COMMISSION OF ARCHITECTURAL REVIEW

APPLICATION / CERTIFICATE OF APPROPRIATENESS

PROPERTY (Location of Work)

Address 533 Mosby St.

Historic District Union Hill

PROPOSED ACTION

☐ Alteration (including paint colors) ☐ Rehabilitation ☐ Demolition

☐ Addition ☒ New Construction (Conceptual Review required)

☐ Conceptual Review ☒ Final Review

OWNER

Name Carolyn Mullaney

Company

Mailing Address 5692 Irvington Rd. Whitestone Va.

Phone 804 436 7282

Email cjmpix@yahoo.com

Signature

Date 7/13/17

APPLICANT (if other than owner)

Name Jonah Green

Company Green Builders

Mailing Address

Phone 804 466 9069

Email jonahgreen1@yahoo.com

Signature

Date 7/13/17

ACKNOWLEDGEMENT OF RESPONSIBILITY

Requirements: A complete application includes all applicable information requested on checklists to provide a complete and accurate description of existing and proposed conditions. Preliminary review meeting or site visit with staff may be necessary to process the application. Owner contact information and signature is required. Late or incomplete applications will not be considered.

Zoning Requirements: Prior to CAR review, it is the responsibility of the applicant to determine if zoning approval is required and application materials should be prepared in compliance with zoning.

Compliance: If granted, you agree to comply with all conditions of the COA. Revisions to approved work require staff review and may require a new application and CAR approval. Failure to comply with the COA may result in project delays or legal action. The COA is valid for one (1) year and may be extended for an additional year, upon written request.

(Space below for staff use only)

Application received:

Date/Time Complete ☐ Yes ☐ No

By

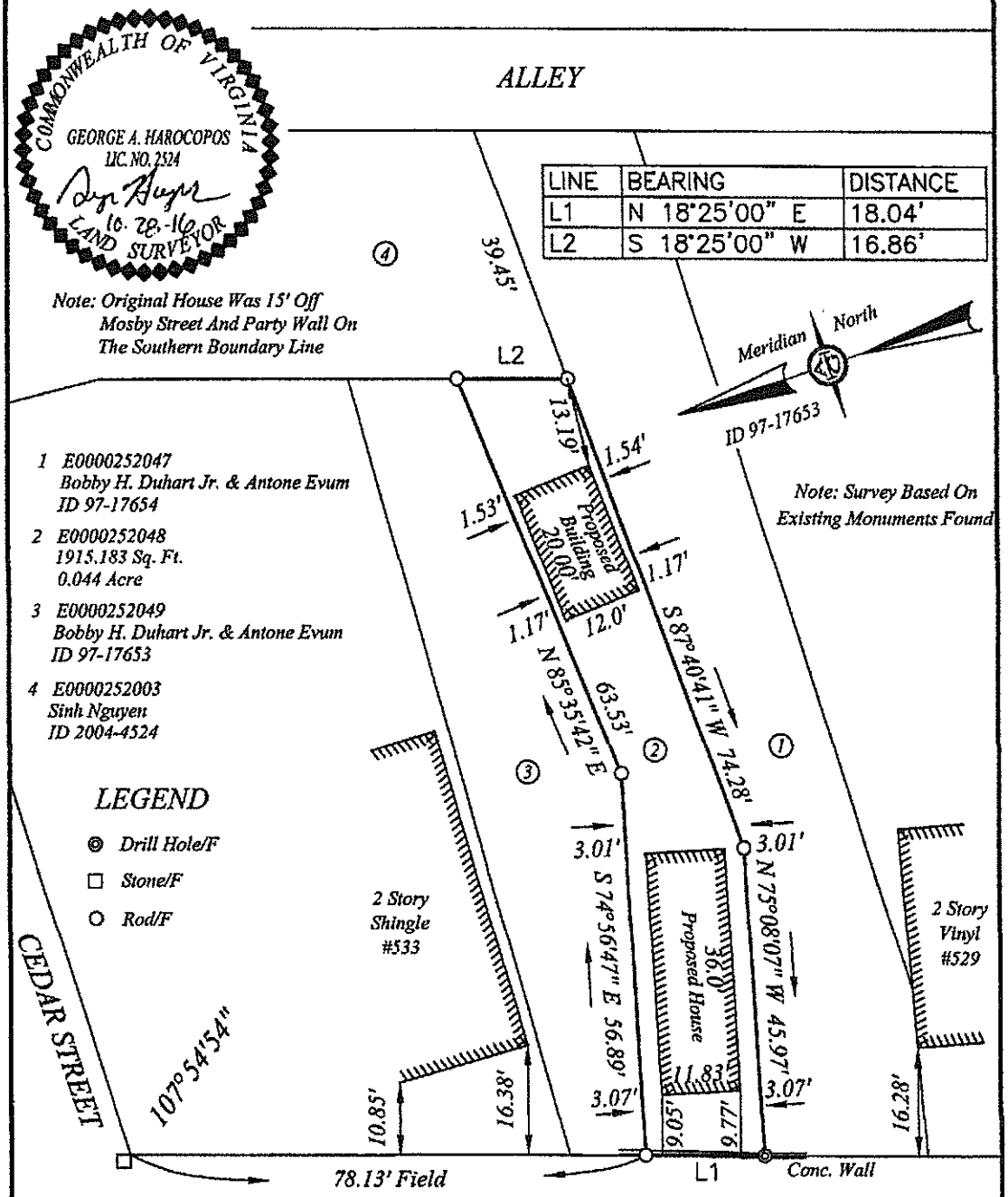
Created 7/2016

This is to certify that on 10/28/16
I made an accurate field survey of the known premises shown hereon; that all improvements known or visible are shown hereon; that there are no encroachments by improvements either from adjoining premises, or from subject premises upon adjoining premises, other than shown hereon.

