

### HISTORIC PRESERVATION COMMISSION

Marc Elrich County Executive Robert Sutton Chairman

Date: April 26, 2021

#### **MEMORANDUM**

TO:	Mitra Pedoeem
	Department of Permitting Services
FROM:	Michael Kyne
	Historic Preservation Section
	Maryland-National Capital Park & Planning Commission
SUBJECT:	Historic Area Work Permit #939482: Demolition and construction of a new single-family
	house

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was <u>Approved</u> at the March 24, 2021 HPC meeting.

The HPC staff has reviewed and stamped the attached construction drawings.

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:Josh Harrison (Neal Thomson, Architect)Address:9 West Kirke Street, Chevy Chase

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 Michael Kyne at 301.563.3403 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.



### PROJECT INFO :

The work includes the raze of the existing non-contributing structure and foundations as supported by Staff on 12/9/20. The proposed new house (approx 39' wide and 58.5' deep) at 9 West Kirke will be a 2 story plus basement and attic all new construction with a detached rear garage. Principal materials will be stained cedar shingle and painted wood trim/ detailing. The house will have brick chimneys and brick-faced foundation (where visible) with an Alaskan Yellow cedar shake roof. The windows and doors are designed as painted wood. Details are predominantly inspired by the shingle style vernacular influenced by the eclectic nature of the surrounding neighborhood.

9 West Kirke St

R-60

ADDRESS:

Chevy Chase, MD 20815 LOT P1, BLOCK 38, SUBDIVISION 0009 LOCATION:

ZONING: setbacks: LOT AREA:

BUILDING HEIGHT:

LOT COVERAGE:

FRONT: 25' BRL, LEFT: 8', RIGHT: 10', REAR: 20' 7,500 SF ALLOWED: PROPOSED: 27'-3" To Midpoint 30' (to midpoint) 34.56' To Peak 28.5% (2,137 SF) 1,916.4 SF - 25.6%

3,741 SF

1,886 SF

1,944 SF

1,797 SF

610 SF

6,236 SF

232 SF

PROPOSED:

0.5 (3,750 SF) FAR: BUILDING AREA: BASEMENT FLOOR AREA: FIRST FLOOR AREA: SECOND FLOOR AREA: ATTIC AREA: UNFINISHED W/ < 7' CLGS TOTAL FLOOR AREA:

DETACHED GARAGE:

PLANS PREPARED BASED ON THE FOLLOWING CODES:

2018 INTERNATIONAL RESIDENTIAL CODE AND 2018 INTERNATIONAL ENERGY CONSERVATION CODE AS AMENDED BY MONTGOMERY COUNTY EXECUTIVE REGULATION 31-19



# Harrison Residence

9 West Kirke St Chevy Chase, MD 20815



Front Elevation

REVIEWED By Michael Kyne at 12:18 pm, Apr 26, 2021

THOMSON & COOKE ARCHITECTS		5155 MACARTHUR BLVD NW	WASHINGTON DC 20016	202.686.6583	W W W.THOMSONCOOKE.COM
	9 West Kirke St Chevy Chase MD 20815		PERMIT SET	THOMSON&COOKE Architects plic	
Professional documents we and that I am o laws of the St 17073,	Certificat ere prepa a duly lice ate of Mc expiratior	ion: I c ired or insed c irylanc n date	certify t appro archite I, Licer 09-04-	that the oved b act unc ase nur 2021	ese y me, ler the nber
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Dra	wing List
0000	Cover
0001	Code Notes
0002	Window & Door Schedule
ECOUT	Building Envelope
A100	Basement Plan
A101	FIIST FIOOT FIGH Second Floor Plan
A102	Attic Plan
A104	Roof Plan
A200	Front & Right Elevations
A201	Rear & Left Elevations
A202	Garage Elevations
A203	Cross Sections Through Study & Stair
A204	Cross Sections Through Mudroom & Kitchen
A205	Cross Sections Through Mudroom & Kitchen
A206	Section Through Study
A207	Section Through Entry
A300	Wall Sections
A400	Stair Details
A401	Exterior Defails
E000	Basement & First Floor Electrical Plan
E001	Second Floor & Affic Electrical Plan
S001	Cover Sheet
S101	Foundation Plan
\$102	1st Floor Framina
\$103	2nd Floor Framina
S104	Attic Floor Framing
S105	Roof Framing
S106	Wind Bracing Plans
S107	Wind Bracing Sections
S108	Wind Bracing Sections
S301	Typ. Sections

ZONE	U-FACTOR <sup>b</sup>	SKYLIGHT <sup>®</sup> U-FACTOR	FENESTRATION SHGC <sup>b, e</sup>	CEILING <i>R</i> -VALUE	FRAME WALL <i>R</i> -VALUE	WALL R-VALUE	FLOOR <i>R</i> -VALUE	WALL R-VALUE	& DEPTH	SPACE <sup>©</sup> WALL <i>R</i> -VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13+5 <sup>h</sup>	8/13	19	5/13 <sup>f</sup>	0	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13+5 <sup>h</sup>	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13+5 <sup>h</sup>	13/17	30 <sup>g</sup>	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	49	20+5 or 13+10 <sup>h</sup>	15/20	30 <sup>g</sup>	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20+5 or 13+10 <sup>h</sup>	19/21	38 <sup>g</sup>	15/19	10, 4 ft	15/19

a. *R*-values are minimums. *U*-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed *R*-value of the insulation shall not be less than the *R*-value specified in the table.
b. The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed

c. "15/19" means R-15 continuous insulation on the interior or exterior of the basement wall plus R-5 continuous insulation on the interior or the home or R-19 cavity insulation at the interior or exterior of the home.
"10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.

e. There are no SHGC requirements in the Marine Zone.

f. Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1. g. Or insulation sufficient to fill the framing cavity, R-19 minimum.

h. First value is cavity insulation, second is continuous insulation or insulated siding, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation or insulated siding. If structural sheathing covers 40 percent or less of the exterior, continuous insulation *R*-value shall be permitted to be reduced by no more than R-3 in the locations where structural sheathing is used – to maintain a consistent total sheathing thickness.
i. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.

### <u>Table 1: R - Value</u>

#### TABLE R402.1.3 EQUIVALENT U-FACTORS<sup>®</sup>

	CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT <i>U-</i> FACTOR	CEILING <i>U-</i> FACTOR	FRAME WALL U-FACTOR	MASS WALL <i>U-</i> FACTOR <sup>b</sup>	FLOOR <i>U-</i> FACTOR	BASEMENT WALL <i>U-</i> FACTOR	CRAWL SPACE WALI U-FACTOR
	1	0.50	0.75	0.035	0.082	0.197	0.064	0.360	0.477
	2	0.40	0.65	0.030	0.082	0.165	0.064	0.360	0.477
	3	0.35	0.55	0.030	0.057	0.098	0.047	0.091 <sup>c</sup>	0.136
Γ	4 except Marine	0.35	0.55	0.026	0.057	0.098	0.047	0.059	0.065
	5 and Marine 4	0.32	0.55	0.026	0.057	0.082	0.033	0.050	0.055
	6	0.32	0.55	0.026	0.048	0.060	0.033	0.050	0.055
	7 and 8	0.32	0.55	0.026	0.048	0.057	0.028	0.050	0.055

a. Nonfenestration *U*-factors shall be obtained from measurement, calculation or an approved source.
b. When more than half the insulation is on the interior, the mass wall *U*-factors shall be a maximum of 0.17 in Climate Zone 1, 0.14 in Climate Zone 2, 0.12 in Climate Zone 3, 0.087 in Climate Zone 4 except Marine, 0.065 in Climate Zone 5 and Marine 4, and 0.057 in Climate Zones 6 through 8.
c. Basement wall *U*-factor of 0.360 in warm-humid locations as defined by Figure R301.1 and Table R301.1.

### <u>Table 2: U-Value</u>

**REVIEWED** By Michael Kyne at 12:18 pm, Apr 26, 2021

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APPROVED Montgomery County Historic Preservation Commission

A cor envel neral Requirements contin shall b The ai aligneo sealed. eiling / attic doors Juncti Juncti be sea Windows, skylights and doors skylig Rim joists Floors (including above garage The air and cantilevered floors) insula Crawl space walls with taped Duct Shafts, penetrations to exte Varrow cavities Air se Barage separation condi Reces Recessed lighting envel umbing and wiring hower / tub on exterior wall show The a Electrical / phone box on exterio comn instal HVA HVAC register boots An a ireplace Firep a. In addition, inspection of log walls shall

COMPONENT

#### TABLE R402.4.1.1 AIR BARRIER AND INSULATION INSTALLATION

AIR BARRIER CRITERIA®	INSULATION INSTALLATION CRITERIA
tinuous air barrier shall be installed in the building ppe. Exterior thermal envelope shall contain a uous air barrier. Breaks or joints in the air barrier e sealed.	Air-permeable insulation shall not be used as a sealing material.
ir barrier in any dropped ceiling/soffit shall be d with the insulation and any gaps in the air barrier . Access openings, drop down stair or knee wall to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.
ons of the foundation and sill plate shall be sealed. ons of the top plate and top of exterior walls shall led. Knee walls shall be sealed.	Corners and headers shall be insulated. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
bace between window/door jambs and framing, and hts and framing shall be sealed.	
pists shall include the air barrier.	Rim joists shall be insulated.
r barrier shall be installed at any exposed edge of ion.	Insulation shall be installed to maintain permanent contact with underside of subfloor decking.
ed earth in unvented crawl spaces shall be covered a Class I vapor retarder with overlapping joints	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls.
shafts, utility penetrations, and flue shafts opening perior or unconditioned space shall be sealed.	
	Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity space.
aling shall be provided between the garage and ioned spaces.	
sed light fixtures installed in the building thermal pe shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.
	Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
ir barrier installed at exterior walls adjacent to rs and tubs shall separate them from the showers bs.	Exterior walls adjacent to showers and tubs shall be insulated.
ir barrier shall be installed behind electrical or unication boxes, or air sealed boxes shall be ed.	
C register boots that penetrate building thermal pe shall be sealed to the subfloor or drywall.	
r barrier shall be installed on fireplace walls. aces shall have gasketed doors.	
be in accordance with the provisions of $ICC-400$	

