



## HISTORIC PRESERVATION COMMISSION

Marc Elrich  
County Executive

Sandra I. Heiler  
Chairman

Date: April 23, 2020

### MEMORANDUM

TO: Hadi Mansouri  
Department of Permitting Services

FROM: Michael Kyne  
Historic Preservation Section  
Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permits #906607: Fence installation & #906608: Roof replacement

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The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached applications for a Historic Area Work Permits (HAWP). The application for Fence installation (906607) was **Approved** at the April 22, 2020 HPC meeting. The application for Roof replacement (906608) was **Approved with one (1) condition** (see below) at the April 22, 2020 HPC meeting.

- 1. The proposed standing seam metal roof must be installed in the traditional manner with hand crimped seams, ridge, and edge details. The roof will not have ridge caps and vents.**

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: Jared Wells  
Address: 23411 Ridge Road, Germantown

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](mailto:michael.kyne@montgomeryplanning.org) to schedule a follow-up site visit.





HISTORIC PRESERVATION COMMISSION  
301/563-3400

# APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Email: jsw1122ecu@gmail.com Contact Person: Jared Wells  
 Daytime Phone No.: 240-813-5501  
 Tax Account No.: \_\_\_\_\_  
 Name of Property Owner: Jared Wells Daytime Phone No.: 240-813-5501  
 Address: 23411 Ridge Rd Germantown MD 20876  
Street Number City State Zip Code  
 Contractor: NA Phone No.: \_\_\_\_\_  
 Contractor Registration No.: \_\_\_\_\_  
 Agent for Owner: \_\_\_\_\_ Daytime Phone No.: \_\_\_\_\_

**LOCATION OF BUILDING/PREMISE**

House Number: 23411 Street: Ridge Rd  
 Town/City: Germantown Nearest Cross Street: Davis Mill Rd  
 Lot: \_\_\_\_\_ Block: \_\_\_\_\_ Subdivision: \_\_\_\_\_  
 Liber: \_\_\_\_\_ Folio: \_\_\_\_\_ Parcel: \_\_\_\_\_

FD9906

**PART ONE: TYPE OF PERMIT ACTION AND USE**

1A. CHECK ALL APPLICABLE:  Construct  Extend  Alter/Renovate  A/C  Slab  Room Addition  Porch  Deck  Shed  
 Move  Install  Wreck/Raze  Solar  Fireplace  Woodburning Stove  Single Family  
 Revision  Repair  Revocable  Fence/Wall (complete Section 4)  Other: \_\_\_\_\_  
 1B. Construction cost estimate: \$ 4,000  
 1C. If this is a revision of a previously approved active permit, see Permit # \_\_\_\_\_

**PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS**

2A. Type of sewage disposal: 01  WSSC 02  Septic 03  Other: \_\_\_\_\_  
 2B. Type of water supply: 01  WSSC 02  Well 03  Other: \_\_\_\_\_

**PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL**

3A. Height 0 feet \_\_\_\_\_ inches  
 3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:  
 On party line/property line  Entirely on land of owner  On public right of way/easement

**REVIEWED**  
 By Michael Kyne at 12:36 pm, Apr 23, 2020

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

APPROVED  
 Montgomery County  
 Historic Preservation Commission  
 Approved: \_\_\_\_\_  
 Disapproved: \_\_\_\_\_  
 Application/Permit No.: \_\_\_\_\_  
 Date Filed: \_\_\_\_\_  
 Date Issued: \_\_\_\_\_  
 Edr. 6/21/99