NOTE: THIS LOT APPEARS TO BE IN FEMA FLOOD ZONE X AS SHOWN ON HUD COMMUNITY PANEL NUMBERS 5101290041E

NOTE: This survey has been prepared without the benefit of a title report and does not therefore necessarily indicate all encumberances on the property.

COMMONWEALTH OF VIRGINIA
GEORGE A. HAROCOPOS
LIC. NO. 2524
10-28-16
LAND SURVEYOR



MOSBY STREET

SURVEY OF

LOT AND IMPROVEMENTS THEREON LOCATED AT

JN 45935

533 MOSBY STREET

SECTION XXX

RICHMOND , VIRGINIA

NOTE: PLAT PREPARED FOR THE EXCLUSIVE USE OF GREEN BUILDERS

A. G. HAROCOPOS & ASSOCIATES, P.C.

CERTIFIED LAND SURVEYOR AND CONSULTANT

4920 E.MILLRIDGE PKWY. SUITE 200 MIDLOTHIAN VA. 23112
Office 804 744 2630 FAX 804 744 2632
E-MAIL AGHAROCOPOS@VERIZON.NET

Scale 1"=20' Date 10/28/16 Drawn by GAH

533 Mosby Street

This project conforms to the guidelines of the historic district of the city of Richmond, VA from several standpoints.

The gable roof line is consistent with many homes in the area. The traditional wood siding is consistent with many homes in the area and will be painted Benjamin Moore ~~Iron Mountain or Gravel Gray~~. Trim color will be black. Entry way will be Core-Ten steel. All energy needs will be met by solar panels. Loads and usage were calculated based on exterior siding color of black. Wrought iron

The house is narrow to conform with the lot size which keeps it very much in line with nearly all the homes in this district...long and narrow.

Off street parking is located at the rear of the property and is accessible by deeded access through the adjacent lot to the south. Parking area will be 18 feet by 14 feet gravel. Super/Recycling Cans will be located in the parking area.

The compressor for mini-split HVAC unit will be located on north slope of roof towards rear and will not be visible from the street.

Addendum to 533 Mosby Street

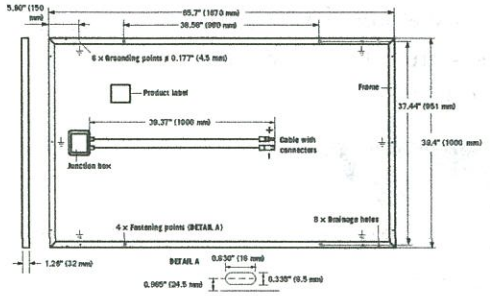
Color of siding will not be black. It will be either Benjamin Moore "iron mountain" or "gravel gray" with black trim.

Roof is not corrugated. It is standing seem.

Fence posts will be 6" by 6" p.t. painted black. 6' tall. Fence material between posts will be Corten steel to match entry.

MECHANICAL SPECIFICATION

Format	65.7 in × 39.4 in × 1.26 in (including frame) (1670 mm × 1000 mm × 32 mm)
Weight	41.45 lb (18.8 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminum
Cell	6 × 10 Q.ANTUM solar cells
Junction box	3.03 in × 3.54 in × 0.62 in (77 mm × 90 mm × 15.8 mm), Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 39.37 in (1000 mm), (-) ≥ 39.37 in (1000 mm)
Connector	MC4, IP68

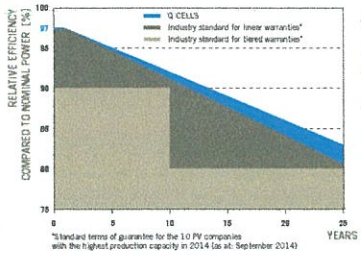


ELECTRICAL CHARACTERISTICS

POWER CLASS				270	275	280
MINIMUM PERFORMANCE AT STANDARD TESTING CONDITIONS, STC[1] (POWER TOLERANCE +5 W / -0 W)						
Minimum	**Power at MPP[2]**	P_{MPP}	[W]	270	275	280
	Short Circuit Current*	I_{SC}	[A]	9.29	9.35	9.41
	Open Circuit Voltage*	V_{OC}	[V]	38.46	38.72	38.97
	Current at MPP*	I_{MPP}	[A]	8.70	8.77	8.84
	Voltage at MPP*	V_{MPP}	[V]	31.04	31.36	31.67
	Efficiency[2]	η	[%]	≥16.2	≥16.5	≥16.8
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC[3]						
Minimum	**Power at MPP[2]**	P_{MPP}	[W]	199.6	203.3	207.0
	Short Circuit Current*	I_{SC}	[A]	7.49	7.54	7.58
	Open Circuit Voltage*	V_{OC}	[V]	35.89	36.13	36.37
	Current at MPP*	I_{MPP}	[A]	6.81	6.87	6.93
	Voltage at MPP*	V_{MPP}	[V]	29.30	29.59	29.87

