

HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive
Chair

Date: 9/4/2025

MEMORANDUM

TO: Rabbiah Sabbakhan

Department of Permitting Services

FROM: Laura DiPasquale

Historic Preservation Section

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #1128890– Enclosure of existing screened porch, construction of new

screened porch

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached applications for a Historic Area Work Permit (HAWP). This application was **approved with one (1) condition** at the September 3, 2025 HPC meeting:

1. The new windows must have simulated-divided-lights, not grilles-between-glass.

The HPC staff has reviewed and stamped the attached submission materials.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: Stephen "Pooh" Strachan

Address: 3924 Washington Street, Kensington

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete, the applicant will contact Laura DiPasquale at 301-495-2167 or laura.dipasquale@montgomeryplanning.org to schedule a follow-up site visit.



Description of Property: Please describe the building and surround landscape features, or other significant features of the property:	ling environment. Include information on significant structures,
Description of Work Proposed: Please give an overview of the wor	k to be undertaken:
	APPROVED
	Montgomery County
REVIEWED	Historic Preservation Commission
By Laura DIPasquale at 12:12 pm, Sep 04, 2025	
	Karen Bulit

Work Item 1:	
Description of Current Condition: Pro	oposed Work:
Work Item 2:	
Description of Current Condition: Pro	APPROVED Montgomery County Historic Preservation Commission
REVIEWED By Laura DIPasquale at 12:12 pm, Sep 04, 2025 Pro	Kare Bulit



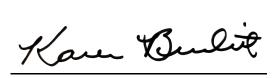
REVIEWED

By Laura DIPasquale at 12:12 pm, Sep 04, 2025

APPROVED

Montgomery County

Historic Preservation Commission















MR. & MRS. POOH STRACHAN

3924 WASHINGTON STREET KENSINGTON, MD 20895

REVIEWED By Laura DIPasquale at 12:12 pm, Sep 04, 2025



JOBSITE LOCATION:

3924 WASHINGTON STREET KENSINGTON, MD 20895 DATE: 08-08-2025

GENERAL NOTES

GROUND	WIND	SEISMIC		SUBJECT TO	DAMAGE FROM		WINTER	ICE SHIELD	FLOOD	AIR	MEAN
SNOW LOAD	W SPEED DESIGN	CATEGORY	Weathering	Frost line depth	Termite	Decay	DESIGN LAYMENT REQUIRED	HAZARDS '	FREEZING INDEX	ANNUAL TEMP	
30 p.s.f.	115 mph	В	Severe	30"	Moderate to Heavy	Slight to Moderate	13℉	Yes	7-2-79	300	55℉

1) All construction to be in conformance with 2021 I.R.C., one and two family dwelling code & all MONTGOMERY COUNTY additions and revisions thereto.

2) Design live loads:

- Sleeping room load .. 30 p.s.f. - Floor load 40 p.s.f. - Roof load 30 p.s.f.

- 3) Soil bearing to be 2000 p.s.f. minimum. Design for 60 p.s.f. lateral soil pressure
- 4) Design wind load 115 mph.
- 5) Bottom of all concrete footings to be 30" minimum below finished grade.
- 6) Foundation walls shall comply to I.R.C. Sec. R-401. thru 404.
- 7) Foundation drainage shall comply to I.R.C. Sec. R-405.
- 8) Foundation waterproofing shall comply to I.R.C. Sec. R-406.
- 9) Attached Garages shall comply to I.R.C. Sec. R-309.
- 10) Concrete floors shall comply to I.R.C. Sec. R-506.
- 11) All concrete to be 150 p.c.f. and conform to the latest A.C.I. 318 specifications. Porches, garages, slabs and steps exposed to weather, to be 3500 p.s.i. air entrained concrete. Foundation walls, exterior walls and other vertical concrete work to be 3000 p.s.i. air entrained concrete. All other concrete to be 4000 p.s.i.
- 12) All c.m.u. used in basement and foundation walls shall be load bearing units conforming to A.S.T.M. C 90—70 for hollow units. At wood post and wood beam bearing locations on c.m.u. wall cells shall be filled solid with grout or mortar for top two course minimum.
- 13) All c.m.u. walls shall have standard truss type DUR-O-WALL bed joint reinforcing at maximum 16" vertical spacing.
- 14) All brick units used in exterior shall conform to A.S.T.M. C 62 or A.Ś.T.M. C 216
- 15) All mortar shall be type "S" conforming to A.S.T.M. C 270
- 16) Stone and masonry veneer shall conform to I.R.C. Sec. R-703.8.
- 17) Backfilling against basement walls shall not be performed until first floor framing is in place and top of reinforced c.m.u. walls are braced against overturning.
- 18) Maximum allowable lateral pressure on basement walls 60 p.s.f.
- 19) All reinforcing steel to be grade 60 and conform to A.S.T.M. Spec. A 615. Unless otherwise noted. Provide corner bars at all wall corners. Submit reinforcing steel shop drawings for approval.
- 20) Steel post cap plates to conform to A.S.T.M., Spec. A 36, Fy = 36,000 p.s.i. Bolts shall be A.S.T.M. A 307 or better.
- 21) Steel columns in basement to be adjustable 3"I.D. S40 columns unless specified otherwise. structural steel shall meet A.S.T.M.982 standards. All connections to be A.I.S.C.
- 22) All structural wood framing, including roof and floor sheathing, to be in accordance with the "National Design Specifications for Wood Construction", published by The National Forest Products Association. Framing lumber shall be of the following grades or better:

CLASSIFICATION	SIZE	BENDING "Fb"	MODULUS OF ELASTICITY "E"
POSTS #1 D.F.		1200	1600000
HEADERS, BEAMS, ROOF HIPS #1 S.P.	2X4 2X6 2X8 2X10 2X12	1850 1650 1500 1300 1250	1700000 1700000 1700000 1700000 1700000
RAFTERS, JOISTS AND STUDS #2 H.F.	2X4 2X6 2X8 2X10 2X12	1000 1000 1000 1000 1000	1500000 1500000 1500000 1500000 1500000
Gang-Lam Beams (Fv = 285 PSI)	all	2800	2000000

23) All headers to be 2 - 2" x 12" unless specified otherwise.

24) Provide double jack studs at each end of headers and beams, 4'-0" to 5'-11", and triple jack studs for 6'-0" or longer, unless noted otherwise.

- 25) Splices of the bottom and top portion of a double top plate must be staggered a minimum of 4'-0".
- 26) All roof, floor and girder trusses to be designed by truss manufacturer to carry required loads and to be installed according to manufacturer's specifications.
- 27) Contractor to provide architect with shop drawings for all roof and floor trusses. Shop drawings to be provided to architect for approval prior to ordering trusses.
- 28) Provide solid blocking under all jack studs not bearing directly on joists or T.J.I.'s.
- 29) In those cases where floor trusses are not centered directly over the studs, splices of the top plate shall occur only over the studs.
- 30) Where installation of plumbing, heating or other pipes necessitates cutting of top plates, a metal tie not less than eighteen gauge, forty—five thousandths (0.045)" thickness and 1 1/2" wide shall be fastened to the plate across and to each side of the opening
- 31) Double beams, double hip and valley rafters shall be nailed securely together to ensure that the two members act conjointly in resisting the applied load.
- 32) Unless specified otherwise provide the following lintel over masonry openings:

STONE: UP TO 6" 3'-0" 6" X 4" X 5/16"	BRICK & STONE: UP TO 4"	3'-0" 5'-0" 8'-0"	3 1/2" X 3 1/2" X 1/4" 3 1/2" X 4" X 1/4" 3 1/2" X 5" X 5/16"
5'_0" 6" \ 6" \ 5 /16"	STONE: UP TO 6"	9'-0"	3 1/2" X 6" X 5/16"

- 33) All untreated lumber to be minimum of 8" above finished grade. All lumber in contact with concrete or c.m.u. to be pressure treated.
- 34) All prefab fireplaces to be U.L. rated and installed according to manufacturers
- 35) Chimney and fireplace construction to be in accordance with I.R.C. Chapter 10 and fig. R-1001.1.
- 36) Fireplace hearth to project 20" from front of facing and 12" to side of opening.
- 37) Fireblocking shall be provided according to I.R.C. Sec. R 602.8. The integrity of all fireblocking shall be maintained.
- 38) Draftstopping shall be provided according to I.R.C. Sec. R-302.12.
- 39) Provide radon mitigation according to I.R.C. Appendix AF.
- 40) Provide interconnected smoke detectors, carbon monoxide dectectors & automatic sprinkler systems to protect all floors, bedrooms, and basements according to I.R.C. Sec.
- 41) Stairways shall comply with I.R.C. Sec. R-311. Minimum headroom to be 6'-8" clear at all points. Minimum tread to be 10". Maximum riser to be $7 \frac{3}{4}$ ".
- 42) Handrails & guardrails shall comply to I.R.C. Sec. R-311 & 312.
- 43) All exits shall comply to I.R.C. Sec. R-311.
- 44) Sleeping room windows shall comply with I.R.C. Sec. R-310Maximum sill height 44" above finished floor.
- 45) All Glazing shall comply to I.R.C. Sec. R-308.
- 46) All Ceiling heights shall comply to I.R.C. Sec. R-305.
- 47) All exterior wall coverings shall comply to I.R.C. Sec. R-703.
- 48) All gas piping shall conform to N.F.P.A. 54 or 2021 IFGC.
- 49) Electrical wiring must conform to the latest 2017 National Electrical Code and County
- 50) Steel joists to be accordance with S.J.I specifications. Provide angle bridging top and bottom per S.J.I. . Submit shop drawings for approval.
- 51) Steel deck shall conform to S.J.I. specifications.
- Note: Builder shall provide roof framing plans signed and sealed by truss manufacturer and shop drawings for floor joists at framing inspection.
- Note: Trusses shall be braced per. manufacturers recommendations.

INDEX

000	COVER SHEET
D100	DEMOLITION PLAN
A100	FOUNDATION & FIRST FLOOR PLANS
A101	ROOF PLAN
A200	RIGHT ELEVATION
A201	LEFT & REAR ELEVATIONS
A300	SECTIONS A & B
A400	WIND BRACING DETAILS
S100	FIRST FLOOR & ROOF FRAMING PLANS
S110	BEAM CALCULATIONS
S200	STRUCTURAL PANEL ANALYSIS
E100	FIRST FLOOR ELECTRIC PLAN
EC100	THERMAL ENVELOPE
Z100	SITE PLAN
Z101	DRAINAGE PLAN

CLAUDE C. LAPP ARCHITECTS, LLC—

REVISIONS

7361 CALHOUN PLACE, SUITE 205 ROCKVILLE, MD 20855 TEL. 301-881-6856 WWW.CCLARCHITECTS.COM INFO@CCLARCHITECTS.COM

FLOOR AREA (SQ. FT.)

			`	,	
BSMT	FINISHED				
	UNFINISHED				
1ST FL.	NEW MAIN	147			
	GARAGE				
	FRONT PORCH				
	SCREENED PORCH	423			
2ND FL.	MAIN				
					 1

