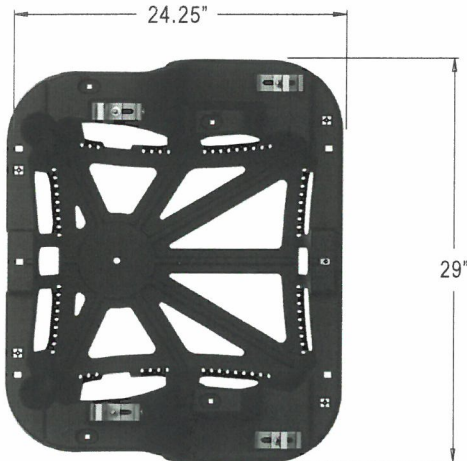
③ Attach Modules





The Simple Solar Racking Solution™

FastRack 510™



Windscreen

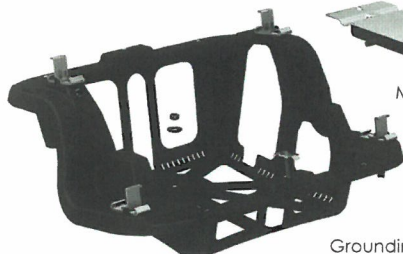


4 x 8 x 16" Ballast

Micro-Inverter
Rail Attachments



Module Clamps



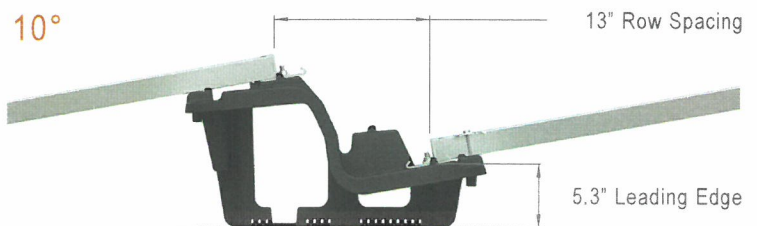
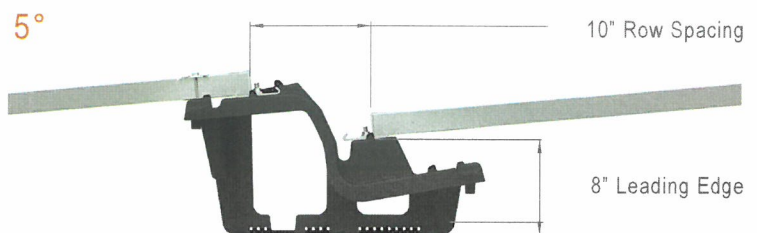
FastRack 510
(10° Shown)

Grounding Mid-Clamps



Non-Penetrating
Roof Anchor

Tilt Angle	5°	10°
Row Spacing	10" (254 mm)	13" (330 mm)
Leading Edge	8" (203 mm)	5.3" (135 mm)
Compatible Modules	All-framed modules 31" - 44" in width (787 mm and 1117 mm)	
Weight	4.5 lbs. (2 kg)	
Ballast Requirements	4" x 8" x 16" Roof Paver (31.5 lbs each) based on ASTM Designation C1491 – 01a.	
Material	BASF Ultramid® glass reinforced nylon	
Module Orientation	Landscape	
Wind Load Criteria	Meets ASCE 7-10 up to 165 mph	
UL Certification	UL 1703: Class 'A' Type 1,2,3 Module, UL467	
Warranty	25 Year Limited Warranty	
Dimensions	(LxWxH) 24.25 x 29 x 14" 616 x 737 x 356mm	
Disassembly	Simple disassembly and 100% recyclable content	
Patent	Patented design: US	



HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE

RSM72-6-360M-380M

72 CELL MONOCRYSTALLINE MODULE

360-380Wp POWER OUTPUT RANGE

1500VDC MAXIMUM SYSTEM VOLTAGE

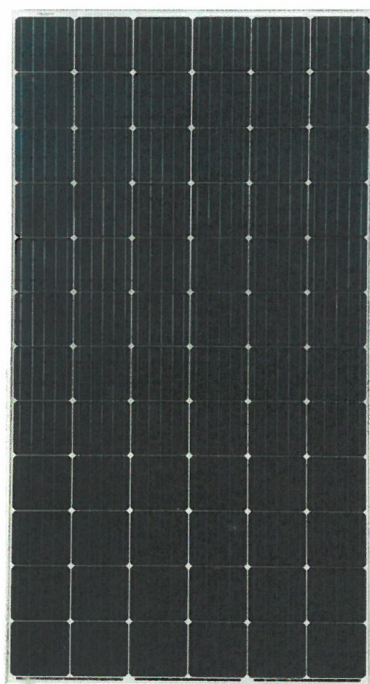
19.6% MAXIMUM EFFICIENCY



About Risen Energy

Risen Energy is a leading, global tier 1 manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 1986, and publicly listed in 2010, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Risen Energy's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

KEY SALIENT FEATURES



Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing



Industry leading lowest thermal co-efficient of power



Industry leading 12 years product warranty



Excellent low irradiance performance



Excellent PID resistance



Positive tight power tolerance



Dual stage 100% EL Inspection warranting defect-free product



Module Imp binning radically reduces string mismatch losses



Warranted reliability and stringent quality assurances well beyond certified requirements



Certified to withstand severe environmental conditions

- ◆ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- ◆ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- ◆ Excellent mechanical load 2400Pa & snow load 5400Pa resistance



ISO9001
ISO14001
OHSAS18001
IEC TS 62941



RISEN ENERGY CO., LTD.

Tashan Industry Zone, Meilin,

Ninghai 315609, Ningbo | PRC

Tel: +86-574-59953239

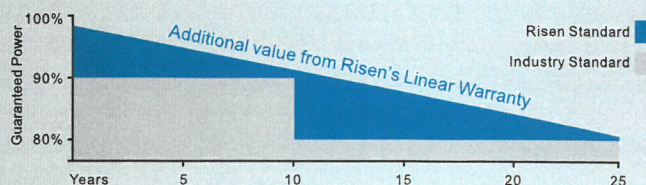
Fax: +86-574-59953599

E-mail: marketing@risenenergy.com

Website: www.risenenergy.com

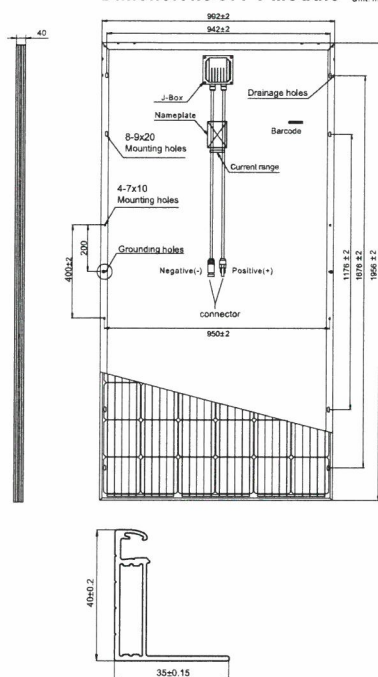
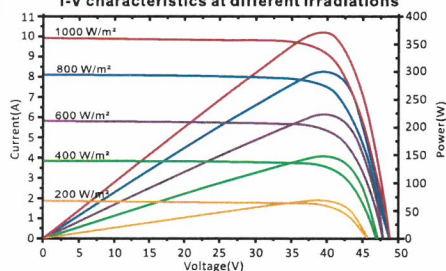
LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty

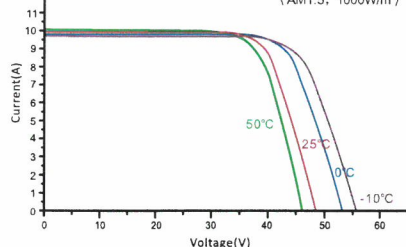


Dimensions of PV Module

Unit: mm


RSM72-6-370M
I-V characteristics at different irradiances

I-V characteristics at different temperatures

(AM1.5, 1000W/m²)


Our Partners:
ELECTRICAL DATA (STC)

Model Number	RSM72-6-360M	RSM72-6-365M	RSM72-6-370M	RSM72-6-375M	RSM72-6-380M
Rated Power in Watts-Pmax(Wp)	360	365	370	375	380
Open Circuit Voltage-Voc(V)	47.30	47.70	48.15	48.60	48.95
Short Circuit Current-Isc(A)	9.80	9.85	9.90	9.95	10.00
Maximum Power Voltage-Vmpp(V)	38.95	39.25	39.60	39.95	40.25
Maximum Power Current-Impp(A)	9.25	9.30	9.35	9.40	9.45
Module Efficiency (%)	18.6	18.8	19.1	19.3	19.6

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA (NMOT)

Model Number	RSM72-6-360M	RSM72-6-365M	RSM72-6-370M	RSM72-6-375M	RSM72-6-380M
Maximum Power-Pmax (Wp)	269.3	272.8	276.8	280.7	284.3
Open Circuit Voltage-Voc (V)	43.50	43.90	44.30	44.70	45.00
Short Circuit Current-Isc (A)	8.04	8.08	8.12	8.16	8.20
Maximum Power Voltage-Vmpp (V)	35.70	36.00	36.30	36.60	36.90
Maximum Power Current-Impp (A)	7.55	7.59	7.63	7.67	7.71

NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Monocrystalline 156.75×156.75 mm, 5BB
Cell configuration	72 cells (6×12)
Module dimensions	1956×992×40mm
Weight	22kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP67, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm² (12AWG), 1200mm length
Connector	Risen Twinsel PV-SY02, IP67

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45°C±2°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	648	270
Number of modules per pallet	27	27
Number of pallets per container	24	10
Packaging box dimensions (LxWxH) in mm	1980×1130×1130	1980×1130×1130
Box gross weight[kg]	640	640

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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THE POWER OF RISING VALUE

INVERTERS

Three Phase Inverters

For the 277/480V Grid for North America

SE10KUS / SE20KUS / SE30KUS / SE33.3KUS



The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Superior efficiency (98.5%)
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Small, lightweight, and easy to install outdoors or indoors on provided bracket
- Fixed voltage inverter for longer strings
- Integrated Safety Switch
- Supplied with RS485 Surge Protection Device, to better withstand lightning events

/ Three Phase Inverters

For the 277/480V Grid⁽¹⁾ for North America

SE10KUS / SE20KUS / SE30KUS / SE33.3KUS

	SE10KUS	SE20KUS	SE30KUS	SE33.3KUS	
OUTPUT					
Rated AC Power Output	10000	20000	30000	33300	VA
Maximum AC Power Output	10000	20000	30000	33300	VA
AC Output Line Connections	4-wire WYE (L1-L2-L3-N) plus PE				
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-N)	244-277-305				Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-L)	422.5-480-529				Vac
AC Frequency Min-Nom-Max ⁽²⁾	59.3 - 60 - 60.5				Hz
Max. Continuous Output Current (per Phase)	12	24	36.5	40	A
GFDI Threshold	1				A
Utility Monitoring, Islanding Protection, Country Configurable Set Points	Yes				
INPUT					
Maximum DC Power (Module STC)	13500	27000	40500	45000	W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage DC to Gnd	490				Vdc
Maximum Input Voltage DC+ to DC-	980				Vdc
Nominal Input Voltage DC to Gnd	420				Vdc
Nominal Input Voltage DC+ to DC-	840				Vdc
Maximum Input Current	13.5	26.5	39	40	Adc
Maximum Input Short Circuit Current	45				Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	1MΩ Sensitivity		350kΩ Sensitivity ⁽³⁾		
CEC Weighted Efficiency	98		98.5		%
Night-time Power Consumption	< 3		< 4		W
ADDITIONAL FEATURES					
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional)				
Rapid Shutdown – NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect				
RS485 Surge Protection	Supplied with the inverter				
STANDARD COMPLIANCE					
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07				
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)				
Emissions	FCC part15 class B				
INSTALLATION SPECIFICATIONS					
AC output conduit size / AWG range	3/4" minimum / 12-6 AWG		3/4" minimum / 8-4 AWG		
DC input conduit size / AWG range	3/4" minimum / 12-6 AWG				
Number of DC inputs	2 pairs		3 pairs ⁽⁴⁾		
Dimensions (H x W x D)	21 x 12.5 x 10.5 / 540 x 315 x 260				in / mm
Dimensions with Safety Switch (H x W x D)	30.5 x 12.5 x 10.5 / 775 x 315 x 260				in / mm
Weight	73.2 / 33.2		99.5 / 45		lb / kg
Weight with Safety Switch	79.7 / 36.2		106 / 48		lb / kg
Cooling	Fans (user replaceable)				
Noise	< 50		< 55		dBA
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁵⁾				°F / °C
Protection Rating	NEMA 3R				

⁽¹⁾ For 208V inverters refer to: <http://www.solaredge.com/files/pdfs/products/inverters/se-three-phase-us-inverter-208V-datasheet.pdf>

⁽²⁾ For other regional settings please contact SolarEdge support

⁽³⁾ Where permitted by local regulations

⁽⁴⁾ Field replacement kit for 1 pair of inputs P/N: DCD-3PH-1TBK; Field replacement kit for 3 pairs of fuses and holders P/N: DCD-3PH-6FHK-S1

⁽⁵⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>



PLANNING AND ZONING DEPARTMENT

PLANNER'S REPORT

DATE: June 5, 2019
TO: Tonya Hutson
FROM: Lynn M. Patterson

Key:

Compliant:	✓
Not Compliant:	✗
Incomplete:	⚡
Not Applicable:	⊖

RE: Design Review - 3365 Northside Drive

BACKGROUND

The City of Hapeville has received a design review application from Paula Smith to construct a 1.5 story single-family dwelling with an attached garage at 3365 Northside Drive. The dwelling will have 3,548 SF of finished heated floor area with an additional 525 SF of unfinished space available. It will include four bedrooms and three and a half bathrooms, with an optional unfinished fifth bedroom.

The property is zoned R-O, One-Family Residential, and is subject to the Neighborhood Conservation Area, Subarea D, of the Architectural Design Standards.

CODE

SEC. 81-1-7. NEIGHBORHOOD CONSERVATION AREA

Based on goals established in this chapter, the following standards are required in the neighborhood conservation area identified in section 81-1-3. This includes two subareas: subarea D and subarea E. All of the standards contained in this section shall apply to all development in all subareas. Subarea requirements are found within the applicable subsection.

This section shall govern subarea C of the commercial/mixed-use area. It may also govern one-family detached dwellings and two-family dwellings in the commercial/mixed-use area, provided that the section is applied in its entirety.

(a) Site development standards

- ✓ Except where indicated, setbacks shall be established by zoning.
- ✓ On corner lots the principal building shall be located adjacent to the street intersection, subject to setback or build-to line requirements of zoning.
- ✓ Minimum building heights shall be established by zoning.
- ✓ Within subareas D and E maximum building heights shall be as established by zoning, except that:
 - Where this chapter provides a more-stringent standard as compared to the zoning code, the more-stringent standard shall prevail. The only exception to this shall be a use grandfathered under the zoning code.
 - Portions of buildings equal to or less than five feet from a side or rear lot line shall be limited in height to the greater of 16 feet.
 - Portions of buildings between five and ten feet of a side or rear lot line shall be limited in height to the greater of 25 feet.
 - ✓ Portions of buildings ten feet or greater from a side or rear lot line shall be limited in height to 35 feet.
- ⊖ Outside of subareas D and E maximum building heights shall be as established by zoning.
- ✓ All buildings shall provide first-story occupiable space, for the first ten feet of building depth along the enfronting facade.
- ✗ Sidewalks shall be located along all public and private streets. Sidewalks shall consist of two areas: a landscape area and a clear area.
 - ✗ Developments less than one acre shall provide a minimum one-foot landscape zone and a minimum four-foot clear zone.
 - Development of one acre or more shall provide a minimum two-foot landscape zone and a minimum five-foot clear zone.
 - The above notwithstanding, multifamily developments and all developments along Dogwood Drive shall provide a minimum five-foot landscape zone and a minimum six-foot clear zone.

STAFF COMMENT: The plans should include a new sidewalk on each enfronting street, with a minimum 1' landscape zone and 4' clear zone.

(b) Supplemental Area and Fence Standards

-  Developments shall locate landscape supplemental areas adjacent to first-story residential uses and place a minimum of one tree every 50 feet in the supplemental area. See list of allowed trees in section 93-2-14 .
-  Chain link fencing is not permitted in areas visible from a public right-of-way.
-  On all lots a fence, wall, curb or hedge between six and 48 inches in height is encouraged at the back of the required sidewalk, except at openings to access steps, drives or pedestrian walkways.
-  Fences adjacent to the street shall be picket-wood, stone, composite materials or ornamental metal, with the finished side facing the street.
-  Retaining walls adjacent to the required sidewalk shall not exceed 32 inches in height unless required by topography.
-  All street-facing walls shall be faced with stone, brick, or smooth stucco.
-  Small planting between retaining walls and the required sidewalk are encouraged and should have a minimum width of six inches.

STAFF COMMENT: **A minimum of one tree is required every 50' in the supplemental area. The application should be revised to ensure at least one tree is located every 50' along both Northside Drive and Old Jonesboro Road frontages.**

(c) Utility Standards

-  Mechanical features shall not be located in the supplemental area or front yard and shall be screened from view from any park or along any public right-of-way with planting, walls or fences of equal or greater height. Acceptable materials for screening shall include those materials found in subsection (f)1., provided they are compatible with the principal structure.
-  When located on rooftops, mechanical features shall be incorporated in the design of the building and screened with materials similar to the building.
-  Street lights may be provided by the developer in an effort to maintain a safe, walkable and well-lit public area throughout the city; pedestrian-
-  All developments shall provide a light at the front door. Lighting designed to illuminate the path to the front door is allowed. Spotlighting may
-  Trees shall not be planted directly above storm drains.

STAFF COMMENT: **The Applicant should clarify how the mechanical features on the west side of the dwelling will be screened. A light at the front door should be included in plans.**

(d) Parking and Traffic Standards

-  One-family detached dwellings and two-family dwellings shall meet the following requirements:
 -  Driveways shall have a minimum width of nine feet and a maximum width of 15 feet. Circular drives are permitted. A grass strip in the middle of driveways is encouraged.
-  All other buildings shall meet the following requirements:
 - Parcels are permitted a maximum of one driveway curb cut per street. In cases where a property abuts multiple streets the total number of curb cuts or portions thereof may be allocated to a single street.
 - Driveways shall have a maximum width of 12 feet for one-way and 24 feet for two-way.
 - Two curb cuts serving two one-way driveways shall be counted as one curb cut.
 - Public or private alleys, or driveway providing vehicular access to two or more parcels shall not constitute a curb cut.
 - New public streets shall not count as curb cuts.
 - Parcels are permitted a maximum of one driveway curb cut per street frontage. In cases where a property abuts multiple streets the total number of curb cuts or portions thereof may be allocated to a single street.
-  Carports are only permitted subject to the following requirements:
 - Carports shall be located in the rear or side yard, but shall not be visible from a public right-of-way.
 - Carport roofs shall be supported by columns with a minimum width and depth of eight inches.
 - The base of carport columns shall be faced in stacked brick or stacked stone to a minimum height of three feet above grade.
-  On-site parking shall be prohibited in the supplemental areas. This shall not be interpreted as restricting on-street parking located along a public street.
-  Garage access on single-family lots shall be prohibited in the front yard of the home.

STAFF COMMENT: **The driveway is 15' wide at the curb but expands towards the garage, which is not compliant.**

(e) Roof and Chimney Standards

-  Principal building roofs for one-family detached dwellings shall have a minimum usable life of thirty (30) years, per manufacturer's warranty.

- ✓ Roof shingles shall be slate, cedar, or asphalt.
- ⊖ Roof tiles shall be clay, terra cotta or concrete.
- ⊖ Metal roofs are:
 - Allowed on one-family and two-family detached dwellings;
 - Permitted on multifamily and townhouse dwellings only when screened from the adjacent street by a parapet wall.
- ✎ Gutters shall be copper, aluminum or galvanized steel.
- ✎ Downspouts shall match gutters in material and finish.
- ⊖ Roof forms shall be based on architectural style.
- ✓ All roofs, excluding dormers, shall overhang a minimum of 12 inches beyond the facade.
- ⊖ Dormers are permitted on all style homes (unless specified), but shall not be taller than the main roof to which they are attached.
- ⊖ Chimneys exposed to the public view may not be faced in wood or cement based siding and may not be of an exposed metal or ceramic pipe. All chimneys shall be wrapped in a brick, stone or suitable masonry finish material.
- ⊖ Chimneys on exterior building walls shall begin at grade.
- ⊖ Chimneys shall begin at grade and be faced with brick or stacked stone; extend chimneys between three and six feet above the roof line.

STAFF COMMENT: **The Applicant should ensure the roof shingles have a warranty of at least 30 years and indicate the warranty on the plans.**
The Applicant should indicate the material of the gutters and downspouts and show downspouts on the plans.

(f) Street Facing Facade and Style Standards.

- ✓ Exterior facade materials shall be limited to:
 - ✓ Full-depth brick;
 - Natural or cast stone;
 - ✓ Smooth natural-wood siding and/or cement-based siding;
 - ✓ Shake siding;
 - Painted fish-scale style shingles, but only when used in front gables;
 - True, smooth hard-coat stucco, provided that its use is limited to gables of Tudor revival-style buildings.
- ✓ Exterior building materials shall not be:
 - Simulated brick veneer, such as Z-Brick;
 - Exterior insulation and finish systems (EIFS);
 - Exposed concrete block;
 - Metal siding or other metal exterior treatment;
 - Glass curtain walls;
 - Liquid vinyl;
 - T-1-11 siding;
 - Vinyl siding, except that existing one-family detached homes with vinyl siding covering more than 70 percent of the exterior facade may replace said siding or construct an addition faced in vinyl siding.
- ✓ Facade materials shall be combined horizontally, with the heavier below the lighter.
- ✓ Blank, windowless walls are prohibited along all facades. See subsection 81-1-7(g)11 .
- ✓ Foundations shall be constructed as a distinct building element that contrasts with facade materials. Foundations that are exposed above the ground, must be parged with cement, stuccoed over or be faced in brick, natural stone, or cast stone.
- ✓ All exterior stair risers visible from a street shall be enclosed.
- ✓ Porches, stoops, and balconies may be located in the front or side yard.
- ✓ Porches, stoops, and balconies along front and side building facades shall not be enclosed with screens, plastics, or other materials that hinder visibility and/or natural air flow.
- ✎ Porches, stoops, and balconies shall be made of painted or stained wood, stone, brick, or ornamental metal, subject to the additional restrictions below.
- ⊖ Wooden porches, stoops, and balconies shall provide top and bottom horizontal members on railings. The top railing shall consist of two elements. The upper element shall measure two [inches] by six inches and the lower element shall measure two [inches] by four inches. The bottom railing shall measure two [inches] by four inches.
- ✓ Front porches and front stoops of principal buildings shall face and be parallel to the front lot line or build-to line.
- ✓ Porch and stoop foundations shall be enclosed.
- ✓ Front and side porches and stoops shall not have unpainted, unstained or otherwise untreated or exposed pressure treated lumber along the building line that abuts a public right-of-way.