[1] 1000 W/m², 25 °C, spectrum AM 1.5G [2] Measurement tolerances STC ±3 %; NOC ±5 % [3] 800 W/m², NOCT, spectrum AM 1.5G * typical values, actual values may differ

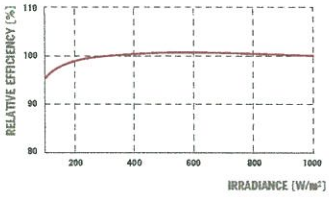
Q CELLS PERFORMANCE WARRANTY



At least 97 % of nominal power during first year.
Thereafter max. 0.6 % degradation per year.
At least 92 % of nominal power after 10 years.
At least 83 % of nominal power after 25 years.

All data within measurement tolerances.
Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	**Temperature Coefficient of V_{OC}**	β	[%/K]	−0.29
Temperature Coefficient of P_{MPP}	γ	[%/K]	−0.40	**Normal Operating Cell Temperature**	**NOCT**	[°F]	113 ± 5.4 (45 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1000 (IEC) / 1000 (UL)	**Safety Class**	II
Maximum Series Fuse Rating	[A DC]	20	**Fire Rating**	C (IEC) / TYPE 1 (UL)
Max Load (UL)[2]	[lbs/ft²]	75 (3600 Pa)	**Permitted module temperature on continuous duty**	−40 °F up to +185 °F (−40 °C up to +85 °C)
Load Rating (UL)[2]	[lbs/ft²]	55.6 (2666 Pa)	[2] see installation manual	

QUALIFICATIONS AND CERTIFICATES

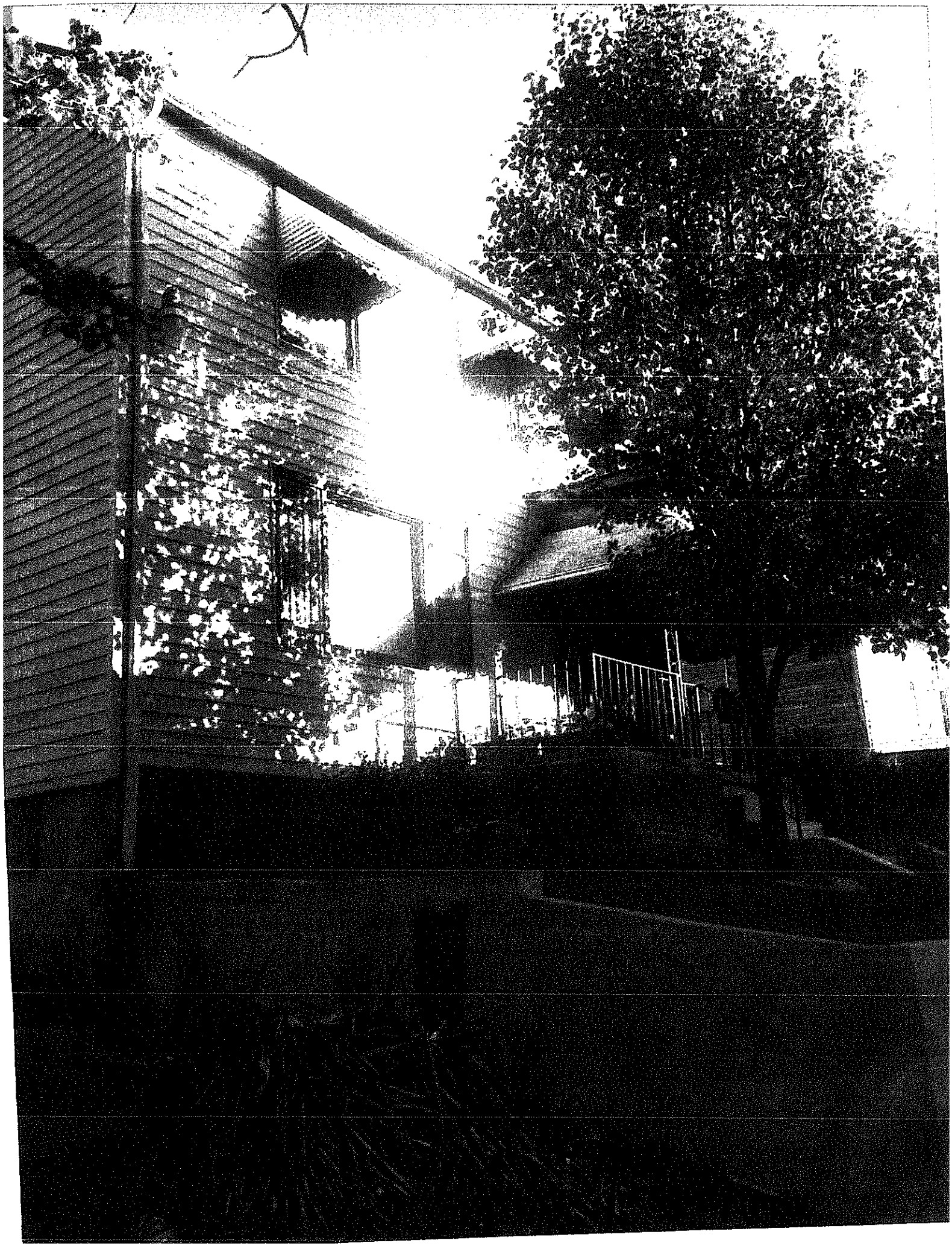
UL 1703; VDE Quality Tested; CE-compliant;
IEC 61215 (Ed.2); IEC 61730 (Ed.1) application class A