### <u>Table 3: Air Sealing Notes</u>

eneral	
eneral 1. Project	documents.
A.	<ol> <li>Large-format drawing sheets bearing the name of the Architect and Project, and the notation "Construction Set" or "Revision [#]". Sheets bearing the notations. "Permit Set". "Not for</li> </ol>
	Construction", "Preliminary", "Pricing", or "Schematic" shall not be used for construction. 2. Specifications bearing the notation, "Construction Specifications". Preliminary and other
	<ol> <li>specifications shall not be used for construction.</li> <li>Supplemental drawing sheets bearing the name of the Architect, Project, and the notation "SK-[#]".</li> </ol>
	<ul><li>Such drawings become part of the Project Documents as they are issued.</li><li>Schedules of finishes, fixtures, doors, windows, and other manufactured products, which may be</li></ul>
	<ol> <li>issued as part of any of the above documents.</li> <li>Any work done from out of date documents will be solely at the Contractor's risk and expense.</li> </ol>
В.	Inconsistencies. 1. Any inconsistencies found between the drawings and existing conditions, or among the drawings, or
	between the drawings and the specifications, shall be reported to the Architect. The Contractor sha not perform any work affected in any manner by the inconsistencies until the Architect has clarified
C	expense. The Architect will resolve the inconsistencies in a timely manner.
0.	<ol> <li>In the event of conflicting information within the project documents, the following precedence order shall be followed</li> </ol>
	a. Specifications b. Drawings at larger scale
	<ol> <li>Drawings at angle scale</li> <li>Drawings at smaller scale</li> <li>Where construction documents specify more stringent requirements than building code minimums</li> </ol>
2. Dimens	construction document requirements shall govern.
A. B.	Columns are dimensioned to centerline. Wood framing is dimensioned to face of framing.
C. D.	Concrete and masonry are dimensioned to face of material. Openings are dimensioned to centerline, UNO. See door and window schedules for rough openings and
3. Existing	masonry openings if applicable.
Α.	All existing conditions, materials, dimensions and elevations shall be verified by the Contractor prior to beginning work.
В.	Extreme care and safety measures must be taken by the General Contractor so as not to damage the existing structure in any way. Any damage to the existing structure resulting from construction work shall
4. Codes	be the sole responsibility of the Contractor. and standards.
A.	International Residential Code for One- and Two-Family Dwellings, 2018 Edition, as amended by Montgomery County Executive Regulation.
В.	of the American Concrete Institute.
C.	American Institute of Steel Construction.
D. E.	weiging. <i>Surgerung weiging Code – Steel</i> , latest edition, of the American Welding Society. Masonry: ACI530/ASCE 5/TMS 402 Wood Eraming: National Design Specification for Stress Crade Lumber and the Easter that it is the
F.	wood manning. <i>Ivalional Design Specification for Stress-Grade Lumber and Its Fastenings</i> " of the National Forest Products Association, latest edition.
טפאם . A.	Live loads. 1 Boofs: 30 PSE
	2. Sleeping Rooms: 30 PSF 3. Booms other than Sleeping: 40 PSF
В.	Dead loads: Minimum design dead weight of superimposed building materials in accordance with table A1 of the Minimum Design Loads for Building and Other Structures ANSLASS 1-82
C. D	Wind Speed: 90 MPH. Seismic design category: B.
6. Design	Code Notes.
	<ol> <li>Habitat rooms, hallways, corridors, bathrooms, toilet rooms, laundry rooms and basements shall have a ceiling height of no less than 7'-0". The required height shall be measured from the finish</li> </ol>
	floor to the lowest projection from the ceiling, IRC sec. R305. Exceptions: 1) Beams and girders spaced not less that 48" on center may project not more than 6" below the required ceiling height. 2
	Not more than 50% of the floor area of a room or space is permitted to have a sloped ceiling less than 7'-0" in height.
	<ol> <li>Any floor area having less than 5'-0" of ceiling height shall not be considered part of the room area and shall not be allowed to have any permanent fixtures or furnishings such as, but not limited to,</li> </ol>
В.	bathtubs, showers, water closets, sinks, cabinets, counters, and shelves. Garage floor shall be at least 4" below the adjacent dwelling floor, or a permanent noncombustible liquid-
_	tight curb, at least 4" high, shall be on the garage side. Garage shall be provided with minimum 1/2" drywall. A solid wood door 1-3/8" thick or a 20-minute fire-rated door is required, IRC §R309.
C.	Egress openings. 1. Every sleeping room and every habitable room shall have at least one operable window or exterior
	door opening for emergency escape and rescue. Openings shall have a sill height of not more than 44" above the floor. All emergency escape and rescue openings shall have a minimum net clear
	opening of 5. / sq.rt., a minimum net clear opening width of 20", and a minimum net clear opening height of 24", IRC §R310.
P	<ol> <li>All egress doors and windows shall be readily openable from the side from which egress is to be made without the use of a key or special knowledge or effort, IRC §R311.2.</li> </ol>
U.	Stairs shall comply with IRC §R314, and handrails shall comply with IRC §R315.     Treads and risers shall comply with IRC §R314.2, as amended by Montromery County Executive
	Regulation: a Tread-10" min.
	<ul> <li>b. Riser: 7 3/4" max.</li> <li>c. Open risers shall not permit the passage of a 4" diameter sphere</li> </ul>
	<ol> <li>Headroom: Minimum headroom in stairways shall be 6'-8", as described in IRC §R314.3.</li> <li>Under-stair protection: Accessible space under stairs shall finished with 1/2" GWB to comply IRC</li> </ol>
	<ul><li>§R314.8.</li><li>5. Handrails shall have a minimum height of 34" and a maximum height of 38" measured from the</li></ul>
	nosing of the treads, IRC §R315.1 6. Illumination: Interior and exterior stairways shall be illuminated in compliance with IRC §R303.4
E.	Guard railings: 1. Where required: Porches, balconies or raised floor surfaces located more than 30" above the floor
	or grade below and retaining walls with a difference in grade level on either side of the wall exceeding 4 ft. and within 2 ft. of a walk, path, parking lot or driveway on the high side shall have
	guards not less than 36" in height. Open sides of stairs with a total rise of more than 30" above the floor or grade below shall have guards not less than 34" in height. IRC Sec. R316.
	2. Opening limitations: Required guards as described above shall have intermediate balusters that do not allow the passage of a 4" diameter sphere. Required guards shall not be constructed with
	horizontal rails or other pattern that results in a ladder effect, IRC §R316.2. Exception: Triangular openings formed by the riser, tread, and bottom rail of a guard at the open side of a stairway are
F.	permitted to be of such a size that a 6" diameter sphere cannot pass through. Smoke Alarms.
	<ol> <li>Smoke alarms shall, at a minimum, be placed in the following locations.         <ul> <li>Each sleeping room.</li> </ul> </li> </ol>
	<ul> <li>Outside of each separate sleeping area in the immediate vicinity of the bedrooms.</li> <li>On each additional story, in compliance with IRC §R317.1.</li> </ul>
	2. Interconnection: All smoke alarms in the dwelling shall be interconnected so that activation of one activates all the others, IRC §R317.1.
	3. Power source: Smoke alarms shall be hard-wired, with battery backup, IRC §R317.2. Low voltage heat or smoke detection systems require a permit from the Department of Fire and Rescue
	Services. 4. Automatic sprinkler systems: IRC §R317.3.
G.	Foundations. 1. Concrete and masonry foundation walls shall comply with IRC R404.1. Walls shall be capable of
	supporting lateral of 40 pcf/foot of depth below grade. 2. Foundation concrete shall comply with IRC §R402.2.
	3. Height of walls: Concrete and masonry foundation walls shall extend above the finished grade adjacent to the foundation at all points a minimum of 4" where masonry veneer is used and a
	<ul> <li>minimum of 6" elsewhere, IRC §R404.1.6</li> <li>Wood sill plates: Wood sill plates shall be pressure-preservative-treated. The minimum width shall</li> </ul>
	be the width of the studs of the frame wall directly above. Sill plates shall be anchored to the foundation with anchor bolts or approved straps spaced a maximum of 4'-0" OC, and shall also be
_	Iocated within 12" from the ends of each plate section. Bolts shall be at least 1/2" diameter and sha extend a minimum of 7" into masonry or concrete. IRC §R403.1.6
H.	Crawlspaces. 1. Crawlspaces (or "Under-Floor Space") shall comply with IRC §R408.
	<ol> <li>Ventilation.</li> <li>a. Minimum net area of ventilation openings shall not be less than 1 square foot per 150 sf or</li> </ol>
	crawispace area. b. One ventilating opening shall be within 3'-0" of each building corner.
	<ol> <li>Access: An access opening at least 18" x 24" shall be provided for the crawlspace, IRC §R408.3.</li> <li>All untreated lumber shall be minimum 18" above finished grade, and shall comply with IRC §R323.</li> </ol>
I.	Hoots. 1. Roof loads shall be transmitted to foundation.
-	<ol> <li>Roof assemblies shall comply with IRC Chapter 9.</li> <li>Roof ventilation and attic access shall comply with IRC §R806 and §R807.</li> </ol>
J.	<ol> <li>Fireplaces, flues, and chimneys.</li> <li>Chimneys and fireplaces shall comply with IRC Chapter 10 and Fig. R1003.1. Flue sizes shall be</li> </ol>
	<ul> <li>determined in accordance with Fig. R1001.12.2</li> <li>Clearance to combustible materials.</li> </ul>
	a. Masonry chimneys located within the exterior walls of the building shall have a minimum air space clearance to combustibles of 2". Chimneys located entirely outside the exterior
	walls of the building, including chimneys that pass through the soffit or cornice, shall have a minimum air space clearance of 1." The air space shall not be filled, except to provide
	tireblocking in accordance with IRC §R602.8 and §R1001.15. b. All wood beams, joists, studs and other combustible material shall have a clearance of no
	less than 2" from the front faces and sides of masonry fireplaces and not less than 4" from the back faces of masonry fireplaces, IRC §R1003.12
	3. Ventilation: Factory-built or masonry fireplaces shall be equipped with an exterior air supply to assure proper fuel combustion, unless the room is mechanically ventilated and controlled so that the
	indoor pressure is neutral or positive, IRC Sec. R1005.
K.	Swinning pools.

Electric Code.
Swimming pool areas shall be fenced in compliance with IRC §AG105, as amended by Montgomery County Executive Regulation. The minimum barrier height shall be 5'-0".
Miscellaneous.
Energy efficiency: All dwellings shall comply with IRC Chapter 11, Energy Efficiency. Exception: 1-story additions of 200 sf or less.

story additions of 200 sf or less.
 Radon: Radon venting is required and shall be installed per IRC Appendix F (Radon Control Methods).
 Safety glass: Glass in doors, side lights, tub and shower enclosures, and skylights shall be safety

glass, IRC §R308.4. 7. Manufactured parts: All manufactured parts to be installed according to Manufacturers' specifications.

02 Site Work 1. Soil.

A. Soil bearing capacity minimum requirement: 2000 PSF UNO.
B. Assumed soil equivalent fluid pressure: 40 PSF.
2. Drainage.

A. Lot drainage shall comply with IRC §R401.2
 B. Foundation drainage shall comply with IRC §R405.1

3. Fill.
A. Unless otherwise determined by soil engineer, all fill under paving and slab shall be graded mixtures of sand and gravel, well-compacted by appropriate types of compaction equipment in successive layers not greater than 6" thick, to a density not less than 95% of the maximum density at optimum moisture content determined by ASTMD-698, the standard Proctor method. Fill material shall be free from organic material, trash, muck, concrete, asphalt or other deleterious substances. Prior to placing fill, the existing surface shall be cleared of all refuse or organic material.
B. Basement wall shall not be backfilled until the first floor framing is in place and the walls have been

braced, IRC §R404.1.7 C. Maximum unbalanced fill for foundation walls shall comply with IRC Tables §R404.1.1 (1) through (4).