- ⊗ Balconies shall have not less than two clear unobstructed open or partially open sides. Partially open is to be constructed as 50 percent open or more. The total combined length of the open or partially open sides shall exceed 50 percent of the total balcony perimeter.
- ✗ Stoops and porch[es] shall be a minimum of two feet and a maximum of four feet from grade to the top of the stairs, unless existing topography is greater.
- ⊗ Stoops shall provide a minimum top landing of four feet by four feet.
- ⊗ Stoop stairs and landings shall be of similar width.
- ⊗ Stoops may be covered or uncovered.
- ✗ When provided, porches shall have a minimum clear depth of eight feet from building facade to outside face of column.
- ✗ Front porch widths shall be between 80 percent and 100 percent of the adjacent facade.
- ⊗ Side porch widths (including wraparound porches) shall be between 25 percent and 100 percent of the adjacent facade.
- ⊗ Enfronting porches may have multistory verandas, living space, or balconies above.
- ✎ Porch columns shall be spaced a maximum distance of eight feet on center.
- ✓ Front porch columns shall have foundation piers extending to grade.
- ✓ All porches shall be covered.
- ⊗ Enfronting balconies are only permitted on attached or detached one-family home facades when porches are not provided on said facades.
- ⊗ Enfronting balconies shall have a minimum clear depth of four feet.
- ⊗ Enfronting balcony widths shall be between 25 percent and 100 percent of the adjacent facade.
- ⊗ Balconies may be covered or uncovered.

STAFF COMMENT:

The Applicant should provide the material used for the porch columns. Porches must be made of painted or stained wood, stone, brick, or ornamental metal.

House is built on a slab foundation. A design exception is required for a porch built at grade.

The minimum clear depth between the front façade and the outside of the porch columns is 8'. The clear depth is 6' at its narrowest, which is not compliant.

Front porch widths must be between 80% and 100% of the adjacent façade. The porch is 70% of the façade, which is not compliant.

The Applicant should provide the spacing between porch columns, ensuring they are spaced no more than 8' on center.

(g) Door and window standards.

- ✓ The main entry door to enfronting principal buildings shall face, be visible from, and be accessible from the adjacent public sidewalk.
- ✗ The main entry door to all uses shall be linked to the sidewalk via a pedestrian walkway or wheelchair access.
- ✗ Building numbers at least six inches in height shall be located above or beside the street-facing pedestrian entrance, or above or beside the stairs accessing a front porch.
- ⊗ Doors that operate as sliders are prohibited along enfronting facades.
- ✎ Window panes shall be recessed a minimum of three inches and a maximum of eight inches from the adjacent facade, except on frame houses, on which panes shall be recessed a minimum of two inches.
- ✎ Where windows lights are utilized they shall be true divided lights, simulated divided lights, or one-over-one lights. Grids-between-glass (GBGs) are prohibited.
- ✓ Window trim shall not be flush with the exterior facade and shall provide a minimum relief of one-quarter inch or greater.
- ✗ Where used, window shutters shall match one-half the width of the window opening.
- ⊗ Painted window or door glass is prohibited.
- ⊗ Enfronting windows and door glass (except on churches and fire stations) shall utilize clear glass or tinted glass. Tinted glass shall have a transmittance factor of 50 percent or greater and shall have a visible light reflectance factor of ten or less.
- ✗ Windows shall be provided for a minimum of thirty (30) percent and a maximum of 50 percent of the total street-facing facade of the principal building, with each facade and story calculated independently.
- ✓ Street-facing window units shall not exceed 28 square feet with minimum height of three feet, with the exception of transoms and fan lights.
- ✗ Wood trim between four and six inches wide shall surround windows of wood frame structures. Windows grouped together shall have center mullions two inches wider than the side trim.
- ✗ Sills shall be of masonry, wood, stone, cast stone, or terra cotta.

The front door should be linked to the sidewalk/street via a pedestrian walkway.

Building numbers are required and should be shown on plans.

The Applicant should indicate the distance windowpanes are recessed from the adjacent façade, ensuring they are recessed at least 2".

The Applicant should ensure divided lights, if used, are not GBGs.

Window shutters must match one-half the width of the window opening.

Windows must enfront for between 30% and 50% of the Old Jonesboro Road facing façade.

The Applicant should ensure the window trim is made of wood.

Windows grouped together must have center mullions two inches wider than the side trim.

Windowsills are required and must be made of masonry, wood, stone, cast stone, or terra cotta.

STAFF COMMENT:

(h) Detached one-family dwellings/ two-family dwellings . In addition to the requirements of subsections (a) through (g), the following shall apply to detached one-family dwellings and two-family dwellings.

x

First Stories . First stories shall be elevated above the grade between two and four feet, unless existing topography is greater or unless wheelchair access is desired and cannot be provided from the side or rear.

h

Window Sills . Enfronting first story window sills should be no less than two and one-half feet and no more than three and one-half feet above finished floor elevation.

o

Wheelchair access . Where practical, wheelchair access, when provided, should be installed at the side or rear of the home in order to preserve the architectural character of the primary facade.

h

Architectural style . Architecture is one of the most critical components of place, and nowhere is this more evident than on building facades. The design and character of street-facing facades is a reflection of both buildings and their users, and must be carefully considered for its impact on the overall sense of place.

Ranch homes . Ranch homes shall include:

x

i. No more than one story as measured closest to the primary building line and excluding basements.

✓

ii. A building footprint that is rectangular or "L-shaped," with the end of the short leg of the "L" facing a street.

x

iii. Hipped or gabled roofs having gables with a minimum pitch of 15 and a maximum pitch of 35 degrees from horizontal, with roof lines running parallel to the street.

✓

iv. Enclosed roof rafters where roofs overhang. No dormers.

✓

v. Varied, but primarily equal, height windows along a single floor.

✓

vi. A symmetrical or asymmetrical front facade.

x

vii. No front porch.

House uses a slab foundation. A design exception is required to allow the first story to be at grade.

The Applicant should ensure windowsills are between 2.5' and 3.5' above finished floor elevation.

STAFF COMMENT:

The design of the house is closest to a ranch, but with craftsman-like elements such as the porch, higher gable pitch and perpendicular roof lines. As such, it does not conform to the established historical architectural standards.

o

Outbuildings . In conventional development, outbuildings are often designed and located as an afterthought. Yet in traditional towns and cities, outbuildings serve to enrich the quality of design through their placement, design and use. In Hapeville, where outbuildings are provided on many residential lots, their design must be to the same high standards found in the community's neighborhoods.

The following standards shall apply to construction of new outbuildings in residential districts.

i. On lots with one street frontage, set outbuildings back at least 15 feet behind the front facade of the principal building.

ii. On corner lots, outbuildings should be setback at least 15 feet behind the front facade of the principal building and with a setback greater than or equal to that of the facade along the side lot line.

iii. Outbuilding may be linked to the principal building with covered walks, trellises or enclosed breezeway.

iv. Outbuildings shall be of compatible material and architectural style to the principal building.

v. Outbuildings shall have a minimum height of 14 feet and a maximum height of that of the principal building or 25 feet, whichever is less.

vi. Outbuildings shall be set a minimum of ten feet from any other outbuilding on adjoining lots.

STAFF COMMENT:

RECOMMENDATIONS

Sec. 81-1-5. Applicability

Upon review of the information provided by the Applicant, the following items have been found to be missing or deficient and should be addressed prior to formalizing a recommendation:

The plans should include a new sidewalk on each enfronting street, with a minimum 1' landscape zone and 4' clear zone.

A minimum of one tree is required every 50' in the supplemental area. The application should be revised to ensure at least one tree is located every 50' along both Northside Drive and Old Jonesboro Road frontages.

The Applicant should clarify how the mechanical features on the west side of the dwelling will be screened.

A light at the front door should be included in plans.

The driveway is 15' wide at the curb but expands towards the garage, which is not compliant.

The Applicant should ensure the roof shingles have a warranty of at least 30 years and indicate the warranty on the plans.

The Applicant should indicate the material of the gutters and downspouts and show downspouts on the plans.

The Applicant should provide the material used for the porch columns. Porches must be made of painted or stained wood, stone, brick, or ornamental metal.

House is built on a slab foundation. A design exception is required for a porch built at grade.

The minimum clear depth between the front façade and the outside of the porch columns is 8'. The clear depth is 6' at its narrowest, which is not compliant.

Front porch widths must be between 80% and 100% of the adjacent façade. The porch is 70% of the façade, which is not compliant.

The Applicant should provide the spacing between porch columns, ensuring they are spaced no more than 8' on center.

The front door should be linked to the sidewalk/street via a pedestrian walkway.

Building numbers are required and should be shown on plans.

The Applicant should indicate the distance windowpanes are recessed from the adjacent façade, ensuring they are recessed at least 2".

The Applicant should ensure divided lights, if used, are not GBGs.

Window shutters must match one-half the width of the window opening.

Windows must enfront for between 30% and 50% of the Old Jonesboro Road facing façade.

The Applicant should ensure the window trim is made of wood.

Windows grouped together must have center mullions two inches wider than the side trim.

Windowsills are required and must be made of masonry, wood, stone, cast stone, or terra cotta.

House uses a slab foundation. A design exception is required to allow the first story to be at grade.

The Applicant should ensure windowsills are between 2.5' and 3.5' above finished floor elevation.

The design of the house is closest to a ranch, but with craftsman-like elements such as the porch, higher gable pitch and perpendicular roof lines. As such, it does not conform to the established historical architectural standards.

Once these items are addressed to the satisfaction of Staff and/or the Design Review Committee, the application can be approved.

CITY OF HAPEVILLE

DESIGN REVIEW APPLICATION

SUBMITTAL DATE: May 13, 2019

NOTE: All applications must be typed or neatly printed. Applications or an authorized representative is required to personally appear at the Design Review Meeting to answer questions.

The Design Review Committee meets the third Wednesday of each month. Every attempt will be made to place your application for review on the next month's agenda following the submittal of a completed application with supporting documents; however, that may not always be possible. The City reserves the right to schedule applications as deemed necessary.

Applicant: Paula Smith Contact Number: [REDACTED]

Applicants Address: PO Box 5, Ellenwood GA 30294

E-Mail Address: [REDACTED] Zoning Classification: R-0

Address of Proposed Work: 0 Northside Dr, Hapeville GA 30354

Parcel ID# (INFORMATION MUST BE PROVIDED): 14-0095-0010-022-9

Property Owner: Paula Smith Contact Number: [REDACTED]

Project Description (including occupancy type): Construct craftsman-style ranch plan with attached 2 car garage 3 bdrms & 2.5 baths, with bonus expansion is available.

Contractors Name: Creative Homes Contact Number: [REDACTED]

Contact Person: Paula Smith Contact Number: [REDACTED]

I hereby make application to the City of Hapeville, to the Design Review Committee for the above referenced property. I do hereby swear or affirm that the information provided here and above is true, complete and accurate, and I understand that any inaccuracies may be considered just cause for invalidation of this application and any action taken on this application. I understand that the City of Hapeville, Georgia, reserves that right to enforce any and all ordinances regardless of any action or approval on this application. I further understand that it is my/our responsibility to conform with all of City of Hapeville's Ordinances in full. I hereby acknowledge that all requirements of the City of Hapeville shall be adhered to. I can read and write the English language and/or this document has been read and explained to me and I have full and voluntarily completed this application. I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for violation thereof.

Paula Smith
Applicants Signature

5-13-19
Date

Project Class (check one):

☒ Residential ☐ Commercial ☐ Mixed-Use Development

Project Type:

☐ New Commercial Construction ☐ Addition to Existing Commercial Building
☐ Addition to Existing Residential Structure ☐ Accessory Structure
☐ Site Plan, Grading & Landscaping ☒ New Single Family Residential Construction
☐ Other

Total Square Footage of proposed New Construction: 2498 sq ft.

Total Square Footage of existing building: _____

Estimated Cost of Construction: \$250K

List/Describe Building Materials on the exterior of the **existing** structure: N/A

List/Describe Building Materials **proposed** for the exterior facade of the new structure: _____

AR shingles with a brick water-table below windows
mixed with cement siding in boards & batten style
along with smooth lap pattern. Front porch with
columns. Home has bonus room expansion potential

NOTICE

Please be advised that the Community Service Department is here to assist all applicants regarding application procedures, meeting schedules and necessary deadlines. The Community Service Department does **NOT** make any final decisions for the Design Review Committee, Sign Committee, Planning Commission, Board of Appeals or rezoning request to Mayor and Council.

A complete application must be submitted before the Community Service Department will accept an application and forward the same to the appropriate entity.

Building inspections issued by the City of Hapeville are contracted out to State of Georgia Certified Inspectors. These inspectors make the final decisions regarding building, electrical, plumbing and HVAC work completed in the City of Hapeville. The Hapeville Fire Marshal conducts inspections issued through the Community Services Department as needed. Both the Certified Inspectors and Fire Marshal make the final decisions before Certificates of Occupancy's are issued.

Please be advised that the Community Service Department shall not be responsible for your purchasing materials, equipment, items, signs, etc... before you receive final approval by any entity whose approval is required.

I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for a violation thereof.

(Please Print & Initial)

I Paula Smith P.S. swear or affirm that before receipt of an application, I have received this notice and I read and write the English language or I have had someone read and explain this document to me.



DEPARTMENT OF PLANNING AND ZONING

DESIGN REVIEW APPLICATION INSTRUCTIONS AND ACKNOWLEDGEMENT

I, the undersigned, agree that with my signature and submission to the City of Hapeville, I have done the following:

☒ Read the City of Hapeville's Architectural Design Guidelines and relevant Code sections for my proposed project. The Architectural Design Guidelines may be found here:
https://library.municode.com/ga/hapeville/codes/code_of_ordinances?nodeId=PTIICOOR_CH81ARDEST

☒ Ensured that my proposed project meets all of the required criteria per the City of Hapeville Code of Ordinances.

☒ Submitted my application materials in full by the published deadline for review by Staff prior to the Design Review Committee meeting.

☐ Identified and explained all deficiencies or components of the proposed project that do not meet with the requirements set forth in the Code. This explanation should be submitted as a separate document in the application.

☒ Understood that any deficiencies in the application must be resolved at least 10 days prior to the Design Review Committee meeting or the application may not be presented to the DRC for review.

☒ Submitted architectural drawings and details for all projects unless allowed in writing by the Community Services or Planning & Zoning Department.

☒ Agreed to submit any required revisions by the Design Review Committee with updated drawings to the Community Services Department for review prior to requesting any permits.

<u>Paula Smith</u>	<u>Paula Smith</u>	<u>5-13-19</u>
Printed Name	Signature	Date

Should you have any questions, please do not hesitate to contact the Community Services Department at 404-669-2120.

Thank you for interest and investment in the City of Hapeville.

Exhibit "A" Legal description
0 Northside Drive, Hapeville, Georgia

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN LAND LOT 95 OF THE 14th DISTRICT OF FULTON COUNTY, GEORGIA, AND BEING LOT 16, BLOCK A OF UNIT A SUBDIVISION OF THE PROPERTY OF JOANN SIMPSON HOLMES, FORMERLY PROPERTY OF S. R. YOUNG AND GEORGE LONGINO ACCORDING TO PLAT RECORDED IN PLAT BOOK 32, PAGE 25, FULTON COUNTY RECORDS AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT AT THE INTERSECTION OF THE WEST SIDE OF NORTHSIDE DRIVE (FORMERLY BORING STREET) AND THE NORTHEAST SIDE OF OLD JONESBORO ROAD (IF THE LINES WERE EXTENDED RATHER THAN FORMING A CURVE) THENCE RUNNING 175.9 FEET NORTHWESTERLY ALONG THE NORTHEAST SIDE OF OLD JONESBORO ROAD TO LOT 17; THENCE NORTHEASTERLY 105 FEET TO A POINT; THENCE EASTERLY 120 FEET ALONG THE SOUTH SIDE OF LOT 15 TO THE WEST SIDE OF NORTHSIDE DRIVE, THENCE SOUTHERLY 132.3 FEET ALONG THE WEST SIDE OF NORTHSIDE DRIVE TO THE POINT OF BEGINNING. SAID LOT IS UNIMPROVED.

PARCEL 14-0095-0010-022-9

Subject to easements, covenants, restrictions, agreements, right of way deeds, agreements, matters of plat, governmental ordinances and other lawful matters affecting said property

3359



Exit Street View



Google Earth

© 2018 Google
© 2019 Google

Imagery Date: 10/2018 33°39'43.46"N 84°24'05.66"W elev. 938 ft eye alt. 936 ft

© 2019 Google

SEDIMENT CONTROL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sd1	SEDIMENT BARRIER			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. MAY BE HANDMADE BARRIERS OF STYRE OF ANY POLYMER, LUMBER, METAL, OR A COMBINATION THEREOF. THE BARRIER MUST REMAIN UPRIGHT THROUGHOUT THE RESPECTIVE CONSTRUCTION PERIOD.
Ds1	TEMPORARY VEGETATION			ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds2	PERMANENT VEGETATION			ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, GRASS, OR OTHER PLANTS TO PREVENT EROSION.
Co	CONSTRUCTION SITE			A PERMITTING OFFICE SHALL LOCATE THE CONSTRUCTION SITE TO PREVENT A SLICE FOR SEDIMENTATION FROM THE CONSTRUCTION SITE TO THE PUBLIC.

GC TO PRESERVE AND PROTECT ANY USEABLE EX. UTILITIES

GRASSING SCHEDULE

SPECIES	RATE/AGE	PLANTING DATES	PROTECTIONS
PERFORATED UNGRADED	75 LBS.	1/1 - 1/21	6-12-12 5000 LBS.
LOWESGRASS	4 LBS.	5/1 - 6/1	6-12-12 5000 LBS.
TALL FESCUE GRASS	50 LBS.	6/1 - 10/1	6-12-12 5000 LBS.
COMMON PERENNIAL GRASS (FALLOWS)	40 LBS.	11/1 - 4/1	6-12-12 5000 LBS.
COMMON PERENNIAL GRASS (FALLOWS)	20 LBS.	5/1 - 7/1	6-12-12 5000 LBS.
PERENNIAL GRASS (FALLOWS)	100 LBS.	10/1 - 1/15	10-10-10 5000 LBS.
PERENNIAL GRASS (FALLOWS)	100 LBS.	10/1 - 1/15	10-10-10 5000 LBS.
PERENNIAL GRASS (FALLOWS)	100 LBS.	10/1 - 1/15	10-10-10 5000 LBS.
PERENNIAL GRASS (FALLOWS)	100 LBS.	10/1 - 1/15	10-10-10 5000 LBS.

APPROX. STARTING DATE: 8-21-19
APPROX. COMPLETION DATE: 1-21-20

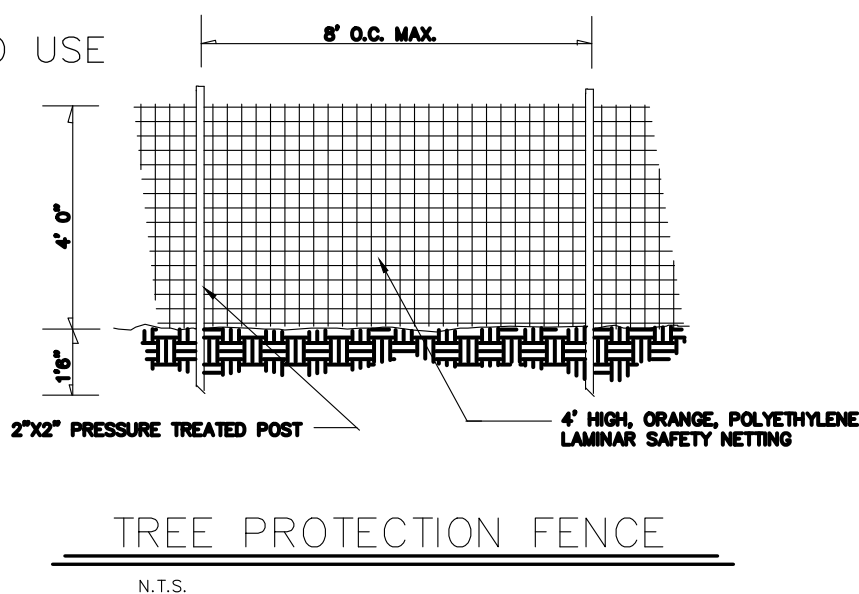
ITEM	DESCRIPTION	MONTHS OF ACTIVITY
		1 2 3 4 5
1	SILT BARRIER INSTALLATION	
2	CLEARING AND GRUBBING	
3	RETAINING WALL	
4	GRADING	
5		
6	UTILITIES	
7	TEMPORARY GRASSING	
8	BUILDING	
9	CURB AND GUTTERS	
10	SIDEWALKS	
11	BASE AND PAVING	
12	FINAL GRASSING & REMOVAL OF TEMPORARY STRUCTURES	
13	MAINTENANCE OF EROSION CONTROL STRUCTURES	

SITE PLAN INFORMATION PROVIDED FOR PERMITTING PROCESS ONLY, NO OTHER INTENDED USE

"NO WATERS OF THE STATE WITHIN 200 FEET OF PROJECT SITE."

"NO INERT OR BURY PITS ON SITE"

TREES TO BE DESTROYED OR REMOVED.



"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES".

"EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE".

"EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY".

"DISTURBED AREAS LEFT IDLE SHALL BE STABILIZED WITH TEMPORARY VEGETATION AFTER 14 DAYS AFTER 30 DAYS, PERMANENT VEGETATION SHALL BE ESTABLISHED".

"SILT FENCE SHALL BE TYPE C AS PER THE MANUAL FOR SEDIMENT & EROSION CONTROL IN GEORGIA, AND BE WIRE REINFORCED".

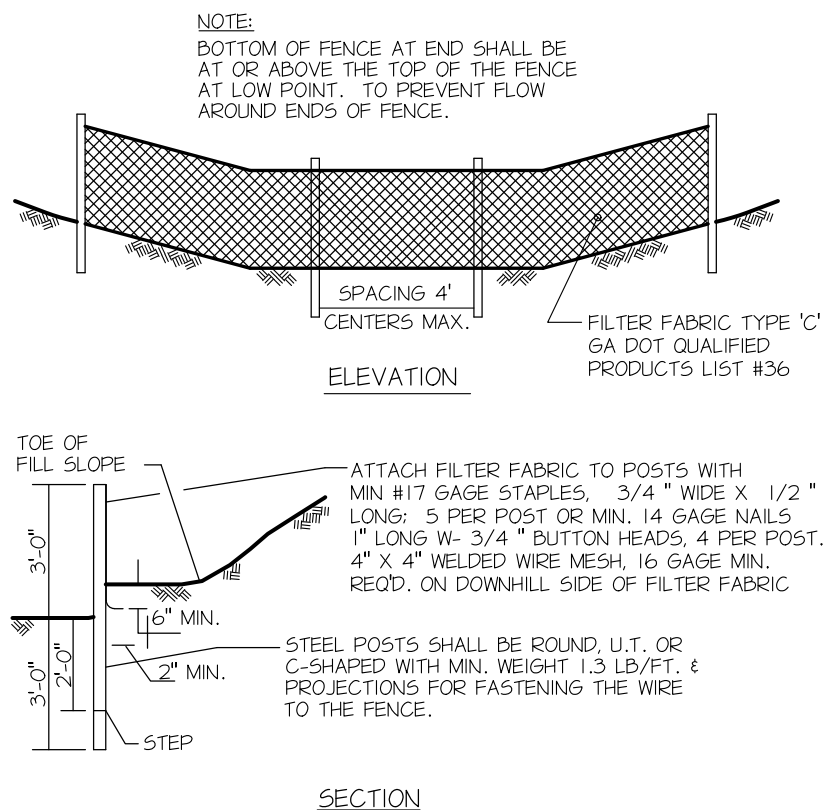
"ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION".