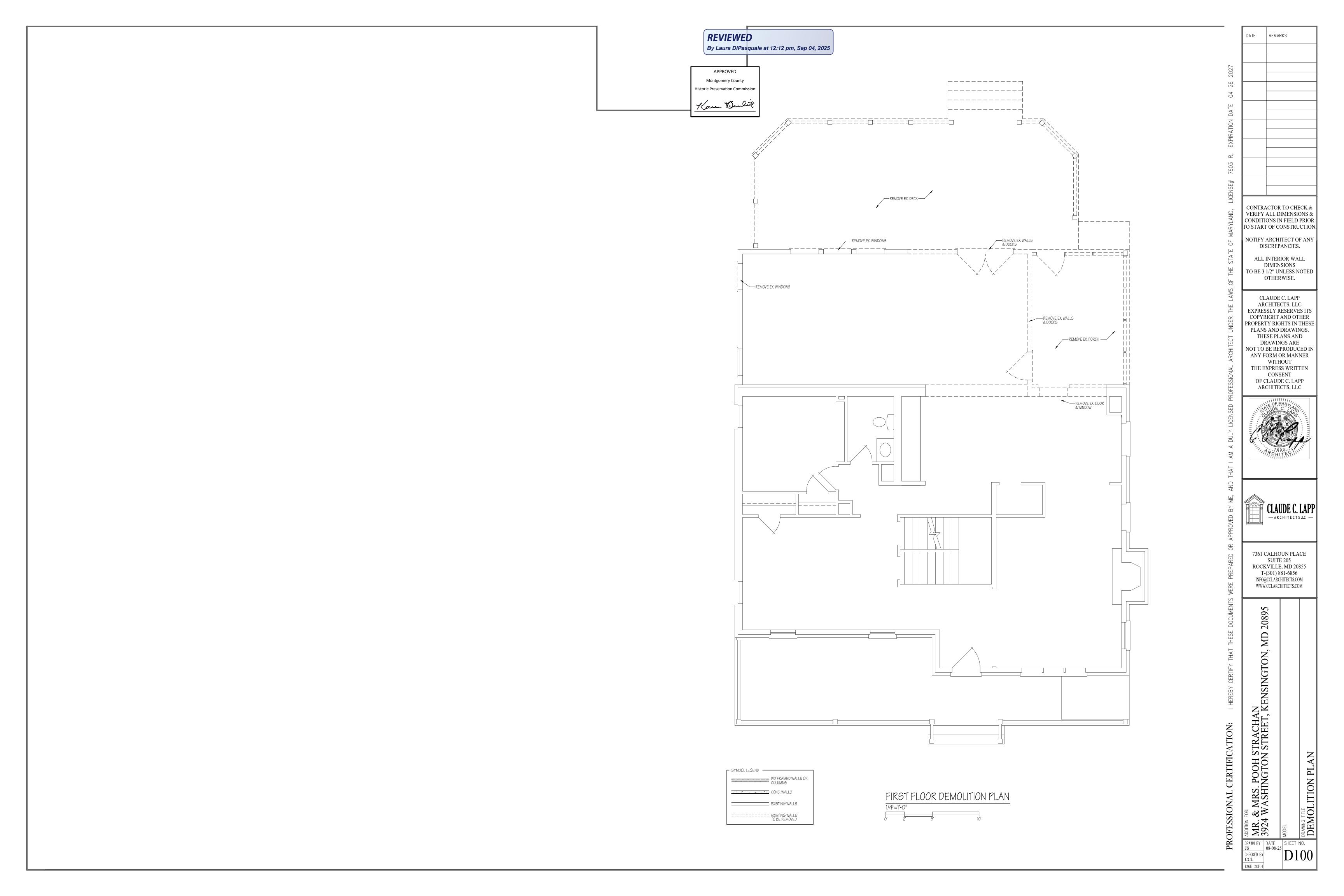
PROFESSIONAL CERTIFICATION

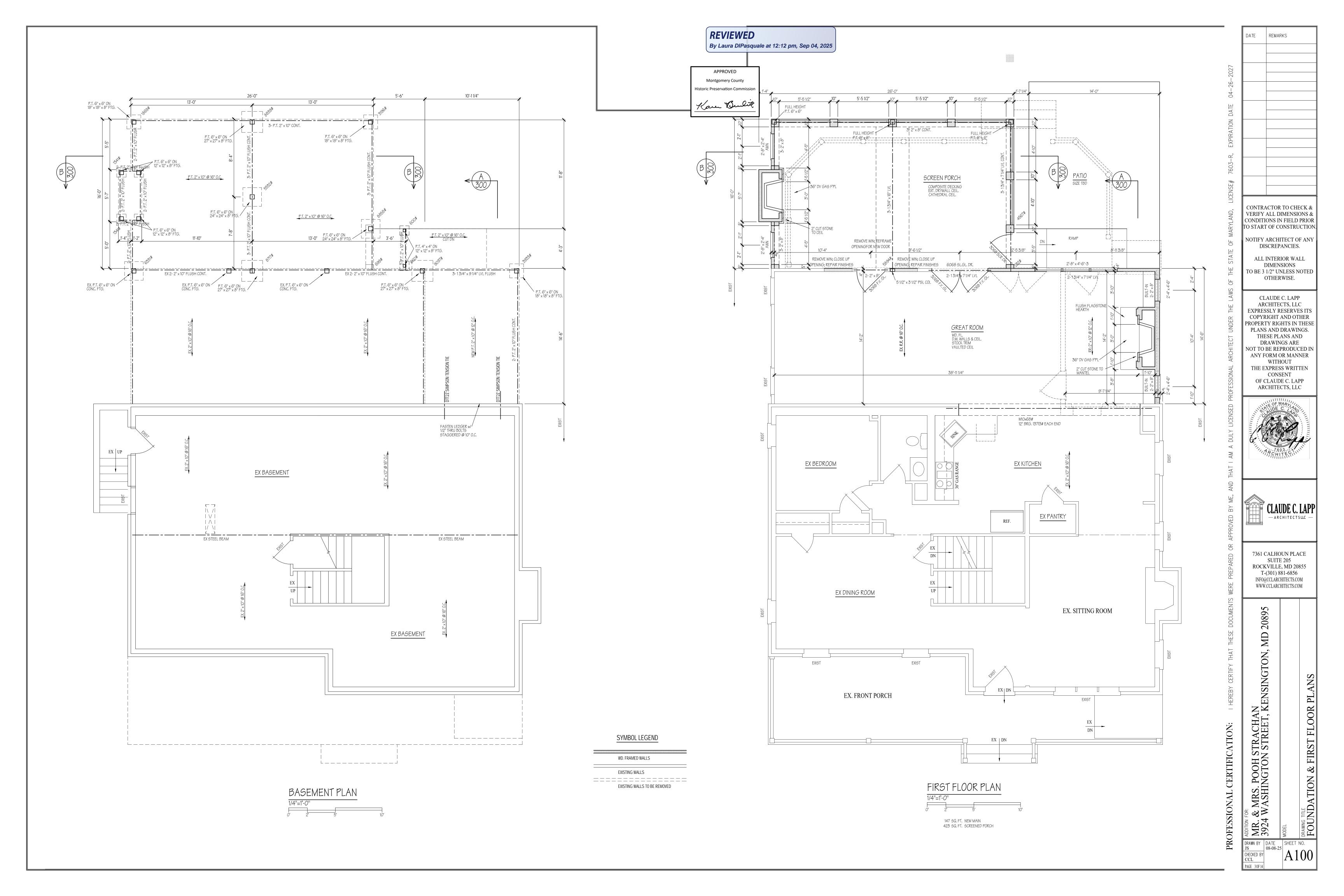
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE# 7603-R, EXPIRATION DATE 04-26-2027

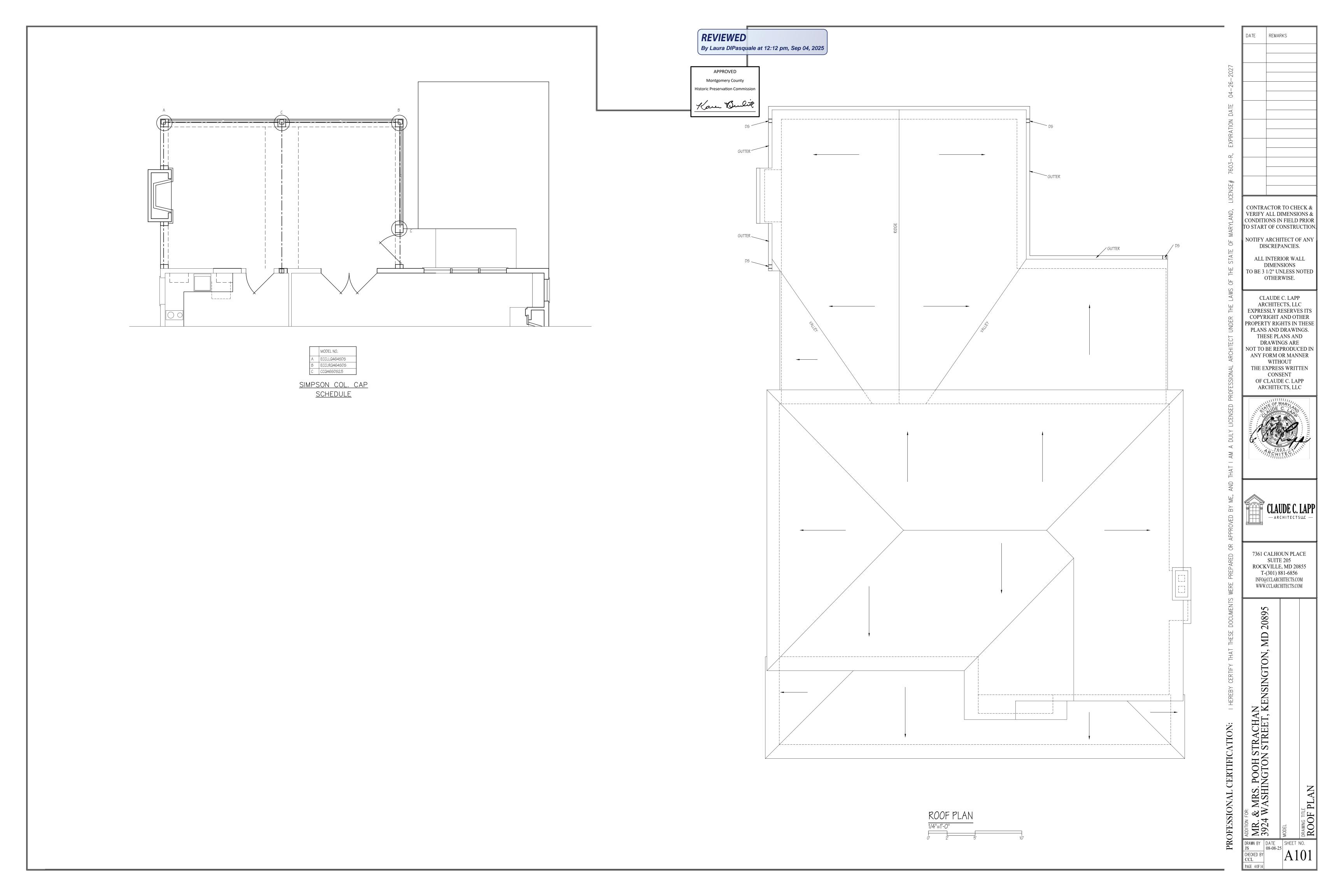


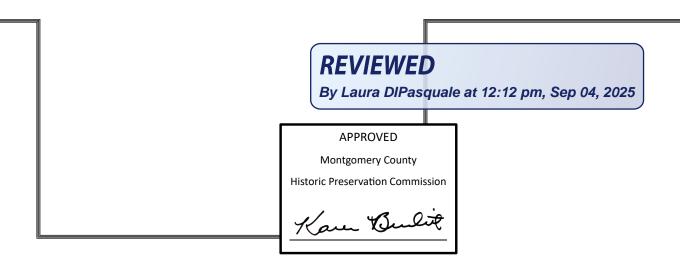
OPTION	2021 IECC CODE
☐ PRESCRIPTIVE COMPLIANCE OPTION	R402.1.2
□ PRESCRIPTIVE R-VALUE ALTERNATIVE	R402.1.3
□ TOTAL UA ALTERNATIVE	R402.1.5
	R402.1.3.1
□ TOTAL BUILDING PERFORMANCE	R405
☐ ENERGY RATING INDEX COMPLIANCE ALTERNATIVE	R406
NOTE:	

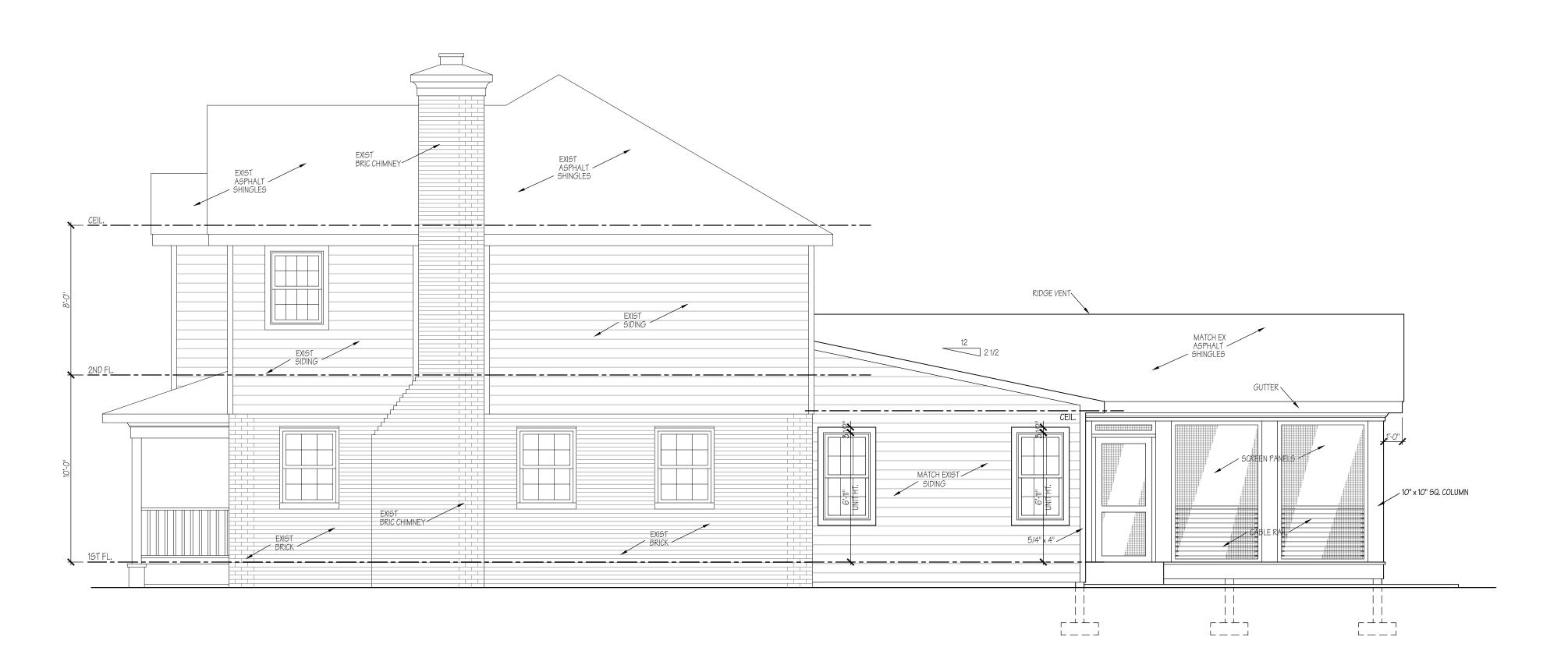
ENERGY COMPLIANCE PATH













	DATE	REMARKS
04-26-2027		
DATE (
PIRATION		
EXF		
LICENSE# 7603-R, EXPIRATION DATE		
ENSE#		
	CONTRA	CTOD TO CHECK 0

CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS & CONDITIONS IN FIELD PRIOR TO START OF CONSTRUCTION

NOTIFY ARCHITECT OF ANY DISCREPANCIES.

ALL INTERIOR WALL DIMENSIONS TO BE 3 1/2" UNLESS NOTED OTHERWISE.

CLAUDE C. LAPP ARCHITECTS, LLC EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS AND DRAWINGS. THESE PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF CLAUDE C. LAPP

ARCHITECTS, LLC

7361 CALHOUN PLACE SUITE 205 ROCKVILLE, MD 20855 T-(301) 881-6856 INFO@CCLARCHITECTS.COM WWW.CCLARCHITECTS.COM

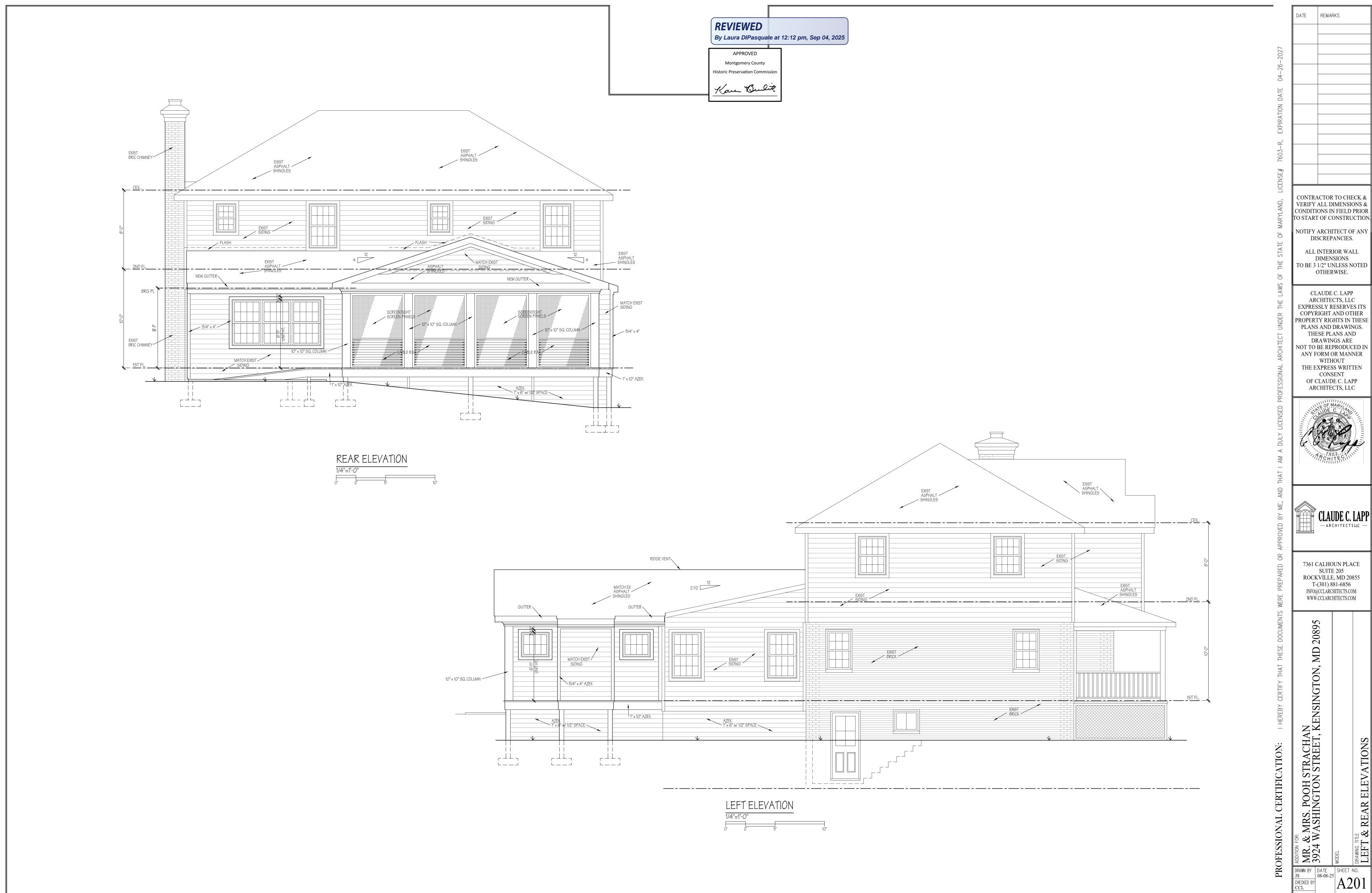
ADDITION FOR:

MR. & MRS. POOH STRACHAN

3924 WASHINGTON STREET, KENSINGTON, MD 20895

TO DEAWING THE TOTAL TO A TOTAL TOT

PROFESSIONAL CERTIFICATION:

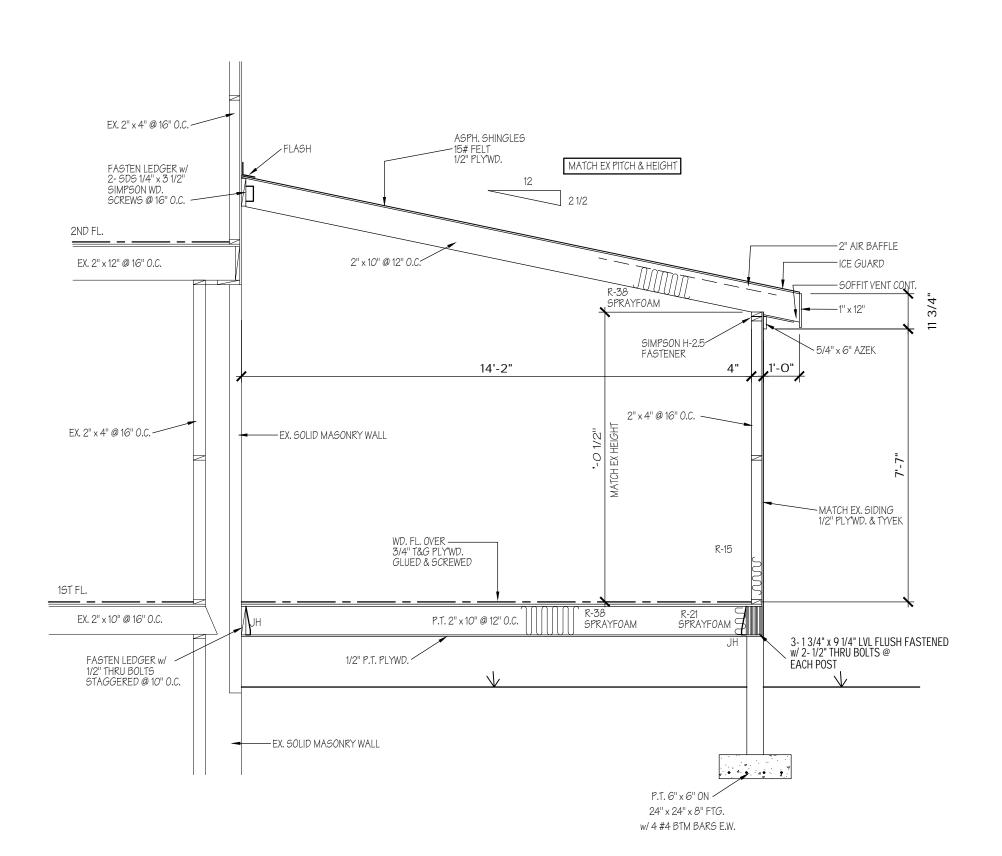


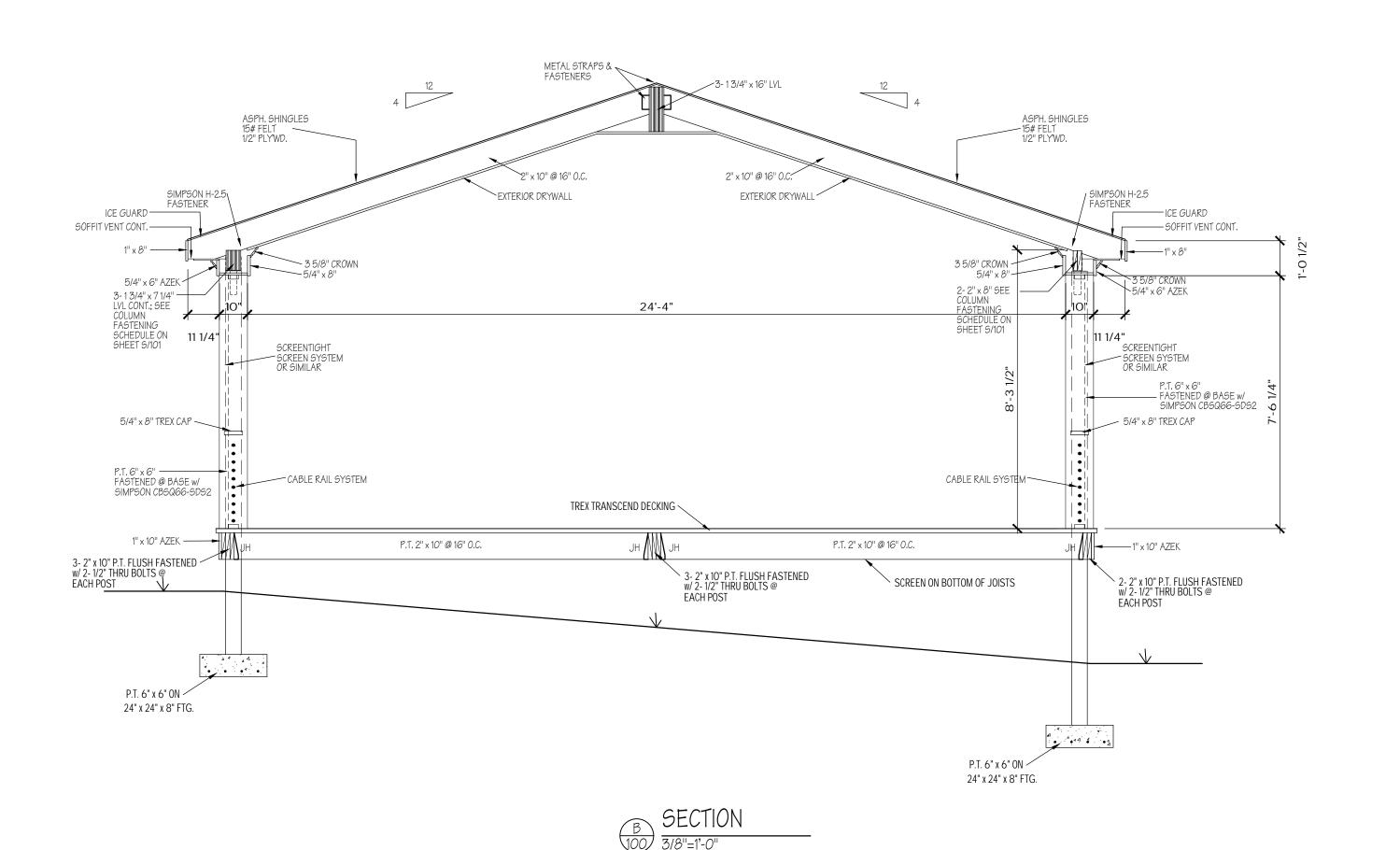




__ _ _ LINE OF BUILDING
THERMAL ENVELOPE PROVIDE ICE SHIELD LOCATION WITHIN 2'-0"
 HORIZONTALLY OF OUTSIDE FACE OF
 EXTERIOR WALL @ EAVES PER IRC 2015
 SECTION R905.1.2 2. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED WD SHALL BE NON CORROSIVE PER IRC 2015 SECTION 317.3.1

REVIEWED By Laura DIPasquale at 12:12 pm, Sep 04, 2025 APPROVED **Montgomery County** Historic Preservation Commission Kare Bulit



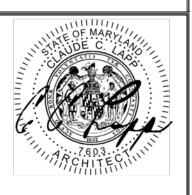


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ADDITION FOR:

| CASE |

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A300

constructed atop concrete or masonry

foundations or a raised wood floor as

shown in FIGURE 18. A maximum of

constructed in each braced-wall-line.

Portal frames are permitted to be

constructed up to 10 feet tall with an

tall. The inclusion of a pony wall does

have limitations and requires specific

optional pony wall atop up to 2 feet

four Method CS-PF panels can be

PORTAL FRAME PONY WALLS

BRACING METHODS

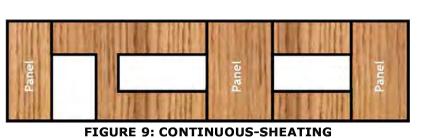
The type, material and configuration of sheathing methods vary. There are two types of bracing: intermittent (FIGURE 8) and continuous-sheathing (FIGURE 9).

Intermittent braced-wall-panels are placed at required locations only. The nonsheathed area between them is infilled with other material such as insulating foam. In continuous-sheathing the entire face of the wall is sheathed, including areas above and

below openings. In our region, continuous-sheathing is the predominant sheathing type for the exterior, while intermittent is most common for the interior.

TABLE 3 below lists the most common bracing methods and a description of each.

TABLE 3: BRACING METHODS



See Page 7 for portal frames.

FIGURE 8: INTERMITTENT BRACING

	TABLE 3: BRACING METHODS				
Methods, Materials	Minimum Thickness	Connection Criteria	Figure		
Intermittent Methods					
LIB Let-in-bracing	1x4 wood or metal straps, 45° to 60° angles	Wood: 2-8d common nails (2½" long x 0.113" dia.) at each stud Metal: per manufacturer			
WSP Wood structural panel (OSB or plywood)	3∕%"	8d common nails (2 ½" long x 0.113" dia.) @ 6" edges, @ 12" field			
SFB Structural fiberboard sheathing	½" (maximum 16" stud spacing)	Galv. roofing nails (1½" long x 0.113" dia.) @3" edges, @ 6" field or 8d common nails (2½" long x 0.113" dia.) @ 6" edges, @ 12" field			
GB Gypsum board	1/2"	Nails: 13 gage x 1½" long, 19/ ₆₄ " head or 0.098" dia., 1¼" long, annular-ringed or 5d cooler nails, 0.086" dia., 1½" long @ 7" Screws: Type W or S @ 7"			
PFH Portal frame with hold-downs	%"	See Page 7 for portal frames.			
PFG Portal frame at garage	⁷ / ₁₆ "	See Page 7 for portal frames.			
	Continuous-Sheathing	Methods			
CS-WSP Continuous wood structural panel	¾ 6"	8d common nails (2 ½" long x 0.113" dia.) @ 6" edges, @ 12" field			
CS-G Continuous wood structural panel at garage door opening	[32] (applies to one wall of one-story garages only)	8d common nails (2 ½" long x 0.113" dia.) @ 6" edges, @ 12" field			
CS-SFB Continuous structural fiberboard	½" (maximum 16" stud spacing)	Galv. roofing nails (1½" long x 0.113" dia.) @3" edges, @ 6" field 8d common nails (2½" long x 0.113" dia.) @ 6" edges, @ 12" field			
		1			

Continuous-sheathing portal frame

Wind Bracing

CS-PF

MIXING METHODS

permitted provided the method which portion of a braced-wall-line with generates the highest required bracing continuous-sheathing methods along with any other method in the same per TABLE 1 governs the braced-wall- the exterior portion, the corners each braced-wall-line. line design.

bracing methods along the interior end of the continuous-sheathing

portion(s) of the braced-wall-line must meet the conditions listed below. Method CS-SFB cannot be mixed

CONTINUOUSLY SHEATHED
BRACED WALL LINE

48" MINIMUM BRACED WALL PANE

AT END OF BRACED WALL LINE

FIGURE 12: 48-INCH END-

A double portal includes a braced-

CONTINUOUS-SHEATHING CORNERS

The corners at each end of a braced-wall-line with continuoussheathing must be strengthened using the options described below.

The first option is to have a braced-wall-panel at each end and a return-panel on the intersecting braced-wall-line as shown in FIGURE 10. The minimum size of a return panel is 24 inches for wood structural panels and 32 inches for structural

fiberboard. A return panel may be omitted if the end-braced-wall-panel is 48 inches minimum as shown in FIGURE 12 or you install an 800 pound hold-down at the end-panel, as shown in FIGURE 11.

If your end-braced-wall-panel is offset from the corner, then you must install an 800 pound hold-down at the edge of the braced-wall-panel as shown in FIGURE 13.

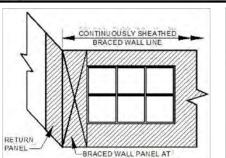
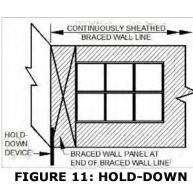
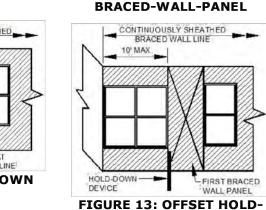


FIGURE 10: RETURN PANEL





PORTAL FRAMES

wall-panel, portal frames are easy, braced-wall-panels are constructed opening to a jack stud. narrow options that can be

constructed with common building materials. The code provides three different portal frames. Methods PFH and PFG are intermittent methods, and Method CS-PF is a continuoussheathing method.

Portal frames are tested assemblies equivalent to a standard bracedwall-panel. Their strength is derived from the stiffness created by the connection of the wood sheathing to

Wind Bracing

Wind Bracing

For those applications where it is the header which must span over the single portal includes the braced-walldifficult to place a full-length braced- panel. Therefore, it is essential these panel and header spanning over the

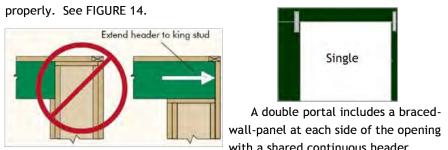


FIGURE 14: PORTAL FRAME

as a single portal or double portal. A

with a shared continuous header spanning over each panel. Portal frames can be constructed

constructed atop a concrete oundation with cast-in-place hold-

<u>METHOD PFH</u>

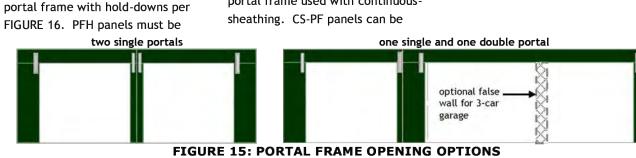
Method PFH is an intermittent

Method PFG is an intermittent

Single and double portals can be portal frame with anchor bolts per used together to frame numerous FIGURE 17. Permitted only at garage openings, such as garage doors or openings, PFG panels can be windows in sunrooms, and still comply constructed atop a concrete or with wall bracing requirements. See masonry foundation. FIGURE 15.