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D         D         D         Solution         Intervance         Control         Non-	nterio	r Dool	r schedule			1						
N     N     No     No     No     No     No     No       N     N     No	ID	Qty	Size		Туре	Leaf Thickness	Lites	Operation	Hardw	vare		Note
Image         Image <th< td=""><td>01 1</td><td></td><td>5-0x8-0</td><td>Casec</td><td>d Opening</td><td>1 3/4"</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	01 1		5-0x8-0	Casec	d Opening	1 3/4"						
Image         Image <th< td=""><td>02 1</td><td></td><td>2-10x7-0</td><td>Two Po</td><td>'anel</td><td>1 3/4"</td><td></td><td>Swing</td><td></td><td></td><td></td><td></td></th<>	02 1		2-10x7-0	Two Po	'anel	1 3/4"		Swing				
No.         No. <td>103 1</td> <td></td> <td>3-0x7-0</td> <td></td> <td>d Opening</td> <td>1 3/4</td> <td></td> <td>Swing</td> <td></td> <td></td> <td></td> <td></td>	103 1		3-0x7-0		d Opening	1 3/4		Swing				
N         N	0.5		3-0x0-0	Two Po	anel	1 3/4"		Swing				
N         N         Norm         Norm<	05 1		3-0x7-0	Two Po	anel	1 3/4"		Swing				
1 <t< td=""><td>06 1</td><td></td><td>3-0x7-0</td><td>Two Po</td><td>anel</td><td>1 3/4"</td><td></td><td>Swing</td><td></td><td></td><td></td><td></td></t<>	06 1		3-0x7-0	Two Po	anel	1 3/4"		Swing				
Normal     Normal <td>07 1</td> <td></td> <td>3-0x8-0</td> <td>Casec</td> <td>d Opening</td> <td>1 3/4"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	07 1		3-0x8-0	Casec	d Opening	1 3/4"						
1     No.3     No.3     No.4     No.4 <t< td=""><td>08 1</td><td></td><td>(2)2-0x7-0</td><td>Two Po</td><td>anel</td><td>1 3/4"</td><td></td><td>Swing</td><td></td><td></td><td></td><td></td></t<>	08 1		(2)2-0x7-0	Two Po	anel	1 3/4"		Swing				
1     Accil     Norman	09 1		3-0x7-0	Two Po	anel	1 3/4"		Swing				
1     Norway	10 1		2-4x7-0	Two Po	anel	1 3/4"		Pocket				
M         M         M         M         M         M         P         P <sup>2</sup> I         I	11 1		2-8x/-0	Two Po	ranel	1 3/4"		swing	-			
Image: Control         Norm	12   ]		2-4X/-U	Iwo Po	or	0.3/9"		swing				
N         No.2         No			2-UX0-0 2-6v7.0	Showe	onel	1.3/4"		Swing	+			
2         1         200         morps         morps <thmorps< th=""> <thmorps< th=""> <thmorps< th=""></thmorps<></thmorps<></thmorps<>	$\frac{1}{21}$		3-0x8-0	Casec	d Openina	1 3/4"		5B				
n     nond     mond     nond     nond <t< td=""><td>02 1</td><td></td><td>2-2x8-0</td><td>Two Po</td><td>anel</td><td>1 3/4"</td><td></td><td>Swing</td><td></td><td></td><td></td><td></td></t<>	02 1		2-2x8-0	Two Po	anel	1 3/4"		Swing				
1 1	)3 <sup>1</sup>		2-6x8-0	Two Po	anel	1 3/4"		Swing	1			
1     1 <td>04 1</td> <td></td> <td>(2)1-6x8-0</td> <td>Two Po</td> <td>anel</td> <td>1 3/4"</td> <td></td> <td>Swing</td> <td></td> <td></td> <td>Harmon Hinge</td> <td></td>	04 1		(2)1-6x8-0	Two Po	anel	1 3/4"		Swing			Harmon Hinge	
1     1     2 bd 3     3 bd 3 <td< td=""><td>05 1</td><td></td><td>4-6x8-0</td><td>Casec</td><td>d Opening</td><td>1 3/4"</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	05 1		4-6x8-0	Casec	d Opening	1 3/4"						
1     0<	06 1		5-0x8-0	Casec	d Opening	1 3/4"					Arched	
0         1         2.4.2.4.         No.2.4.2.4.         No.2.4.2.4.         No.2.4.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	07 1		(2)3-0x8-0	French	h	1 3/4"	2W4H	Pocket				
3     3 <td>08 1</td> <td></td> <td>2-6x7-0</td> <td>Casec</td> <td>d Opening</td> <td>1 3/4"</td> <td></td> <td>Cu de c</td> <td>TBD- See Spec</td> <td>c</td> <td></td> <td></td>	08 1		2-6x7-0	Casec	d Opening	1 3/4"		Cu de c	TBD- See Spec	c		
viel         viel <th< td=""><td>10 1</td><td></td><td>2-6x8-0</td><td>Two Po</td><td>ranel</td><td>1 3/4"</td><td></td><td>Swing</td><td></td><td></td><td></td><td></td></th<>	10 1		2-6x8-0	Two Po	ranel	1 3/4"		Swing				
Image: Control         Image: Contro         Image: Control         Image: C	10 1		(∠)1-6X/-U		anel	1 3/4		Pocket	TBD- See Spec			
10         10         100000         1000	11 ,		3-0x8-0	Two Pr	Panel	1 3/4"		Pocket		-		
Norma         Constructions         Nations	12 1		4-6x8-0	Cased	d Opening	1 3/4"		1				
10     1     24 047     Nond Query     194"     Image: Nond Query     Image: Nond Qu	13 T		3-0x8-0	Casec	d Opening	1 3/4"						
1     2     2473     workny     134"     249"     247"     workny     134"     249"      247"       247"       247" <td< td=""><td>16 1</td><td></td><td>4-6x8-0</td><td>Casec</td><td>d Opening</td><td>1 3/4"</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	16 1		4-6x8-0	Casec	d Opening	1 3/4"						
10     10     10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	01 1		2-6x7-0	Two Po	anel	1 3/4"		Swing				
30     i     é 26.2     implicit media     implicit media     implicit media       55     i </td <td>202 1</td> <td></td> <td>(2)2-0x7-0</td> <td>Two Po</td> <td>anel</td> <td>1 3/4"</td> <td></td> <td>Swing</td> <td></td> <td></td> <td></td> <td></td>	202 1		(2)2-0x7-0	Two Po	anel	1 3/4"		Swing				
1     2k204     Skow     <	203 1		2-6x7-0	Two Po	Panel	1 3/4"		Swing				
1     1     2.6.2     Conc.Conc.     1.9.4     Image: Conc.     Image: Conc.<	204 1		2-0x6-8	Showe	er	0 3/8"						
m         m         m         m         m         m         m           0         2002         Normal         13/4         Selig         m	05 1		/-UX/-U	Cased	d Opening	1 3/4"						
	200   1 207   1		3-UX/-U		u Opening Panel	1 3/4		Swing				
Image of the second o	207		2-0x/-U 3-0x6-8		anel	1 3/4		Swing	+			
P3         2x2-0         Northold         3xr         Song         Image           10         2x2-0         Northold         3xr         Song         Image         Image <td>208</td> <td></td> <td>3-0x7-2</td> <td>Casec</td> <td>d Opening</td> <td>1 3/4"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	208		3-0x7-2	Casec	d Opening	1 3/4"						
10     2 20/3     wo/met     1.4/4     owig     Image: Second Sec	209 1		2-6x7-0	Two Po	anel	1 3/4"		Swing				
11 1 20.7 No field 1.44 0 No <sup>2</sup> N N N N   18 1 20.7 No field 1.44 0 Siril<	210 1		2-0x7-0	Two Po	anel	1 3/4"		Swing				
12     1.4     24.4     No Pore     1.44"     Sore_     No Pore     No Pore<	211 1		2-6x7-0	Two Po	anel	1 3/4"		Pocket				
14     1     20/2     Ive Jond     1.44"     Semg     Image: Semg Semg Semg     Image: Semg Semg Semg Semg Semg Semg Semg Semg	212 1		2-6x7-0	Two Po	anel	1 3/4"		Pocket				
i <td< td=""><td>213 1</td><td></td><td>2-0x7-0</td><td>Two Po</td><td>anel</td><td>1 3/4"</td><td></td><td>Swing</td><td></td><td></td><td></td><td></td></td<>	213 1		2-0x7-0	Two Po	anel	1 3/4"		Swing				
Image     Line     Line <thline< th="">     Line     Line     Line</thline<>	214 1		2-10x7-0	Two Po	Panel	1 3/4"		Swing				
No.         Introduction         Introduction         Introduction         Introduction           10         1         22.00-0         Yoo Yonele         1.3/4         Swing         Image: Swing           10         1         22.00-0         Yoo Yonele         1.3/4         Swing         Image: Swing           11         22.00-70         Yoo Yonele         1.3/4         Swing         Image: Swing           11         22.00-70         Yoo Yonele         1.3/4         Swing         Image: Swing           12         1         24.00-70         Yoo Yonele         1.3/4         Swing         Image: Swing           11         24.00-70         Yoo Yonele         1.3/4         Swing         Image: Swing         Image: Swing           11         1.3/4         Swing         Image: Swing         Image: Swing         Image: Swing         Image: Swing           11         1.3/4         Swing         Image: Swing         Image: Swing         Image: Swing         Image: Swing           11         3.3/4         Swing         Image: Swing         Image: Swing         Image: Swing         Image: Swing           110         1         3.3/4         Swing         Image: Swing         Image: Swing         Ima	215 1		1212-UX/-U		anel	1 3/4"		swing			narmon Hinge	
Instrument         Instrument         Instrument         Instrument         Instrument           10         1         266/20         Invertored         247         3kmag         Invertored           10         1         266/20         Invertored         1247         3kmag         Invertored           11         1         266/20         Invertored         1247         3kmag         Invertored           11         1         266/20         Invertored         1347         3kmag         Invertored           11         1         266/20         Invertored         3kmag         Invertored         Invertored           11         1         266/20         Invertored         Transform         Manuf.         Lifes         Locotion         Note           11         1         366/20         Costment         Manuf.         Lifes         Locotion         Note           110         1         366/20         Costment         Manuf.         Lifes         Locotion         Note           111         1         366/20         Costment         Manuf.         Manuf.         Researd.1998         Researd.1998         Researd.1998         Researd.1998         Researd.1998         Researd.1998	217		2-2x7-0	Two P	anel	1 3/4"		Swina				
19         1         246/0         wo Provel         1 M/f         Swing            21         1         240.7         Two Provel         1 M/f         Swing            21         1         210.7.8         Two Provel         1 M/f         Swing            21         1         210.7.8         Two Powel         1 M/f         Swing            21         1         210.7.8         Model/Size         Type         Manut.         Lites         Locotion         Note           200         1         3         366.6         Colugn         4071/MAth         Impored         Impored           21         1         3.66.6         Colugn         2041         Impored         Impored	218		2-0x6-8	Showe	er	0 3/8"						
20     1     20/0     We Panet     13/d*     Wing     I       21     1     210/2     We Panet     13/d*     Swing     I       Wind     210/2     We Panet     13/d*     Swing     I       Wind     Units     Model/Size     Type     Manuf.     Lifes     Location       Wind     1     3     3645-24*     Comment     Manuf.     Isocation       Wind     1     3     3645-24*     Comment     Manuf.     Isocation       Wind     1     1     3646     Collage     Manuf.     Isocation       Wind     1     1     3646     Collage     Manuf./Manut.     Impored       Wind     1     1     3646     Collage     Manuf.     Impored       Wind     1     1     2640-     Colement     Manut.     Impored	219 1		2-6x7-0	Two Po	'anel	1 3/4"		Swing				
Value     Value     Value     Value     Value     Value     Value       Value     Value     Value<	220 1		2-8x7-0	Two Po	anel	1 3/4"		Swing				
Wint         Social Socicocial Social Social Social Socicocial Social Social Social Socia	221 1		2-10x7-0	Two Po	anel	1 3/4"		Swing				
DRevFundFundFundFundFundFundFundW001330-60 SWCosementW2H4W3HIempered.tgressW011130-60 CosementW2H4W3HIempered.tgressW011130-60 CotageAW2H4W3HIempered.tgressW021130-60 CotageAW2H4W4HIempered.tgressW031120-40 Cosement2W3HIemperedW031120-40 Cosement2W3HIemperedW031120-40 Cosement2W3HIemperedW031120-40 Cosement2W3HIemperedW041120-40 Cosement3W3HIemperedW051120-40 Cosement3W3HIemperedW07112-2-40 Cosement2W3HIemperedW10112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3HIemperedW11112-2-40 Cosement2W3H <th>Wind</th> <th>low Sc</th> <th>chedule</th> <th>Mode</th> <th></th> <th>Type</th> <th>Manuf</th> <th>Lite</th> <th></th> <th></th> <th>ation</th> <th>Note</th>	Wind	low Sc	chedule	Mode		Type	Manuf	Lite			ation	Note
W00         I         I         Solo Solo         Cosement         W21         W21         I         Isopholo         Isopholo           W101         I         I         3.686         Collage $4W2I/4W4I$ Tempered. Spies           W102         I         I         3.686         Collage $4W2I/4W4I$ Tempered           W103         I         I         2.686-6         Collage $4W2I/4W4I$ Tempered           W103         I         I         2.686-6         Collage $4W2I/4W4I$ Tempered           W104         I         I         2.686-6         Cosement         2.93H         Image: State Stat	W001	1	3	3-0x6-0 3W	.,	ement		4W2H/4W3H		200		Tempered
W1001113-8-8-6Cottage4W24/W44ImpacedW102113-8-6Cottage4W24/W44ImpacedImpacedW104112-8-6-4Cosement2W34ImpacedImpacedW104112-8-6-4Cosement2W34ImpacedImpacedW104112-8-6-4Cosement2W34ImpacedImpacedW105112-10-6-0Cosement2W34ImpacedImpacedW107115-0-6-0Cosement3W34ImpacedImpacedW107142-8-80-3WCosement3W34ImpacedImpacedW10712-2-40-0Cosement2W34ImpacedImpacedW11412-2-40-0Cosement2W34ImpacedImpacedW11512-2-40-0Cosement2W34ImpacedImpacedW11812-2-40-0Cosement2W34ImpacedImpacedW11812-2-40-0Cosement2W34ImpacedImpacedW11812-2-40-0Cosement2W34ImpacedImpacedW11812-2-40-0Cosement2W34ImpacedImpacedW11812-2-40-0Cosement2W34ImpacedImpacedW11812-2-40-0Cosement2W34ImpacedImpacedW118112-2-40-0Cosement2W3	W002	1	1	3-0x5-0	Case	ement		4W2H/4W3H				Tempered, Egress
W1021 · 11 · 1 · 13.6.6.4 · CologeW204 / W404ImpeedImpeedW1031 · 12.0.6.4 · Casement2.0.9.4 · C	W101	1	1	3-6x8-6	Cott	age		4W2H/4W4H				Tempered
N1001120.03-6Cosement20.93-620.93-6AN105110.04-0Cosement20.93-120.93-120.04.0Cosement20.93-120.93-120.04.0Cosement20.93-120.93-120.04.0Cosement20.93-120.93-120.04.0Cosement20.93-120.93-120.04.0Cosement20.93-120.93-120.04.0Cosement20.93-120	W102	1	1	3-6x8-6	Cott	age		4W2H/4W4H				Tempered
NUMEIIKAMA-UCostementKAMA-UCo	W103	1	1	2-0x3-6	Case	ement	-	2W3H				
NomeNoNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNome	W107	1	1	2-0x4-0	Case	ement		2W3H				
No.         No.         No.         Mathematical Strate           V10         1         5.052-0         Cosement         3W3H         Impered           V108         1         3         2.6603W         Cosement         3W5H         Impered           V109         1         4         2.8604W         Cosement         2W3H         Impered           V111         1         1         2.2440         Cosement         2W3H         Impered         Impered           V111         1         1         2.0400         Cosement         2W3H         Impered         Impered           V111         1         1         4.0620         Cosement         2W3H         Impered         Impered           V111         1         1         4.0620         Cosement         2W3H         Impered         Impered           V111         1         2.0404         Cosement         2W3H         Impered         Impered         Impered           V111         1         2.0404         Cosement         2W3H         Impered	W104	1	1	2-084-0 2-10x5-0		ement		2000F				
NUM         1         3         2.648.0 3W         Cosement         3WSH         Tempered           W109         1         4         2.88.0 4W         Cosement         3WSH         Impered           W110         1         1         2.244.0         Cosement         2W3H         Impered           W111         1         2.244.0         Cosement         2W3H         Impered         Impered           W112         1         2.244.0         Cosement         2W3H         Impered         Impered           W113         1         4.05.0         Cosement         2W3H         Impered         Impered           W114         1         2.36.60 2W         Double Hung         3W2H/3W2H         Impered         Egress           W202         1         1         2.85.6         Double Hung         3W2H/3W2H         Impered         Egress           W203         1         4.07.0         Cosement         2W3H         Impered         Egress           W204         1         1         2.645.6 3W         Cosement         3W4H         Impered         Impered           W205         1         3         2.645.6 3W         Cosement         3W3H         Impered	W107	1	1	5-0x5-0	Cuse	ement		3W3H				1
With         I         4         2 88:0 4W         Cosement         3W5H         Tempered           W110         1         1         2-2x4-0         Cosement         2W3H         Impered         Impered           W111         1         2         3-6x6-02W         Double Hung         2W3H         Impered         Egress           W201         1         2-8x5-6         Double Hung         3W2H/3W2H         Impered         Egress           W202         1         1         2-8x5-6         Double Hung         3W2H/3W2H         Impered         Egress           W203         1         1         2-8x5-6         Double Hung         3W3H         Impered         Egress           W204         1         2-8x6-6         Cosement         3W3H <td>W108</td> <td>1</td> <td>3</td> <td>2-6x8-0 3W</td> <td>Case</td> <td>ement</td> <td></td> <td>3W5H</td> <td></td> <td></td> <td></td> <td>Tempered</td>	W108	1	3	2-6x8-0 3W	Case	ement		3W5H				Tempered
W110         1         2.2x40         Casement         2W3H         Image: Constraint of the symbolic organization of the symbolic organis organization	W109	1	4	2-8x8-0 4W	Case	ement		3W5H				Tempered
W11111222Cosenent22W3HIncl<InclInclInclInclInclInclInclIncl<InclIncl<InclIncl<InclIncl<Incl<Incl<Incl< <th< td=""><td>W110</td><td>1</td><td>1</td><td>2-2x4-0</td><td>Case</td><td>ement</td><td></td><td>2W3H</td><td></td><td></td><td></td><td></td></th<>	W110	1	1	2-2x4-0	Case	ement		2W3H				
W112112×4-0Cosement02W3HMethodMethodMethodW113140x5-0Cosement2W3HW3HIMethodMethodMethodW11415-6x6-2WDouble HungW2H/W2HIMethodEgressW2021128x5-6Double HungW2H/W2HIMethodEgressW203112-8x5-6Double HungW2H/W2HIIMethodEgressW203112-0x4-0CosementW2HW2HIII <td>W111</td> <td>1</td> <td>1</td> <td>2-2x4-0</td> <td>Case</td> <td>ement</td> <td></td> <td>2W3H</td> <td></td> <td></td> <td></td> <td></td>	W111	1	1	2-2x4-0	Case	ement		2W3H				
WT13IIUUV3-0Cosement2W3HPM14 </td <td>W112</td> <td>1</td> <td>1</td> <td>2-2x4-0</td> <td>Case</td> <td>ement</td> <td></td> <td>2W3H</td> <td></td> <td></td> <td></td> <td></td>	W112	1	1	2-2x4-0	Case	ement		2W3H				
W114IZ3-86-3 ZWDouble Hung4W2/4W2/HMethodReferenceW20112-86-5Double Hung3W2H/3W2HEgressEgressW202114-067-0Cosement2W5HImpered.EgressW204112-064-0Cosement2W3HImpered.EgressW205132-665-63WCosement3W4HImpered.EgressW205112-665-63WCosement3W4HImpered.EgressW205112-665-63WCosement3W4HImpered.EgressW20612-665-63WCosement3W4HImpered.EgressW207152-665-63WCosement3W2HImpered.EgressW20812-664-02WCosement3W4HImpered.EgressW20912-664-02WCosement3W3HImpered.EgressW20912-664-02WCosement3W3HImpered.EgressW21012-664-02WCosement3W3HImpered.EgressW21112-664-02WCosement3W2HImpered.EgressW21212-664-02WCosement2W3HImpered.EgressW21312-664-02WCosement2W3HImpered.EgressW21412-664-02WCosement2W3HImpered.EgressW215112-664-02WCosement2W3HImpered.EgressW214112-664-02WCosement2W	W113	1	1	4-0x5-0	Case	ement	-	2W3H				
N2011120001000 <th< td=""><td>W114</td><td>1</td><td>2</td><td>3-6x6-0 2W</td><td>Doul</td><td>Die Hung</td><td>+</td><td>4W2H/4W2H</td><td></td><td></td><td></td><td>Egress</td></th<>	W114	1	2	3-6x6-0 2W	Doul	Die Hung	+	4W2H/4W2H				Egress
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www i z 2-6x5-0 zw Casement 3W4H Tempered	W303	1	2	2-6x5-0 2W	Case	ement		3W4H				Tempered
W304         1         2         2-6x5-0 2W         Casement         3W4H         Tempered		11	2	2-6x5-0 2W	Case	ement		3W4H				Tempered