GC TO VERIFY ALL ELEVATIONS IN FIELD.

"NO WATERS OF THE STATE WITHIN 200 FEET OF PROJECT SITE."

"NO INERT OR BURY PITS ON SITE"

LEVEL 11 CERTIFIED DESIGN PROFESSIONAL
TONY DAWSON
CERTIFICATION NUMBER 0000039605
ISSUED: 3/9/2007 EXPIRES: 3/9/2022

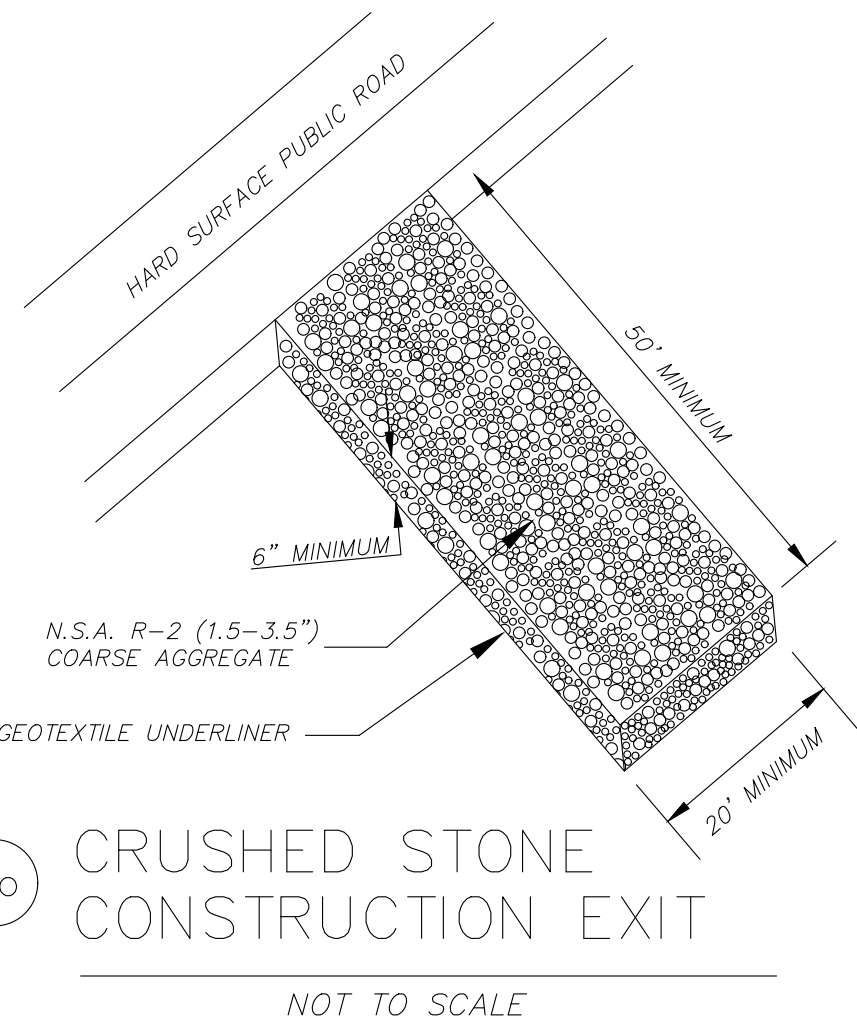
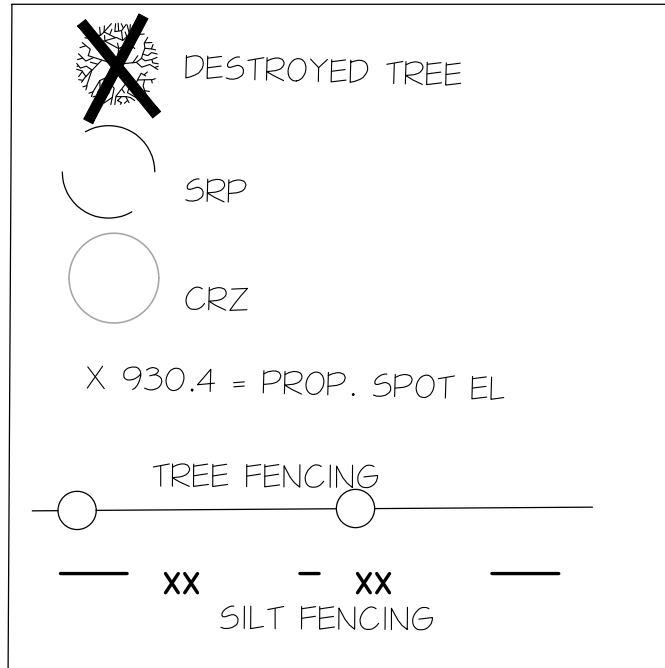
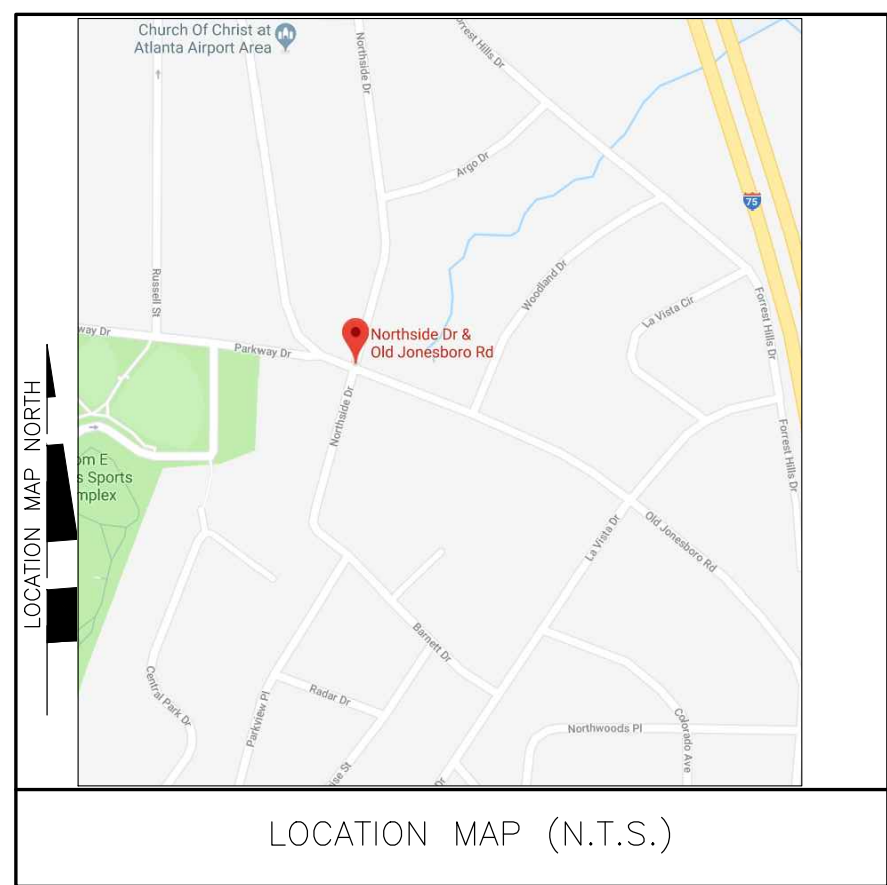
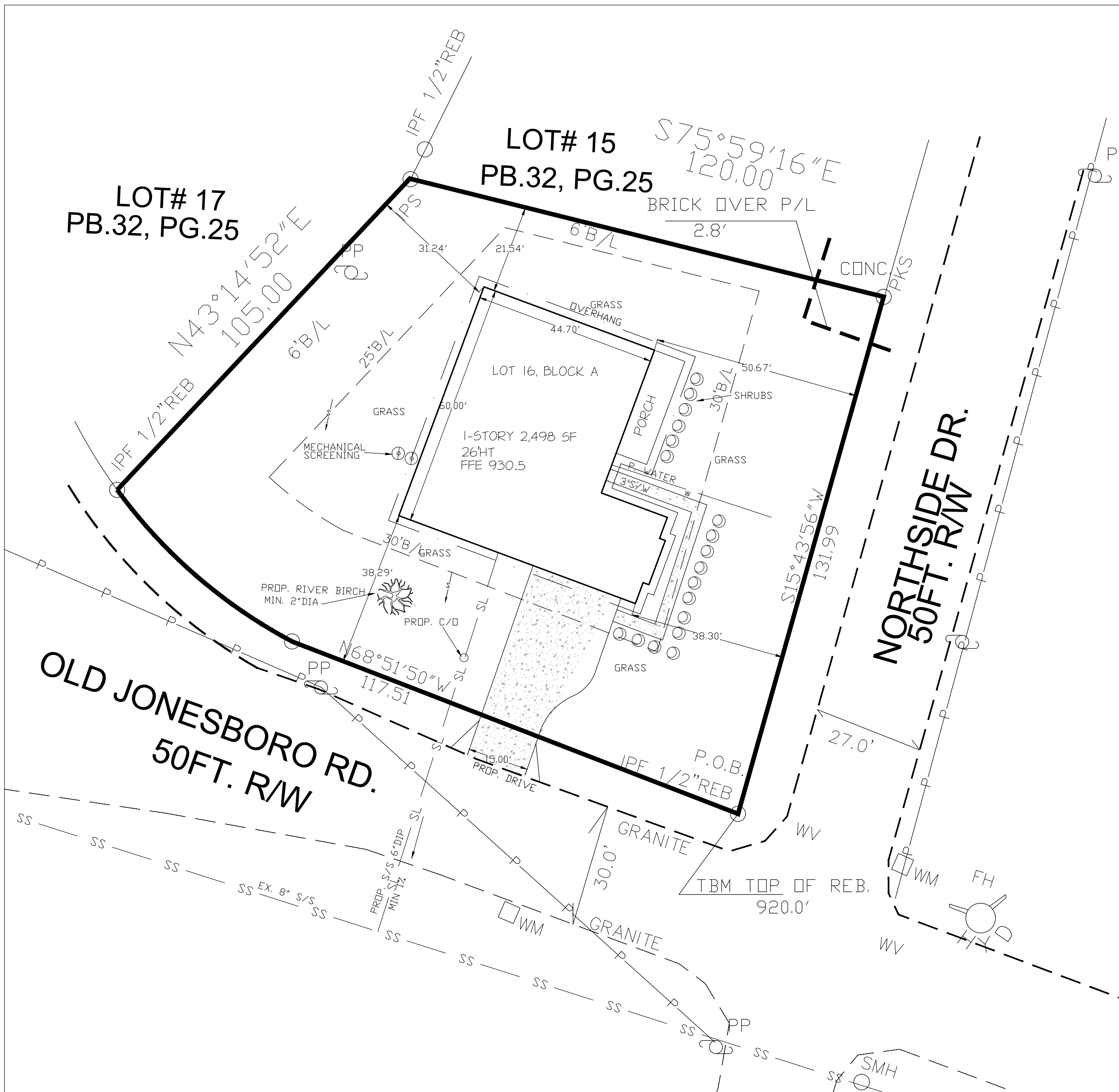


NOTE: SILT FENCE TO MEET REQUIREMENTS OF SECTION 171, GEORGIA D.O.T. SPECS., LATEST EDITION

SEDIMENT CONTROL FENCE
N.T.S.

TYPE "C" SILT FENCE

20 10 0
SCALE IN FEET



0.22 ACRES DISTURBED

SITE INFO
0.41 ACRES, 17,859 SF
ZONED R

MAX. 70% LOT COVERAGE = 12,501 SF

TOTAL HOUSE SF = 2,498 SF
PROP. GARAGE SF = 500 SF
PROP. PORCH SF = 212 SF
PROP. DRIVE SF = 780 SF

PROP. HOUSE SF = 2,498 SF
PROP. GARAGE SF = 500 SF
PROP. PORCH SF = 212 SF
PROP. DRIVE SF = 780 SF

TOTAL IMPRV. SF. = 3,990 SF
22% LOT COVERAGE = 3990/17859 SF

24HR CONTACT/DEVELOPER
OWNER
PAULA SMITH
POST BOX 5
ELLENWOOD, GA 30294
404-427-8558

SITE & LANDSCAPE PLAN

FOR
PAULA SMITH
LOCATED AT
NORTHSIDE DR
LAND LOT 98 14TH DISTRICT
HAPEVILLE, GA

SITE PLAN

SHEET 1 of 2

DAWSON ENGINEERING CONSULTANT, LLC
1569 CHERY HILL ROAD
CONYERS, GEORGIA 30094
678-485-9610 FAX: 678-720-5795

DRAWN BY: TLD
CHECKED BY: TLD
APPROVED: TLD
RELEASED FOR CONSTRUCTION:



DATE: 11-20-19
SCALE: 1" = 20'
REVISIONS
JOB NO. 19116CP
DATE: 5-9-19
TD

SEDIMENT CONTROL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sd1	SEDIMENT BARRIERS			A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE A SEDIMENT BARRIER OR A SILT FENCE. IT MUST BE MAINTAINED AS A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
Ds1	DISTURBED AREA REVEGETATION			ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SPECIES ON DISTURBED AREAS.
Ds2	DISTURBED AREA REVEGETATION			ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, ETC. OF SUITABLE SPECIES ON DISTURBED AREAS.
Co	CONSTRUCTION EXIT			A DESIGNATED ROUTE AND LOCATION IN THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES BEFORE ENTERING PUBLIC STREETS.

GRASSING SCHEDULE

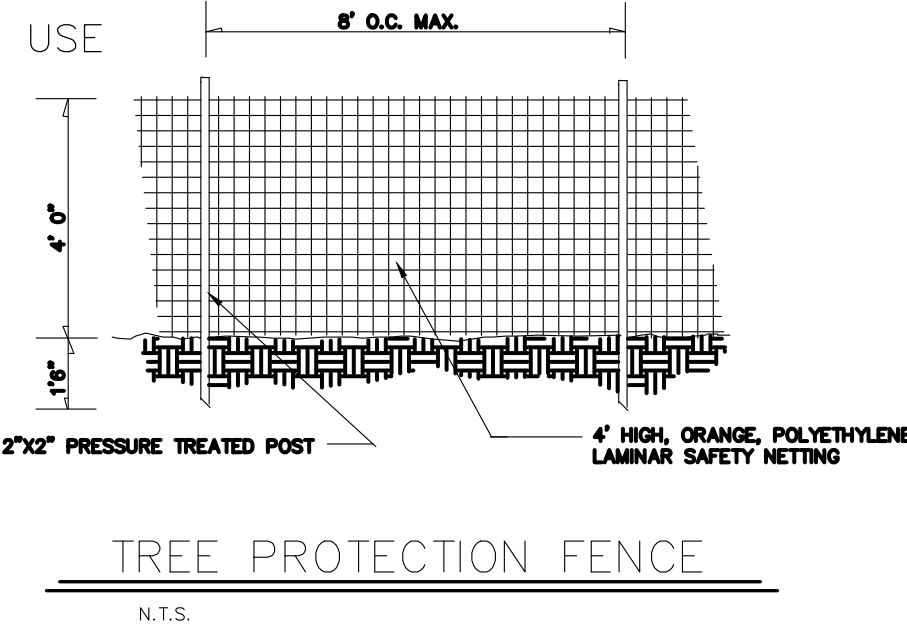
SPECIES	RATE/ACRE	PLANTING DATES	FERTILIZER ANALYSIS RATE/ACRE
PERFECTA (UNGRADED)	75 LBS.	1/1 - 12/1	6-12-12 1000 LBS.
LOVEGRASS	4 LBS.	5/1 - 8/1	6-12-12 1000 LBS.
TALL FESCUE GRASS	50 LBS.	8/1 - 10/1	6-12-12 1000 LBS.
COMMON PERMA GRASS (UNGRADED)	40 LBS.	1/1 - 4/1	6-12-12 1000 LBS.
COMMON PERMA GRASS (GRADED)	20 LBS.	5/1 - 7/1	6-12-12 1000 LBS.
PERFECTA (UNGRADED) FOR TEMPORARY USE ONLY	100 LBS.	10/1 - 1/15	10-10-10 1000 LBS.
PERFECTA (UNGRADED) FOR TEMPORARY USE ONLY	168 LBS.	8/1 - 12/1	10-10-10 1000 LBS.
SUBGRASS FOR TEMPORARY USE ONLY	60 LBS.	4/1 - 8/1	10-10-10 1000 LBS.

APPROX. STARTING DATE: 8-21-19
APPROX. COMPLETION DATE: 1-21-20

ITEM	DESCRIPTION	MONTHS OF ACTIVITY				
		1	2	3	4	5
1	SILT BARRIER INSTALLATION					
2	CLEARING AND GRUBBING					
3	RETAINING WALL					
4	GRADING					
5						
6	UTILITIES					
7	TEMPORARY GRASSING					
8	BUILDING					
9	CURB AND CUTTERS					
10	SIDEWALKS					
11	BASE AND PAVING					
12	FINAL GRASSING & REMOVAL OF TEMPORARY STRUCTURES					
13	MAINTENANCE OF EROSION CONTROL STRUCTURES					

SITE PLAN INFORMATION PROVIDED FOR PERMITTING PROCESS ONLY, NO OTHER INTENDED USE

"NO WATERS OF THE STATE WITHIN 200 FEET OF PROJECT SITE."
"NO INERT OR BURY PITS ON SITE"
TREES TO BE DESTROYED OR REMOVED.



"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES".

"EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE".

"EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY."

"DISTURBED AREAS LEFT IDLE SHALL BE STABILIZED WITH TEMPORARY VEGETATION AFTER 14 DAYS; AFTER 30 DAYS, PERMANENT VEGETATION SHALL BE ESTABLISHED".

"SILT FENCE SHALL BE TYPE C AS PER THE MANUAL FOR SEDIMENT & EROSION CONTROL IN GEORGIA, AND BE WIRE REINFORCED".

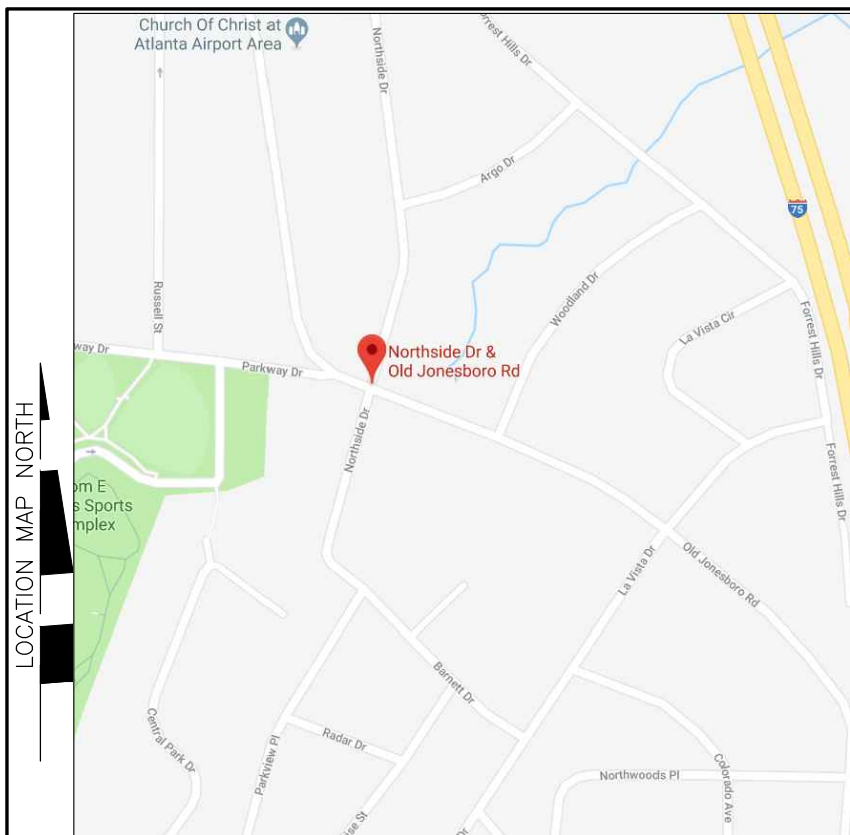
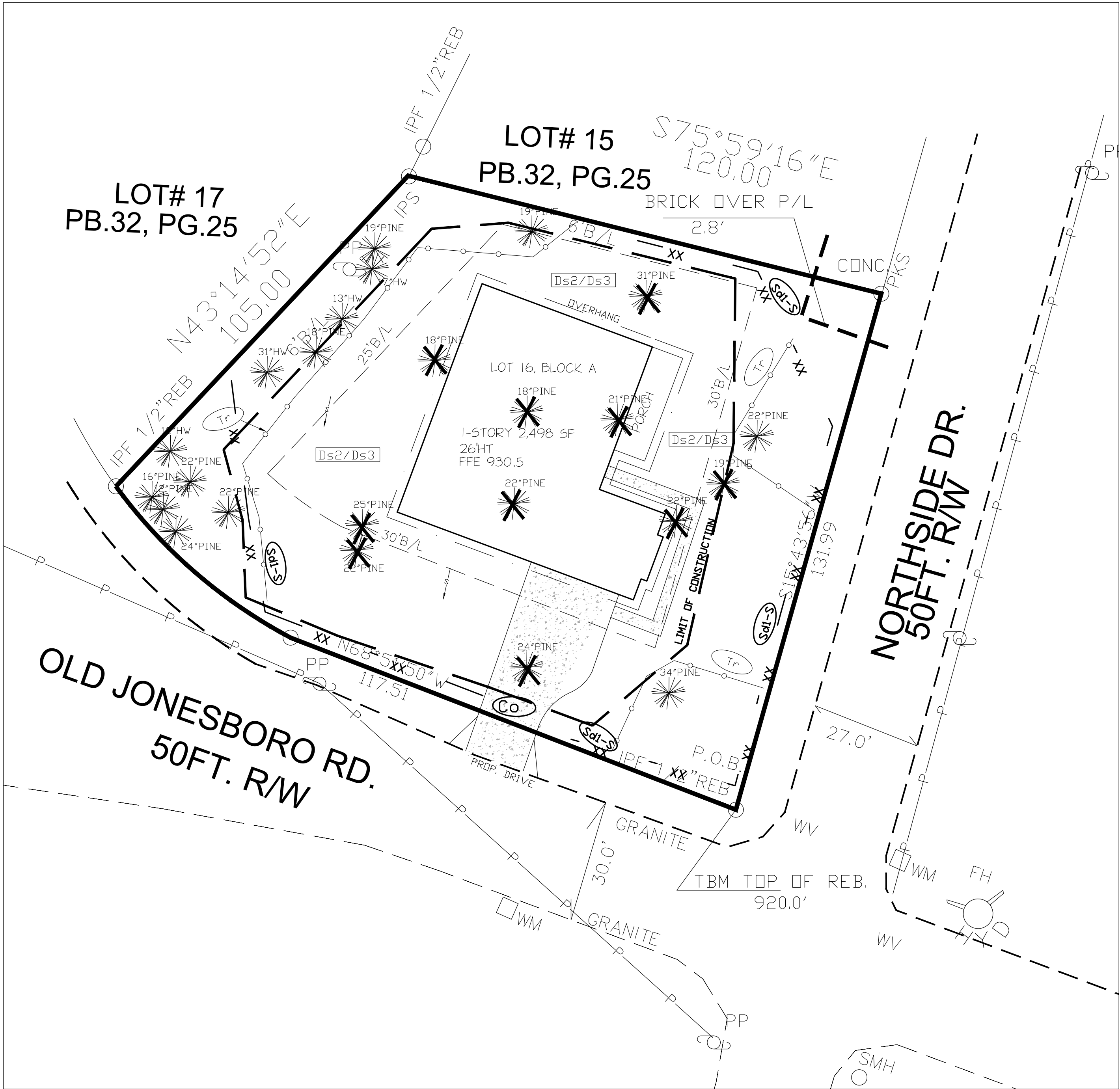
"ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION."