METHOD CS-PF

material strengths as listed in TABLE 4. Method CS-PF, per FIGURE 18, is a portal frame used with continuous-



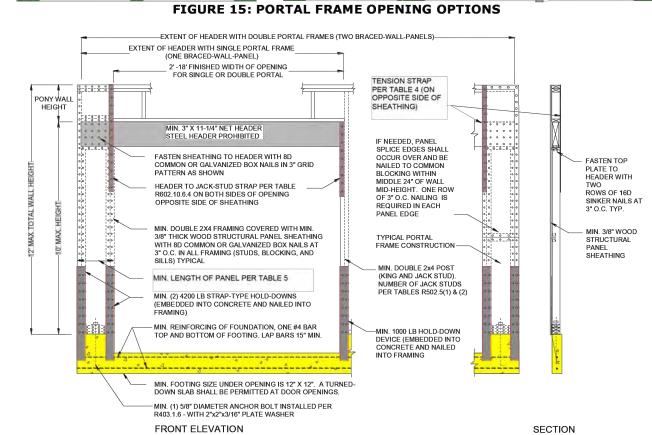


FIGURE 16: METHOD PFH

EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED-WALL-PANELS) EXTENT OF HEADER WITH SINGLE PORTAL FRAME (ONE BRACED-WALL-PANEL) 2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL FASTEN SHEATHING TO HEADER WITH 8D COMMON OR GALVANIZED BOX NAILS IN 3" GRID PATTERN AS SHOWN HEADER TO JACK-STUD STRAP PER TABLE R602 10.6.4 ON BOTH SIDES OF OPENING OPPOSITE SIDE OF SHEATHING O.C. IN FRAMING (STUDS AND SILLS) AS SHOWN, MIN. LENGTH OF PANEL PER TABLE 5 NUMBER OF JACK STUDS PER TABLES R502.5(1) & (2) FRONT ELEVATION SECTION FIGURE 17: METHOD PFG

IINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (ft)	MAXIMUM TOTAL WALL HEIGHT (ft)	MAXIMUM OPENING WIDTH (ft)	TENSION STRAP CAPACITY REQUIRED (Ibs) ¹
	0	10	18	1000
			9	1000
	1 1	10	16	1000
		HEIGHT (ft) WALL HEIGHT (ft) 0 10	18	1200
			9	1000
2x4 No. 2 Grade	2	10	16	2025
			2400	
			9	1200
	2	12 16 3200		3200
			18	3850
	4	12	9	2350
			16	design required
			9	1000
	2	12	16	2050
2x6 Stud Grade		18 9 10 16 18 9 12 16 18 12 9 16 18 19 10 11 11 12 13 14 15 16 18 18 18 18 18 18 18 18 18 18	18	2450
			9	1500
	4	12	16	3150
			18	3675

Wind Bracing

EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED-WALL-PANELS)

(ONE BRACED-WALL-PANEL) PER TABLE 4 (ON OPPOSITE SIDE OF SHEATHING) COMMON OR GALVANIZED BOX NAILS IN 3" GRID PATTERN AS SHOWN HEADER WITH TWO ROWS OF 16D SINKER NAILS AT 3" O.C. TYP. IF NEEDED PANEL
SPLICE EDGES SHALL
OCCUR AND BE
ATTACHED TO
COMMON BLOCKING
WITHIN 24" OF WALL
MID-HEIGHT. ONE ROW
OF 3" O.C. NAILING IS
REQUIRED IN EACH
PANEL EDGE. R602.10.6.4 ON BOTH SIDES OF OPENING OPPOSITE SIDE OF SHEATHING OVER CONCRETE OR MASONRY BLOCK FOUNDATION

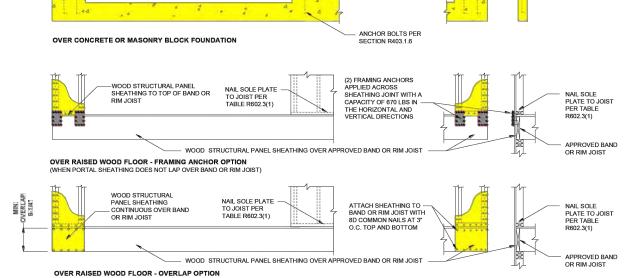


FIGURE 18: METHOD CS-PF

and horizontal joints are permitted.

BRACED-WALL-PANELS REQUIREMENTS

paneling.

Wind Bracing

FRONT ELEVATION

For braced segments of walls to be For all methods except Method Joints must be fastened using edge considered braced-wall-panels, they LIB, you may eliminate the interior must meet the minimum requirements finish material if you multiply the bracing determined in TABLE 1 by a noted herein. **INTERIOR FINISH MATERIAL**

With the exception of Methods GB, <u>JOINTS</u> PFH, PFG and CS-PF, the interior side A braced-wall-panel is not of a braced-wall-panel must be required to be constructed with a finished with ½-inch gypsum board or single sheet of OSB, plywood, an equivalent material such as fiberboard or gypsum board. Vertical

nailing requirements. Vertical joints must occur at a stud. Except for portal frames, horizontal joints must have 2x blocking and may occur anywhere along the height of the braced-wall-

> Horizontal blocking is not required when the amount of actual bracing provided in the braced-wall-line is at least double that required by TABLE 1

TABLE 5: MINIMUM LENGTH OF BRACED WALL PANELS CONTRIBUTING LENGTH GB Single sided = 0.5 x Actual Supporting roof only pporting one story and roof Actual 2 CS-SFB 2 Use the actual length provided it is greater than or equal to the minimum length.

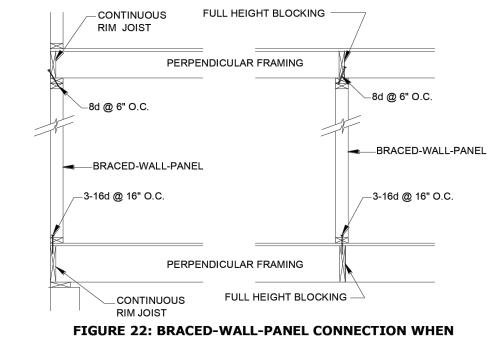
> LENGTH FIGURE 20: BRACED-WALL-PANELS WITH METHODS CS-WSP AND CS-SFB

Maximum header height for is 10°; however, wall height may be increased to 12° with a pony wall per TABLE 4.

FLOOR/CEILING CONNECTION

Wind Bracing

Where framing is perpendicular to a braced-wall-panel, a rim joist or blocking must be provided along its length as shown in FIGURE 22. Where framing is parallel to a braced-wall-panel, a rim joist, framing member or blocking must be provided along its length as shown in FIGURE 23.



CONTINUOUS RIM OR @ 16" O.C. **END JOIST** TOE NAIL 3-8d 〜8d @ 6" О.С. –8d @ 6" O.C. NAILS AT EACH BLOCKING MEMBER BRACED-WALL-PANEL BRACED-WALL-PANEL ■ BRACED-WALL-PANEL __3-16d @ 16" O.C. _3-16d @ 16" O.C. _3-16d AT EACH BLOCKING MEMBER

PERPENDICULAR TO FLOOR/CEILING FRAMING

- ADDITIONAL FRAMING

- FULL HEIGHT BLOCKING

2-16d NAILS

EACH SIDE

OR END JOIST BLOCKING @ 16" O.C. FIGURE 23: BRACED-WALL-PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING

ADDITIONAL FRAMING

Wind Bracing

CONTINUOUS RIM

ROOF CONNECTION

Wind Bracing

At the roof eave, blocking between the rafter or truss framing is required at braced-wall-panel locations when dimension D, as shown in FIGURE 24, is greater than 9.25 inches. The blocking must be constructed in accordance with

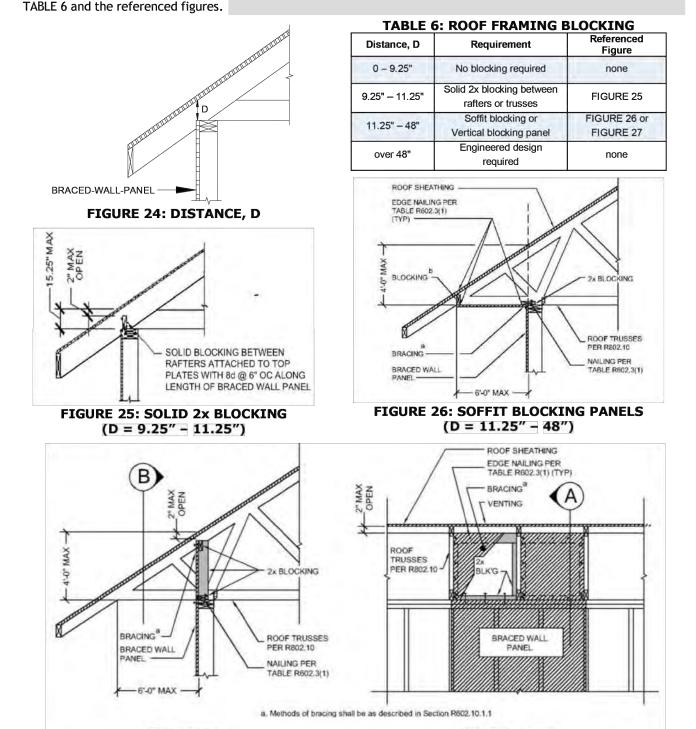


FIGURE 27: VERTICAL BLOCKING PANELS

(D = 11.25'' - 48'')

DATE

REMARKS

CONTRACTOR TO CHECK &

VERIFY ALL DIMENSIONS &

CONDITIONS IN FIELD PRIOR

TO START OF CONSTRUCTION

NOTIFY ARCHITECT OF ANY

DISCREPANCIES.

ALL INTERIOR WALL

DIMENSIONS

O BE 3 1/2" UNLESS NOTED

OTHERWISE.