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MEL. MATTA



	INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>a</sup>											
CLIMATE ZONE	FENESTRATION <i>U</i> -FACTOR <sup>b</sup>	SKYLIGHT <sup>♭</sup> <i>U</i> -FACTOR	GLAZED FENESTRATION SHGC <sup>b, ®</sup>	CEILING <i>R</i> -VALUE	WOOD FRAME WALL <i>R</i> -VALUE	MASS WALL <i>R</i> -VALUE	FLOOR <i>R</i> -VALUE	BASEMENT <sup>©</sup> WALL <i>R</i> -VALUE	SLAB <sup>d</sup> <i>R</i> -VALUE & DEPTH	CRAWL SPACE <sup>©</sup> WALL <i>R</i> -VALUE		
1	NR	0.75	0.25	30	13	3/4	13	0	0	0		
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0		
3	0.35	0.55	0.25	38	20 or 13+5 <sup>h</sup>	8/13	19	5/13 <sup>f</sup>	0	5/13		
4 except Marine	0.35	0.55	0.40	49	20 or 13+5 <sup>h</sup>	8/13	19	10/13	10, 2 ft	10/13		
5 and Marine 4	0.32	0.55	NR	49	20 or 13+5 <sup>h</sup>	13/17	30 <sup>g</sup>	15/19	10, 2 ft	15/19		
6	0.32	0.55	NR	49	20+5 or 13+10 <sup>h</sup>	15/20	30 <sup>g</sup>	15/19	10, 4 ft	15/19		
7 and 8	0.32	0.55	NR	49	20+5 or 13+10 <sup>h</sup>	19/21	38 <sup>g</sup>	15/19	10, 4 ft	15/19		

TABLE R402.1.1

For SI: 1 foot = 304.8 mm. a. R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed *R*-value of the insulation shall not be less than the *R*-value specified in the table.

b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30. c. "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall. d. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate

Zones 1 through 3 for heated slabs. e. There are no SHGC requirements in the Marine Zone.

f. Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1. g. Or insulation sufficient to fill the framing cavity, R-19 minimum.

h. First value is cavity insulation, second is continuous insulation or insulated siding, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation or insulated siding. If structural sheathing covers 40 percent or less of the exterior, continuous insulation *R*-value shall be permitted to be reduced by no more than R-3 in the locations where structural sheathing is used - to maintain a consistent total sheathing thickness. i. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.

<u>Table 1: R - Value</u>

### TABLE R402.1.3 EQUIVALENT U-FACTORS<sup>a</sup>

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT <i>U-</i> FACTOR	CEILING <i>U-</i> FACTOR	FRAME WALL <i>U-</i> FACTOR	MASS WALL <i>U-</i> FACTOR <sup>₿</sup>	FLOOR <i>U-</i> FACTOR	BASEMENT WALL <i>U-</i> FACTOR	CRAWL SPACE WALL <i>U-</i> FACTOR				
1	0.50	0.75	0.035	0.082	0.197	0.064	0.360	0.477				
2	0.40	0.65	0.030	0.082	0.165	0.064	0.360	0.477				
3	0.35	0.55	0.030	0.057	0.098	0.047	0.091 <sup>c</sup>	0.136				
4 except Marine	0.35	0.55	0.026	0.057	0.098	0.047	0.059	0.065				
5 and Marine 4	0.32	0.55	0.026	0.057	0.082	0.033	0.050	0.055				
6	0.32	0.55	0.026	0.048	0.060	0.033	0.050	0.055				
7 and 8	0.32	0.55	0.026	0.048	0.057	0.028	0.050	0.055				

a. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source. b. When more than half the insulation is on the interior, the mass wall U-factors shall be a maximum of 0.17 in Climate Zone 1, 0.14 in Climate Zone 2, 0.12 in Climate Zone 3, 0.087 in Climate Zone 4 except Marine, 0.065 in Climate Zone 5 and Marine 4, and 0.057 in Climate Zones 6 through 8. c. Basement wall U-factor of 0.360 in warm-humid locations as defined by Figure R301.1 and Table R301.1.

### <u>Table 2: U-Value</u>

### **PRESCRIPTIVE WORKSHEET (R-Values)**

Applicant Name: <u>JOSH HARRISON</u>

Date: 4/02/2021 Dermit  $(\Lambda/D)$  #

Building Address 9 WEST K	IRKE ST	Permit (A/P) #		
CRITERIA		REQUIRED	PROVIDED	ASSEMBLY DESCRIPTION
WINDOWS/DOORS	MAX. U-FACTOR	0.32	0.32	
FENESTRATION	MAX. SHGC	0.55	0.55	Loewell windows and Doors
SKYLICHTS	MAX. U-FACTOR	0.4		
SKILIGHIS	MAX. SHGC	0.4		None
CEILINGS		R-49	R-49	Open Cell Spray Foam Insulation
WALLS (wood framing)		R-20 or 13+5	R-21	Open Cell Spray Foam Insulation
MASS WALLS	AV-	**R-8/13	R-13	Open Cell Spray Foam Insulation
BASEMENT WALLS	5	*R-10/13	R-13	Open Cell Spray Foam Insulation
FLOORS	Ň	R-19	R-19	Open Cell Spray Foam Insulation
SLAB PERIMETER R-value, depth	N N	R-10, 2ft	R-10	Rigid Insulation
CRAWL SPACE WALLS		*R-10/13	R-10	Rigid Insulation

\*The first R-value applies to continuous insulation, the second to framing cavity insulation. "10/13 means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation on the interior of the basement wall."

\*\*The second R-value applies when more than half the insulation is on the interior of the mass wall. Insulation material used in layers, such as framing cavity insulation and insulating sheathing, shall be summed to compute the component R-value.

Thermally Isolated Sunroom, Check box if applicable.

- Minimum Ceiling R-Value for Sunroom (R-19)
- Minimum Wall R-Value (R-13)

• New wall(s) separating a sunroom from conditioned space shall meet the building thermal envelope requirements.

I hereby certify that the building design represented in the attached construction documents has been designed to meet or exceed the requirements of: <sup>2</sup>

X 2018 Edition International Energy Conservation Code (IECC)

Neal Thomson	Thomson & Cooke Architects	4/02/2021
Builder/Designer/Contractor	Company Name	Date

<sup>2</sup> Section R103.3.1 "Documents shall be endorsed and stamped "*Reviewed for Code Compliance*." Section R103.3.3 provides provision for <u>Phased Approval</u>. "The code official shall have the authority to issue a permit for the construction of part of an energy conservation system before the construction documents for the entire system have been submitted or approved, provided adequate information and detailed statements have been filed complying with all pertinent requirements of this code. The holders of such permit shall proceed at their own risk without assurance that the permit for the entire energy conservation system will be granted."

Page 3 of 6 Revised 10/1/2020



## $\frac{\text{Building Thermal Envelope}}{\frac{1}{1/4"} = 1'-0"}$











 $\frac{Basement Plan}{1/4" = 1'-0"}$ 

REVIEWED By Michael Kyne at 12:18 pm, Apr 26, 2021

> APPROVED Montgomery County Historic Preservation Commission

4 A202





 $\frac{\text{First Floor Plan}}{1/4" = 1'-0"}$ 

REVIEWED By Michael Kyne at 12:18 pm, Apr 26, 2021



















APPROVED Montgomery County Historic Preservation Commission

PER GUTTER AT PORCH









 $2 \frac{\text{Right Elevation}}{\frac{1}{4''} = 1' \cdot 0''}$ 

REVIEWED By Michael Kyne at 12:18 pm, Apr 26, 2021

MMI

THOMSON & COOKE ARCHITEC			5155 MACARTHUR BLVD NW	WASHINGTON DC 20016	202.686.6583	W W W.THOMSONCOOKE.COM
	Harrison Residence	9 West Kirke St Chevy Chase MD 20815		PERMIT SET	© THOMSON&COOKE Architects pllc	
Profes docume and that laws of	ssional Ce ents were I am a d the State 17073, exp Frc	ertificat prepc uly lice of Mc oiration	rion: Lo ired or insed o irylance n date	certify f appro archite J, Licer 09-04-	that th oved b oct unc use nur 2021	ese y me, der the mber
11/18/20 12/10/20 1/07/20 03/04/20	D20 D20 D20 D21 D21 D21	Per	SD I SD I SD I mit C Pe	Neet Meet Meet Coorc rmit S	ing ing ing dinati	on

GARAGE BEYOND 11'-0" 2nd Floor







 $2 \frac{\text{Left Elevation}}{\frac{1}{4''} = \frac{1}{0''}}$ 



APPROVED Montgomery County **Historic Preservation Commission** 

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# **Garage Front Elevation** $\frac{1}{1/4''} = 1'-0''$

### $3 \frac{\text{Garage Rear Elevation}}{\frac{1}{4''} = \frac{1}{0''}}$

- PTD WD TRIM

- COPPER LANTERN TBD

\_\_ STAINED CEDAR SHINGLE 6" EXOSESURE

PTD WOOD GARAGE DOOR BY ARTISAN. SEE SPEC ON T5



I

# $2\frac{Garage}{1/4"}$ = 1'-0"

### $4 \frac{\text{Garage Left Elevation}}{\frac{1}{4''} = \frac{1}{0''}}$

### **REVIEWED** By Michael Kyne at 12:18 pm, Apr 26, 2021

MAMIS











A203



Cross Section Through Mudroom





Permit Set



 $\frac{\text{Cross Section Throug Den}}{\frac{1}{4''} = \frac{1}{0''}}$ 





 $\frac{\text{Section Through Study}}{\frac{1}{4''} = 1'-0''}$ 

I.