GC TO VERIFY ALL ELEVATIONS
IN FIELD.

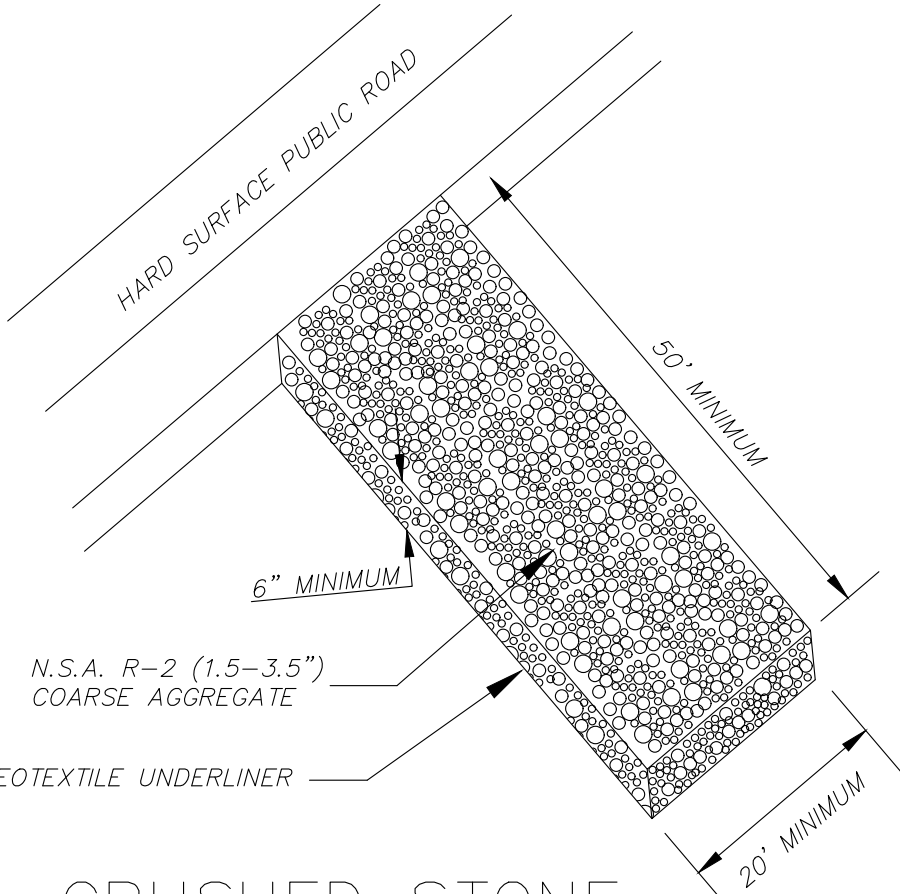
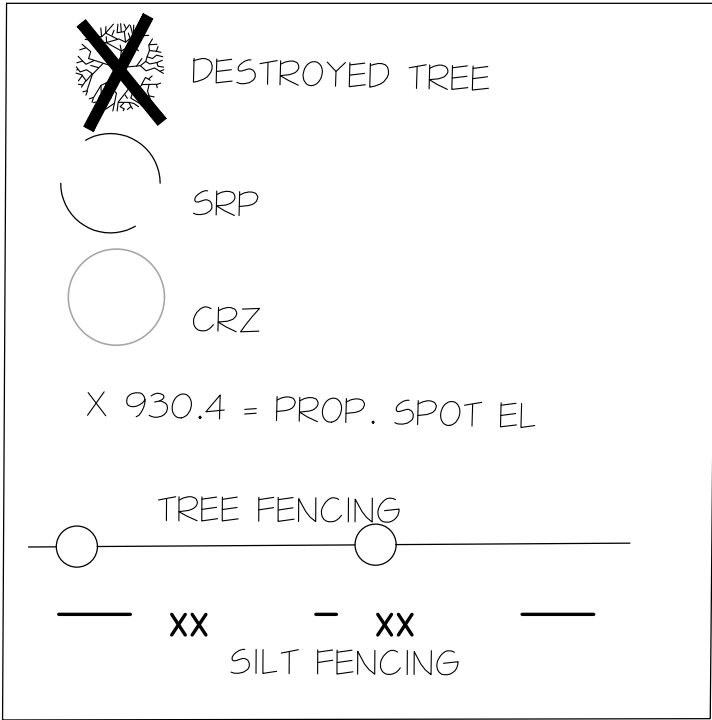
"NO WATERS OF THE STATE WITHIN 200 FEET OF PROJECT SITE."

"NO INERT OR BURY PITS ON SITE"

LEVEL 11 CERTIFIED DESIGN PROFESSIONAL
TONY DAWSON
CERTIFICATION NUMBER 0000039605
ISSUED: 3/9/2007 EXPIRES: 3/9/2022



LOCATION MAP (N.T.S.)



CRUSHED STONE
CONSTRUCTION EXIT

NOT TO SCALE

0.22 ACRES DISTURBED

SITE INFO
0.41 ACRES, 17,859 SF
ZONED R

MAX. 70% LOT COVERAGE = 12,501 SF

TOTAL HOUSE SF = 2,498 SF
FAR= 2498/17859 = 0.14 < 0.5

PROP. HOUSE SF = 2,498 SF
PROP. GARAGE SF = 500 SF
PROP. PORCH SF = 212 SF
PROP. DRIVE SF = 780 SF

TOTAL IMPERV. SF. = 3,990 SF
22% LOT COVERAGE = 3990/17859 SF

24HR CONTACT/DEVELOPER
OWNER
PAULA SMITH
POST BOX 5
ELLENWOOD, GA 30294
404-427-8558

EROSION & TREE PROTECTION

FOR
PAULA SMITH
LOCATED AT
NORTHSIDE DR
LAND LOT 98 14TH DISTRICT
HAPEVILLE, GA

SHEET 2 of 2

DRAWN BY: TLD
CHECKED BY: TLD
APPROVED: TLD
RELEASED FOR CONDS.



DATE	REVISIONS	JOB NO.	DATE
1	1	19116CP	5-9-19

FLOOD NOTES

BASED ON THE INFORMATION SHOWN ON THE FLOOD HAZARD BOUNDARY MAPS FURNISHED BY FEMA, IT IS MY OPINION THAT THE PROPERTY SHOWN IS OUTSIDE THE 100-YEAR FLOOD HAZARD AREA.
 PANEL# 13121C 0367F DATED 09/18/2013

REF. NORTH
 SINGLE MAGNETIC OBSERVATION
 05-09-19

BUILDER NEEDS TO CHECK WITH THE CITY FOR WATER AND SEWER TAPS.

LEGENDS OF SYMBOLS

P.O.B.	POINT OF BEGINNING
P.O.R.	POINT OF REFERENCE
GM	GAS MARKER/GAS METER
OOTP	OPEN TOP PIPE
OIPF	IRON PIN FOUND
OIPS	IRON PIN SET 1/2"Ø REBAR W/ CAP
C/G	CURB AND GUTTER
P/L	PROPERTY LINE
R/W	RIGHT-OF-WAY
L.L.L.	LAND LOT LINE
CMF	CONCRETE MONUMENT FOUND
POL	POINT ON LINE
B.O.C.	BACK OF CURB
FNC	FENCE CORNER
EP	EDGE OF PAVEMENT
PC	PROPERTY CORNER
SP	STEEL POLE
PP	POWER POLE
GW	GUY WIRE
JB	EXISTING JUNCTION BOX
WV	EXISTING WATER VALVE
FH	EXISTING FIRE HYDRANT
T.B.M.	TEMPORARY BENCH MARK
B.F.E.	BASE FLOOD ELEVATION
M.F.E.	MINIMUM FLOOR ELEVATION
HW	HEADWALL
SWCB	SINGLE WALL CATCH BASIN
DWCB	DOUBLE WALL CATCH BASIN
OS	OUTLET STRUCTURE (RISER)
DI	DROP INLET
W	WATER METER
W	WATERLINE
SS	SANITARY SEWER LINE
OVP	OVERHEAD POWERLINE
UFO	UNDERGROUND FIBER OPTICS
G	GASLINE
LS	LANDSCAPING
PKS (F)	PK NAIL SET (FOUND)
EX-MH	EXISTING SANITARY SEWER MANHOLE
SSMH	SANITARY SEWER MANHOLE
S.S.E.	SANITARY EASEMENT
C/O	CLEAN-OUT
FDC	FIRE DEPARTMENT CONNECTOR
C.L.F.	CHAIN LINK FENCE
D.E.	DRAINAGE EASEMENT
R.R.E.	RAIL ROAD EASEMENT
H	HEIGHT
UE	UNDERGROUND ELECTRIC
AC	AIRCONDITION UNITS

THIS BLOCK RESERVED FOR THE CLERK OF THE SUPERIOR COURT

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	CHORD DIRECTION
C1	57.36	127.08	56.87	N49°05'14"W

THE FIELD DATA UPON WHICH THIS MAP OR PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 43,456 FEET, AND AN ANGULAR ERROR OF 12" PER ANGLE POINT, AND WAS ADJUSTED USING COMPASS RULE.

THIS MAP OR PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 295,477 FEET.
 EQUIPMENT USED GTS 220

SURVEY ORDERED BY:
 NAME: PAULA SMITH
 404-427-8558

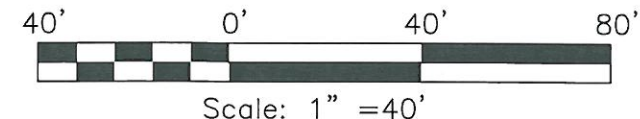
PARCEL# 14009500100229
 LOT#16 BLOCK A
 UNIT A PB. 32, PG. 35
 D.B. 58552, PG. 286

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, NOR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.



A'NGEL M. MARRERO P.L.S. #2642
 Certified Design Professional # 4479

** PURSUANT TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, THE TERM "CERTIFY" OR "CERTIFICATION" MEANS TO DECLARE A PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.



GENERAL NOTES

- TOGETHER WITH ALL EASEMENTS RECORDED OR UNRECORDED.
- LAST DATE OF FIELD SURVEY 05/09/19
- ALL LINEAR DISTANCES SHOWN ON PLAT SHALL BE HORIZONTAL.
- INFORMATION REGARDING THE PRESENCE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THE INFORMATION IS BASED ON THE LOCATION OF ABOVE GROUND APPURTENANCES, AVAILABLE SITE PLANS, AND PAINT PLACED BY UNDERGROUND SERVICES.
 "NO CERTIFICATION IS MADE AS TO THE ACCURACY"
- ALL BEARINGS AND DISTANCES WERE MEASURED AND USED.
- This survey was prepared without benefit of a title report which may reveal additional conveyances, easements or rights-of-way not shown hereon.

REV.	DESCRIPTION	DATE
	SOUTHSIDE SURVEYING & PLANNING LSF000831	#18 ATLANTA ST. MCDONOUGH, GA 30253 Phone: (770) 320-8009 Fax: (770) 320-8098
	RETRACEMENT SURVEY FOR: PAULA SMITH "CREATIVE HOMES" CITY OF HAPEVILLE FULTON County, GA	1 1
	Land Lot 95 14TH Dist.	
	Drawn By: AMM SR.	Scale: 1"=40'
	Dwg No: 2-190531A	Date: 05/10/19

PROVIDE SUPPORT FOR
PORCH AND STEPS TO
GRADE AS REQ'D.

NOTE: WHEN TWO ROOFS INTERSECT WITH
DIFFERENT ROOF PITCHES, BLOCK TOP OF
STUD WALLS AS REQ'D. TO LINE UP FASCIAS
AT A MINIMUM OF 1'-0" OVERHANG

NOTE: ELEVATIONS REFLECT A
SLAB FOUNDATION. IF ANOTHER
FOUNDATION IS USED, BUILDER SHOULD
DISREGARD FOUNDATION SHOWN

NOTE: RAFTERS ARE
PITCHED FROM TOP
OF CEILING JOISTS

NOTE: ATTIC VENTILATION PER
LOCAL CODES AND REQUIREMENTS

GENERAL FRAMING NOTES

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5. PROVIDE 1/4" CROSS BRIDGING AT MID POINT OF SPAN OR 8'-0" O.C. MAXIMUM IN ALL FLOORS.
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15. ALL SOLID FRAMING, COLUMNS, BEAMS, ETC. TO BE DESIGNED BY LOCAL STRUCTURAL ENGINEER AND MEET ALL LOCAL CODES.
16. ALL FRAMED WALL DIMENSIONS ARE BASED ON 2" x 4" STUDS UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, REGULATIONS, AND FHIA/VIA MPS.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO SPENCER RESIDENTIAL, INC. FOR JUSTIFICATION, AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTORS SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.
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FRONT ELEVATION
SCALE: 1/4" = 1'-0"

4 3/4" CORNER BOARDS
HARDI-SHAKES
BRICK ROWLOCK
BRICK VENEER
HARDI-SIDING

3 TAB ARCHITECTURAL SHINGLES
8" FASCIA
8" FRIEZE
4" TRIM W/ BACKBAND



REAR ELEVATION
SCALE: 1/4" = 1'-0"

Knight Design Group, Inc.
1270 CAROLINE STREET SUITE D416
ATLANTA, GEORGIA 30307
PHONE: (404) 984-4734 * Email: csknightdesigner@gmail.com

NEW SPEC HOME FOR:
NORTHSIDE DRIVE
HAPEVILLE, GEORGIA

C:\Users\Corry_Knight\Knight_Design_Group\DC-20-034\20-034-034_Plan_Hapeville_Rear_Elev-034_Architects.dwg

DRAWN CSK
CHECKED CSK
JOB NUMBER 19-034
SCALE AS NOTED
DATE 4.25.2019
SHEET

A-1.0
1 OF 2

REVISIONS		DATE		DESCRIPTION	
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

DATE OF THIS PLOT:
Wednesday, May 8, 2019

SEAL

PROVIDE SUPPORT FOR
PORCH AND STEPS TO
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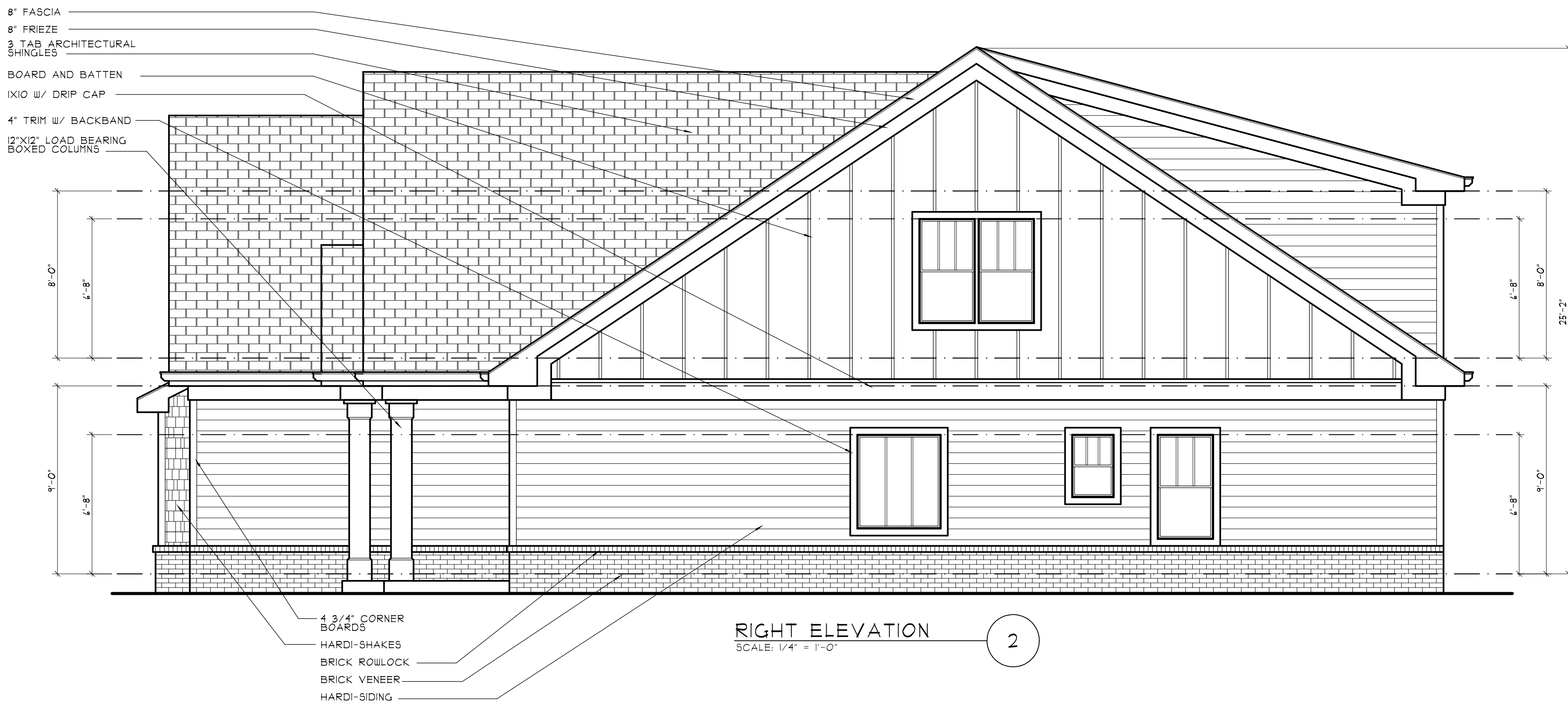
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LEFT ELEVATION
SCALE: 1/4" = 1'-0"



RIGHT ELEVATION
SCALE: 1/4" = 1'-0"

C:\Users\Garry_Knight\Knight_Design_Group\02-20-2019\19-034_Purple_Hopeville_Ranch\19-034_Architects

REVISIONS	
NO	DATE DESCRIPTION

DATE OF THIS PLOT:
Wednesday, May 8, 2019

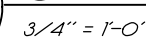
SEAL

Knight Design Group, Inc.
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ATLANTA, GEORGIA 30307
PHONE: (404) 984-4734 * Email: csknightdesigner@gmail.com

NEW SPEC HOME FOR:
NORTHSIDE DRIVE
HAPEVILLE, GEORGIA

DRAWN	CSC
CHECKED	CSC
JOB NUMBER	19-034
SCALE	AS NOTED
DATE	4.25.2019
SHEET	A-2.0

2 OF 6

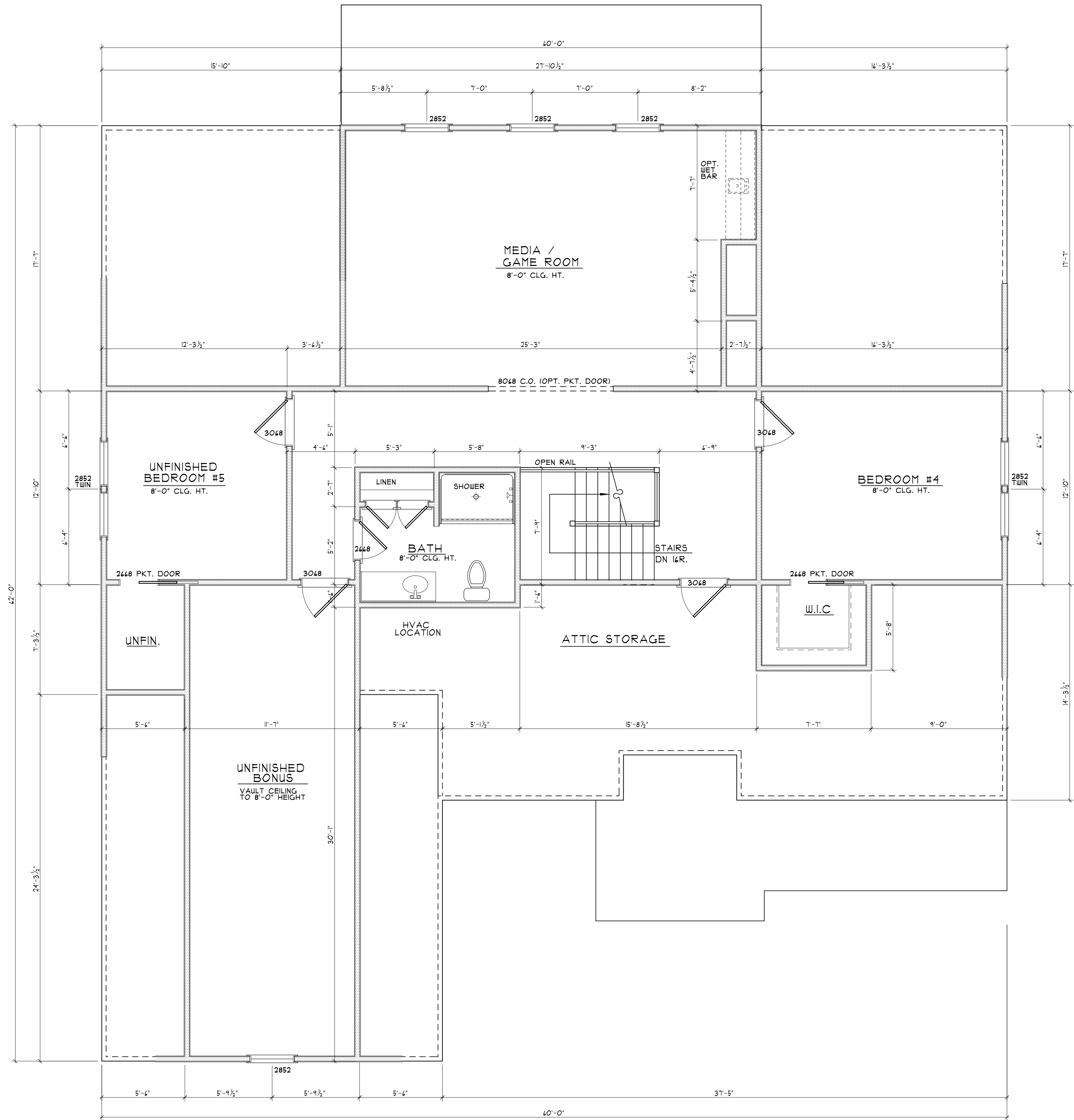


C:\Users\Corey Knight\Knight Design Group\DCAD-20\KDG-2019\19-034_Paula Hopeville Ranch\19-034_Architecturals

DRAWN	C.S.K.
CHECKED	C.S.K.
JOB NUMBER	19-034
SCALE	AS NOTED
DATE	4.25.2019
SHEET	

A-3.0

3 OF 6



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

1

C:\Users\Garry_Knight\Knight_Design_Group\DC\20-034\20-034\20-034_Plan_Hopeville_Ranch\19-034_Architects.rvt

NEW SPEC HOME FOR:
NORTHSIDE DRIVE
HAPEVILLE, GEORGIA

Knight Design Group, Inc.