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— ARCHITECTSLLC -

7361 CALHOUN PLACE

ROCKVILLE, MD 20855

T-(301) 881-6856

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WWW.CCLARCHITECTS.COM

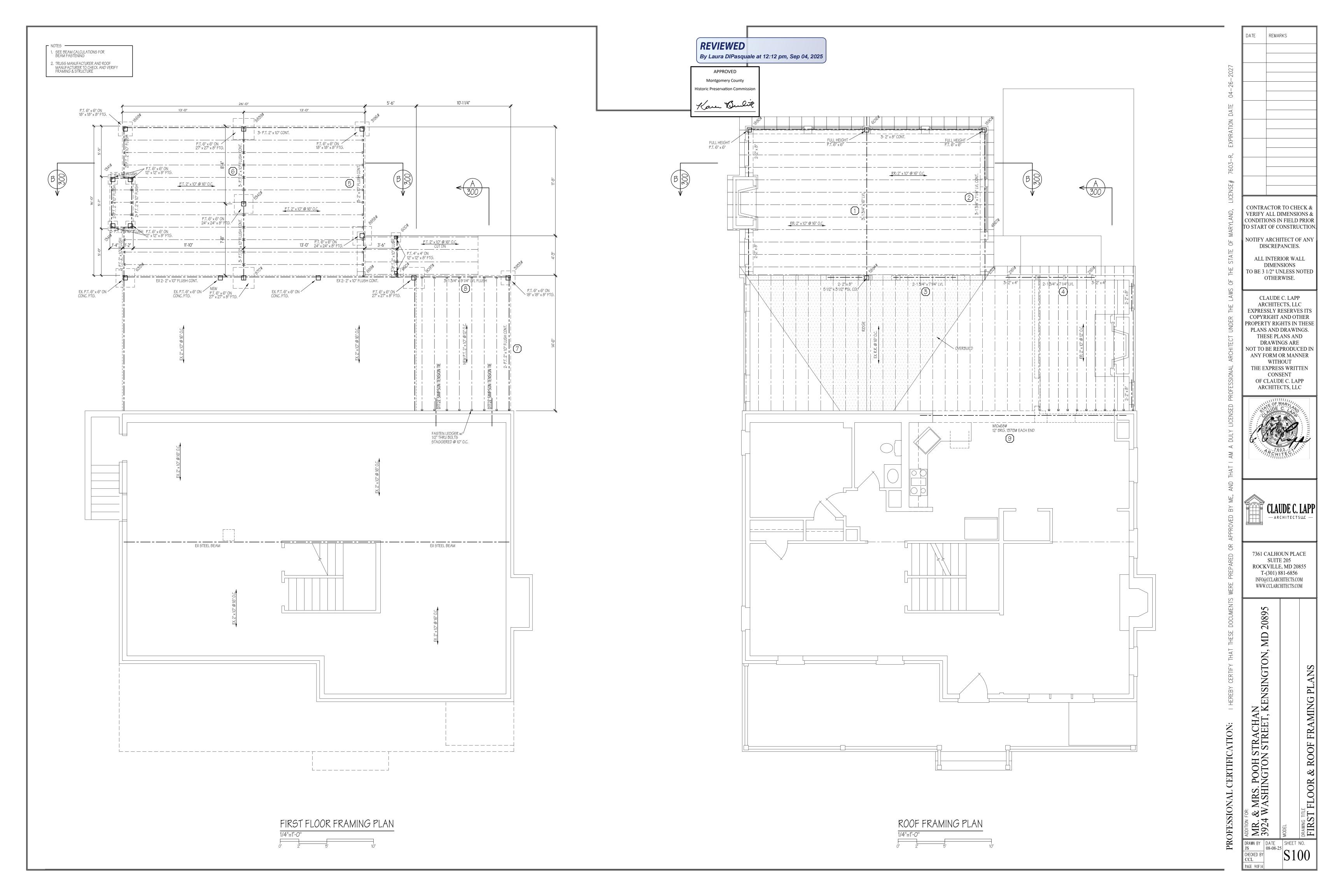
2089

 $\mathbf{Z}\mathbf{Y}$

MRS. POOH STRACHA ASHINGTON STREET,

MR. 3924 08-08-25

CHECKED BY





Client: Date: 6/18/2025 Page 1 of 2 Project: Input by: John Name: 301 Westerdam these Kennington, MD 20106 Project Pro	Client Date: 618/2025 Page 2 of 2 Input by: IsDesign Address: Job Name: 304 Membrage these description, MD 2005 Project # 1 onCENTER 2.1E LVL 1.750" X 16.000" 3-Pty - PASSED Level: ridge over screened porched	Client Date: 6/18/2025 Page 1 of 3 Input by: Job Name: 30% Weakington Street, Kennington, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, Kennington, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, Kennington, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, Kennington, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, Kennington, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, Kennington, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, NO 2000 Page 1 of 3 Input by: Job Name: 30% Weakington Street, No 20% Weakington Street, No 20% Weakington Street, No 20% Weakington	Client Date: 6/18/2025 Page 2 of 3 Project: Input by: Job Name: 3/14 Vendergien Revic Kennington, MD 2020/C Project #: Project #: Project #: Project #: Project #: Level: over screened porch	Client: Date: 6/18/2025 Page 3 of 3 Project: Input by: Job Name: 3/04 Venderglan Reset, Kendington, MD 20056 Project #: 2 onCENTER 2.1E LVL 1.750" X 7.250" 3-Ply - PASSED Level: over screened porch	Client Date: 6/18/2025 Page 1 of 2 Input by: Job Name: 304 Wandwigton Street, Kennington, MD 2005 Project: Job Name: 304 Wandwigton Street, Kennington, MD 2005 Project #: Date	
11 LSL 0-3-8 2 SPF 0-5-8 5 114* 16-3* Member Information Reactions UNPATTERNED Ib (Uplift)	1 LSL 0-3-8 2 SPF 0-5-8 5 1/4* Multi-Pty Analysis	1 SPF 0-3-8 2 SP 0-3-8 1183° Member Information Reactions UNPATTERNED Ib (Uplift)	1 SPF 0-3-8 2 SP 0-5-8 5 1/4" 1 SPF 0-3-8 2 SP 0-5-8 5 1/4" 16'3" 1D Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments	1 SPF 0-3-8 2 SP 0-5-8 3 SPF 0-3-8 5 1/4" 1 SPF 0-3-8 1/6-3" Multi-Ply Analysis	1 SPF 0-3-8 2 SPF 0-3-8 7 Member Information Reactions UNPATTERNED Ib (Uplift)	
Type: Gittler	Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c Nail from both sides. Maximum end distance not to exceed 6". Capacity Load 0.0 PLF Yield Limit per Foot 27.18 PLF Yield Limit per Fastener 90.5 b. Civ. 1 Yield Mode 17	Type: Girder Application: Floor Design Method: ASD 1 Vertical 0 (14) 0 (-22) 0 0 0	1 Uniform Top 140 PLF 0 PLF 0 PLF 0 PLF roof Salf Weight 11 PLF	Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Nail from both sides. Maximum end distance not to exceed 6". Gapacity Load U.D.P.E Yield Limit per Foot 181.1 FLE Yield Limit per Foot 90.5 lb. Co. 1 Yield Mode IV Edge Distance 1 112" Min. End Distance 3" Load Combination Duration Fector 1.00	Type: Girder	
LL Dell inch 0.179 (J/1051) 8°916° 0.782 (J/240) 49% S L TD. Dell inch 0.292 (Je454) 8°916° 0.782 (J/240) 37% D+S L Design Notes 1 Provide support to prevent lateral movement and rotation at the end bearings. 2 Featinn all less using 3 rows of 104 Box nails (1;285/2) at 12° o.c. Maximum and distance not to exceed 6°. Nail from both sides. 3 Refer to last general or classical strong for specified loads. 4 Grown as the single apportune graph by a plane. 5 Refer to last provide support segregably by a plane. 6 To provide the less than strong and sportune graph by a plane. 7 For the size of the strong by the strong and strong shark provided strong bearing the strong and strong shark provided strong by a plane. 7 For the strong by the strong and strong of the strong by the strong and strong shark provided strong bearing by the strong and strong shark provided strong shark provided strong		Unbranced 4128 R-b 115 1/4" 5937 R-b 89% D-S L Shear 2305 ib 57" 8317 b 29% D+S LL LD elf inch 0.156 (L/857) 10"10 7/16" 0.292 (L/480) 55% S _L TL Delf inch 0.252 (L/58) 10"10 1/2" 0.584 (L/240) 45% D-S _L Design Notes 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may situde be required at the interior bearings by the building code. 2 Fastlan all piles using 2 rows of 106 Box nalls (12803) at 12" o.c. Maximum and distance not to exceed 6". Nall from ball sides. 3 Reter to last page of calculations for fastlance are queried for specified loads. 4 Gretar are designed to be supported in bottom edge only and scores brief full width. 5 Top loads must be supported equally by all piles. 1 Bedom connection required at bearing 1 for uptill 324 b (Combination D+S, Load Case 7 Top must be laterally baccad at end bearings. 8 Bottom must be laterally baccad at end bearings. 9 Lateral slendemess ratio based on single ply width.			LL Defl inch 0.055 (L/1425) 3°S 0.154 (L/480) 3% S L TL Defl inch 0.059 (L/887) 3°S 0.327 (L/240) 27% D+S L Design Notes	
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Client: Date: 6/18/2025 Page 2 of 2	Client: Date: 6/18/2025 Page 1 of 2 Project Input by: Job Name: 30x Vendergen: Stock Address: Project #: 4 onCENTER 2.1E LVL 1.750" X 7.250" 2-Ply - PASSED Levet: over great room window	Client: Date: 6/18/2025 Page 2 of 2	Client Project Proje	Client: Date: 6/18/2025 Page 2 of 3	Client Date: 6/18/2025 Page 3 of 3	
1 spr 0.3.8 2 spr 0.3.8 2 spr 0.3.8 Multi-Ply Analysis	1 SPF 0.4-8 2 SPF 0.4-8 2 SPF 0.4-8 Wember Information Reactions UNPATTERNED Ib (Uplift)	1 SPF 0.4-8 2 SPF 0.4-8 3 1/Z* Multi-Pty Analysis	1 Hanger (HGUS210-3) 0-4-0 2 SP 0-5-8 4 1/2" 4 1/3" 119" 16" Member Information Reactions UNPATTERNED Ib (Uplift)	1 Hanger (HGUS210-3) 0-4-0 2 SP 0-5-8 3 SP 0-5-8 4 1/2" 4/3' 119" 16' ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments	1 Hanger (HGUS210-3) 0-4-0 2 SP 0-5-8 3 SP 0-5-8 4 1/2" Multi-Ply Analysis	
Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Capacity 0.0% Load 0.0 PLF Yield Limf per Foot 181.1 PLF Yield Limf per Foot 195. b. Cox 1 Yield Limf per Foot 197. The Per Foot 197. Th	Type: Girder	Faster all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 191.1 PLF Yield Limit per Fasterer 90.5 tb. Co. 1 Yield Rode 11.22* Min End Distance 3" Load Combination 0.0 Unition Factor 1.00	Type: Girder	1 Uniform Top 85 PLF 280 PLF 0 PLF 0 PLF floor & well Soft Weight 16 PLF	Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Nail from both sides. Maximum end distance not to exceed 6". Capacidy 0.0 % Load 0.0 PLF Yield Limit per Foot 202.6 PLF Yield Limit per Fastener 101.3 b. C/A 1 Yield Mode IV Edge Distance 11/12" Min End Distance 3" Load Combination Duration Factor 1.00	
Notice Notice	Notes No	Notes Notes Control Disposit improvision by the following in improvision by the following in providing the providing following in providing the following in improvision by the following in th	Manufacturer Info	Manufacturer Info	Manufacturer Info Classic C Lag, Archivets, LLC 1560 Calboard Dire, Suize S60, MD USA	
Client: Date: 8/18/2025 Page 1 of 2	Client Date: 6/18/2025 Page 2 of 2	Client: Date: 6/18/2025 Page 1 of 2 Project: Input by: Job Name: 304 Westington Street, Konsangton, MD 2005 Project #1 7 SP #2 2.000" X 10.000" 3-Ply - PASSED	Client Date: 6/18/2025 Page 2 of 2	Client: Date: 6/18/2025 Page 1 of 2 Project: Input by: Job Name: 304 Westington Street, Kennington, MD 20095 Project #: 8 onCENTER 2.1E LVL 1.750" X 9.250" 3-Ply - PASSED Level: under great room	Client Date: 6/18/2025 Page 2 of 2 Project: Input by: Job Name: 304 Meshingtin Street, Kneingfart, MD 2005 Project #: 8 onCENTER 2.1E LVL 1.750" X 9.250" 3-Ply - PASSED Level: under great room	Beam Calculations Data Input
1 SP 0-5-8 2 SP 0-2-12 4 1/2"	1 SP 0-5-8 2 SP 0-2-12 4 1/2"	1 SPF 0-3-8 2 SP 0-5-8 4 1/2"	1 SPF 0.3-8 2 SP 0.5-8 4 1/2"	1 SP 0-5-8 2 SP 0-5-8 5 1/4"	108°	Required Information Weight Length E I Fb M Delta
Member Information	Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Nail from both sides. Maximum end distance not to exceed 6". Capsacly Losed United the per Foot 10.3 b. Co. 1 Yield Limit per Fastener 101.3 b. Co. Yield Model V Edge Distance 11/2" Min. Eric Distance 3" Losed Combination Dureston Factor 1.00	Member Information	Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Nail from both sides. Maximum end distance not to exceed 6". Capecity 0.0 % Load 0.0 PLF Vield Limit per Fect 202.6 PLF Vield Limit per Festener 101.3 lb. Ca. 1 Vield Mode IV Edge Distance 11.2" Min. End Distance 3" Load Combination Duration Factor 1.00	Member Information	Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Nail from both sides. Maximum end distance not to exceed 6". Capacity Load 0.0 PLF Yield Limit per Foot 181.1 PLF Yield Limit per Featner 90.5 b. Cox 1 Yield Mode IV Edge Distance 11/2" Min. End Distance 3" Load Combination Duration Factor 1.00	Concentrated at center P2
B Literal selendemess ratio based on single by width. ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.8 Const. 1.25 Comments 1 Uniform Top 130 PLF 520 PLF 0 PLF 0 PLF 0 PLF floor Self Weight 16 PLF Manufacturer Info Clause C Lago, Archherts, LIC 1000 Clause Deve, Sale 250, MD 150.	Manufacturer Info Clasch C Lings, Architects, LLC 1500 Callesco Divers, Suite 350, MD Uses.	B Lateral siendemess ratio based on single ply width. ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform Top 100 PLF 0 PLF 0 PLF 0 PLF wall Self Weight 18 PLF Missurfacturer Info Class C Lags, Architects, LLC L500 Calcas D lags, Subs Subs, LLC L500 Calcas D lags, Subs,	Manufacturer Info Cloude C Long, Architech, LLG US60 Calman Drive, State 500, MD US60 US60	8 Lateral slendomens ratio based on single ply width. ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform Top 173 PLF 290 PLF 480 PLF 0 PLF 0 PLF roof, floor, & wall Self Weight 14 PLF Notice Notice of Const. 1.25 Comments 1 Uniform Top 173 PLF 290 PLF 480 PLF 0 PLF 0 PLF roof, floor, & wall 14 PLF Notice Of Const. 1.25 Comments 1 Uniform Top 173 PLF 290 PLF 480 PLF 0 PLF 0 PLF roof, floor, & wall Self Weight 15 PLF roof, floor, & wall Notice Of Const. 1.25 Comments 1 Uniform Top 173 PLF 290 PLF 480 PLF 0 PLF 0 PLF roof, floor, & wall Self Weight 14 PLF 15 PLF roof, floor, & wall 15 PLF 15 PLF roof, floor, & wall 15 PLF roof, & wall 15 PLF roof, floor, & wall 15 PLF roof, & wall 15 PLF roof, floor, & wall 15 PLF roof, & wall 15 PLF roof, & wall 15 PLF roof, floor, & wall 15 PLF roof	Notice Advance: Advance:	Shear Steel only
### Open This design is valid until 2/28/2028 Wesion 25.28.1080 Powered by Ritust™ Dataset 24110201.1 CSD	17ths dissign is valid until 2739/2028	This design is valid until 2/28/2008	Version 25.20.1090 Powered by Stituct*** Delaset 24110291.1 CSD ####	Acting other and subrey down. In a to a control of the control of	design chair and budgen shows it is the do the membershow maked elements of compared underly of the maked elements of compared underly of the maked elements of compared underly of the maked elements	Claude C. Lapp Page 1 7/24/2025

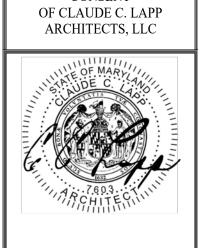
DATE REMARKS CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS &

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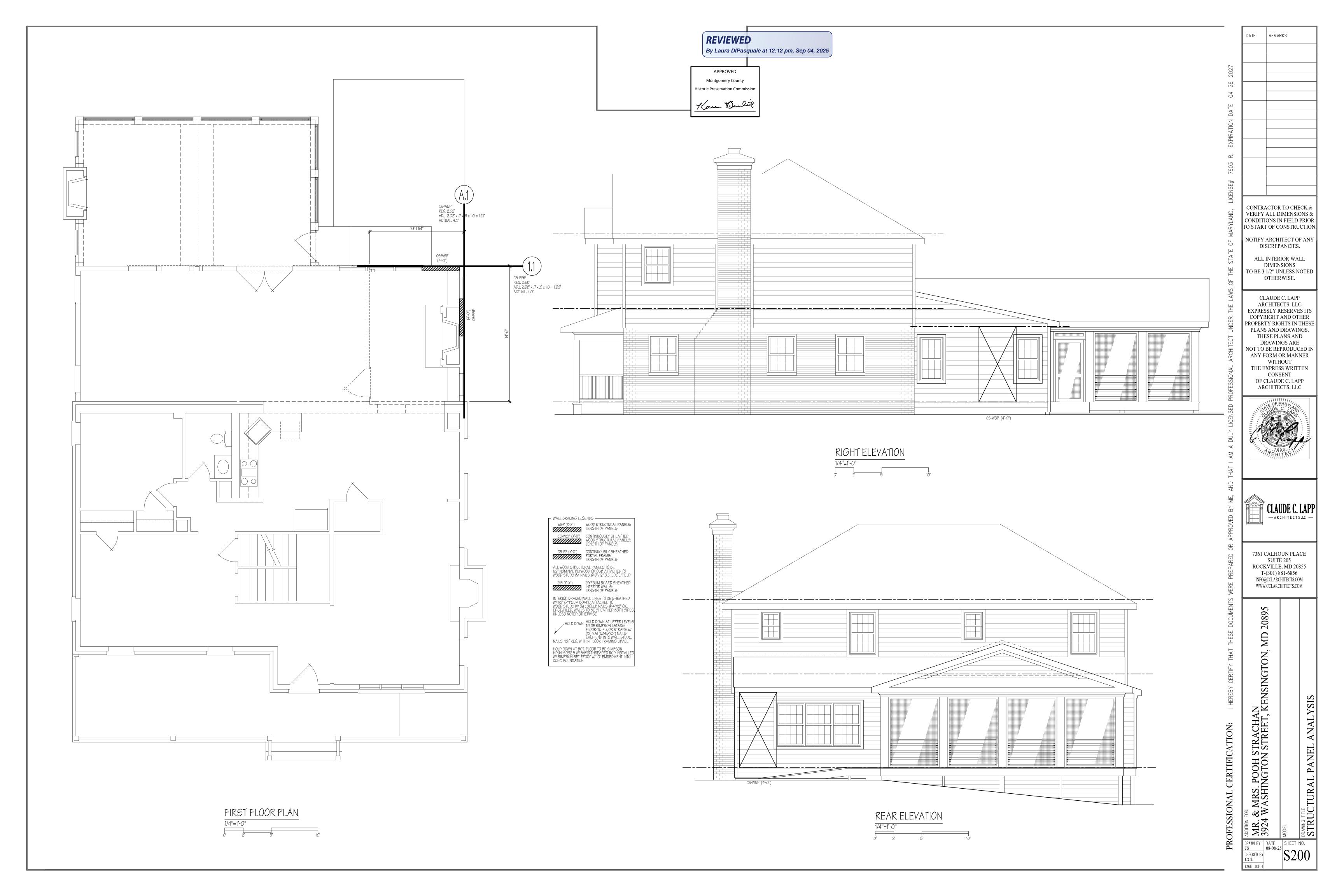
7361 CALHOUN PLACE SUITE 205 ROCKVILLE, MD 20855 T-(301) 881-6856 INFO@CCLARCHITECTS.COM WWW.CCLARCHITECTS.COM