PACKAGING INFORMATION

Number of Modules per Pallet	32
Number of Pallets per 53' Container	32
Number of Pallets per 40' Container	26
Pallet Dimensions (L × W × H)	68.7 in × 45.3 in × 46.1 in (1745 × 1150 × 1170 mm)
Pallet Weight	1435 lb (651 kg)

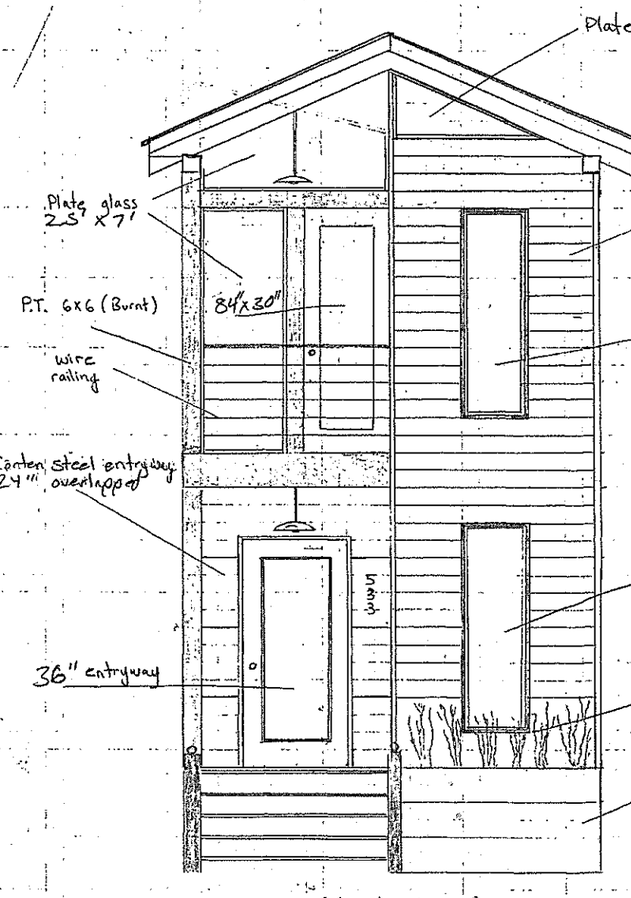
NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.
300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA | **TEL** +1 949 748 59 96 | **EMAIL** inquiry@us.q-cells.com | **WEB** www.q-cells.us