1270 CAROLINE STREET SUITE D416

ATLANTA, GEORGIA 30307

PHONE: (404) 984-4734 * Email: cknightdesigner@gmail.com

DRAWN CSK
CHECKED CSK
JOB NUMBER 19-034
SCALE AS NOTED
DATE 4.25.2019
SHEET

A-5.0

5 OF 6

REVISIONS

NO. DATE DESCRIPTION

DATE OF THIS PLOT:
Wednesday, May 8, 2019

SEAL

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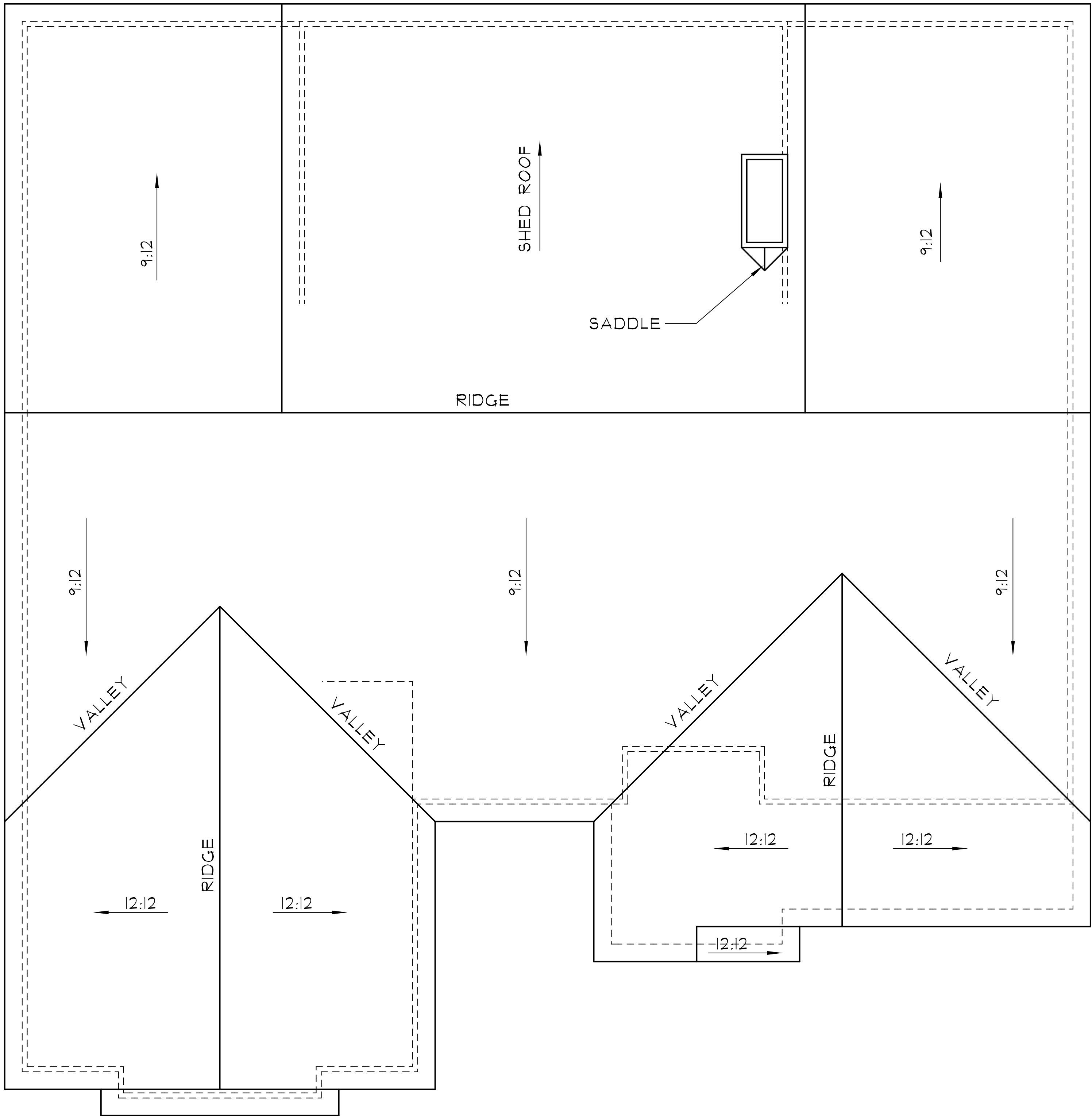
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3. ALL HEADERS SHALL BE 2-2x10's WITH 1/2" PLYWOOD FLITCH
PLATE UNLESS OTHERWISE NOTED.
4. FRAMER TO INSTALL DOUBLE FLOOR JOISTS UNDER PARTITION WALL
PARALLEL TO JOIST DIRECTION.
5. PROVIDE 1x4 CROSS BRIDGING AT MID POINT OF SPAN OR 8'-0"
O.C. MAXIMUM IN ALL FLOORS.
6. ALL EXTERIOR CORNERS (INSIDE AND OUTSIDE CORNERS) SHALL BE
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AT ALL INTERMEDIATE STUDS (OPTION - APPROVED DIAGONAL
CORNER BRACES BOTH DIRECTIONS AT ALL CORNERS).
7. ALL COLUMNS OR SOLID FRAMING SHALL EXTEND DOWN THRU ALL
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BY A THICKENED SLAB, GRADE BEAM, OR FOOTING DESIGNED TO CARRY
LOAD.
8. PROVIDE DOUBLE 2x8 STRONGBACK AT MID SPAN FOR CEILING JOISTS
WITH SPAN GREATER THAN 10'-0".
9. PROVIDE COLLAR TIES AT UPPER 1/3 OF VERTICAL DISTANCE BETWEEN
RIDGE BOARD AND CEILING JOISTS AT 4'-0" O.C. MAXIMUM.
10. HIP, VALLEY RAFTERS, AND RIDGE BOARDS SHALL BE ONE "2x" SIZE
LARGER THAN RAFTERS.
11. ROOF DECKING SHALL BE 1/2" CDX PLYWOOD MINIMUM.
12. WHERE PRE ENGINEERED FLOOR AND ROOF TRUSSES ARE USED, TRUSS
MANUFACTURER MUST PROVIDE SHOP DRAWINGS WHICH BEAR SEAL OF
REGISTERED ENGINEER IN STATE IN WHICH WORK IS TO BE PERFORMED.
13. ALL CEILING JOISTS AND RAFTER BRACING TO BEAR ON LOAD BEARING
WALLS DESIGNED TO CARRY LOAD THRU ALL LEVELS AND TERMINATE AT
BASEMENT FLOOR AND BE SUPPORTED BY THICKENED SLAB GRADE BEAM
OR FOOTING DESIGNED TO CARRY LOAD.
14. ALL BASEMENT WALLS, BEAMS, AND COLUMNS TO BE DESIGNED BY LOCAL
STRUCTURAL ENGINEER AND MEET ALL LOCAL CODES.
15. ALL SOLID FRAMING, COLUMNS, BEAMS, ETC., TO BE DESIGNED BY
LOCAL STRUCTURAL ENGINEER AND MEET ALL LOCAL CODES.
16. ALL FRAMED WALL DIMENSIONS ARE BASED ON 2 x 4 STUDS UNLESS
OTHERWISE NOTED.

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE
NATIONAL, STATE, AND LOCAL CODES, REGULATIONS, AND FHA/VA MPS.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE
BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE
REPORTED TO SPENCER RESIDENTIAL, INC. FOR JUSTIFICATION.
AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTORS
SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.
3. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NEVER SCALED.
4. ALL FOOTINGS TO BE BELOW FROST LINE (SEE LOCAL CODE), AND MUST
REST ON UNDISTURBED SOIL CAPABLE OF HANDLING THE BUILDING.
CONSULT LOCAL ENGINEER FOR PROPER FOOTING AND REINFORCING SIZES.
5. CONTRACTOR SHALL INSURE COMPATIBILITY OF THE BUILDING WITH ALL
SITE REQUIREMENTS.
6. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL, REINFORCE
AS PER CODE.
7. ALL FOUNDATION AND STRUCTURAL MEMBERS SHOULD BE VERIFIED AND
STAMPED BY AN ENGINEER IN THE STATE WHERE CONSTRUCTION IS
OCCURRING DUE TO A WIDE VARIANCE IN LOCAL CODES, SOIL BEARING
CONDITIONS, FROST LINE DEPTH, GEOLOGICAL AND WEATHER CONDITIONS,
ETC. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING AND VERIFYING
ALL STRUCTURAL DETAILS AND CONDITIONS TO MEET ALL LOCAL CODES
AND TO INSURE A QUALITY AND SAFE STRUCTURE.
8. ALL WOOD, CONCRETE, AND STEEL STRUCTURAL MEMBERS SHALL BE OF A
GOOD GRADE AND QUALITY AND MEET ALL NATIONAL, STATE, AND LOCAL
BUILDING CODES WHERE APPLICABLE.
9. ALL COLUMNS OR SOLID FRAMING SHOULD BE DESIGNED TO CARRY LOADS
AND SHOULD EXTEND THRU THE LEVELS BELOW AND TERMINATE AT
THE BASEMENT FLOOR OR AT OTHER BEARING POINTS DESIGNED TO CARRY
THE LOAD.



ROOF PLAN
SCALE: 1/4" = 1'-0"

1

C:\Users\Garry_Knight\Knight_Design_Group\DC-20-034\DC-20-034_Plan_East_Pan_1_Roof\19-034_Architectural.dwg

Knight Design Group, Inc.
1270 CAROLINE STREET SUITE D416
ATLANTA, GEORGIA 30307
PHONE: (404) 984-4734 * Email: csknightdesigner@gmail.com

NEW SPEC HOME FOR:
NORTHSIDE DRIVE
EAST POINT, GEORGIA

DRAWN: CSK
CHECKED: CSK
JOB NUMBER: 19-034
SCALE: AS NOTED
DATE: 4.25.2019
SHEET

A-6.0

REVISIONS	
NO.	DESCRIPTION

DATE OF THIS PLOT:
Sunday, May 5, 2019

SEAL



PLANNING AND ZONING DEPARTMENT

PLANNER'S REPORT

DATE: June 13, 2019
 TO: Tonya Hutson
 FROM: Lynn M. Patterson
 RE: Design Review - 831 Custer Street

Key:
 Compliant: ✓
 Not Compliant: ✗
 Incomplete: ✎
 Not Applicable: ⊖

BACKGROUND

The City of Hapeville has received a Design Review application from Michael Miles to remodel the exterior of an existing 1,800 square foot, two-story single-family dwelling at 831 Custer Street. The proposed changes include replacement fiber-cement siding, additional windows, the removal of a rear porch, and the conversion of an enclosed second-story side room to a screened-in porch.

The property is zoned R-SF, Residential Single-Family, and is subject to the Neighborhood Conservation Area of the Architectural Design Standards.

CODE

SEC. 81-1-7. NEIGHBORHOOD CONSERVATION AREA

Based on goals established in this chapter, the following standards are required in the neighborhood conservation area identified in section 81-1-3. This includes two subareas: subarea D and subarea E. All of the standards contained in this section shall apply to all development in all subareas. Subarea requirements are found within the applicable subsection.

This section shall govern subarea C of the commercial/mixed-use area. It may also govern one-family detached dwellings and two-family dwellings in the commercial/mixed-use area, provided that the section is applied in its entirety.

(a) Site development standards

- ⊖ Except where indicated, setbacks shall be established by zoning.
- ⊖ On corner lots the principal building shall be located adjacent to the street intersection, subject to setback or build-to line requirements of zoning.
- ⊖ Minimum building heights shall be established by zoning.
- ⊖ Within subareas D and E maximum building heights shall be as established by zoning, except that:
 - Where this chapter provides a more-stringent standard as compared to the zoning code, the more-stringent standard shall prevail. The only exception to this shall be a use grandfathered under the zoning code.
 - Portions of buildings equal to or less than five feet from a side or rear lot line shall be limited in height to the greater of 16 feet.
 - Portions of buildings between five and ten feet of a side or rear lot line shall be limited in height to the greater of 25 feet.
 - Portions of buildings ten feet or greater from a side or rear lot line shall be limited in height to 35 feet.
- ⊖ Outside of subareas D and E maximum building heights shall be as established by zoning.
- ✓ All buildings shall provide first-story occupiable space, for the first ten feet of building depth along the enfronting facade.
- ✗ Sidewalks shall be located along all public and private streets. Sidewalks shall consist of two areas: a landscape area and a clear area.
 - ✗ Developments less than one acre shall provide a minimum one-foot landscape zone and a minimum four-foot clear zone.
 - Development of one acre or more shall provide a minimum two-foot landscape zone and a minimum five-foot clear zone.
 - The above notwithstanding, multifamily developments and all developments along Dogwood Drive shall provide a minimum five-foot landscape zone and a minimum six-foot clear zone.

STAFF COMMENT: The project is a remodel of an existing structure. Plans do not include changes to placement or height.
 The property does not have an existing sidewalk.

(b) Supplemental Area and Fence Standards

- ⊗ Developments shall locate landscape supplemental areas adjacent to first-story residential uses and place a minimum of one tree every 50 feet in the supplemental area. See list of allowed trees in section 93-2-14 .
- ⊗ Chain link fencing is not permitted in areas visible from a public right-of-way.
- ⊗ On all lots a fence, wall, curb or hedge between six and 48 inches in height is encouraged at the back of the required sidewalk, except at openings to access steps, drives or pedestrian walkways.
- ⊗ Fences adjacent to the street shall be picket-wood, stone, composite materials or ornamental metal, with the finished side facing the street.
- ⊗ Retaining walls adjacent to the required sidewalk shall not exceed 32 inches in height unless required by topography.
- ⊗ All street-facing walls shall be faced with stone, brick, or smooth stucco.
- ⊗ Small planting between retaining walls and the required sidewalk are encouraged and should have a minimum width of six inches.

STAFF COMMENT: **The scope of the proposed work does not include changes to the supplemental area.**

(c) Utility Standards

- ⊗ Mechanical features shall not be located in the supplemental area or front yard and shall be screened from view from any park or along any public right-of-way with planting, walls or fences of equal or greater height. Acceptable materials for screening shall include those materials found in subsection (f)1., provided they are compatible with the principal structure.
- ⊗ When located on rooftops, mechanical features shall be incorporated in the design of the building and screened with materials similar to the building.
- ⊗ Street lights may be provided by the developer in an effort to maintain a safe, walkable and well-lit public area throughout the city; pedestrian-
- ✗ All developments shall provide a light at the front door. Lighting designed to illuminate the path to the front door is allowed. Spotlighting may
- ⊗ Trees shall not be planted directly above storm drains.

STAFF COMMENT: **The scope of the proposed work does not include changes to utilities.**
The current structure does not have a light at the front door.

(d) Parking and Traffic Standards

- ✗ One-family detached dwellings and two-family dwellings shall meet the following requirements:
 - Driveways shall have a minimum width of nine feet and a maximum width of 15 feet.
 - Circular drives are permitted.
 - A grass strip in the middle of driveways is encouraged.
- ⊗ All other buildings shall meet the following requirements:
 - Parcels are permitted a maximum of one driveway curb cut per street. In cases where a property abuts multiple streets the total number of curb cuts or portions thereof may be allocated to a single street.
 - Driveways shall have a maximum width of 12 feet for one-way and 24 feet for two-way.
 - Two curb cuts serving two one-way driveways shall be counted as one curb cut.
 - Public or private alleys, or driveway providing vehicular access to two or more parcels shall not constitute a curb cut.
 - New public streets shall not count as curb cuts.
 - Parcels are permitted a maximum of one driveway curb cut per street frontage. In cases where a property abuts multiple streets the total number of curb cuts or portions thereof may be allocated to a single street.
- ⊗ Carports are only permitted subject to the following requirements:
 - Carports shall be located in the rear or side yard, but shall not be visible from a public right-of-way.
 - Carport roofs shall be supported by columns with a minimum width and depth of eight inches.
 - The base of carport columns shall be faced in stacked brick or stacked stone to a minimum height of three feet above grade.
- ✗ On-site parking shall be prohibited in the supplemental areas. This shall not be interpreted as restricting on-street parking located along a public street.
- ⊗ Garage access on single-family lots shall be prohibited in the front yard of the home.

STAFF COMMENT: **The property does not have a driveway. Access is via a curb cut shared with a neighboring property and parking takes place in the supplemental area.**
The scope of the proposed work does not include changes to the supplemental area or on-site parking.

(e) Roof and Chimney Standards

- ⊗ Principal building roofs for one-family detached dwellings shall have a minimum usable life of thirty (30) years, per manufacturer's warranty.
- ⊗ Roof shingles shall be slate, cedar, or asphalt.
- ⊗ Roof tiles shall be clay, terra cotta or concrete.
- ⊗ Metal roofs are:
 - Allowed on one-family and two-family detached dwellings;
 - Permitted on multifamily and townhouse dwellings only when screened from the adjacent street by a parapet wall.
- ⊗ Gutters shall be copper, aluminum or galvanized steel.
- ⊗ Downspouts shall match gutters in material and finish.
- ⊗ Roof forms shall be based on architectural style.
- ⊗ All roofs, excluding dormers, shall overhang a minimum of 12 inches beyond the facade.
- ⊗ Dormers are permitted on all style homes (unless specified), but shall not be taller than the main roof to which they are attached.
- ⊗ Chimneys exposed to the public view may not be faced in wood or cement based siding and may not be of an exposed metal or ceramic pipe. All chimneys shall be wrapped in a brick, stone or suitable masonry finish material.
- ⊗ Chimneys on exterior building walls shall begin at grade.
- ⊗ Chimneys shall begin at grade and be faced with brick or stacked stone; extend chimneys between three and six feet above the roof line.

STAFF COMMENT: **The scope of the proposed work does not include changes to the roof.**

(f) Street Facing Facade and Style Standards.

- ✗ Exterior facade materials shall be limited to:
 - Full-depth brick;
 - Natural or cast stone;
 - ✓ Smooth natural-wood siding and/or cement-based siding;
 - Shake siding;
 - Painted fish-scale style shingles, but only when used in front gables;
 - True, smooth hard-coat stucco, provided that its use is limited to gables of Tudor revival-style buildings.
- ✗ Exterior building materials shall not be:
 - Simulated brick veneer, such as Z-Brick;
 - Exterior insulation and finish systems (EIFS);
 - ✗ Exposed concrete block;
 - Metal siding or other metal exterior treatment;
 - Glass curtain walls;
 - Liquid vinyl;
 - T-1-11 siding;
 - Vinyl siding, except that existing one-family detached homes with vinyl siding covering more than 70 percent of the exterior facade may replace said siding or construct an addition faced in vinyl siding.
- ✓ Facade materials shall be combined horizontally, with the heavier below the lighter.
- ✓ Blank, windowless walls are prohibited along all facades. See subsection 81-1-7(g)11 .
- ✗ Foundations shall be constructed as a distinct building element that contrasts with facade materials. Foundations that are exposed above the ground, must be parged with cement, stuccoed over or be faced in brick, natural stone, or cast stone.
- 👉 All exterior stair risers visible from a street shall be enclosed.
- ✓ Porches, stoops, and balconies may be located in the front or side yard.
- ✗ Porches, stoops, and balconies along front and side building facades shall not be enclosed with screens, plastics, or other materials that hinder visibility and/or natural air flow.
- 👉 Porches, stoops, and balconies shall be made of painted or stained wood, stone, brick, or ornamental metal, subject to the additional restrictions below.
- ⊗ Wooden porches, stoops, and balconies shall provide top and bottom horizontal members on railings. The top railing shall consist of two elements. The upper element shall measure two [inches] by six inches and the lower element shall measure two [inches] by four inches. The bottom railing shall measure two [inches] by four inches.
- ⊗ Front porches and front stoops of principal buildings shall face and be parallel to the front lot line or build-to line.
- ✓ Porch and stoop foundations shall be enclosed.
- 👉 Front and side porches and stoops shall not have unpainted, unstained or otherwise untreated or exposed pressure treated lumber along the building line that abuts a public right-of-way.

- ⊖ Balconies shall have not less than two clear unobstructed open or partially open sides. Partially open is to be constructed as 50 percent open or more. The total combined length of the open or partially open sides shall exceed 50 percent of the total balcony perimeter.
- ✗ Stoops and porch[es] shall be a minimum of two feet and a maximum of four feet from grade to the top of the stairs, unless existing topography is greater.
- ⊖ Stoops shall provide a minimum top landing of four feet by four feet.
- ⊖ Stoop stairs and landings shall be of similar width.
- ⊖ Stoops may be covered or uncovered.
- ✗ When provided, porches shall have a minimum clear depth of eight feet from building facade to outside face of column.
- ⊖ Front porch widths shall be between 80 percent and 100 percent of the adjacent facade.
- ✓ Side porch widths (including wraparound porches) shall be between 25 percent and 100 percent of the adjacent facade.
- ⊖ Enfronting porches may have multistory verandas, living space, or balconies above.
- ⊖ Porch columns shall be spaced a maximum distance of eight feet on center.
- ⊖ Front porch columns shall have foundation piers extending to grade.
- ✓ All porches shall be covered.
- ⊖ Enfronting balconies are only permitted on attached or detached one-family home facades when porches are not provided on said facades.
- ⊖ Enfronting balconies shall have a minimum clear depth of four feet.
- ⊖ Enfronting balcony widths shall be between 25 percent and 100 percent of the adjacent facade.
- ⊖ Balconies may be covered or uncovered.

The proposed plans replace existing asbestos siding with cement-based siding on the second story but retain existing painted concrete block on the first story. Concrete blocks are not a permitted façade material.

The structure is built on a slab foundation and has no simulated foundation.

It is unclear if exterior stairs leading to the porch will be replaced. If so, the applicant should ensure the stairs have enclosed risers.

STAFF COMMENT: Porches may not be enclosed with screens or other materials that hinder visibility. The proposed porch is screened, which is not compliant.

The applicant should provide the proposed materials used in the porch and attached stairs, ensuring they are stained wood, stone, brick, or ornamental metal.

Stoops and porches shall be a maximum of four feet from grade to the top of the stairs. A second story porch is not compliant.

Porches must have a clear depth of at least 8'. The proposed porch has a clear depth of approximately 7', which is not compliant.

(g) Door and window standards.