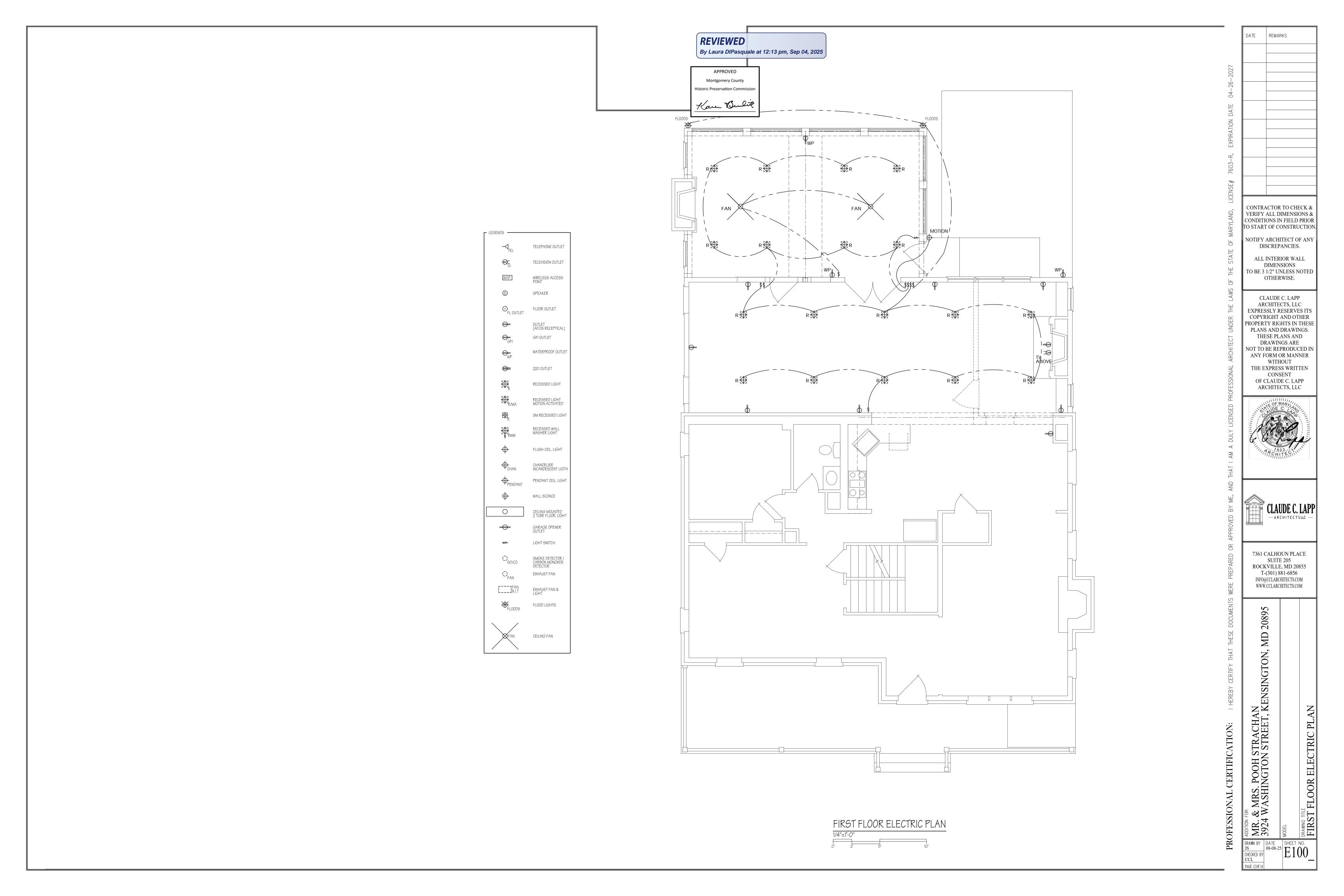
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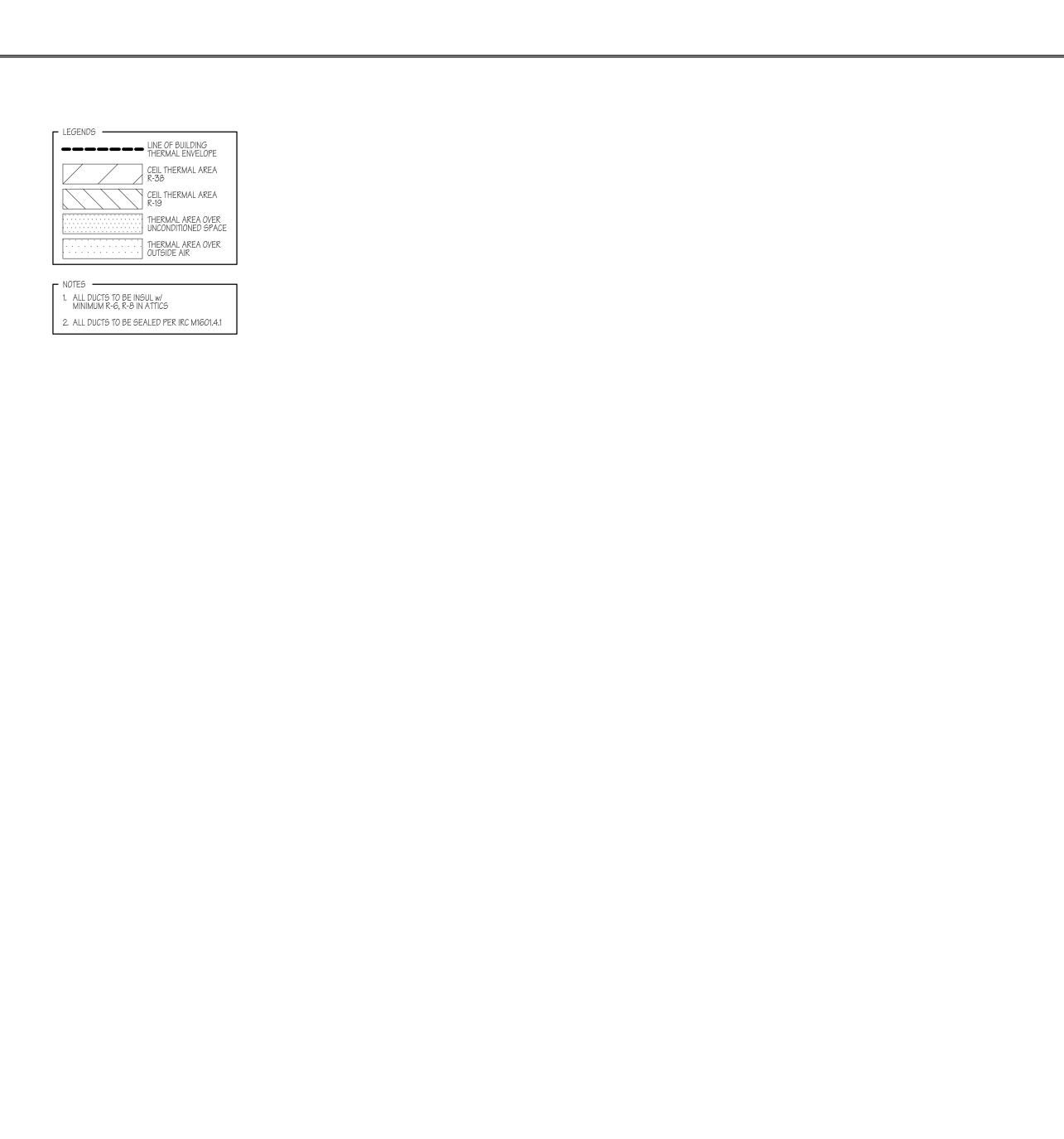
MR. & MRS. POOH STRACHAN

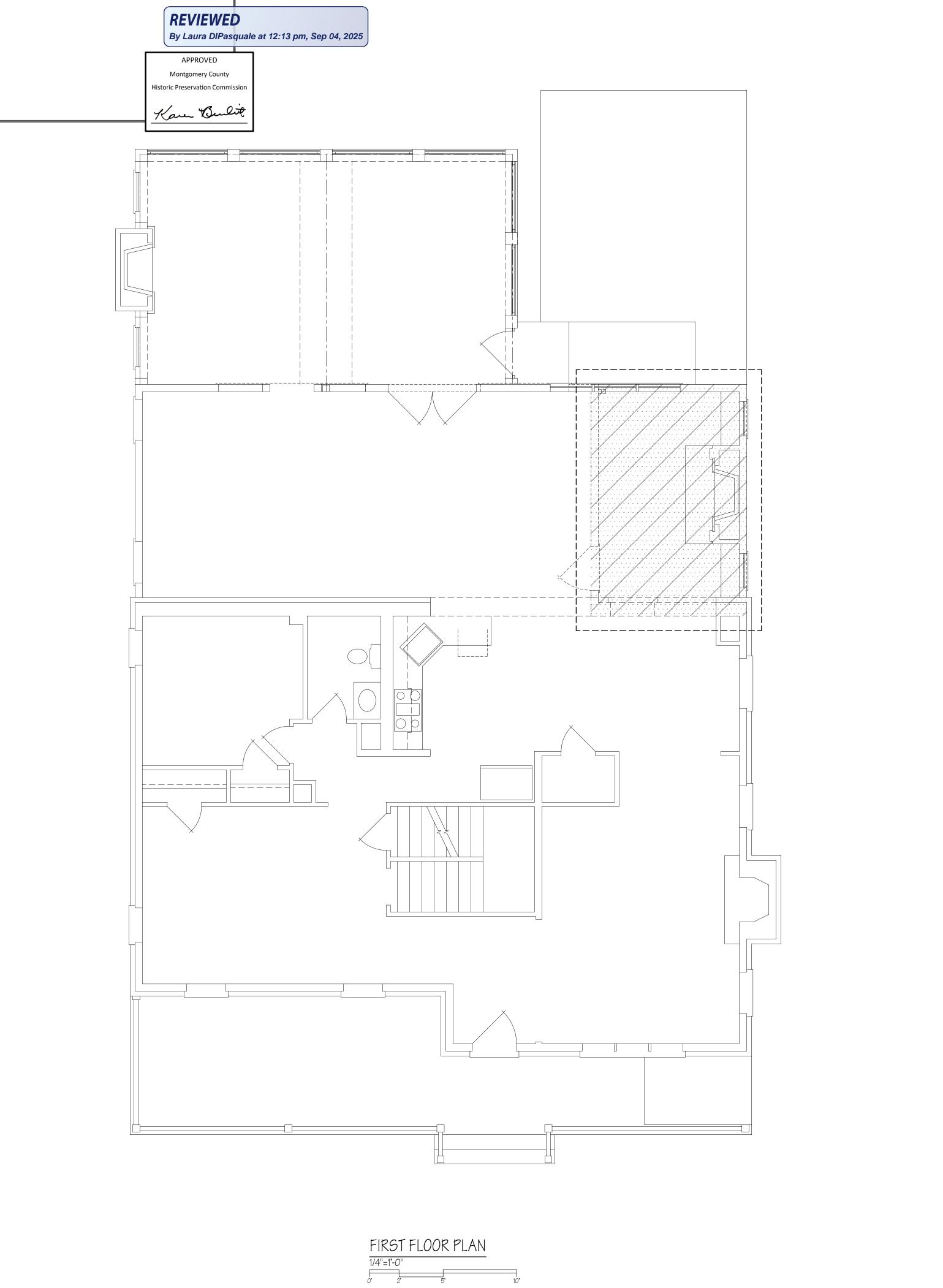
3924 WASHINGTON STREET, KENSINGTON, MD 20895

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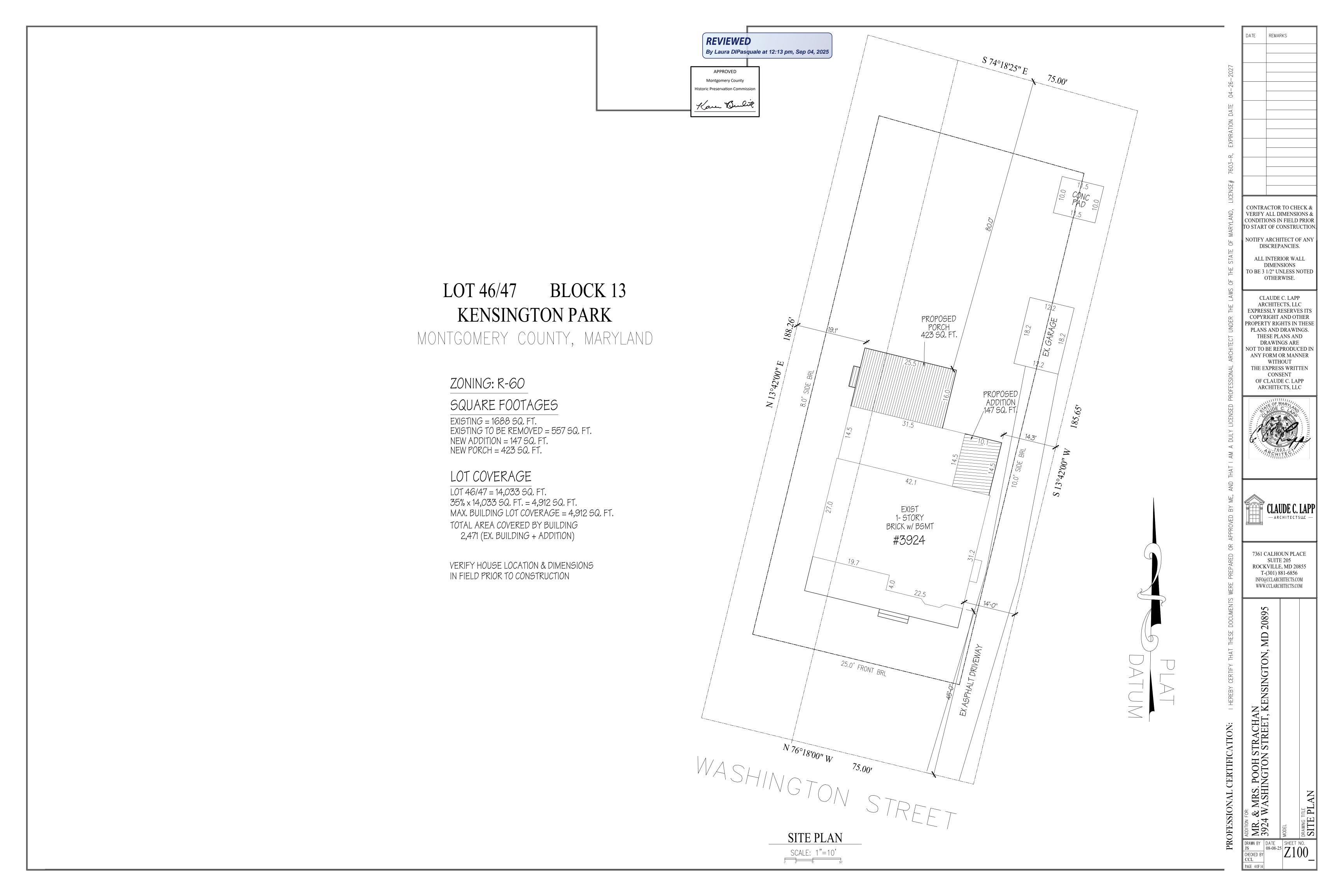