### REVIEWED

By Michael Kyne at 12:18 pm, Apr 26, 2021

APPROVED Montgomery County Historic Preservation Commission

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### REVIEWED

By Michael Kyne at 12:18 pm, Apr 26, 2021

APPROVED Montgomery County Historic Preservation Commission

UM V



CEDAR SHINGLE ROOF ON 30 LB ROOFING FELT WITH ICE AND WATER GUARD AT VALLEYS AND EAVES ON 5/8" PLYWOOD SHEATHING -PTD WOOD TRIM

ROOF FRAMING PER STRUCTURAL WITH R-49 SPRAY FOAM INSULATION Attic · · \_\_\_ · \_\_ 

2X6 STUD WALL WITH R-21 SPRAY FOAM INSULATION AND 1/2" -PLYWOOD SHEATHING, HOUSEWRAP, AND STAINED CEDAR SHINGLES. 1/2" DRYWALL AT INTERIOR

—PTD WOOD TRIM - PTD WOOD PORTICO

-R-19 INSULATION AT OVERHANG

—PTD WOOD BANDBOARD 

Basement Ceiling

-BRICK VENEER ABOVE GRADE 

-FOUNDATION WALL PER STRUCTURAL

\_\_\_2X4 INTERIOR FURRING WITH R-13 SPRAY FOAM INSULATION DRAINAGE MAT, DAMP PROOFING, AND DRAIN TILE WITH GRAVEL BACKFILL

- - 10'-4" Basement

-

CONCRETE SLAB PER STRUCTURAL ON —8MM VAPOR BARRIER OVER 2'' R-10 RIGID INSULATION AND 4" GRAVEL





> APPROVED Montgomery County Historic Preservation Commission

MMK H.

TYPICA	I CONSTRUCTION NOTES		
<u>1. TYP. R</u>	DOF/CEILING CONSTRUCTION		
CEDAR SH/ GUARD AT PLYWOOD 49 OPEN C	AKE ROOFING ON 30 LB ROOFING FELT WITH ICE AND WATER VALLEYS, EAVE, AND ALL SLOPES LESS THAN 4:12 ON 5/8" WITH "H" CLIPS. SEE FRAMING PLANS FOR RAFTER SIZE/SPACING. R- ELL SPRAY FOAM INSULATION.		
<u>2. TYP. EX</u> STAINED CI EQUIVALEN FOAM INSU HEIGHT.	TERIOR WALL CONSTRUCTION EDAR SHINGLES ON 1/2" EXTERIOR SHEATHING WITH TYPAR OR IT HOUSEWRAP. 2X6 STUD WALL WITH R-21 OPEN CELL SPRAY ILATION UNDER 1/2" GYP. BOARD. PROVIDE BLOCKING AT HALF		
<u>3A. TYP. F</u> 3/4" T&G P AND NAILE	LOOR CONSTRUCTION LYWOOD SUBFLOOR ADVANTECH OR APPROVED EQUAL (GLUED D) WOOD "I" JOIST WITH 1/2" GYP (SEE FRAMING PLANS FOR SIZE		
AND SPAC CANTILEVE <u>3B. TYP. F</u>	ING) R-21 @ PERIMETER BLOCKING AND R-19 AT RS/OVERHANGS. EXTERIOR DECK CONSTRUCTION	L S	
5/4 X 6 IPE 4. TYP. FC	on p.t. lumber (see framing plans for size/spacing). DUNDATION WALL AT BASEMENT		
CONCRETE WATERPRC INSULATION	FOUNDATION WALLS PER STRUCTURAL W/ EXTERIOR CEMENT OF COATING & 2X4 INTERIOR FURRING WITH R-13 SPRAY FOAM N.		≥ ≂
<u>5</u> A. TYP. : 4" CONCRI	SLAB ON GRADE CONSTRUCTION ETE SLAB PER STRUCTURAL ON 8MM POLY VAPOR BARRIER ON 2'' 3-	K C	
10 RIGID IN <u>6. TYP. IN</u>	SULATION ON 4" CRUSHED AGGREGATE ON UNDISTURBED SOIL.	Ш	2 BL/ 2 20 5 8 3 00 K E
1/2" GYPSL (U.N.O) PRI BOARD) AT CALLED OU	IM WALL BOARD ON 2X4 OR 2X6 STUDS (SEE PLANS) @ 16" O.C. ESSURE TREATED SILL AT BASEMENT, MOISTURE RESISTANT (GREEN TALL BATHROOMS, LAUNDRY ROOMS AND ADDITIONAL AREAS JT ON PLANS.		N DO 86.0
			CAR 1GTO 2.68 DMS0
		ۍ ا	SHIN SHIN 20 20 V.THO
		Z	
		V S C	
			OF MARLING
			SCHITEC INT
			vy Ch III SET
		2	PERM PERM
			irke St
			Vest K
			6
		Professional	Certification: I certify that these
		documents w and that I am laws of the St 17073,	ere prepared or approved by me, a duly licensed architect under the tate of Maryland, License number expiration date 09-04-2021
		1	Wall Sections
		11/18/2020	SD Meeting
		12/10/2020	SD Meeting SD Meeting
	NOTE:	03/04/2021	Permit Coordination Permit Set
	SEE EXTERIOR ELEVATIONS FOR WINDOW & DOOR HEIGHTS		
	NOTE: SEE TABLE 1 ON SHEET 0002 FOR ALL INSULATION AND U- FACTORS FOR MATERIALS AND LOCATIONS TO BE INSTALLED.		
	SEE TABLE 2 ON SHEET 0002 FOR ALL FENESTRATION U FACTORS FOR ALL GLAZING FOR EACH WINDOW AND DOOR TO BE INSTALLED.		
	AIR SEALING NOTES:		
	GLUE DRYWALL TO TOP PLATE OF WALL GLUE SHEATHING TO TOP AND BOTTOM PLATE OF WALL GLUE SHEATHING TO SILL PLATE		A 3 0 0
	INSTALL SILL PLATE ON SILL GASKEI SEAL ALL SEAMS ON EXTERIOR SHEATHING		

SEAL ALL SEAMS ON EXTERIOR SHEATHING SEE TABLE 3 ON SHEET 0002 FOR ADD'L AIR SEALING NOTES







MAN



![](_page_21_Figure_0.jpeg)

Basement Electrical Plan  $\frac{1}{4''} = \frac{1}{0''}$ 

![](_page_21_Figure_2.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_22_Figure_2.jpeg)

	lotes				
ACCORDANCE	ONTRACTOR SI WITH THE NATIC	HALL SIZE AND ARRANGE ALL CIRCUITS IN DNAL ELECTRIC CODE AS WELL AS ALL			
2. WALL OUTLETS	S ARE TO MOUI	NTED 1'-6" ABOVE FINISHED FLOOR UNLESS			
3. SWITCHES ARE	E TO BE MOUN	"ED 4'-0" ABOVE FINISHED FLOOR UNLESS			
NOTED OTHERWI	se S at Wainsco	T AND WALL PANEL FINISH ROOMS SHALL			
BE LOCATED IN B	eights are to	BE VERTICAL CENTER OF THE EQUIPMENT			
	ELEVATION OF				
PRIOR TO INSTAL	LATION	TILES ARE TO BE AFFROVED BT OWNER	S		
7. provide har Battery Backuf Amendments	DWIRED INTER® PER IRC SECTI	CONNECTED SMOKE DETECTORS W/ ON R313 & LOCAL JURISDICTION			
8. ALL INTERIOR EXCEPTIO EXCEPTIO	LIGHTS SHALL F ON: ALL BATHR ON: ALL CLOSE	IAVE DIMMERS OOM FIXTURES UNO. IT FIXTURES UNO	ΙΤΕ		
9. ALL PHONE/ D		NS TO BE UNDER 1 COMMON FACEPLATE		≥ z	() ()
to. electrician Boxes) prior to To meet to revi	I TO LOCATE A ) RUNNING WIF EW LOCATION	ll fixtures, switches, outlets (blue Ring, owner, electrician & architect S.	R		
	k for 100lbs p	ENDANT FIXTURE AT ALL PENDANT		Ē	
12. ALL BEDROO	ms and living	S SPACES TO BE ARC-FAULT PROTECTED.	K K	L R	
Dimming C	Controls			R T H	
HI-LUME 1% 2W-9 LDE1-96W24V-E	6W 24V CONSTAN	NT VOLTAGE DRIVER		A C A	NG1 NG1 MG
Electrical S	ymbols		Co	Σ	SHI 2 2 0 7 1
	SURFACE/ PE	NDANT LIGHT FIXTURE	Z	വ വ —	A W
-0	WALL LIGHT F	IXTURE (SCONCE)	$\bigcirc$	വ	\$
	RECESSED LIC	SHT	M N		
6	WALL MOUNTE	D STEP LIGHT			
	WATERPROO	F RECESSED FIXTURE			
	HUMIDITY SFN			MIL	OF MAR LIN
	UNDER-CABIN			S ZAY	HONEY
TEL CTV CAT5	TELEPHONE, C	CABLE, ETHERNET JACK		111111	
<u>▼</u> ▼	WALL RECEPT	ACLE, DUPLEX/QUAD/220			ACHITECT
$\bigcirc \oplus$	FLOOR RECE	PTACLE, DUPLEX/QUAD		0815	
G A	GFCI RECEPT	ACLE, AFCI RECEPTICLE		AD 2	
\$	SWITCH				cts plic
	SWITCH PATH				r SET ≣ Archite
	CEILING FAN			e St Chevy	
Light Fixture	e Schedu	le	د د د	t Kirk	Q
DMF Lig DRDH-N DRD4M-	hting Housing -JD Housing 08-9-3W-FL-WH	DMF Lighting Mud-In Trim DRD2T-R-JD-P-WH-FL Trim DRDHX-MUD-FL		9 Wes	
MP DMF Lig DRDH-N DRD2X-0	hting Housing -JD Housing 08-9-3W-FL-WH	DMF Lighting Mud-In Trim DRD2T-R-JD-P-WH-FL Trim DRDHX-MUD-FL	Professiona documents w and that I am	l Certification: l vere prepared a a duly licensec	certify that these or approved by m l architect under t
Electrical P	lan Notes	<u> </u>	laws of the S 17073	tate of Marylar , expiration dat	nd, License numbe e 09-04-2021
		DR REFRIGERATOR	A	Attic Election	rical
	et for dishwas	HER	11/19/2020	· 1011	Maatina
	LET BELOW SINK FO	OR GARBAGE DISPOSAL	12/10/2020	SD	Meeting
	CATED OUTLET FO	DR WASHER/ DRYER	1/07/2021 03/04/2021	SD Permit	Meeting Coordination
	CATED OUTLET FO	DR RANGE/ OVEN	04/02/2021	Pe	ermit Set

E001

![](_page_23_Picture_0.jpeg)

Warm Dim Option 
 DRD4M
 Module
 08
 800 lm
 9
 93+ CRI
 3W
 3000K - 1800K
 SP
 Spot

dmi

HOUSING

MODULE

PRODUCT BUILDER

PRODUCT CODE APPLICATION

PRODUCT CODE LUMENS CRI

APERTURE

CCT

30 3000K

35 3500K

40 4000K

 DRDH
 Housing
 N
 New Construction
 JD
 Deep Junction Box

DRD4M Module 07 750 lm 9 90+ CRI 27 2700K

10 1000 lm

TRIM											
PRODUCT	CODE	SH	IAPE	APE	RTURE	ST	YLE	FINIS	н	OPTION	
DRD2T	Trim	R	Round	JD	Deep Junction Box	S	Standard	WH	White	[Blank]	None
						н	Hyperbolic <sup>1</sup>	вк	Black	FL	Flangeless <sup>1,2</sup>
						Ρ	Pinhole <sup>1</sup>	SW	Silver Reflector w/ White Flange		
						В	Beveled Pinhole1	СС	Custom Color		
DRDHX-I	MUD-FL	F	langeless Mu	id Plate	e (Required for Flangeless Trim	ı)			<sup>1</sup> Only available in <sup>2</sup> Requires DRDH)	White or Custo	om Color finish

ADDITIONAL ACCESSORIES DRD4X-HL Hexcell Louver DRD4X-LL Linear Spread Lens DRD4X-OP Optics Kit (SP, NF, FL)

DMF LIGHTING 1118 E. 223rd St. Carson, CA 90745 800.441.4422 dmflighting.com © 2019 DMF Lighting. All Rights Reserved. Specifications subject to change without notice. See website for U.S. and international patent information.