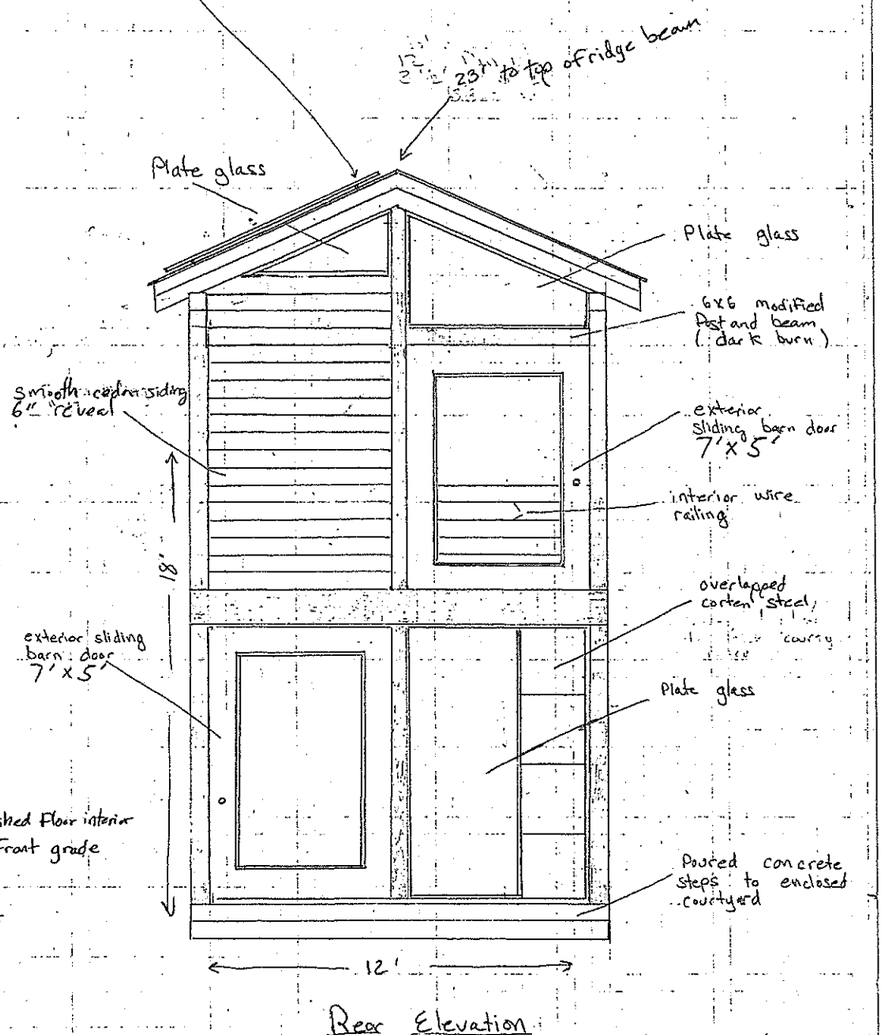


Union Hill (Mosby St.)
792 s.f

Solar panels on south slope of roof
will not be visible from street due to height of roof and Angle
will not extend to front of house
will be mounted flat to roof with minimal gap
to maintain flush appearance
12 Panels 5' x 3'
spec sheet included