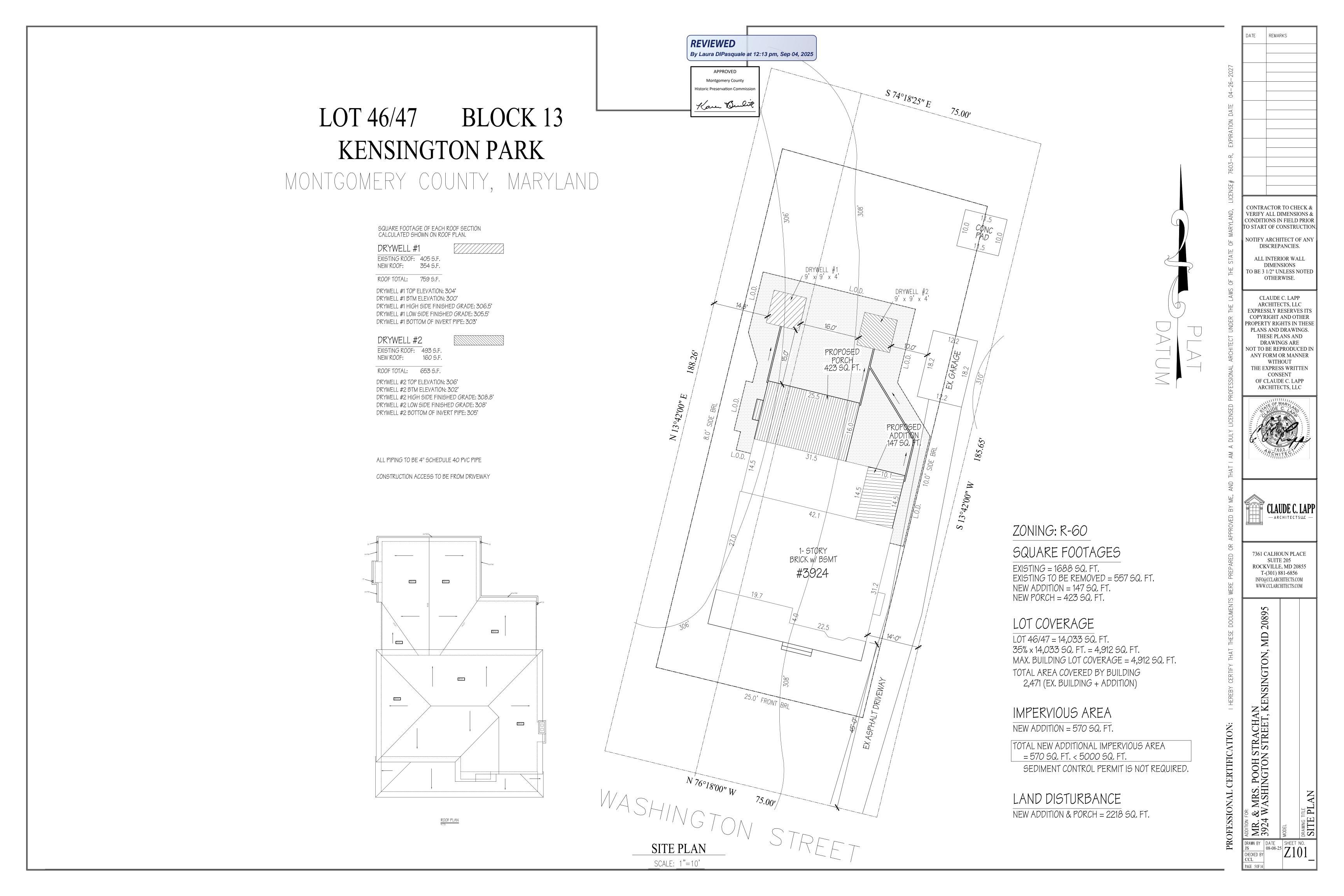
7361 CALHOUN PLACE SUITE 205 ROCKVILLE, MD 20855 T-(301) 881-6856 INFO@CCLARCHITECTS.COM WWW.CCLARCHITECTS.COM

ADDITION FOR:

| Columbia | Colum

PROFESSIONAL CERTIFICATION:









Benefits:

- LayerLock® technology mechanically fuses the common bond between overlapping shingle layers
- Up to 99.9% nailing accuracy the StrikeZone® nailing area is so easy to hit that a roofer placed 999 out of 1,000 nails correctly in our test¹
- WindProven[™] Limited Wind Warranty — when installed with the required combination of GAF accessories, Timberline HDZ[®] shingles are eligible for a wind warranty with no maximum wind speed limitation²
- Dura Grip[™] sealant pairs with the microgranule surface of the StrikeZone[®] nailing area, and an asphalt-to-asphalt monolithic bond cures for durability, strength, and exceptional wind-uplift performance
- 25-year StainGuard Plus[™] Algae Protection Limited Warranty against blue-green algae discoloration.³ Proprietary GAF time-release algaefighting technology helps protect your shingles from unsightly stains.
- For the best look use TimberTex®
 premium ridge cap shingles or
 TimberCrest® premium SBS-modified
 ridge cap shingles

Product details:

Product/System Specifics

- Fiberglass asphalt construction
- **Dimensions (approx.):** 13 1/4" x 39 3/8" (337 mm x 1,000 mm)
- **Exposure:** 5 5/8" (143 mm)
- Bundles/Square: 3
- Pieces/Square: 64
- StainGuard Plus™ Algae Protection Limited Warranty³
- Hip/Ridge: TimberTex®; TimberCrest®;
 Seal-A-Ridge®; Z®Ridge; Ridglass®4
- Starter: Pro-Start®; QuickStart®; WeatherBlocker™

Applicable Standards & Protocols:

- Passes UL 2218 Impact-Resistance Test with Class 3 rating
- UL Listed to ANSI/UL 790 Class A
- State of Florida Approved
- Classified by UL in accordance with ICC-ES AC438
- Meets ASTM D7158, Class H
- Meets ASTM D3161, Class F
- Meets ASTM D3018 Type 1
- Meets ASTM D3462⁵
- Miami-Dade County Product Control Approved
- ICC-ES Evaluation Reports ESR-1475 and ESR-3267
- Meets Texas Department of Insurance Requirements
- Rated by the CRRC; Can be used to comply with Title 24 Cool Roof Requirements (some colors)

Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence for eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime shingles only. See the GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime coverage on a shingles and accessories requires the use of only GAF Lifetime coverage and teast 3 qualifying GAF accessories. See the GAF Roofing System Limited Warranty for complete coverage and restrictions. For installations not eligible for the GAF Roofing System Limited Warranty, visit gaf.com/LRS for qualifying GAF products.

Results based on study conducted by Home Innovation Research Labs, an independent research lab, comparing installation of Timberline HD® Shingles to

leck using standard 4-nail nailing Actual results may vary.

GAF shingles with LayerLock®, roof deck protection, illation. See GAF Roofing System trictions. Visit gaf.com/LRS for gible for the GAF WindProven™ ory Limited Warranty. ted Warranty against blue-green s sold in packages bearing the ssory Limited Warranty for complete

erTex® Ridge Cap Shingles, Crest® Premium SBS-Modified

labs to ensure compliance

Colors:



REVIEWED

By Laura DIPasquale at 12:13 pm, Sep 04, 2025 amsburg

Harvest Blend Colors⁵



APPROVED

Montgomery County

Historic Preservation Commission

Karen Buli











Hardie® Plank Lap Siding

Submittal Form

01

Submitted to:	☐ HZ5® Product Zone ☐ HZ10® Product Zone
Project Name:	Product Width: ☐ 5-1/4in ☐ 6-1/4in ☐ 7-1/4in ☐ 8in ☐ 8-1/4in ☐ 9-1/4in ☐ 12in
Submitted by:	Product Finish: Primed ColorPlus® Technology
Date:	Product Texture: ☐ Smooth ☐ Select Cedarmill® ☐ Colonial Roughsawn® ☐ Colonial Smooth® ☐ Rustic Cedar

Hardie® Plank Lap Siding

Specification Sheet

01

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION

SECTION: 07 46 46 FIBER CEMENT SIDING

HARDIE® PLANK LAP SIDING

Manufacturer

James Hardie Building Products, Inc.

The products are manufactured at the following locations, with quality control inspections by ICC-ES:

- Cleburne, Texas
- Plant City, Florida
- Reno, Nevada
- Waxahachie, Texas
- Prattville, Alabama
- Peru, Illinois
- · Pulaski, Virginia
- Tacoma, Washington
- Fontana, California
- · Summerville, South Carolina

Compliance with the following codes

- 2006 thru 2021 International Building Code (IBC)
- 2006 thru 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to ICC-ES ESR-2290

Features

Noncombustible

Weather Resistant-Engineered for Climate[®]

REVIEWED

Impact resistant

By Laura DIPasquale at 12:13 pm, Sep 04, 2025

Hardie liber-cement lap siding is used as exterior wall covering

The product complies with IBC Section 1403.9 and IRC Section R703.10. The product may be used on exterior walls of buildings of Type I, II, III and IV construction (IBC)

Description

Hardie® Plank lap siding is a single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie® Plank lap siding complies with ASTM C1186, as Grade II, Type A; has a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and is classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

5-1/4, 6-1/4,	12 feet	5/16
7-1/4, 8, 8-1/4,		
9-1/4, 12		
	7-1/4, 8, 8-1/4,	7-1/4, 8, 8-1/4,

* HZ5: 9-1/4, 12 only available primed HZ10: 5-1/4, 9-1/4, 12 only available primed.

Weight2.31 lbs. per square foot

Texture & Finish

Hardie® Plank lap siding comes in a variety of textures and finishes. The product is available in smooth or wood grain texture. Additional textures are available on a regional basis. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

APPROVED

specific weather map.

Montgomery County

Historic Preservation Commission

Karen Bulit



SPECIFICATION SHEET 01 FEBRUARY 2024

Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result		
			Length	± 0.5% or ± 1/4 in			
	Length ± 0.5% or ± 1/4 in width ± 0.5% or ± 1/4 in Thickness ± 0.04 in Thickness ± 0.04 in Thickness ± 0.04 in Opposite sheet sides shall neight by more than 1/32 in/ft of Opposite sheet sides shall neight by more t	± 0.5% or ± 1/4 in					
ËS			Thickness	gth ± 0.5% or ± 1/4 in ± 0.5% or ± 1/4 in ± 0.5% or ± 1/4 in ± 0.04 in Deposite sheet sides shall not vary in length by more than 1/32 in/ft ≤ 1/32 in/ft of length As reported As reported As reported As reported As reported Fisical Observations Conditioned, psi DI/ K _{eff} As reported As reported As reported As reported As reported As reported Sical Observations No drop formation 1/ K _{eff} As reported As reported As reported As reported Sical Observations No visible cracks or structural alteration Sical Observations No cracking, checking, or crazing The Spread Index (FSI) Toke Developed Index (SDI) It Contributed PA Class Form Building Code Class The Combustible Pass/fail			
Density, lb/ft³ Water Absorption, % by mass Water Tightness Flexural Strength Thermal Conductivity Actual Thermal Conductivity Thermal Resistance Actual Thermal Resistance Warm Water Resistance Heat/Rain Resistance UV Accelerated Weathering T Surface Burning Characteristic Noncombustibility	Dimensional Tolerances	Tolerances ASTM C1185 Squareness Δ in diagonals \leq 1/3 Opposite sheet side		11	Pass		
			Edge Straightness	≤ 1/32 in/ft of length			
S	Density, lb/ft ³	ASTM C1185		As reported	83		
ΥSI	Water Absorption, % by mass	ASTM C1185		As reported	36		
풉	Water Tightness	ASTM C1185		No drop formation	Pass		
	Elevural Strength	ΔSTM C1185	Wet conditioned, psi	>1015 psi	Pass		
	riexarar otrongtri		Equilibrium conditioned, psi	>1450 psi	1 433		
ᆛ	Thermal Conductivity				2.07		
Ž.	Actual Thermal Conductivity	ASTM C177	(K_{eff})	As reported	6.62		
单	Thermal Resistance	ASTRICTI	$R=1/K_{eff}$	As reported	0.48		
F	Actual Thermal Resistance		(R)		0.15		
	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass		
≟	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass		
H			Physical Observations	No visible cracks or structural alteration			
₽¥	Freeze/Thaw Resistance	ASTM C1185	Mass Loss, %	≤ 3.0%	Pass		
8			Freeze/Thaw, % strength retention	≥ 80%			
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass		
			Flame Spread Index (FSI)		0		
<u>S</u>	Surface Burning Characteristics	Length ± 0.5% or ± 1/4 in Width ± 0.5% or ± 1/4 in thickness ± 0.04 in Thickness ± 0.04 in A in diagonals ≤ 1/32 in/ft of sheet len Opposite sheet sides shall not vary in length by more than 1/32 in/ft for sheet len Opposite sheet sides shall not vary in length by more than 1/32 in/ft for sheet len Opposite sheet sides shall not vary in length by more than 1/32 in/ft for sheet length by more than 1/32 in/ft of sheet length by in		≤ 5			
IST				Fuel Contributed			
끭			NFPA Class		Α		
≣ 5			Uniform Building Code Class	As reported	1		
AR/			International Building Code® class		Α		
Ŗ,	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass		
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1		

Note 1: listed on Warnock Hersey and ESR 2290

Installation

Install Hardie® Plank lap siding in accordance with:

- Hardie® Plank lap siding installation instructions
- ICC-ES ESR 2290
- Requirements of authorities having jursidiction

Warranty

Hardie® Plank lap siding: 30-year, Non-Prorated, Limited Warranty ColorPlus® Technology: 15-year Limited Finish Warranty

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Sustainable Design Contribution

- Regionally sourced content- varies by project location
- Avoidance of certain chemicals or Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical

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mesHardie.com,

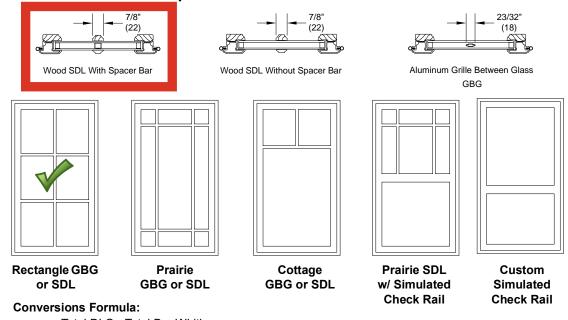
02/24 PAGE 2 OF 2

IMPORTANT: Failure to install and finish this product in accordance with applicable building codes and James Hardle written application instructions may affect system performance, violate local building codes, void the product-only warranty and lead to personal injury. DESIGN ADVICE: Any information or assistance provided by James Hardle in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardle will not be responsible in connection with any such information or assistance.





Section Details: Divided Lite Options



Num

Total DLO - Total Bar Width
Number of lites

Number of lites

NOTES:

- Direct Glaze Round Top with GBG or SDL will only align with the default lite cut of the unit it is intended to be mulled with.
- Rectangle GBGs for special size units will default to the next smaller standard size lite pattern. Also available will be Prairie patterns, Cottage patterns, and customer specified equal rectangular lite patterns.
- Rectangular SDL for special size units will default to the next smaller standard size lite pattern. Also available will be Prairie patterns, Cottage patterns, and customer specified equal rectangular lite patterns.
- Prairie GBG and SDL available in 9 lite and 6 lite top, bottom, left, and right patterns.
- Cottage GBGs and SDL for special sizes units will default to the next smaller standard size lite pattern. Cottage GBGs and SDL are also available in customer selected lite patterns.
- Round Top lite patterns will not align with Casement/Awning optional GBG or SDL lite patterns.
- Maximum number of lites wide and high for equal lite SDL option is 11 lites.
- Minimum DLO measurement for equal lite SDL option is 4" (102) and will be validated by OMS.
- Minimum DLO measurement for equal lite GBG option is 3" (76) and will be validated by OMS.
- Standard DLO measurement for Prairie GBG and SDL options is 4" (102). Special DLO corners are n/a.
- Standard DLO height measurement for Cottage SDL option is 10" (254). Minimum DLO height is 8" (203) for one high pattern. Minimum DLO height is 4" (102) for two high pattern.
- Standard DLO height measurement for Cottage GBG option is 10" (254). Minimum DLO height is 3" (76) for both one and two high patterns.
- Simulated Rail: Rectangular, Prairie 6-Lite and 9-Lite SDL pa
- Simulated Rail: Custom ratio and specified DLO are available

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Available Divided Lite Patterns

Default Rectangular Lite Pattern per Sash - GBG, SDL

Standard					Standard	CN Width				
CN Height	17	21	25	29	33	37	41	49	57	73
16 ELDG										6W1H
16	2W1H	2W1H	2W1H	3W1H	3W1H	3W1H	4W1H	4W1H	5W1H	7W1H
19	1W2H	2W2H	2W2H	3W2H	3W2H	3W2H	4W2H	4W2H	5W2H	7W2H
23	1 V2H	2W2H	2W2H	3W2H	3W2H	3W2H	4W2H	4W2H	5W2H	7W2H
27	1W2H	2W2H	2W2H	3W2H	3W2H	3W2H	4W2H	4W2H	5W2H	7W2H
31	1W2H	2W2H	2W2H	3W2H	3W2H	3W2H	4W2H	4W2H	5W2H	7W2H
35	1W2H	2W2H	2W2H	3W2H	3W2H	3W2H	4W2H	4W2H	5W2H	7W2H
39	1W3H	2W3H	2W3H	3W3H	3W3H	3W3H	4W3H	4W3H	5W3H	7W3H
43	1W3H	2W3H	2W3H	3W3H	3W3H	3W3H	4W3H	4W3H	5W3H	7W3H
47	1W3H	2W3H	2W3H	3W3H	3W3H	3W3H	4W3H	4W3H	5W3H	7W3H
55	1W4H	2W4H	2W4H	3W4H	3W4H	3W4H	4W4H	4W4H	5W4H	7W4H
59	1W4H	2W4H	2W4H	3W4H	3W4H	3W4H	4W4H	4W4H	5W4H	7W4H
63	1W5H	2W5H	2W5H	3W5H	3W5H	3W5H	4W5H	4W5H	5W5H	
71	1W5H	2W5H	2W5H	3W5H	3W5H	3W5H	4W5H	4W5H	5W5H	

Optional Standard Cottage Lite Pattern per Sash - GBG, SDL

Standard		Standard CN Width								
CN Height	17	21	25	29	33	37	41	49	57	73
All Heights	2-Lite	3-Lite	3-Lite	4-Lite	4-Lite	4-Lite	5-Lite	5-Lite	6-Lite	8-Lite

NOTE: Prairie lite pattern is not available in the CN19 height transoms.