- ✗ The main entry door to enfronting principal buildings shall face, be visible from, and be accessible from the adjacent public sidewalk.
- ✗ The main entry door to all uses shall be linked to the sidewalk via a pedestrian walkway or wheelchair access.
- ✗ Building numbers at least six inches in height shall be located above or beside the street-facing pedestrian entrance, or above or beside the stairs accessing a front porch.
- ⊖ Doors that operate as sliders are prohibited along enfronting facades.
- ✎ Window panes shall be recessed a minimum of three inches and a maximum of eight inches from the adjacent facade, except on frame houses, on which panes shall be recessed a minimum of two inches.
- ✎ Where windows lights are utilized they shall be true divided lights, simulated divided lights, or one-over-one lights. Grids-between-glass (GBGs) are prohibited.
- ✎ Window trim shall not be flush with the exterior facade and shall provide a minimum relief of one-quarter inch or greater.
- ✗ Where used, window shutters shall match one-half the width of the window opening.
- ⊖ Painted window or door glass is prohibited.
- ⊖ Enfronting windows and door glass (except on churches and fire stations) shall utilize clear glass or tinted glass. Tinted glass shall have a transmittance factor of 50 percent or greater and shall have a visible light reflectance factor of ten or less.
- ✓ Windows shall be provided for a minimum of thirty (30) percent and a maximum of 50 percent of the total street-facing facade of the principal building, with each facade and story calculated independently.
- ✓ Street-facing window units shall not exceed 28 square feet with minimum height of three feet, with the exception of transoms and fan lights.
- ✎ Wood trim between four and six inches wide shall surround windows of wood frame structures. Windows grouped together shall have center mullions two inches wider than the side trim.



Sills shall be of masonry, wood, stone, cast stone, or terra cotta.

STAFF COMMENT:

The main entry door is not accessible by and connected to the adjacent sidewalk/street by a pedestrian walkway.
 Building numbers at least six inches in height adjacent to the front entrance should be shown on plans.
 The applicant should ensure windowpanes are recessed between 2" and 8" from the adjacent façade.
 The applicant should ensure no grids-between-glass are utilized.
 The applicant should ensure window trim provides a minimum relief of ¼" or greater from the exterior façade.
 Window shutters must match one-half the width of the window opening.
 The applicant should ensure windows have wood trim between 4" and 6" wide.
 Center mullions must be 2" wider than the side trim.
 The applicant should ensure windows have sills made of masonry, wood, stone, cast stone, or terra cotta.

(h) Detached one-family dwellings/ two-family dwellings. In addition to the requirements of subsections (a) through (g), the following shall apply to detached one-family dwellings and two-family dwellings.



First Stories. First stories shall be elevated above the grade between two and four feet, unless existing topography is greater or unless wheelchair access is desired and cannot be provided from the side or rear.



Window Sills. Enfronting first story window sills should be no less than two and one-half feet and no more than three and one-half feet above finished floor elevation.



Wheelchair access. Where practical, wheelchair access, when provided, should be installed at the side or rear of the home in order to preserve the architectural character of the primary facade.



Architectural style. Architecture is one of the most critical components of place, and nowhere is this more evident than on building facades. The design and character of street-facing facades is a reflection of both buildings and their users, and must be carefully considered for its impact on the overall sense of place.

STAFF COMMENT:

House is built on a slab foundation. The first story is not elevated between 2' and 4' above grade.
 The dwelling does not match any recognized historical architectural style.
 The scope of the proposed work does not include changes to the structure of the building.
 The applicant should ensure enfronting first story windowsills are between 2'-6" and 3'-6" above the finished floor elevation.



Outbuildings. In conventional development, outbuildings are often designed and located as an afterthought. Yet in traditional towns and cities, outbuildings serve to enrich the quality of design through their placement, design and use. In Hapeville, where outbuildings are provided on many residential lots, their design must be to the same high standards found in the community's neighborhoods.

The following standards shall apply to construction of new outbuildings in residential districts.

- i. On lots with one street frontage, set outbuildings back at least 15 feet behind the front facade of the principal building.
- ii. On corner lots, outbuildings should be setback at least 15 feet behind the front facade of the principal building and with a setback greater than or equal to that of the facade along the side lot line.
- iii. Outbuilding may be linked to the principal building with covered walks, trellises or enclosed breezeway.
- iv. Outbuildings shall be of compatible material and architectural style to the principal building.
- v. Outbuildings shall have a minimum height of 14 feet and a maximum height of that of the principal building or 25 feet, whichever is less.
- vi. Outbuildings shall be set a minimum of ten feet from any other outbuilding on adjoining lots.

STAFF COMMENT:

RECOMMENDATIONS

Sec. 81-1-5. Applicability

Upon review of the information provided by the Applicant, the following items have been found to be missing or deficient and should be addressed prior to formalizing a recommendation:

The project is a remodel of an existing structure. Plans do not include changes to placement or height.

The property does not have an existing sidewalk.

The current structure does not have a light at the front door.

The property does not have a driveway. Access is via a curb cut shared with a neighboring property and parking takes place in the supplemental area.

The proposed plans replace existing asbestos siding with cement-based siding on the second story but retain existing painted concrete block on the first story. Concrete blocks are not a permitted façade material.

The structure is built on a slab foundation and has no simulated foundation.

It is unclear if exterior stairs leading to the porch will be replaced. If so, the applicant should ensure the stairs have enclosed risers.

Porches may not be enclosed with screens or other materials that hinder visibility. The proposed porch is screened, which is not compliant.

The applicant should provide the proposed materials used in the porch and attached stairs, ensuring they are stained wood, stone, brick, or ornamental metal.

Stoops and porches shall be a maximum of four feet from grade to the top of the stairs. A second story porch is not compliant.

Porches must have a clear depth of at least 8'. The proposed porch has a clear depth of approximately 7', which is not compliant.

The main entry door is not accessible by and connected to the adjacent sidewalk/street by a pedestrian walkway.

Building numbers at least six inches in height adjacent to the front entrance should be shown on plans.

The applicant should ensure windowpanes are recessed between 2" and 8" from the adjacent façade.

The applicant should ensure no grids-between-glass are utilized.

The applicant should ensure window trim provides a minimum relief of ¼" or greater from the exterior façade.

Window shutters must match one-half the width of the window opening.

The applicant should ensure windows have wood trim between 4" and 6" wide.

Center mullions must be 2" wider than the side trim.

The applicant should ensure windows have sills made of masonry, wood, stone, cast stone, or terra cotta.

The applicant should ensure enfronting first story windowsills are between 2'-6" and 3'-6" above the finished floor elevation.

Additionally, as the project includes the removal of asbestos siding, the applicant must ensure all work meets environmental safety standards.

CITY OF HAPEVILLE

DESIGN REVIEW APPLICATION

SUBMITTAL DATE: 5/31/19

NOTE: All applications must be typed or neatly printed. Applications or an authorized representative is required to personally appear at the Design Review Meeting to answer questions.

The Design Review Committee meets the third Wednesday of each month. Every attempt will be made to place your application for review on the next month's agenda following the submittal of a completed application with supporting documents; however, that may not always be possible. The City reserves the right to schedule applications as deemed necessary.

Applicant: MICHAEL MILES Contact Number: [REDACTED]

Applicants Address: 405 LAKEFRONT CT

E-Mail Address: [REDACTED] Zoning Classification: R-SF

Address of Proposed Work: 631 CUSTER ST HAPEVILLE GA

Parcel ID# (INFORMATION MUST BE PROVIDED): 14009800080220

Property Owner: MILESAHEAD LLC Contact Number: [REDACTED]

Project Description (including occupancy type): Single Family Home
with facade modification, demolish rear porch and add
screened porch on right side

Contractors Name: CAMERON GIBSON Contact Number: [REDACTED]

Contact Person: _____ Contact Number: _____

I hereby make application to the City of Hapeville, to the Design Review Committee for the above referenced property. I do hereby swear or affirm that the information provided here and above is true, complete and accurate, and I understand that any inaccuracies may be considered just cause for invalidation of this application and any action taken on this application. I understand that the City of Hapeville, Georgia, reserves that right to enforce any and all ordinances regardless of any action or approval on this application. I further understand that it is my/our responsibility to conform with all of City of Hapeville's Ordinances in full. I hereby acknowledge that all requirements of the City of Hapeville shall be adhered to. I can read and write the English language and/or this document has been read and explained to me and I have full and voluntarily completed this application. I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for violation thereof.

[Signature]
Applicants Signature

5/31/19
Date

Project Class (check one):

X Residential _____ Commercial _____ Mixed-Use Development

Project Type:

_____ New Commercial Construction _____ Addition to Existing Commercial Building
_____ Addition to Existing Residential Structure _____ Accessory Structure
_____ Site Plan, Grading & Landscaping _____ New Single Family Residential Construction
_____ Other

Total Square Footage of proposed New Construction: 1800

Total Square Footage of existing building: 1800

Estimated Cost of Construction: 35,600

List/Describe Building Materials on the exterior of the existing structure: _____

ASBESTOS SIDING

List/Describe Building Materials proposed for the exterior facade of the new structure: CEMENT

HARDIBOARD SIDING

NOTICE

Please be advised that the Community Service Department is here to assist all applicants regarding application procedures, meeting schedules and necessary deadlines. The Community Service Department does **NOT** make any final decisions for the Design Review Committee, Sign Committee, Planning Commission, Board of Appeals or rezoning request to Mayor and Council.

A complete application must be submitted before the Community Service Department will accept an application and forward the same to the appropriate entity.

Building inspections issued by the City of Hapeville are contracted out to State of Georgia Certified Inspectors. These inspectors make the final decisions regarding building, electrical, plumbing and HVAC work completed in the City of Hapeville. The Hapeville Fire Marshal conducts inspections issued through the Community Services Department as needed. Both the Certified Inspectors and Fire Marshal make the final decisions before Certificates of Occupancy's are issued.

Please be advised that the Community Service Department shall not be responsible for your purchasing materials, equipment, items, signs, etc... before you receive final approval by any entity whose approval is required.

I understand that it is a felony to make false statements or writings to the City of Hapeville, Georgia pursuant to O.C.G.A. 16-10-20 and I may be prosecuted for a violation thereof.

(Please Print & Initial)

I MICHAEL MILES swear or affirm that before receipt of an application, I have received this notice and I read and write the English language or I have had someone read and explain this document to me.



DEPARTMENT OF PLANNING AND ZONING

DESIGN REVIEW APPLICATION INSTRUCTIONS AND ACKNOWLEDGEMENT

I, the undersigned, agree that with my signature and submission to the City of Hapeville, I have done the following:

- ☒ Read the City of Hapeville's Architectural Design Guidelines and relevant Code sections for my proposed project. The Architectural Design Guidelines may be found here:
https://library.municode.com/ga/hapeville/codes/code_of_ordinances?nodeId=PTIICORR_CH81ARDEST
- ☒ Ensured that my proposed project meets all of the required criteria per the City of Hapeville Code of Ordinances.
- ☒ Submitted my application materials in full by the published deadline for review by Staff prior to the Design Review Committee meeting.
- ☒ Identified and explained all deficiencies or components of the proposed project that do not meet with the requirements set forth in the Code. This explanation should be submitted as a separate document in the application.
- ☒ Understood that any deficiencies in the application must be resolved at least 10 days prior to the Design Review Committee meeting or the application may not be presented to the DRC for review.
- ☒ Submitted architectural drawings and details for all projects unless allowed in writing by the Community Services or Planning & Zoning Department.
- ☒ Agreed to submit any required revisions by the Design Review Committee with updated drawings to the Community Services Department for review prior to requesting any permits.

MICHAEL MILES
Printed Name

[Signature]
Signature

5/31/11
Date

Should you have any questions, please do not hesitate to contact the Community Services Department at 404-669-2120.

Thank you for interest and investment in the City of Hapeville.

Michael Miles
831 Custer Street



Front Elevation



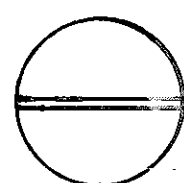
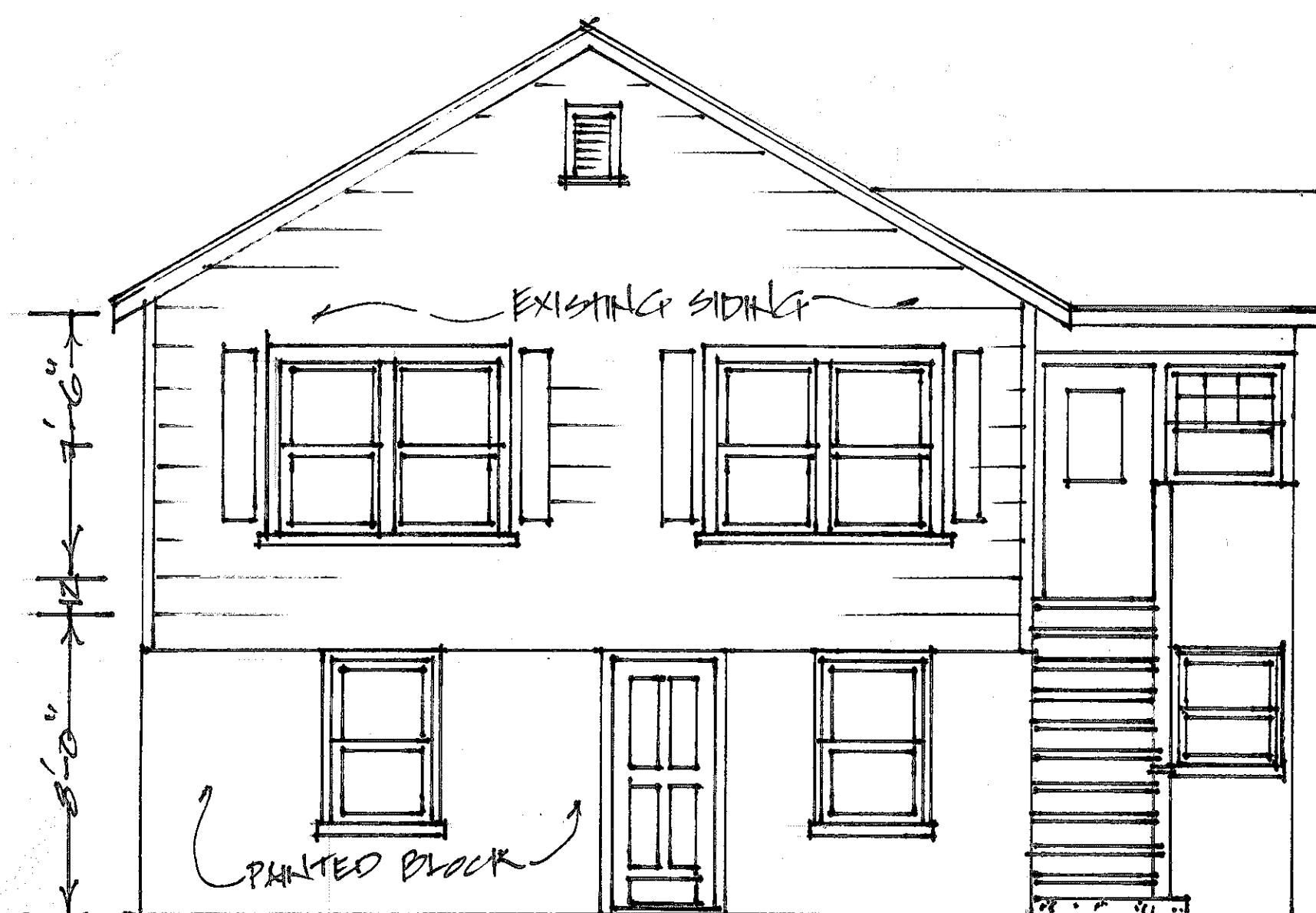
Rear Elevation



Right Side Elevation

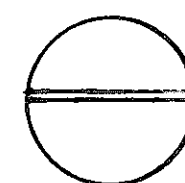
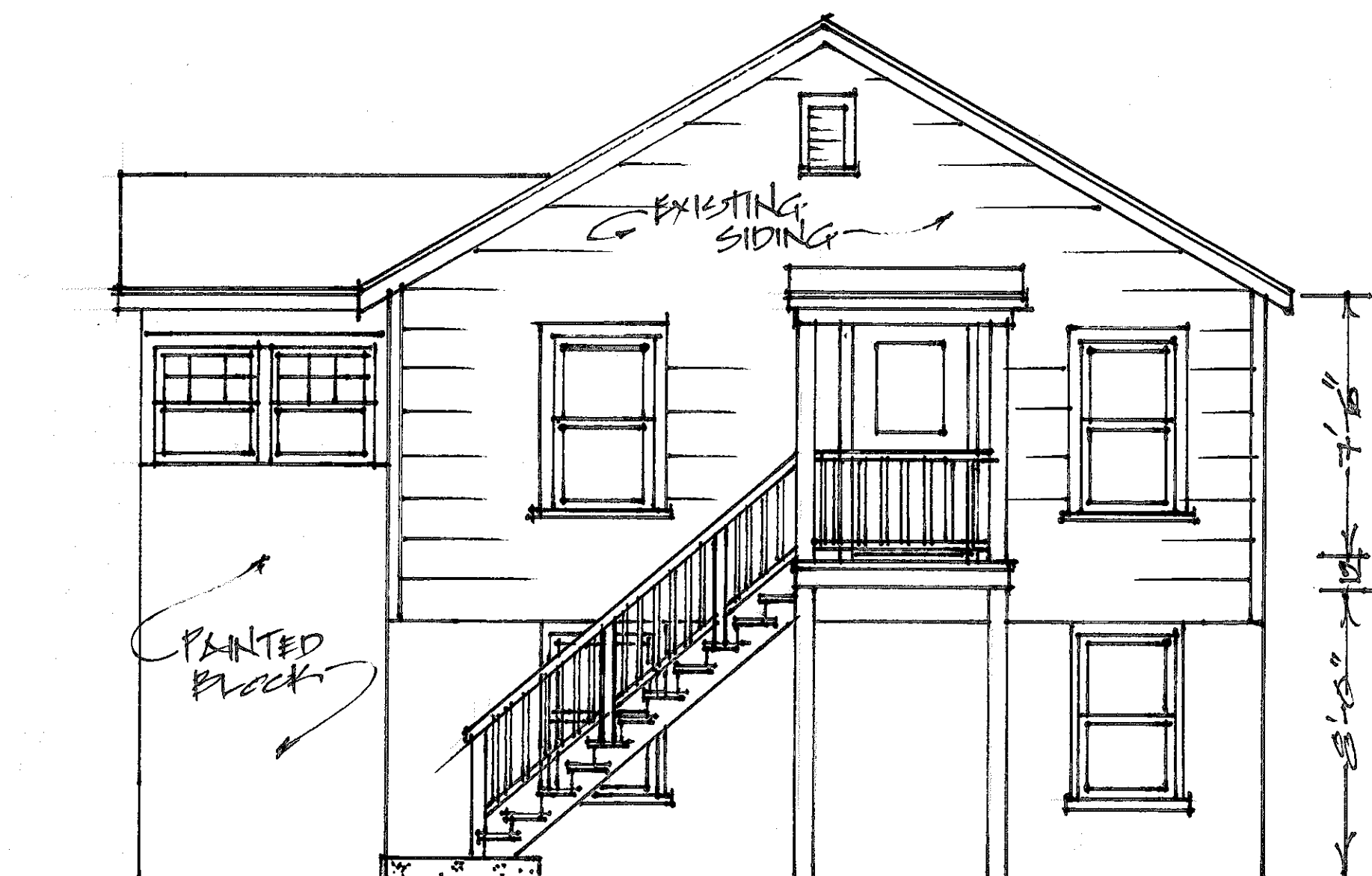


Left Side Elevation



EXISTING FRONT ELEVATION

SCALE: 1/4" = 1'-0"



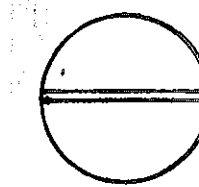
EXISTING REAR ELEVATION

SCALE: 1/4" = 1'-0"

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PROJECT: 831 CUSTER AVENUE
DATE: 05-22-19
PROJECT #52219

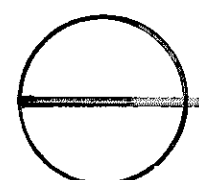
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A1.0



EXISTING LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"



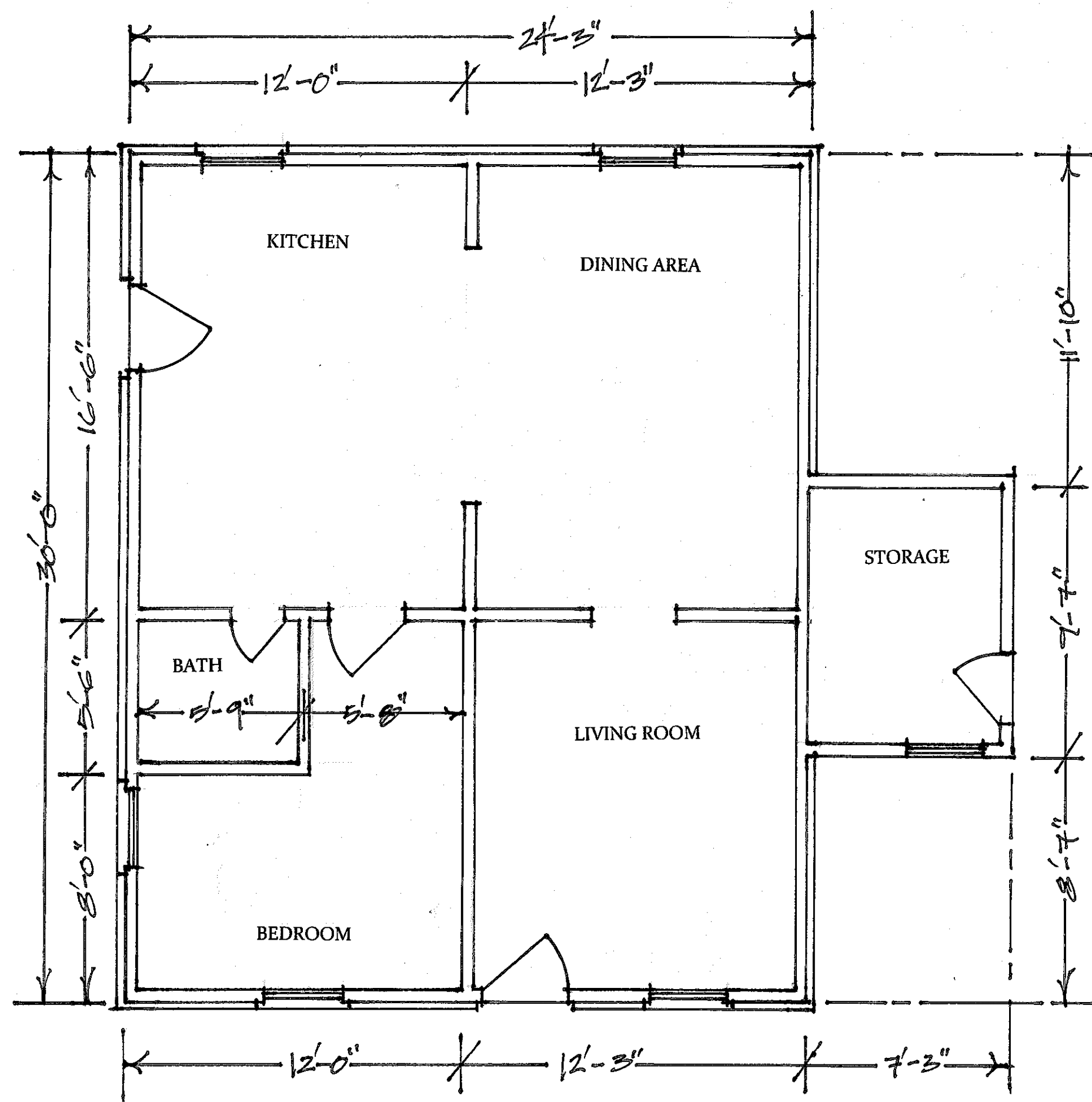
EXISTING RIGHT SIDE ELEVATION

SCALE: 1/4" = 1'-0"