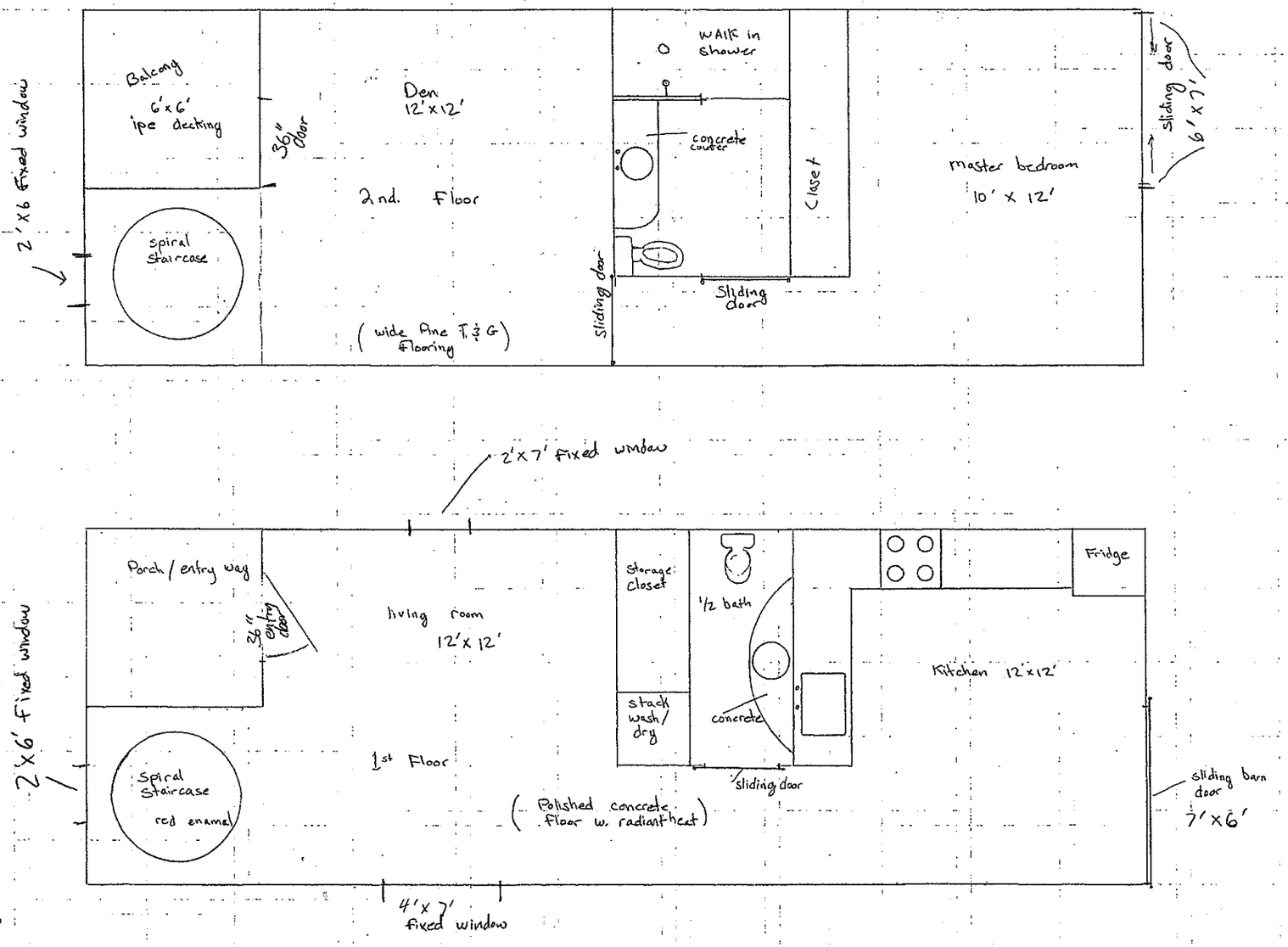


Front Elevation

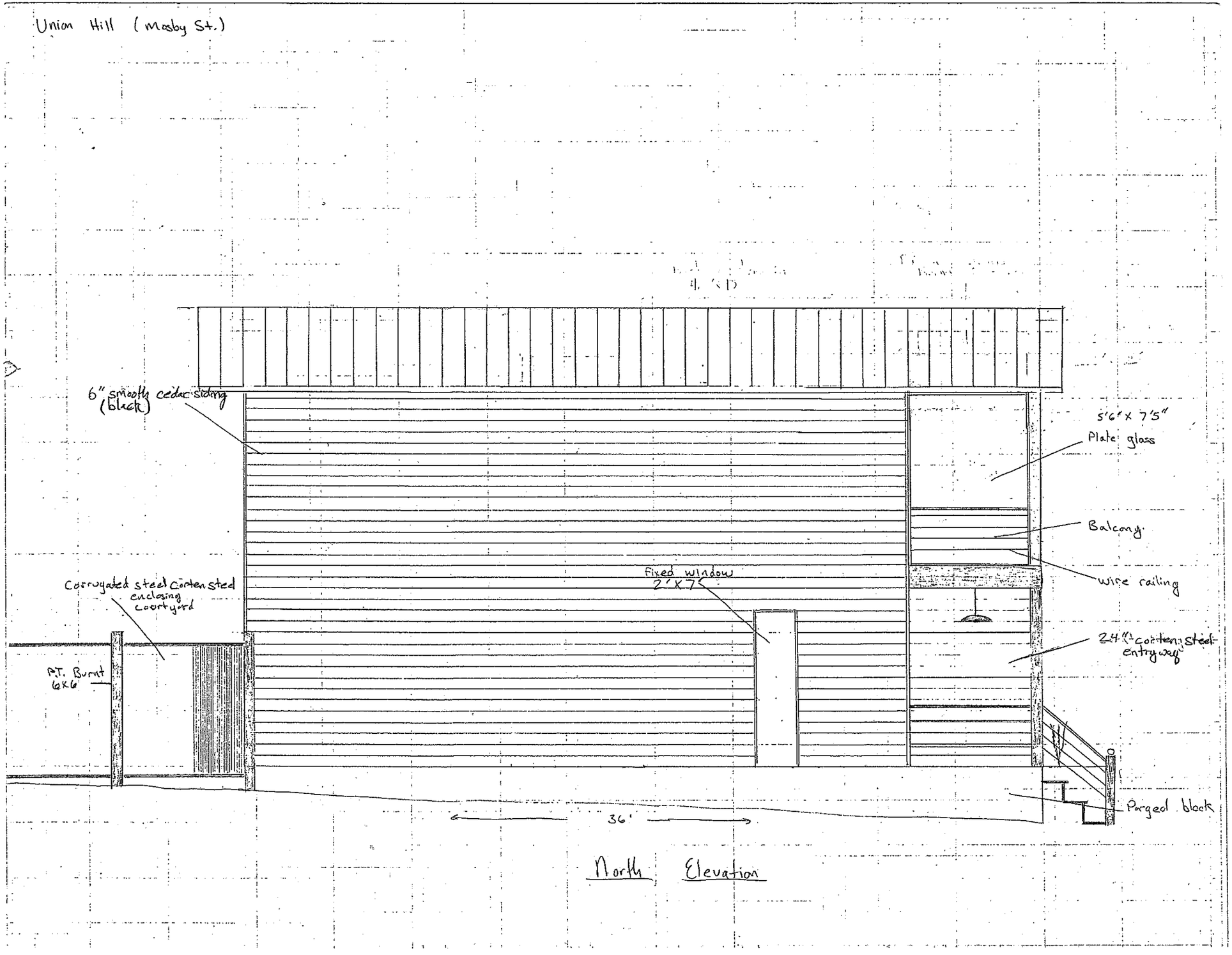


Rear Elevation

Union Hill (Mosby St.)
792 s.f.