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Page 6 of 11

### DRD4 & OneFrame Adjustable Recessed LED Downlight New Construction DRDHNJD Deep Junction Box

SPECIALTY LENS OPTION OPTICS FINISH SP Spot [Blank] Black [Blank] None 
 NF
 Narrow Flood
 W
 White
 H
 Hexcell Louver
 FL Flood Linear Spread Lens L [Blank] Black [Blank] None NF Narrow Flood W White L Linear Spread Lens FL Flood

Page 2 of 11

![](_page_23_Picture_9.jpeg)

HOUSING

![](_page_23_Figure_11.jpeg)

![](_page_23_Figure_12.jpeg)

![](_page_23_Picture_13.jpeg)

### DRD4 & OneFrame

Adjustable Recessed LED Downlight New Construction DRDHNJD Deep Junction Box

### OneFrame New Construction Deep Junction Box

DRDHNJD

### SUMMARY

JUNCTION BOX: Equipped with (8) trade size knockouts (four concentric side ( $\frac{3}{4}$ " +  $\frac{1}{2}$ "), two concentric top ( $\frac{3}{4}$ " +  $\frac{1}{2}$ "), two  $\frac{1}{2}$ " top) and (4) Romex knockouts (top) to allow straight conduit runs. Approved for 8 (four in, four out) #12 AWG 70°C. **MOUNTING:** Pre-installed mounting brackets allow vertical

adjustment of bar hangers up to 1". CEILING: 1/2" up to 1 3/4"

CUTOUT: 4 1/4" (108mm) octagonal opening

LISTINGS: Metallic outlet box certified UL514A, code compliant for use in appropriate fire-rated assemblies for up to 2-hours, STC/IIC Sound Rated, ASTM E283 certified Air Tight, IC (Insulation Contact) rated

WARRANTY: 5 year limited warranty

![](_page_23_Picture_24.jpeg)

![](_page_23_Picture_25.jpeg)

![](_page_23_Picture_26.jpeg)

![](_page_23_Picture_27.jpeg)

DMF LIGHTING 1118 E. 223rd St. Carson, CA 90745 800.441.4422 dmflighting.com

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REVIEWED By Michael Kyne at 12:18 pm, Apr 26, 2021

![](_page_23_Figure_29.jpeg)

eFrame Downlight	dmf	DRD4 & OneFrame Adjustable Recessed LED Downlight		
onstruction unction Box	MODULE	New Construction DRDHNJD Deep Junction Box		
		DRD4 Adjustable LED Module		
		DRD4M		
uts (four	P	SUMMARY LED: Cree® LED		
"), two ½" onduit runs.		DELIVERED LUMENS (w Trim): 750 lm (9.7W), 1000 lm (12.0W) EFFICACY: 82 lm/W		
ertical		COLOR QUALITY: 90+ CRI, 2-step SDCM		
	[Jak]	OPTICS: Spot (20°), Narrow Flood (30°), Flood (40°)	$\bigcirc$	
compliant 2-hours.		CENTER BEAM CANDLEPOWER: 7100cd (Spot 1000 lm)		
IC	2 <sup>3</sup> / <sub>6</sub> " (60mm)	CONNECTOR: PowerPlug <sup>®</sup> Luminaire Disconnect Model 182 DIMMING: Down to less than 5% for TRIAC/ELV at 120V	Ĩ	≥ 7 .0 Σ
		INPUT VOLTAGE: 120/277V, 50/60Hz MAX INPUT CURRENT (120V): 0.090 amps, 0.107 amps	K C	
		MAX INPUT CURRENT (277V): 0.042 amps, 0.050 amps POWER FACTOR: Greater than 0.9	$\triangleleft$	ВLV 20 83 7КЕ
		TOTAL HARMONIC DISTORTION: Less than 20% AMBIENT OPERATING TEMPERATURE: -20°C to 40°C		COC COC
	37/8" (98mm)	PHOTOMETRIC TESTING: Tested in accordance to IESNA LM-79-2008		86.
		UL Listed for Damp Location, cULus Listed LIFETIME: 50,000 hours at 70% lumen maintenance		CAR GTO Car GTO Car Co Car Car Car Car Car Car Car Car Car Car
		WARRANTY: 5 year limited warranty		MA0 201
				× γ Ω
		<ul> <li>WARM DIM OPTION</li> <li>LED: Bridgelux LED, DELIVERED LUMENS (w Trim): 800 lm (12.0W),</li> </ul>		
		EFFICACY: 66 lm/W, COLOR QUALITY: 93+ CRI, CCT RANGE: 3000K - 1800K, CENTER BEAM CANDLEPOWER: 5800cd (Spot), MAX INPUT	1 S	
		CURRENT (120V): 0.11 amps, MAX INPUT CURRENT (277V): 0.047 amps		
			Ц Ц Ц	
		MANUFACTURED RECESSED LIGHT ENCLOSURE ATTIC INSULATION CONTROL OF A TO A	Harrison Residence	9 West Kirke St Chevy Chase MD 20 PERMIT SET © THOMSON&COOKE Architects plic
<b>]</b> <u>R</u> e	ecessed Light	Air Sealing Detail	Professional documents we and that I am a laws of the Sto 17073, e	Certification: I certify that these re prepared or approved by me, duly licensed architect under the ate of Maryland, License number expiration date 09-04-2021
			Ele	ectrical Notes
			11/18/2020	SD Meeting
			12/10/2020 1/07/2021	SD Meeting SD Meeting
			03/04/2021	Permit Coordination Permit Set
				-
			F	-002
				.002

# HARRISON RESIDENCE

### BUILDING STRUCTURAL LOADING

- A. ROOF LIVE LOAD
- 1. Pg = 30 PSF
- 2. Pf = 21 PSF + DRIFTING, MIN ROOF DESIGN LOAD = 30 PSF
- 3. Ce = 1.0
- 4. ls = 1.0 5. Cs = 1.0
- B. FLOOR LIVE LOAD
- 1. DWELLING AREAS = 40 PSF
- C. WIND LOAD
- 1. V<sub>LILT</sub> (3-second gust) = 115 MPH
- 2. V<sub>ASD</sub> (3-second gust) = 89 MPH
- 3. lw = 1.0
- EXPOSURE = B
- D. SEISMIC LOAD 1. LATERAL FORCE SYSTEM: BRACED WOOD PANELS
- SEISMIC USE GROUP = I
- 3. SITE CLASS = D
- 4. NO DESIGN REQUIRED PER IRC/R301.2.2
- E. CODE: THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2015 INTERNATIONAL RESIDENTIAL CODE.
- F. ASSUMED EARTH PRESSURES
- 1. P AT REST = 60H
- 2. P ACTIVE = 45H
- 3. P PASSIVE = 300H
- G. DEAD LOADS
- 1. ROOF = 15 PSF
- 2. TYPICAL FLOORS = 12 PSF
- 3. COUNTERTOPS = 16 PSF

4. TILE FLOORS = 20 PSF

### DIVISION 03 - CONCRETE

- A. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301, ACI 318 AND ACI 302.
- B. CEMENT SHALL COMPLY WITH ASTM C150, TYPE I OR II. C. REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60. ALL REINFORCEMENT SPLICES SHALL BE A MINIMUM OF 40 BAR DIAMETERS.
- D. CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH F'c = 3000 PSI FOR FOOTINGS AND FOUNDATION WALLS. F'c = 3500 PSF FOR EXTERIOR EXPOSED SLABS/STEPS AND FOUNDATIONS WALLS.
- PROVIDE 6x6-W1.4xW1.4 W.W.F. IN ALL SLAB-ON-GRADE. ALL WIRE FABRIC SHALL CONFORM TO ASTM A185. ALL MESH EDGES SHALL LAP A MINIMUM OF TWO (2) SQUARES.
- F. CONCRETE SLUMP SHALL = 4" + 1".
- G. MINIMUM CONCRETE COVER BETWEEN FACE OF REINFORCING BAR AND FACE OF CONCRETE SHALL BE AS FOLLOWS:
- 1. CONCRETE CAST AGAINST EARTH = 3" 2. FORMED CONCRETE EXPOSED TO WEATHER OR EARTH = 2"
- H. ALL SLABS AND FOUNDATION WALLS EXPOSED TO WEATHER SHALL HAVE A MINIMUM AIR ENTRAINMENT OF 6% <u>+</u> 1.5% PER ACI- 318 4.2.1.
- I. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS WITH SIZE AND SPACING TO MATCH HORIZONTAL WALL REINFORCEMENT.
- J. GROUT SHALL BE NON-SHRINKABLE. NON-METALLIC CONFORMING TO ASTM C1107. AND SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5.000 PSI. PREGROUTING OF BASE PLATES SHALL NOT BE PERMITTED.
- K. PROVIDE VAPOR BARRIER OVER A 4-INCH LAYER OF GRAVEL BENEATH ALL SLAB-ON-GRADE.
- L. ALL VERTICAL WALL REINFORCEMENT INTERRUPTED BY WALL OPENINGS SHALL BE PLACED IMMEDIATELY ADJACENT TO EACH OF THE OPENINGS.
- M. PROVIDE DOWELS WITH STANDARD BAR HOOK IN FOOTING TO MATCH DIAMETER AND SPACING OF VERTICAL REINFORCEMENT. MINIMUM SPLICE LENGTH = 40x BAR DIAMETER.

### **DIVISION 04 - MASONRY**

- A. ALL HOLLOW CONCRETE MASONRY UNITS SHALL BE MID-WEIGHT AND CONFORM TO ASTM C90 TYPE I HAVING A MINIMUM NET UNIT AREA COMPRESSIVE STRENGTH OF 2800 PSI AND A NET MASONRY COMPRESSIVE STRENGTH OF F'm = 2000 PSI IN ACCORDANCE WITH THE UNIT STRENGTH METHOD.
- B. ALL FACE BRICK MASONRY UNITS SHALL CONFORM TO ASTM C216 AND C652, GRADE MW OR SW, TYPE FBS, FBX, OR FBA. WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH = 2000 PSI IN ACCORDANCE WITH THE UNIT STRENGTH METHOD.
- C. GALVANIZED HORIZONTAL JOINT REINFORCEMENT SHALL BE 9 GA. MINIMUM, PLACED IMMEDIATELY ABOVE AND BELOW ALL OPENINGS AND AT 16" O.C. VERTICALLY. REINFORCEMENT SHALL BE LADDER TYPE, AND WHERE SPLICED, SHALL LAP A MINIMUM OF 6". REINFORCEMENT SHALL CONFORM TO ASTM A-82 AND ASTM A153, CLASS B2, HOT DIP GALVANIZED (1.5 OZ./SF)
- D. MASONRY MORTAR SHALL BE ASTM C270 TYPE S FOR HOLLOW CMU WALLS AND TYPE N FOR VENEER WALLS. PORTLAND CEMENT/LIME SHALL BE USED FOR ALL CMU WALLS.
- E. ALL MASONRY CELLS BELOW GRADE AND/OR CONTAINING BOLTS OR REINFORCEMENT SHALL BE FILLED WITH COARSE GROUT PER ASTM C476, AGGREGATE PER ASTM C404.
- F. PROVIDE TWO (2) COURSES OF SOLID CMU PER ASTM C 90 OR GROUT-FILLED CMU BENEATH ALL BEAM, POSTS AND HEADER BEARING POINTS.
- G. PROVIDE DOWELS WITH STANDARD BAR HOOK IN FOOTING TO MATCH DIAMETER AND SPACING OF VERTICAL REINFORCEMENT. MINIMUM SPLICE LENGTH = 40x BAR DIAMETER. SPLICES FOR VERTICAL REINFORCEMENT SHALL BE LAPPED 48-BAR DIAMETERS.
- H. BRICK TIES SHALL BE ATTACHED TO ALL BRICK VENEER SPACED AT 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY (MAXIMUM). CORRUGATED TIES ARE PROHIBITED FOR WALLS WITH CAVITIES OVER 1". TIES SHALL EXTEND 3" INTO BRICK AND/OR CMU.
- I. TIE MATERIAL SHALL CONFORM TO ASTM A366 AND ASTM A153, CLASS B2, HOT DIP GALVANIZED (1.5 OZ/SF.) STEEL WIRE SHALL CONFORM TO ASTM A82.
- J. ALL MASONRY WORK SHALL BE IN CONFORMANCE WITH THE "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1-02/ASCE 6-02/TMS 602-02.

K. ALL CMU GROUT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH

### **DIVISION 05 - METALS**

- A. ALL STRUCTURAL STEEL SHALL BE ASTM FABRICATED AND EREC WITH AISC "STEEL CONSTRUCTION MANUAL" WITH A MINIMUM FOLLOWS:
- 1. W SHAPES: Fy = 50 ksi, PER ASTM A992.
- 2. PLATES & ANGLES: Fy = 36 ksi PER ASTM A36.
- 3. HSS SHAPES: Fy = 50 ksi PER ASTM A500 GRADE C.
- 4. ANCHOR RODS: Fy = 36 ksi, PER ASTM F1554 GRADE A36. 5. BOLTS: Ft = 20 ksi, PER ASTM A307, U.N.O.
- B. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE "ST
- CODE" AWS D1.1-2006. USE 70 KSI, LOW-HYDROGEN ELECTRODES. C. NO OPENINGS IN BEAMS OR COLUMNS ARE PERMITTED WITH
- ENGINEER'S APPROVAL. D. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILE DOCUMENTS IS PROHIBITED WITHOUT PRIOR APPROVAL OF ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO
- E. ALL MISCELLANEOUS STEEL CONNECTIONS SHALL BE WELDED ONE-QUARTER-INCH FILLET WELD UNLESS OTHERWISE NOTED, EX CONNECTIONS.
- F. PROVIDE A MINIMUM BEARING LENGTH OF 6" FOR ALL BEAMS SUPPO
- G. ALL WORK SHALL COMPLY WITH THE AISC CODE "CODE OF STAN STEEL BUILDINGS AND BRIDGES."