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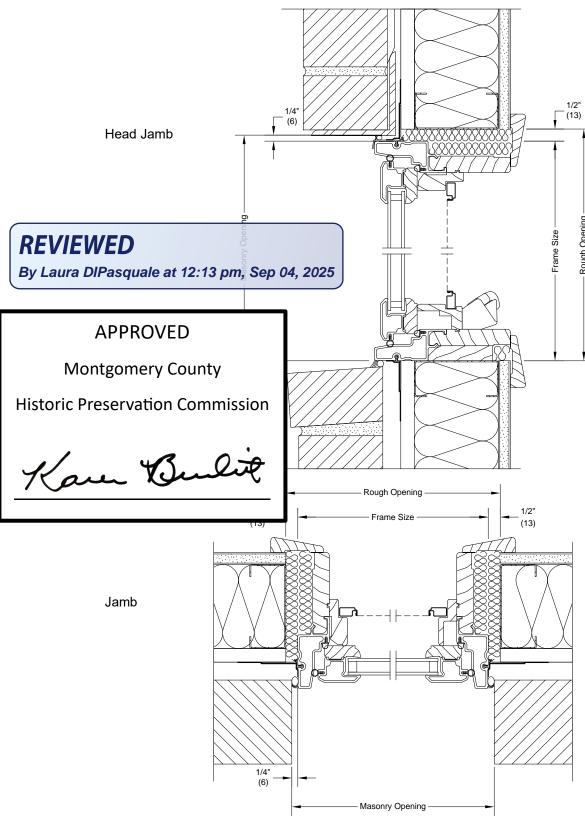
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Section Details: Installation Suggestion - Brick Veneer With Steel Frame Construction

Scale: 1 1/2" - 1' 0"

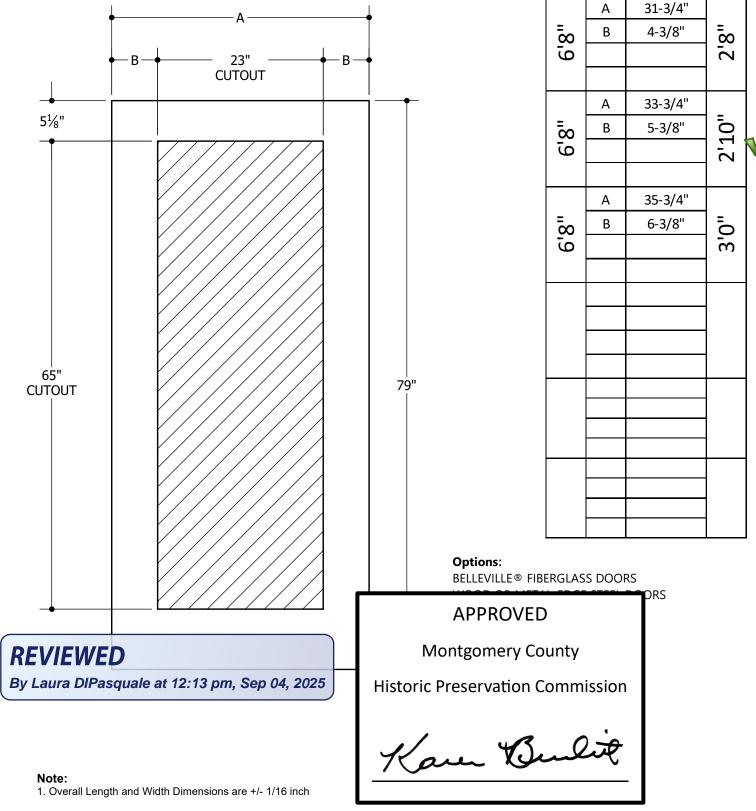


NOTES:

- Picture unit installation similar.
- The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.



122 SERIES (22" X 64" GLASS INSERT SIZE) 1 OF 2 MASONITE $^{\text{TM}}$ SPEC*



^{*}Available as Prem Spec

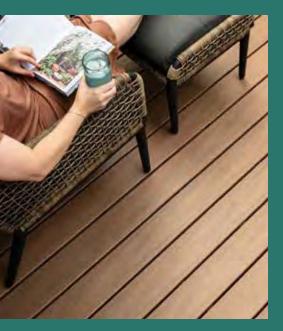
Filename: TM-GL-122-68 001 Revision: A

Revision: A
Date: 01-24-2017
Section XX XX.X.X



Decking

Stylish composite decking outperforms wood for hassle-free outdoor living





Highly Durable

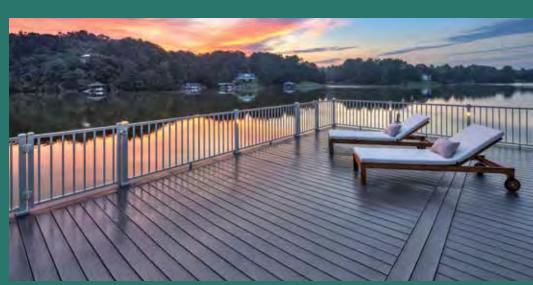
Composite deck boards that stand up to both weather and weekend mishaps alike—they won't rot, warp, splinter, fade or stain.





Easy Care & Cleanup

Our boards need no sanding or staining. No kidding. Easy soap & water cleanup keeps decking like new.







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p to 95% recycled

Deck colors with this symbol are engineered with heat-

mitigating technology to be noticeably cooler than similar colored boards in the same sun and heat conditions.*



Railing

Metal and composite collections make it easy to find your style and frame your view



More Material Options

From traditional composites to sleek metal offerings, our wide selection of safe and stylish railing options offers more choices for your build.



Elevated Style

With cable, mesh, glass and baluster infill options, you can achieve a look that suits your style and is a fashionable alternative to standard wood or vinyl railir

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Karen Buli

Decking

ne outstanding decking-your railing

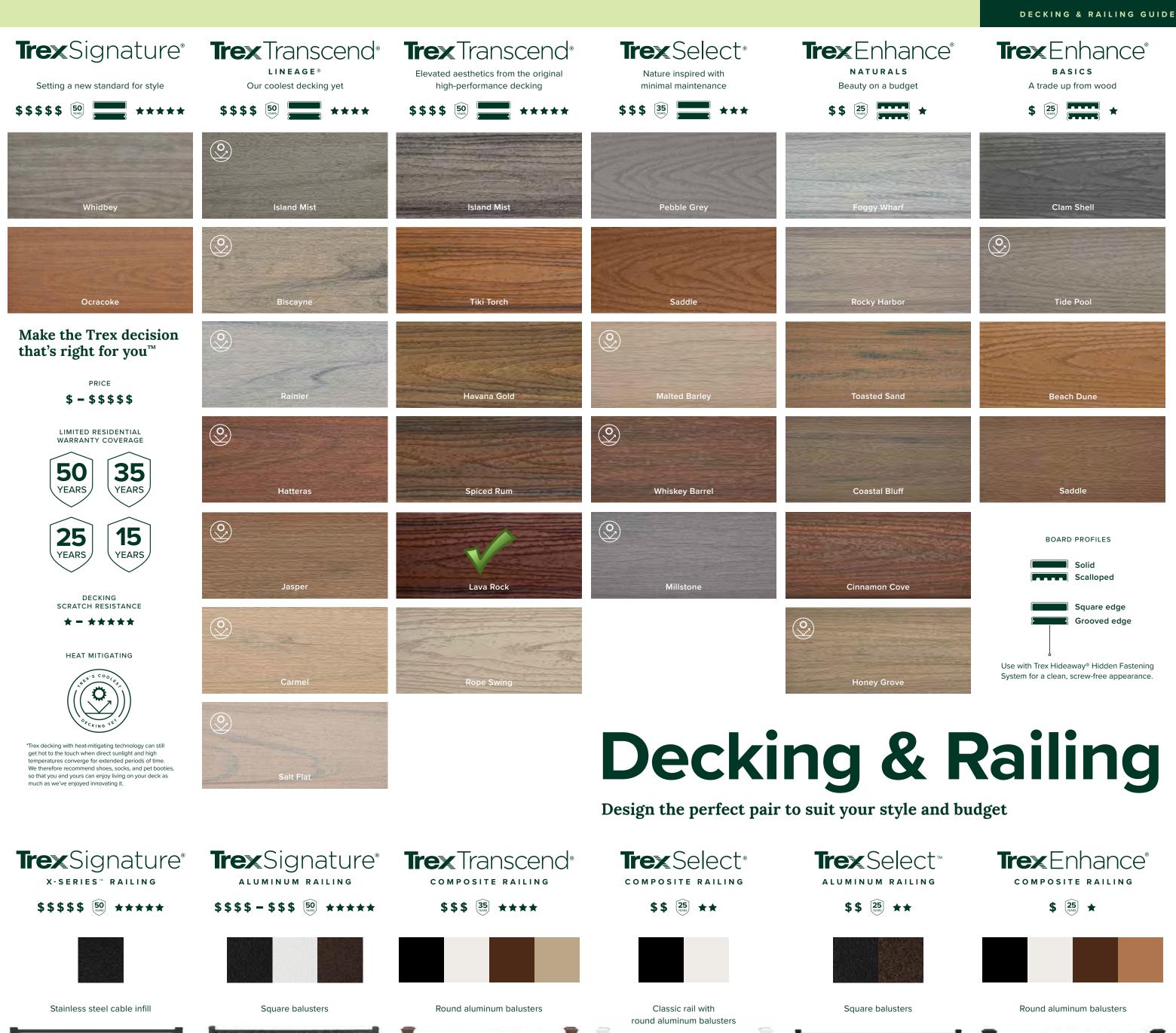
is engineered to endure whatever Mother Nature sends its way.

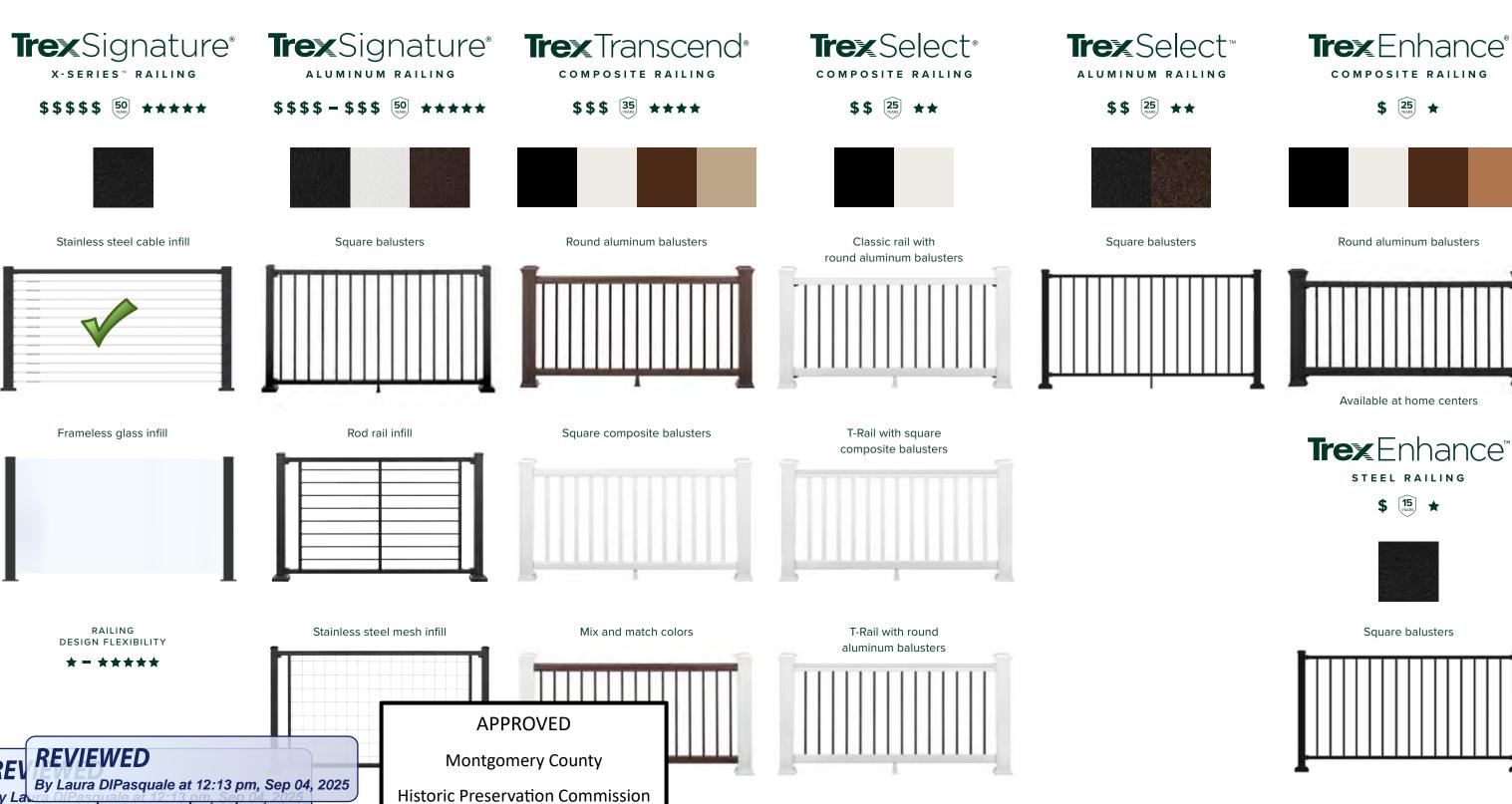


Easy Installation

Deck railing kits, pre-assembled panels and online resources make installation simple.







Kare Bulit

Select™ steel mesh railing



Find your style

Get inspired by photos of

and railing pairings.

some of our favorite decking

Shop all of our products to complete your dream outdoor space



Decking
Deck Railing
Cladding
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Outdoor Lighting
Fasteners & Accessories

Deck Drainage Outdoor Furniture Outdoor Kitchens Pergola Fencing

Lattice Spiral Stairs Privacy Screens Shade Panels Cornhole



Start planning now with our helpful tools













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Color Selector

Cost Calculator

Decking Comparison

Deck Designer

AR Visualizer

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