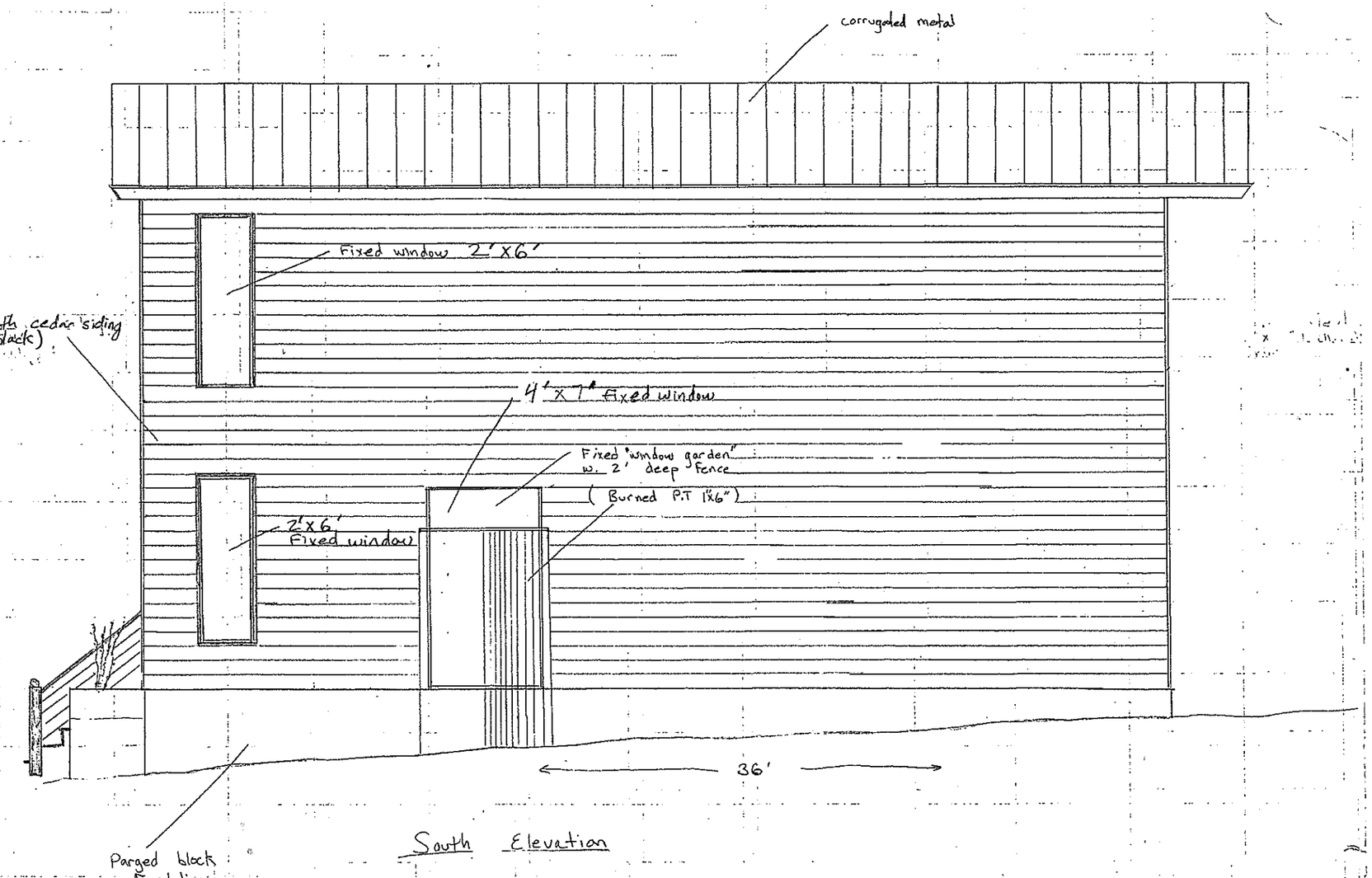
Union Hill (Mosby St.)



North Elevation

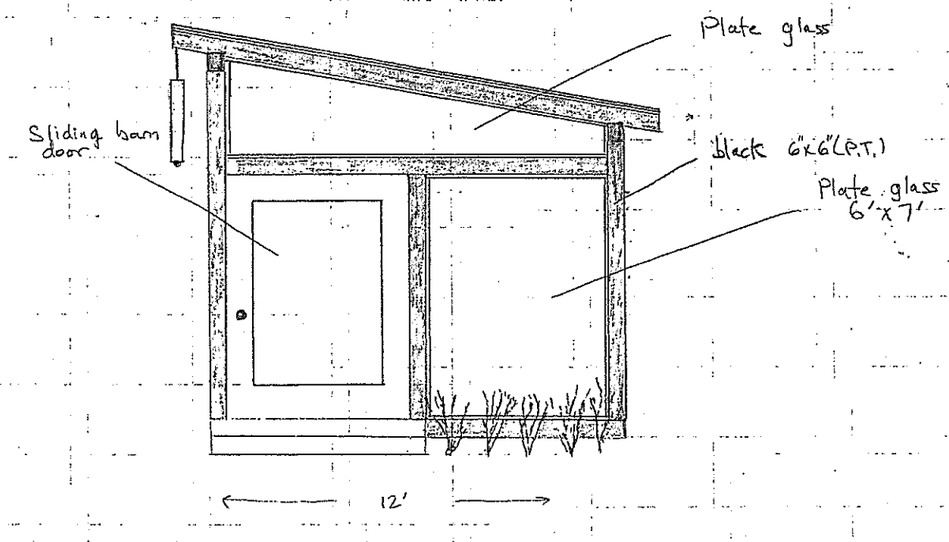
Union Hill (mosby St.)
792 S.F.