#### DIVISION 06 - WOOD

- A. ALL JOISTS, BEAMS AND POSTS SHALL BE SPRUCE-PINE-FIR NO. DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", NFPA. AI SPRUCE-PINE-FIR STUD-GRADE. ALL WOOD MEMBERS SHALL BE COMPLY WITH PS20 OF "AMERICAN SOFTWOOD LUMBER STANDARI 19% MAXIMUM MOISTURE CONTENT.
- MINIMUM MEMBER PROPERTIES SHALL BE AS FOLLOWS:
- 1. WOOD LINTELS, JOISTS AND BEAMS a) FLEXURE: Fb = 875 PSI
- b) SHEAR: Fv = 135 PSI
- c) MODULUS OF ELASTICITY = 1,400,000 PSI
- 2. 6x6 POSTS (SYP P.T.)
- a) COMPRESSION PARALLEL: Fc" = 525 PSI
- b) MODULUS OF ELASTICITY: E = 1,200,000 PSI
- 3. WALL STUDS: STUD GRADE
- a) FLEXURE: Fb = 675 PSI b) COMPRESSION PARALLEL: Fc" = 725 PSI
- c) MODULUS OF ELASTICITY = 1,200,000 PSI
- B. ALL FRAMING EXPOSED TO WEATHER OR DESIGNATED "P.T." TREATED SOUTHERN PINE NO.2 PER "NATIONAL DESIGN SPECIF CONSTRUCTION", NFPA. ALL WOOD MEMBERS SHALL BE MANUFA WITH PS20 OF "AMERICAN SOFTWOOD LUMBER STANDARDS". PROPERTIES SHALL BE IN ACCORDANCE WITH TABLE 4B IN THE SPECIFICATION FOR WOOD CONSTRUCTION." PRESSURE TREATE "PT", SHALL BE PROVIDED WHEN:
- 1. WOOD JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FL 18-INCHES TO GRADE OR WHEN A WOOD GIRDER/BEAM IS CLO TO GRADE IN EXPOSED CRAWL SPACES OR UNEXCAVATE WITHIN THE PERIPHERY OF THE BUILDING.
- 2. WOOD FRAMING MEMBERS REST ON A CONCRETE OR FOUNDATION WALL AND ARE LESS THAN 8-INCHES ABOVE THE GRADE.
- 3. SILL AND SLEEPERS ARE ON A CONCRETE OR MASONRY SLA CONTACT WITH THE GROUND UNLESS SEPARATED FROM IMPERVIOUS MOISTURE BARRIER.
- 4. THE ENDS OF A WOOD GIRDER/BEAM ENTER AN EXTE CONCRETE WALL AND HAS A CLEARANCE WITH THE EXTERIO LESS THAN ½-INCH.
- 5. WOOD SIDING, SHEATHING AND WALL FRAMING IN THE EXTE HAVING A CLEARANCE OF LESS THAN 6-INCHES FROM THE GR 2-INCHES MEASURED VERTICALLY FROM CONCRETE STEPS, SLABS OR SIMILAR HORIZONTAL SURFACES EXPOSED TO THE
- 6. WOOD STRUCTURAL MEMBERS SUPPORT MOISTURE PERM ROOFS THAT ARE EXPOSED TO WEATHER, SUCH AS CONC SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS MOISTURE BARRIER.
- C. ALL EXTERIOR WALL STUDS ARE TO BE 2x6'S SPACED AT 16" DOUBLE STUDS AT END OF WALLS AND TRIPLE STUDS AT CORNERS. ALL BUILT UP STUD CORNERS AND INTERSECTIONS TOGETHER WITH 10d NAILS AT 12" O.C.
- D. ROOF SHEATHING SHALL BE 5/8-INCH, CDX, APA STRUCTURAL EXPOSURE I, PER THE "AMERICAN PLYWOOD ASSOCIATION." S FASTENED WITH 8d NAILS AT 6-INCHES ON CENTER AT BOUNDARY I 12-INCHES ON CENTER AT ALL INTERMEDIATE SUPPORTS.
- E. WALL SHEATHING SHALL BE 1/2-INCH, CDX, APA STRUCTURAL EXPOSURE I, PER THE "AMERICAN PLYWOOD ASSOCIATION." SH FASTENED WITH 8d NAILS AT 6-INCHES ON CENTER AT PANEL EDGE ON CENTER AT ALL INTERMEDIATE SUPPORTS.
- F. ALL PLYWOOD SUBFLOORING SHALL BE 3/4-INCH THICK T&G SHEATHING OR STURD-I-FLOOR 24 OC RATED. SHEATHING SHA SUB-FLOOR ADHESIVE AND BE FASTENED WITH 8d NAILS AT 6-INC BOUNDARY PANEL EDGES AND AT 12-INCHES ON CENTER AT SUPPORTS.
- G. ALL BUILT UP WOOD POSTS SHALL BE FASTENED TOGETHER WITH EACH PLY. ROWS OF NAILS SHALL BE STAGGERED ON EACH SIDE.
- H. 1<sup>3</sup>/<sub>4</sub>-INCH LAMINATED VENEER LUMBER (L.V.L.) SHALL BE INSTALLED THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM MEMBER PI AS FOLLOWS:
- 1. FLEXURE: Fb = 2,600 PSI
- 2. SHEAR: Fv = 285 PSI
- 3. MODULUS OF ELASTICITY: E = 2,000,000 PSI CONTRACTOR SHALL PROVIDE MANUFACTURER'S PRODUCT SHEET
- I. 11/2-INCH LAMINATED STRAND VENEER LUMBER (L.S.L.) SHALL

- ENGINEER FOR ALL LVL BEAMS

OF 2000 PSI.	FASTENED PER THE MANUFACTURER'S RE PROPERTIES SHALL BE AS FOLLOWS:	COMMENDATIONS. MINIMUM MEMBER	X. PROVIDE (2) SIMPS
	1. FLEXURE: Fb = 1,700 PSI		Y. ALL ROOF SHEATH
	<ol> <li>SHEAR: Fv = 425 PSI</li> <li>MODULUS OF ELASTICITY: E = 1,300,000 PS</li> </ol>	SI	ROOF.
TED IN ACCORDANCE		R'S PRODUCT SHEETS FOR APPROVAL BY	DIVISION 31 - EARTHWORK
HELD STRENGTH AS	J. RIM BOARDS SHALL BE LSL MATERIAL ONLY.		A. ALLOWABLE SOIL B
	K. PARALLEL STRAND LUMBER (P.S.L.) SHALL E MANUFACTURER'S RECOMMENDATIONS. MINII FOLLOWS FOR P.S.L. POSTS <sup>1</sup>	BE INSTALLED AND FASTENED PER THE MUM MEMBER PROPERTIES SHALL BE AS	2000 PSF. SHOULD OVEREXCAVATED A ALL EXTERIOR FO
	1. FLEXURE: Fb = 2400 PSI		B. ALL FILL MATERIAL
TRUCTURAL WELDING	<ol> <li>COMPRESSION: Fc = 2500 PSI</li> <li>MODULUS OF ELASTICITY: E = 1,800,000 PSI</li> </ol>		THE BASIS OF LABO 40, A PLASTICITY IN LIFTS AND COMPA
IOUT STRUCTURAL	ENGINEER FOR ALL PSL POSTS AND BEAMS	R 3 FRODUCT SHEETS FOR AFFROVAL BT	D1557, MODIFIED PF
D ON THE CONTRACT	L. PROVIDE MIN. 3" BEARING FOR ALL LAMINA BEAMS. NO JOIST OR BEAM BEARING SHALL OC	ATED VENEER AND STANDARD LUMBER CCUR ON MASONRY VENEER WALLS.	EXCAVATION TO PR
F THE STRUCTURAL	M. ALL WOOD TOP PLATE SPLICES SHALL BE STAG	GGERED 4'-0" MINIMUM.	D. PERIMETER DRAIN POLYETHLENE TUE
D ALL AROUND WITH XCEPT FOR SLOTTED	<ul> <li>N. ALL WALL SHEATHING SHALL BE CONTINUOU PLATE OF WALL ABOVE. ALL PLYWOOD PAN BLOCKED AND NAILED.</li> </ul>	JS BETWEEN TOP PLATES AND BOTTOM NELS EDGES SHALL BE CONTINUOUSLY	TUBING SHALL BE STANDARD CONNE
PORTED ON MASONRY.	O. ALL MULTIPLE MEMBERS ARE TO BE FASTENED AND SIMPSON SDWS (STRONG-DRIVE	D TOGETHER WITH THE FOLLOWING NAILS TIMBER SCREWS) USING THE	GENERAL PROVISIONS
IDARD PRACTICE FOR	FASTENER-TO-FASTENER SPACING NOTED W	ITHIN EACH ROW OF FASTENERS. ALL	A. THE CONTRACTOR
	PLIES <u>DEPTH</u> <u>FASTENERS</u> <u>SP</u>	<u>ACING</u> <u>ROWS</u>	SUBMISSION OF SH
	(2)1-1/2" 6"-12" 10d NAILS 12"	0.C. 2	ANY DISCREPANCIE START OF WORK
/NO.2 PER "NATIONAL	(3)1-1/2" 6"-12" 16d NAILS 16" (2)1-3/4" 9"-12" 12d NAILS 16"	0.C. 2* 0.C. 2	DELAYING THE PRC
LL STUDS SHALL BE	(2)1-3/4" 14"-20" 12d NAILS 12"	O.C. 3	B. THE CONTRACTOR SHORING, AS REQU
RDS" AND SHALL HAVE	(3)1-3/4" 9"-12" SDS1/4"x4-1/2" 12"	0.C. 2*	STRUCTURE OR PO
	(3)1-3/4 14 -20 SDS1/4 X4-1/2 12 (4)1-3/4" 14"-20" SDS1/4"x6" 12"	0.C. 3*	C. ALL WALLS ARE DE CONTRACTOR SH
			CONSTRUCTION.
	SIDES WITH THE NUMBER OF ROWS AND FASTE SPACING SHALL ALSO BE STAGGERED.	ENERS SPECIFIED. SIDE-10-SIDE	D. TEMPORARY BRAC BACKFILL. BRACE
	O. PROVIDE SOLID BLOCKING BETWEEN JOISTS AN	ND RAFTERS AT ALL BEARING POINTS.	E. THE DEVELOPMEN
	P. ALL WOOD BEAMS POCKETED INTO MASONRY THE BEAM WRAPPED WITH BUILDING PAPER AN	OR CONCRETE SHALL HAVE THE END OF ND PACKED WITH NON-SHRINK GROUT.	PROCEDURES ARE
	Q. ALL MISCELLANEOUS WOOD CONNECTIONS SI	HALL BE FASTENED PER 2015 IBC, TABLE	BE THE SOLE RESP
	2304.10.1 "FASTENING SCHEDULE."		G. CONTRACTOR SHA
	R. NAILS INDICATED IN THE DRAWINGS, DETAIL FOLLOWS: 8d=0.131"x2.5", 10d=0.148"x SUBSTITUTIONS FOR THESE NAIL SIZES SHA ENGINEER FOR APPROVAL	k3", 12d=0.148"x3.25", 16d=0.162"x3.5". ALL BE SUBMITTED IN WRITING TO THE	RESPONSIBLE FOR SHORING. THE DES SAFETY REQUIREM
IS TO BE PRESSURE	S. DOUBLE JOISTS SHALL BE LOCATED BENEATH	ALL PARTITIONS WHEN THE LENGTH OF	H. THE CONTRACTOR
ACTURED TO COMPLY			1 INSPECTION C
MINIMUM MEMBER E "NATIONAL DESIGN	EXCEPT AT SLOPED MEMBER CONDITIONS:	TO THE FOLLOWING SCHEDULE (U.N.O.),	VERIFY THE AI
ED WOOD MEMBERS	SUPPORTED	HANGER	2. WRITTEN RE COMPLIANCE
OOR IS CLOSER THAN	MEMBER 2x6	LUS26	SPECIFICATIO REGISTERED I
DSER THAN 12-INCHES ED AREAS LOCATED	(2)2x6	LUS26-2	3. INSPECTION
MASONRY EXTERIOR	(3)2x6 2x8	HU26-3	PERCENT COM
E EXPOSED EXTERIOR	2x8 - SLOPED	LRU28	
AB THAT IS IN DIRECT	(2)2x8 - SLOPED & SKEWED	U26-2	
M THE SLAB BY AN	(2)2x10	LUS10-2	
ERIOR MASONRY OR	(2)2x10 - SLOPED	LSSR210-2	
IOR OF THE WALL OF	(2)2x10 - SLOPED & SKEWED (3)2x10 - SLOPED	LSSR210-2	
ERIOR OF A BUILDING	(3)2x10 - SLOPED & SKEWED	U210-3	
PORCH SLABS, PATIO	11-7/8" TJI/560	IUS3.56/11.88	
MEABLE FLOORS OR	(2)1-3/4" x 11-7/8" LVL	HU410	
CRETE OR MASONRY S BY AN IMPERVIOUS	(2)1-3/4" x 11-7/8" LVL (TOP FLANGE)	MIT411.88	
	(3)1-3/4" x 11-7/8" LVL (3)1-3/4" x 11-7/8" LVL (TOP FLANGE)	HU610 HB5.50/11.88	
INTERSECTIONS AND	14" TJI/560	MIU3.56/14	
SHALL BE FASTENED	14" TJI/560 (TOP FLANGE)	MIT414	
I RATED SHEATHING,	(2)1-3/4" x 14" LVL	HGU3.63-SDS	
HEATHING SHALL BE PANEL EDGES AND AT	(2)1-3/4" x 14" LVL (TOP FLANGE)	HGLTV3.514	
	(2)1-3/4" x 14" LVL (CONCEALED FLANGE) (3)1-3/4" x 14" LVL (TOP FLANGE)	HUCQ412-SDS HGI TV5 37 (H=14)	
I RATED SHEATHING, HEATHING SHALL BE	(4)1-3/4" x 14" LVL (TOP FLANGE)	HB7.12/14	
ES AND AT 12-INCHES	SOME HANGERS MAY REQUIRE 16d NAILS - CATALOG FOR REQUIREMENTS. CONTRACTOF SHEETS FOR ALL HANGER SUBSTITUTIONS. AT	- REFER TO THE SIMPSON STRONG-TIE R SHALL PROVIDE MANUFACTURER'S CUT RAFTER LOCATIONS WHERE SLOPES ARE	
ALL BE GLUED WITH	GREAT THAN 14:12, PROVIDE SIMPSON LS90 (EA	A. SIDE) OF RAFTER.	
T ALL INTERMEDIATE	U. WOOD I-JOISTS SHALL HAVE THE FOLLOWING N $11\frac{7}{2}$ " T II/560 = 636 000 000	MINIMUM EI PROPER HES (IN."-LBS.):	
	14" TJI/560 = 926,000,000		
I TUO NAILS AT 12" O.C.	V. WOOD I-JOISTS SHALL MEET THE FOLLOWING D	DEFLECTION CRITERIA:	
	• $\triangle$ FLOOR LIVE LOAD < L/480		
NUTER HES SHALL BE	• $\Delta$ FLOOR LIVE LOAD < $\frac{1}{2}$ -INCH • $\Delta$ FLOOR TOTAL LOAD < 1/360		
	• $\Delta$ ROOF LIVE LOAD < L/360		
	• $\triangle$ ROOF TOTAL LOAD < L/240		
TS FOR APPROVAL BY	<ul> <li>∆ ROOF TOTAL LOAD &lt; L/240</li> <li>@TILE FLOOR: ∆ FLOOR LIVE LOAD &lt;</li> </ul>		
	<ul> <li>∆ ROOF TOTAL LOAD &lt; L/240</li> <li>@TILE FLOOR: ∆ FLOOR LIVE LOAD &lt;</li> <li>W. PROVIDE SIMPSON H2.5A HURRICANE CLIPS F DOUBLE TOP PLATE AT ALL ROOF RAFTER BEAL</li> </ul>	L/720 FASTENED TO THE INSIDE FACE OF THE RING POINTS.	