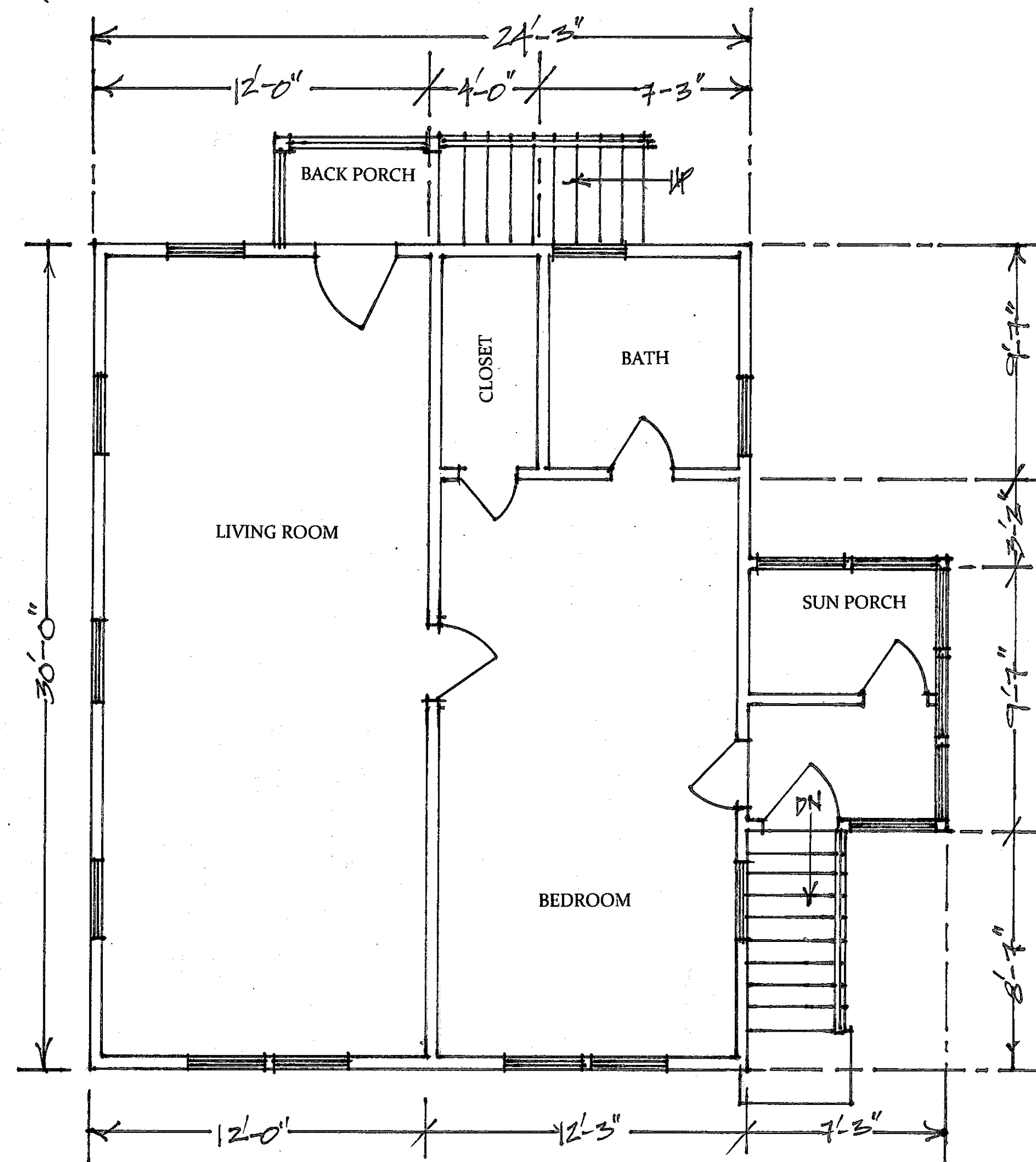
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DATE: 05-22-19
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A1.1



EXISTING PARTITION PLAN-1ST FLOOR
SCALE: 1/4" = 1'-0"

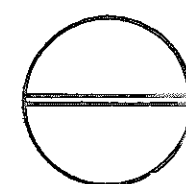


EXISTING PARTITION PLAN-2ND FLOOR
SCALE: 1/4" = 1'-0"

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PROJECT: 831 CUSTER AVENUE
DATE: 05-22-19
PROJECT #52219

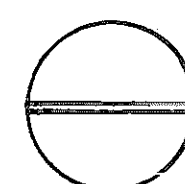
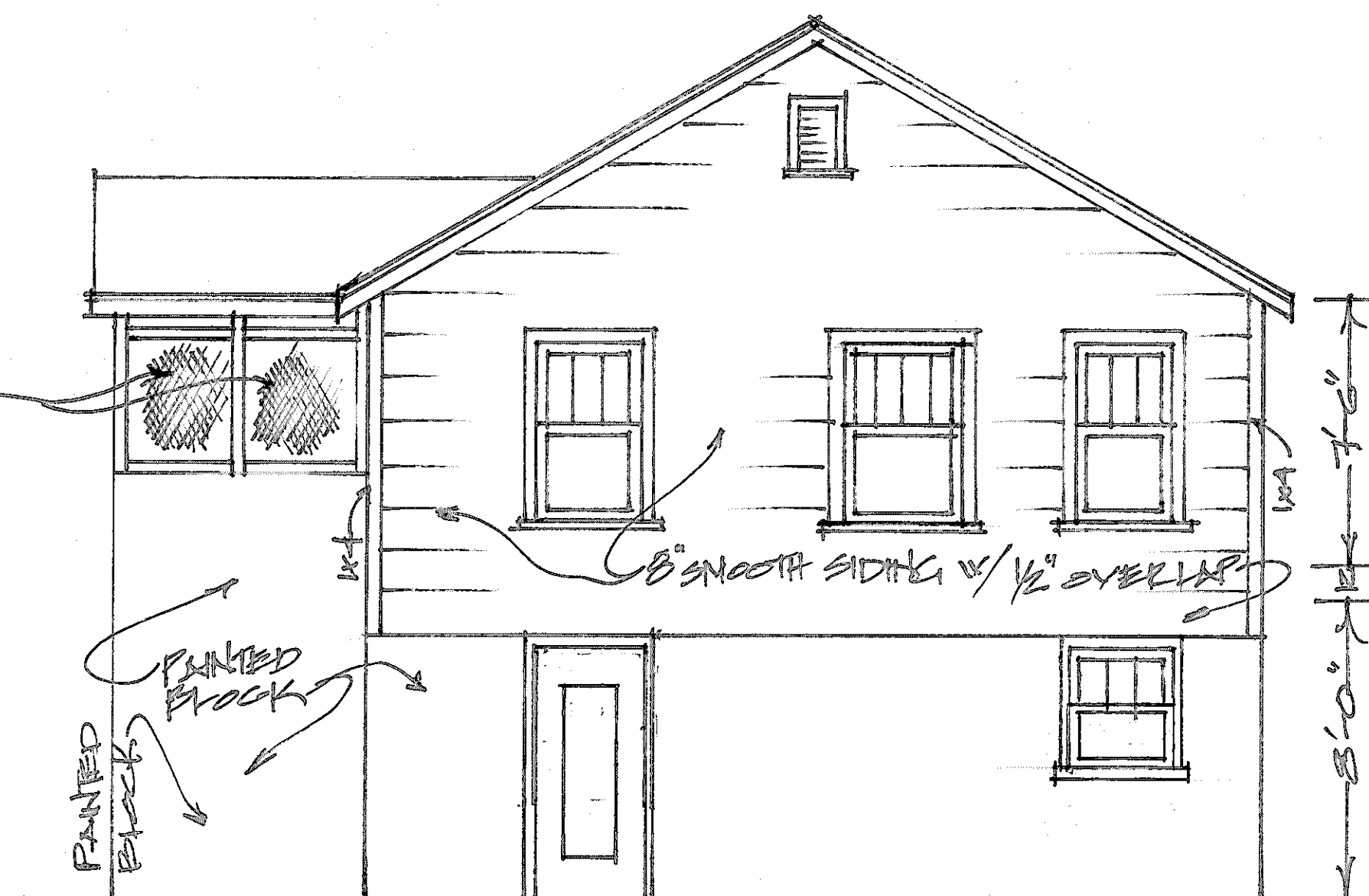
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A1.2



PROPOSED FRONT ELEVATION

SCALE: 1/4" = 1'-0"



PROPOSED REAR ELEVATION

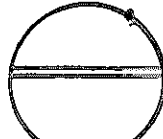
SCALE: 1/4" = 1'-0"

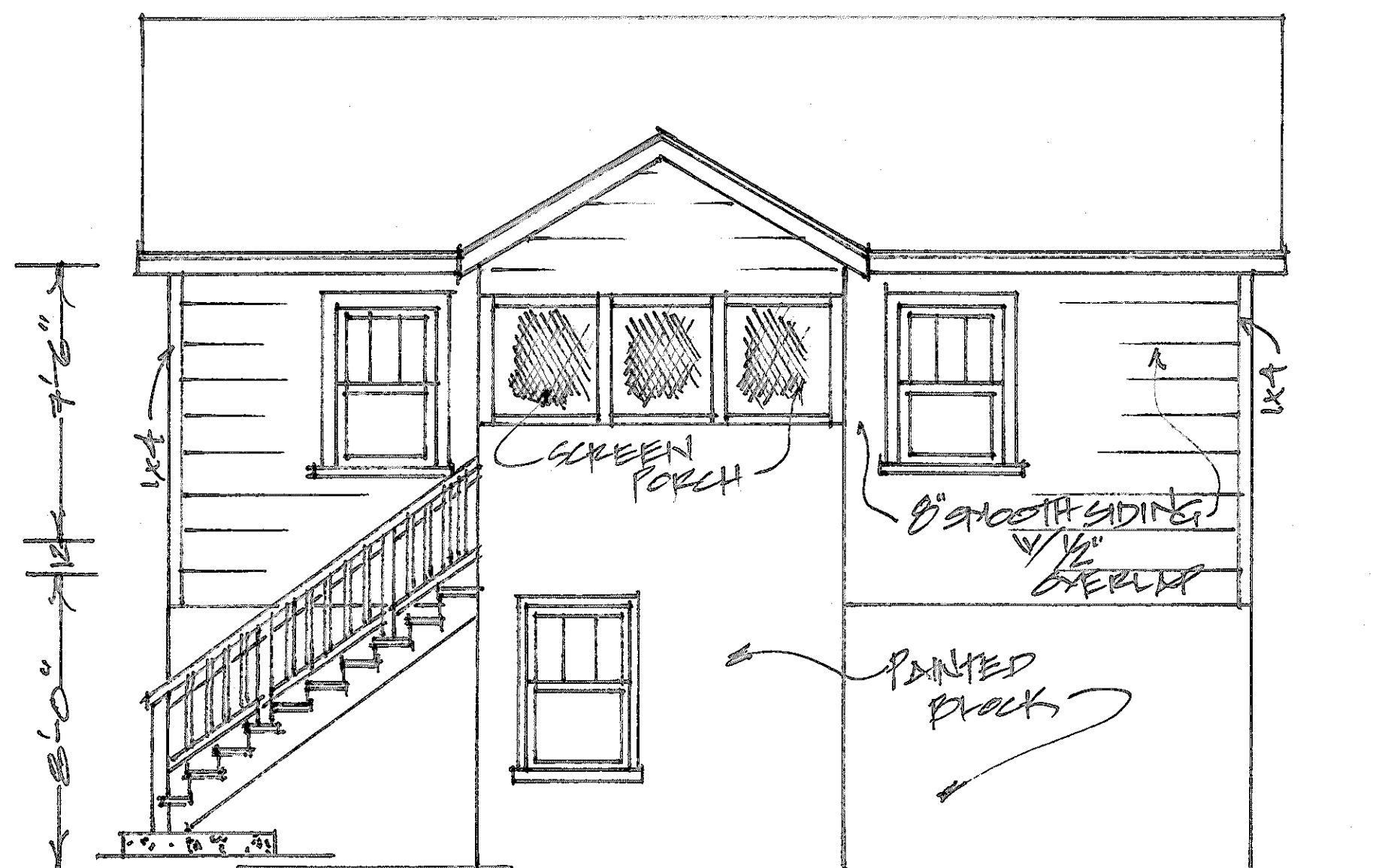
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DATE: 05-22-19
PROJECT #52219

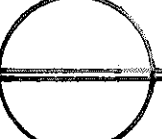
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B1.0




PROPOSED LEFT SIDE ELEVATION
 SCALE: 1/4" = 1'-0"

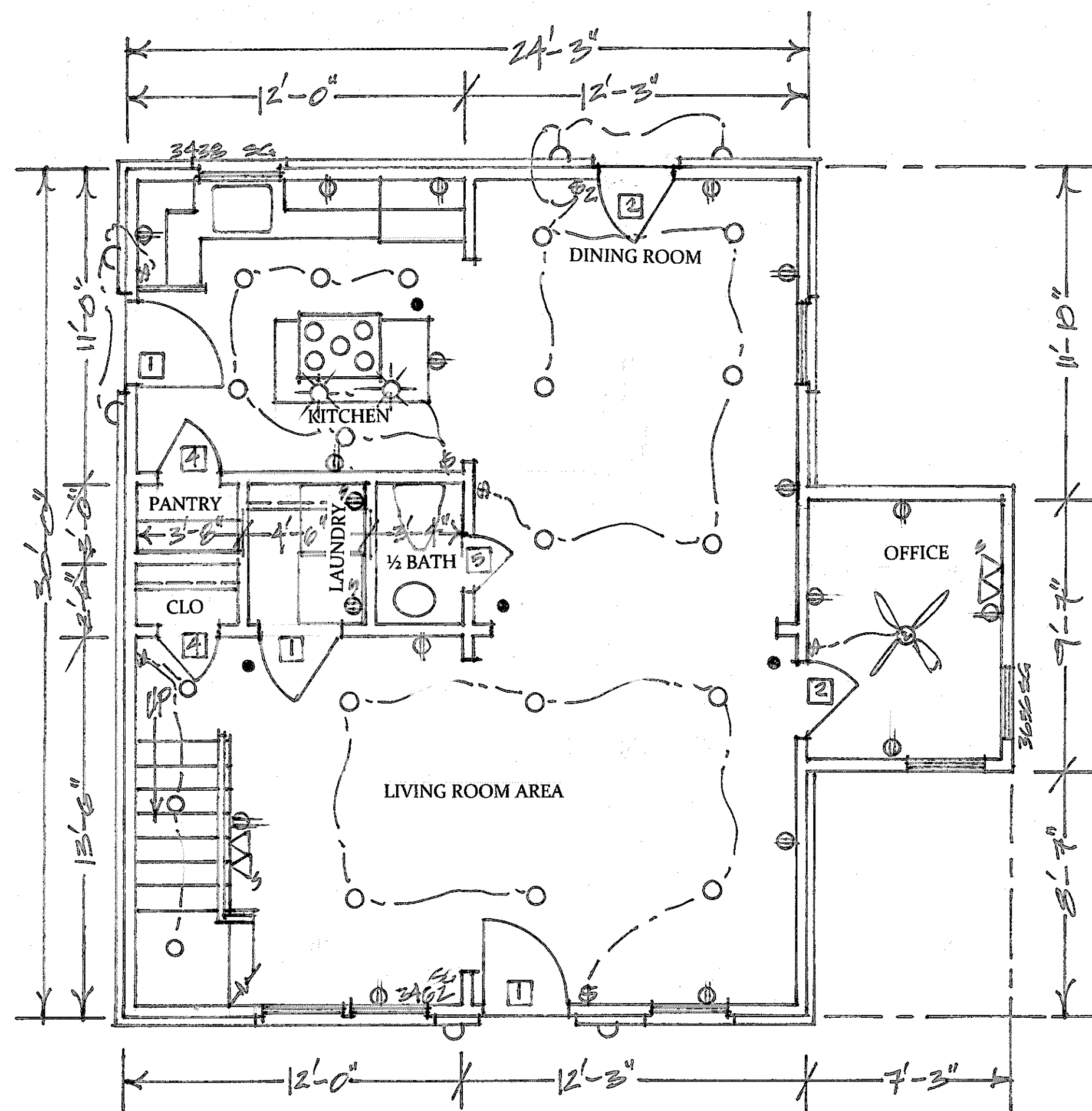



PROPOSED RIGHT SIDE ELEVATION
 SCALE: 1/4" = 1'-0"

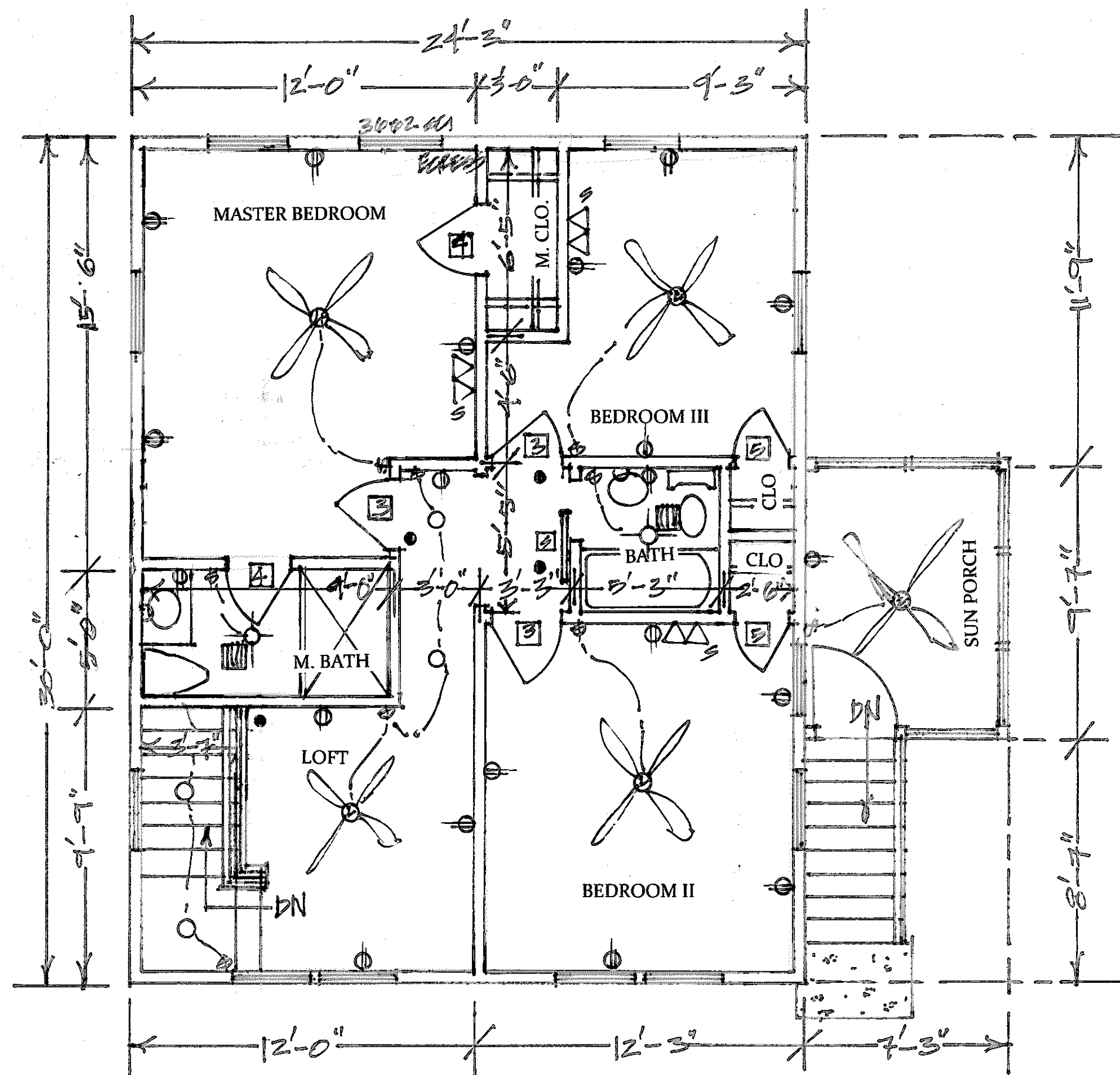
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B1.1

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PROPOSED PARTITION PLAN-1ST FLOOR
SCALE: 1/4" = 1'-0"



PROPOSED PARTITION PLAN-2ND FLOOR
SCALE: 1/4" = 1'-0"