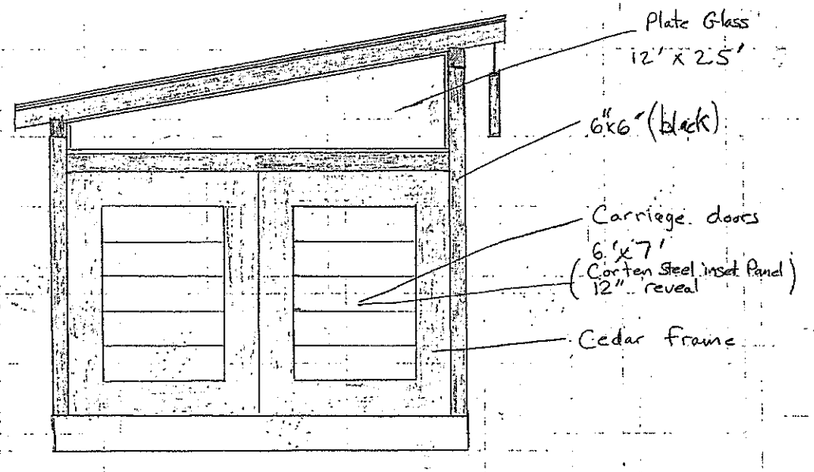
- Corrugated metal roof
- cedar siding 6" reveal (black)



South Elevation

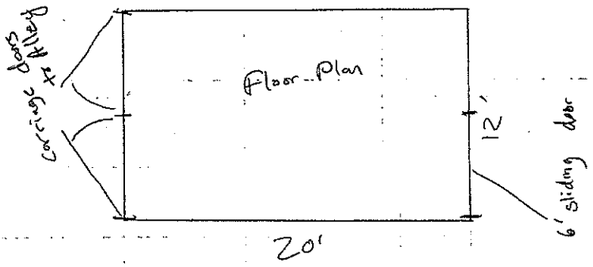
Studio 12" x 20". 192 s.f.
Smooth cedar siding 6" reveal (black)

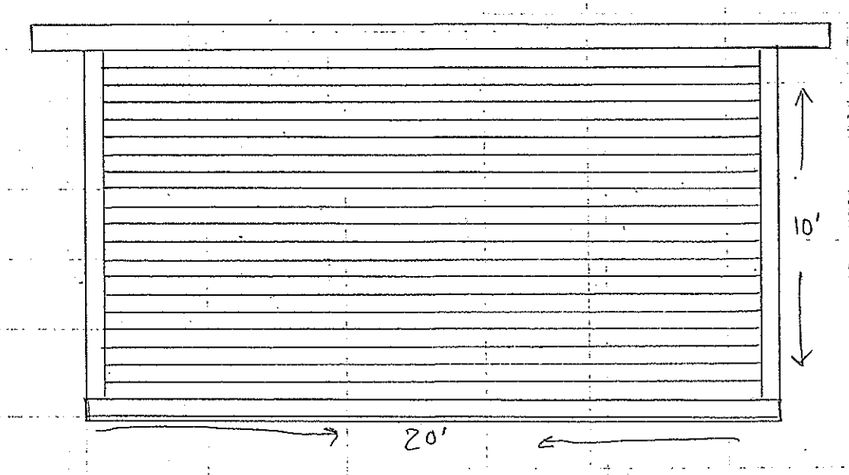




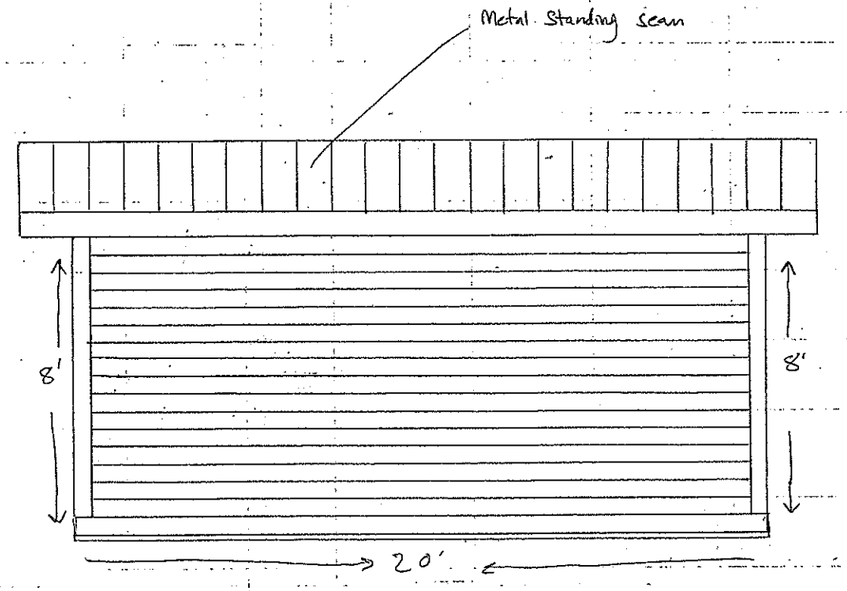
12'x 20' carriage house/studio
cedar siding to match house (black)
concrete pad

Black cedar carriage doors w. corten steel inset panels





North Elevation



South Elevation

Union Hill 533 Mosby St.
Context Drawing