- SON H2.5A HURRICANE CLIPS FASTENED TO THE INSIDE FACE OF THE E AT ALL ROOF BEAM OR BUILT UP RAFTER BEARING POINT.
- HING SHALL BE LAID CONTINUOUSLY BETWEEN THE EDGES OF THE
- BEARING PRESSURE FOR ALL SHALLOW FOOTINGS IS ASSUMED TO BE \_D UNSUITABLE MATERIAL BE ENCOUNTERED, FOOTINGS SHALL BE AND REPLACED WITH LEAN CONCRETE, F'c = 2000 PSI. BOTTOM OF OOTINGS SHALL BE A MINIMUM OF 2'-6" BELOW EXTERIOR GRADE, THERWISE.
- \_ SHALL BE FREE OF ORGANIC MATERIAL AND SHALL BE SELECTED ON ORATORY COMPACTION TESTS, HAVING A LIQUID LIMIT OF LESS THAN INDEX OF LESS THAN 15. FILL SHALL BE PLACED IN MAXIMUM 8-INCH ACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINED BY ASTM PROCTOR METHOD.
- IES SHALL BE BACKFILLED WITH LEAN CONCRETE IMMEDIATELY UPON PREVENT GROUNDWATER INFILTRATION.
- IN TILE SHALL CONSIST OF 4-INCH DIAMETER CORRUGATED JBING PER ASTM D-405 WITH A MAXIMUM SIZE WIDTH OF 1/4-INCH. E PLACED WITH SLOTS DOWN USING STRAIGHT SECTIONS AND ECTIONS.
- SHALL MEASURE AND PROVIDE ALL EXISTING FIELD DIMENSIONS, CONDITIONS AT THE JOB SITE PRIOR TO CONSTRUCTION AND THE HOP DRAWINGS, AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF IES. VERIFICATION AND NOTIFICATION SHALL PROCEED PRIOR TO THE SO THAT ANY NECESSARY CHANGES CAN BE MADE WITHOUT OJECT SCHEDULE.
- R SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING AND UIRED, TO ENSURE VERTICAL AND LATERAL STABILITY OF THE ENTIRE ORTION THEREOF DURING CONSTRUCTION.
- ESIGNED AS LATERALLY BRACED BY THE FLOOR AND ROOF SYSTEMS. HALL ENSURE THAT WALLS ARE ADEQUATELY BRACED DURING
- CING SHALL BE PROVIDED FOR ALL WALLS SUBJECT TO UNBALANCED WALL PLUMB UNTIL STABILIZING ELEMENT ABOVE IS IN PLACE.
- IT AND IMPLEMENTATION OF JOB SITE SAFETY AND CONSTRUCTION THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- IETHODS OF SAFELY REMOVING ALL EXISTING CONSTRUCTION SHALL PONSIBILITY OF THE CONTRACTOR.
- IALL BE SOLELY RESPONSIBLE FOR ALL TEMPORARY SHORING AND RED FOR DEMOLITION OPERATIONS. CONTRACTOR SHALL BE R THE DESIGN OF AND PROCEDURES FOR THE REQUIRED TEMPORARY ESIGN PROCEDURES SHALL CONFORM TO ALL GOVERNING CODES AND MENTS.
- R SHALL RETAIN THE SERVICES OF AN INSPECTION AGENCY TO LLOWING SERVICES:
- OF SUBGRADE BELOW ALL FOUNDATIONS AND SLAB-ON-GRADE TO ADEQUACY OF THE BEARING MATERIAL. EPORTS SHALL BE SUBMITTED TO THE ARCHITECT STATING
- OR NONCOMPLIANCE WITH DESIGN DOCUMENTS AND ONS. ALL REPORTS SHALL BE SIGNED AND SEALED BY AN ENGINEER IN THE STATE OR DISTRICT IN WHICH THE PROJECT IS LOCATED.
- AND TESTING OF ALL NEW STRUCTURAL FILL WITH REPORTS TO ARCHITECT STATING COMPLIANCE OR NONCOMPLIANCE WITH MPACTION REQUIREMENTS.

S107

S108

S301

WIND BRACING SECTIONS & DETAILS

WIND BRACING SECTIONS & DETAILS

TYPICAL SECTIONS & DETAILS

 $\cup$ -ΖO  $\bigcirc$ 0  $\odot$  $\sim$  $\triangleleft$ n v Ш  $\leq$ REVIEWED  $\bigcirc$ By Michael Kyne at 12:22 pm, Apr 26, 2021 0 0  $\bigcirc$ 0 0  $\bigcirc$ APPROVED 3 Montgomery County Ζ ≤ <sup>Ω</sup> Historic Preservation Commission  $\cap$ S  $\geq$  $\bigcirc$ Δ en esid Ň SON arri T COVER SHEET & DESIGN NOTES 04-02-2021 Permit Set EREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSION ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER: 28194 EXPIRATION DATE: 11/22/2022 SHEET INDEX SHEET DESCRIPTION COVER SHEET & DESIGN NOTES S001 S101 **BASEMENT / FOUNDATION PLAN** S102 FIRST FLOOR FRAMING PLAN & GARAGE FOUNDATION PLAN SECOND FLOOR / LOWER ROOF FRAMING PLAN & GARAGE ROOF FRAMING PLAN S103 S104 ATTIC FLOOR / LOW ROOF FRAMING PLAN ROOF FRAMING PLAN S105 S106 WIND BRACING PLANS & NOTES

S001

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_1.jpeg)

1'-0" WIDE CONCRETE FOUNDATION WALL W/ 8" STEM + 4" LEDGE AT BRICK LOCATIONS, GC SHALL COORD. BRICK EXPOSURE W/ FINAL GRADE, TYP. (PROVIDE #5@12" O.C. VERT. & #5@12" O.C. HORIZ., TYP.) **REVIEWED** By Michael Kyne at 12:22 pm, Apr 26, 2021

> APPROVED Montgomery County Historic Preservation Commission

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S101

![](_page_26_Figure_0.jpeg)

![](_page_26_Figure_1.jpeg)

![](_page_26_Figure_4.jpeg)

> APPROVED Montgomery County **Historic Preservation Commission**

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S102

![](_page_27_Figure_0.jpeg)

1 SECOND FLOOR / LOWER ROOF FRAMING PLAN SCALE: 1/4"=1'-0"

![](_page_27_Figure_2.jpeg)

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

![](_page_27_Figure_6.jpeg)

REVIEWED By Michael Kyne at 12:22 pm, Apr 26, 2021

> APPROVED Montgomery County **Historic Preservation Commission**

> > I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OF APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONA ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER: 28194 EXPIRATION DATE: 11/22/2022

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![](_page_28_Figure_0.jpeg)

1 ATTIC FLOOR / LOW ROOF FRAMING PLAN SCALE: 1/4"=1'-0"

![](_page_28_Figure_2.jpeg)

REVIEWED By Michael Kyne at 12:22 pm, Apr 26, 2021

> APPROVED Montgomery County **Historic Preservation Commission**

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S104

![](_page_29_Figure_0.jpeg)

1 ROOF FRAMING PLAN SCALE: 1/4"=1'-0" **REVIEWED** By Michael Kyne at 12:22 pm, Apr 26, 2021

> APPROVED Montgomery County Historic Preservation Commission

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S105

![](_page_30_Figure_0.jpeg)

![](_page_30_Figure_1.jpeg)

### NOTES FOR WIND BRACING PLANS (DESIGNED PER IRC 2015, SECTION R602.10):

- 2. ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED
- WITH CORNER NAILING PER 1/S107.
- 3. DESIGNATES THE END OF A BRACED WALL LINE.
- ALL BRACED WALL PANELS SHALL BE SECURED TO THE STRUCTURE ABOVE AND BELOW PER DETAILS <u>5 & 6/S107</u>.
- 5. ALL BRACED WALL PANELS ARE 4'-0" LONG, U.N.O.
- 6. HD DESIGNATES THE LOCATION OF A HOLD DOWN DEVICE.

### BRACED WALL LINE CALLOUT KEY:

BWL LABEL
PRESCRIPTIVE BRACING METHOD USED
LENGTH OF BWP REQUIRED
LENGTH OF BWP PROVIDED

- CS-WSP = CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL = GYPSUM BOARD PANEL (DS = DOUBLE SIDED)
- GB = PORTAL FRAME WITH HOLD DOWNS PFH
- = WOOD STRUCTURAL PANEL WSP
- BRACED WALL PANEL CALLOUT KEY:
- 1 = WSP PANEL PER DETAIL <u>2/S107</u>
- 2 = GB-DS PANEL PER DETAIL 3/S107
- 3 = CS-WSP PANEL PER DETAIL 4/S107

![](_page_30_Figure_20.jpeg)

![](_page_30_Figure_21.jpeg)

![](_page_30_Picture_22.jpeg)

APPROVED Montgomery County **Historic Preservation Commission** 

AME Hal

![](_page_30_Figure_24.jpeg)

 $\mathcal{O}$  $\bigcirc$ [\_\_\_\_\_ Z ()  $\bigcirc$ 0 BLVD 2001 C  $\Delta$  $\triangleleft$ Ш O ſĽ  $\leq$ 5 MACAR1. Ashington d 202.686.  $\bigcirc$  $\bigcirc$  $\bigcirc$ CD D A Ζ ≦ ⊇  $\geq$ - $\bigcirc$ D S  $\geq$  $\bigcirc$ ΤH MICHAEL J STANSBURY, S Harrison Residence  $\sim$ MD Ш S  $\circ$  $\geq$ PERMIT 0 St Ξ 5 σ WIND BRACING PLANS & NOTES 04-02-2021 Permit Set S106

![](_page_31_Figure_0.jpeg)

![](_page_32_Figure_0.jpeg)

> APPROVED Montgomery County Historic Preservation Commission

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S108

![](_page_33_Figure_0.jpeg)