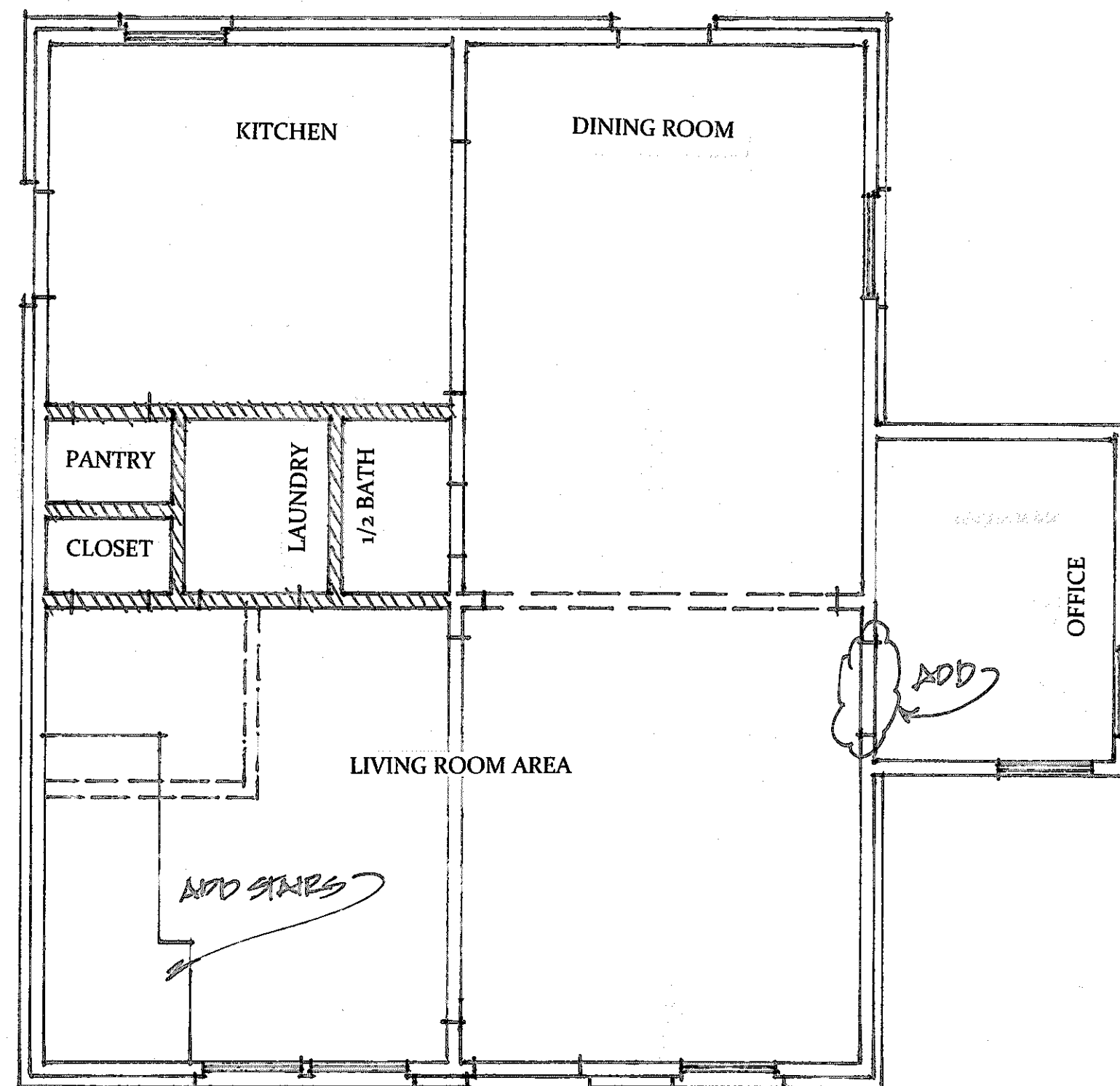
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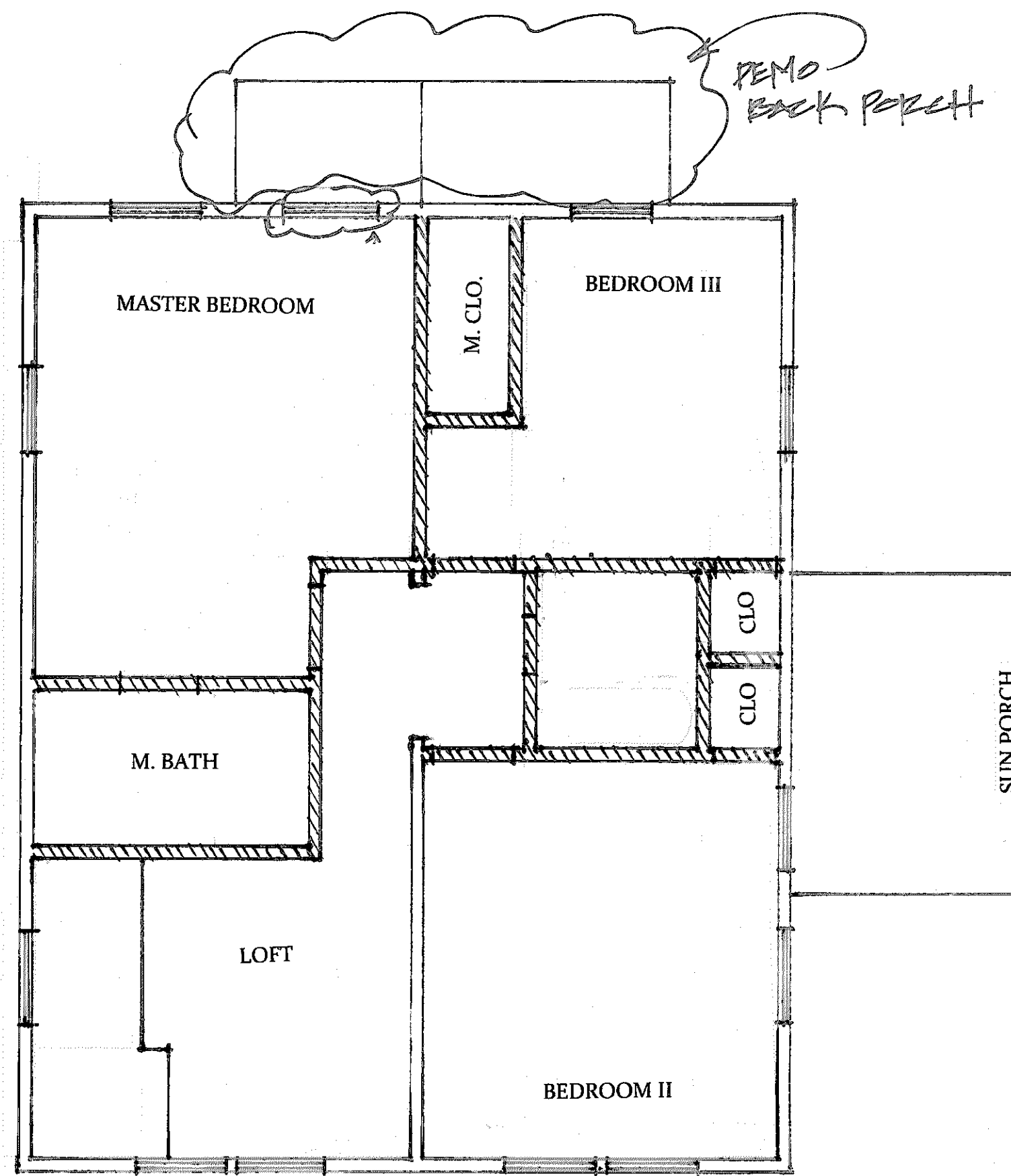
B1.2

PARTITION LEGEND:

-  = SOLID PARTITION REPRESENTS PERMINANT PARTITION
-  = DOTTED LINE PARTITION REPRESENTS PARTITION BEING REMOVED
-  = SLANTED LINE PARTITION REPRESENTS NEWLY BUILT PARTITION
-  = 1/2 PARTITION (SEE NOTES FOR HEIGHT OF PARTITION)
-  = BUBBLE ICON REPRESENTS CHANGE IN DOORS, WINDOWS OR STAIRS
-  = BLACK DOT REPRESENTS (3) 2X4 VERTICAL LOAD BEARING POST




DEMO/CONSTRUCTION-1ST FLOOR
 SCALE: 1/4" = 1'-0"



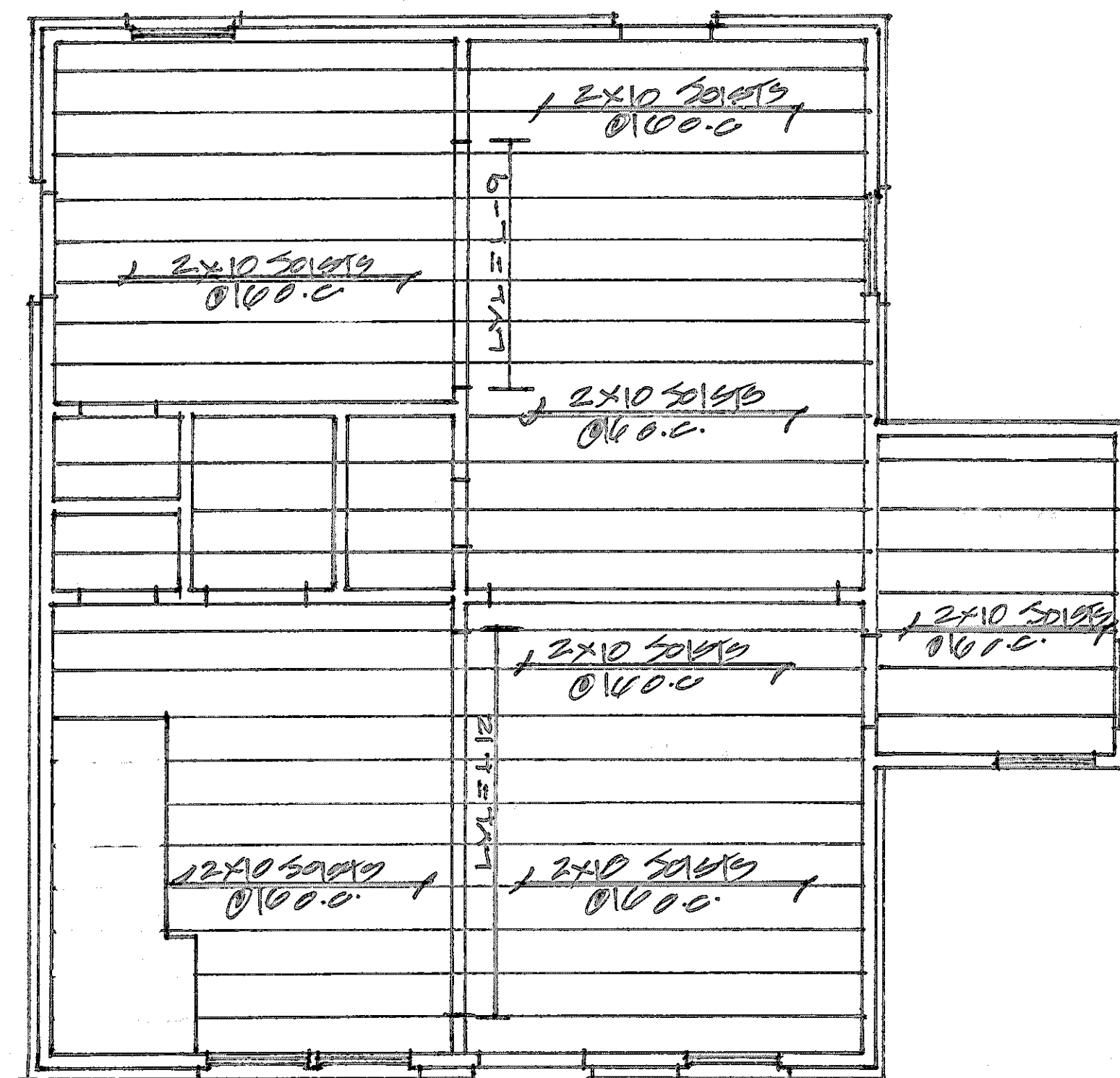

DEMO/CONSTRUCTION-2ND FLOOR
 SCALE: 1/4" = 1'-0"

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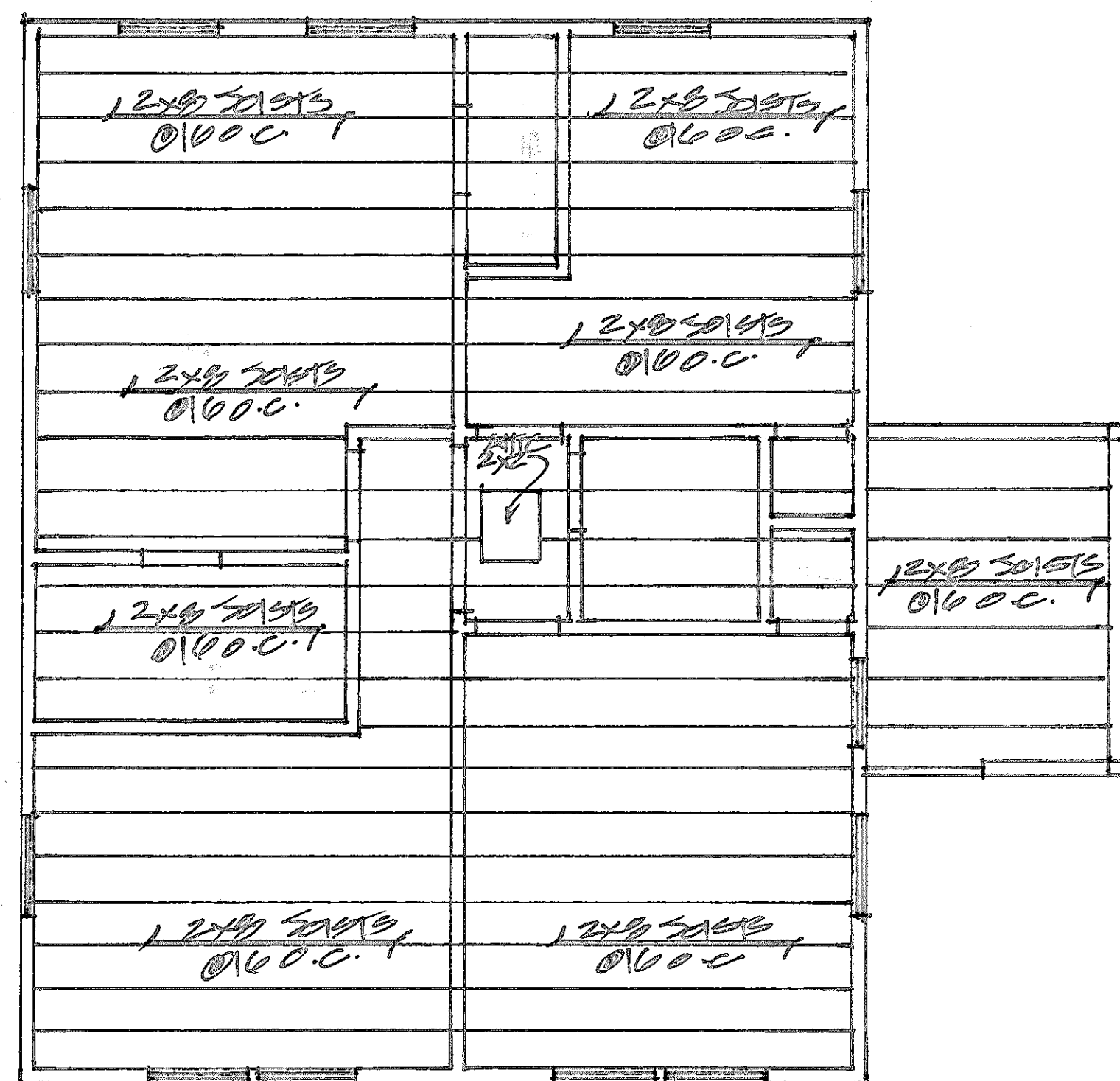
C1.0

NOTE: ALL FLOOR JOISTS FOR 1ST FLOOR ARE 2X10 @ 16" O.C.



CEILING FRAME PLAN-1ST FLOOR
SCALE: 1/4" = 1'-0"

NOTE: ALL CEILING JOISTS FOR 2ND FLOOR ARE 2X8 @ 16" O.C.



CEILING FRAME PLAN-2ND FLOOR
SCALE: 1/4" = 1'-0"

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D1.0

NOTE:

1. CODES: ALL WORK SHALL BE IN ACCORDANCE W/ APPLICABLE REQUIREMENTS OF THE 2012 (OR CURRENT) INTERNATIONAL RESIDENTIAL CODE (IRC) W/ GEORGIA STATE AND DEKALB COUNTY AMENDMENTS, AND THE INTERNATIONAL ENERGY CODE COUNCIL.

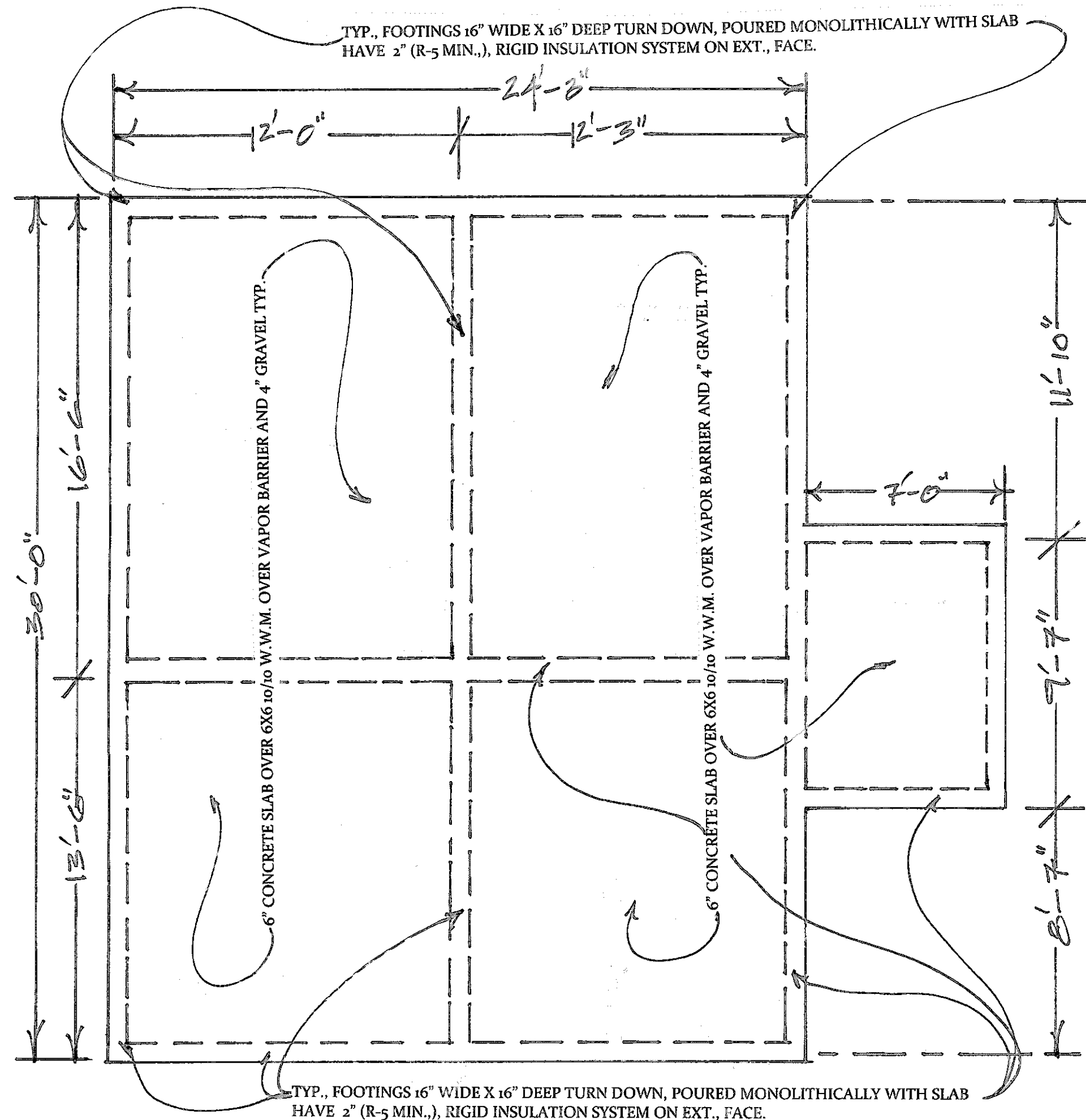
2. CONTRACTOR SHALL PERFORM SITE INSPECTIONS AND BECOME FAMILIAR W/ ALL EXISTING CONDITIONS AFFECTING THE WORK.

3. VERIFY ALL ROUGHT OPENINGS AND CLEARANCES REQUIRED FOR DOORS, WINDOWS, MILLWORK, FIXTURES AND EQUIPMENT W/ ACTUAL PRODUCTS TO BE INSTALLED.

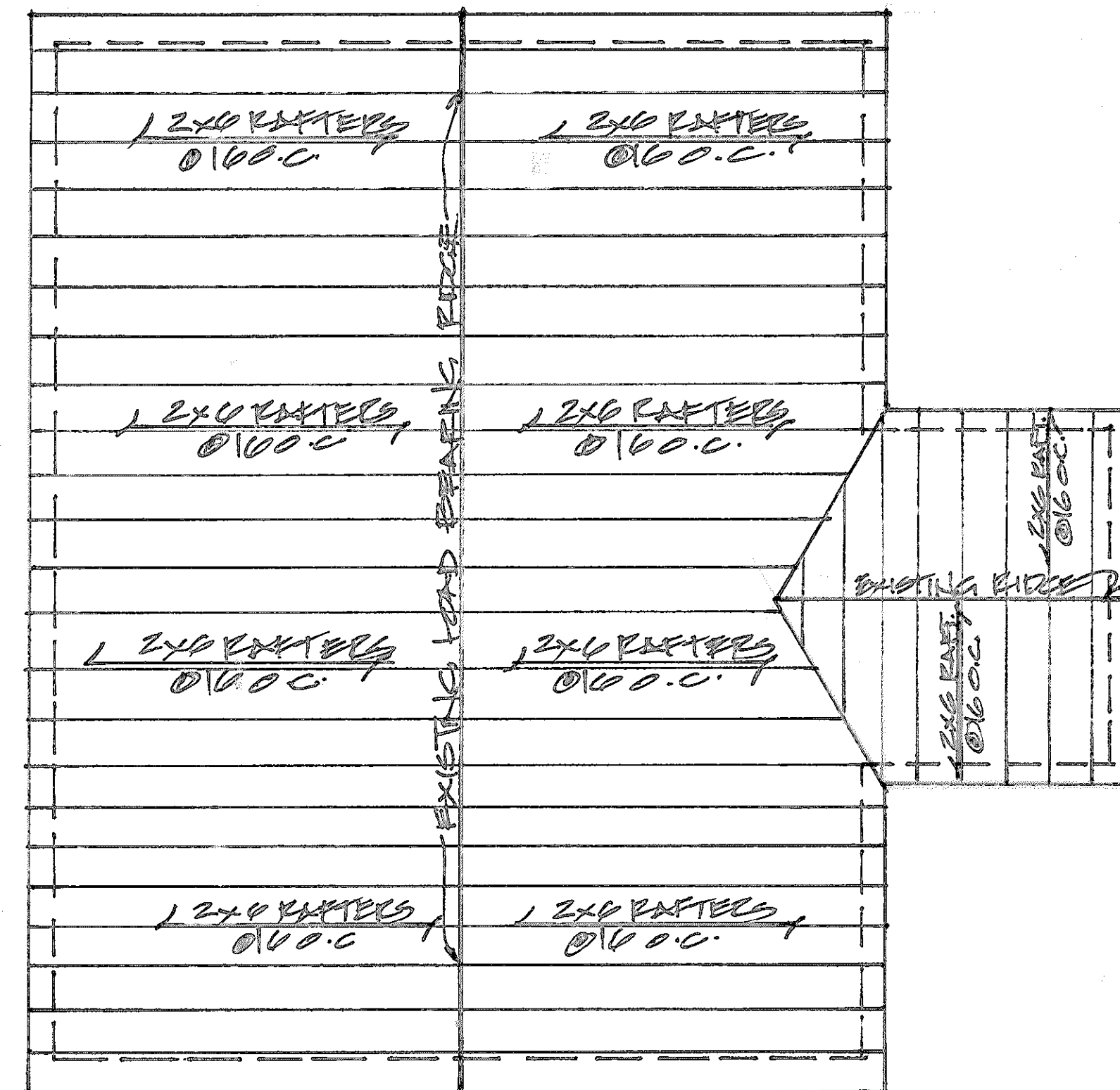
4. EXTERIOR DIMENSION SHOWN ARE TO FACE OF STUD/FACE OF SLAB.

INTERIOR DIMENSIONS SHOWN ARE TO THICKENED SLAB.

6. CONCRETE SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH.



EXISTING FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



EXISTING ROOF FRAME PLAN
SCALE: 1/4" = 1'-0"

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E1.0