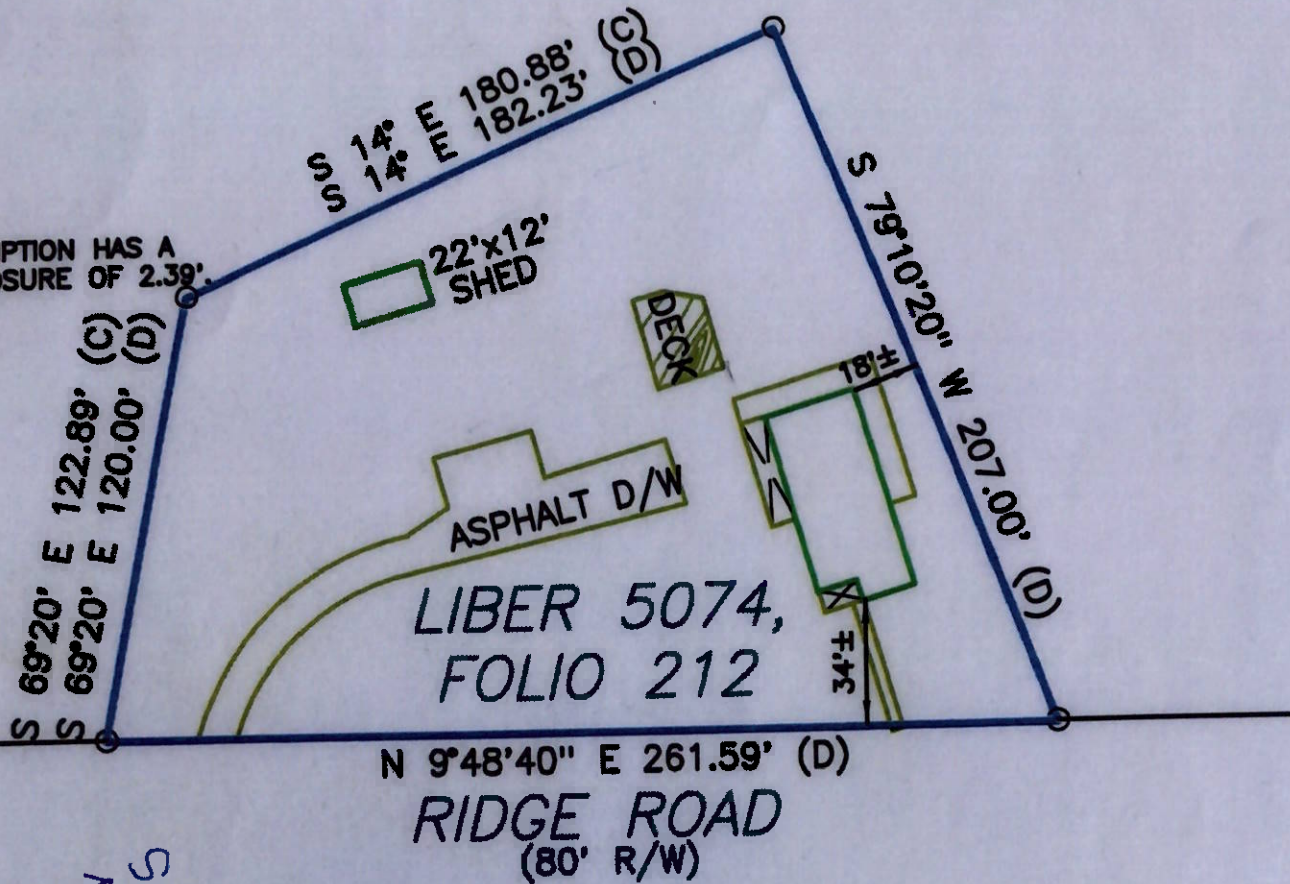
Jsh  
 Signature of owner or authorized agent  
27 Feb 20  
 Date  
 \_\_\_\_\_  
 For Chairperson, Historic Preservation Commission  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**SEE REVERSE SIDE FOR INSTRUCTIONS**

Project II

# SITE PLAN

DESCRIPTION HAS A  
MISCLOSURE OF 2.39'

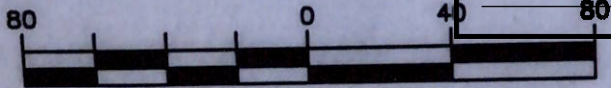


**REVIEWED**

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 Montgomery County  
 Historic Preservation Commission

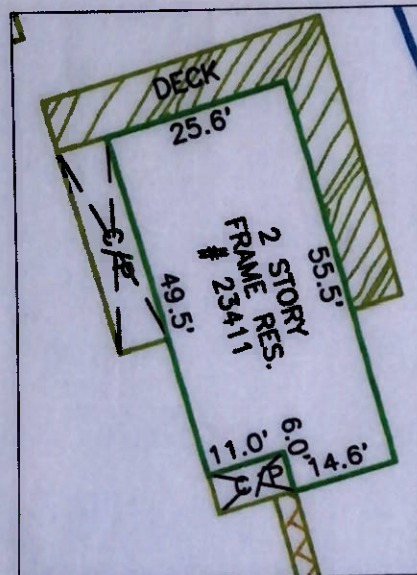
*Sandra L. Heiler*



GRAPHIC SCALE (In Feet)

1 inch = 80' ft.

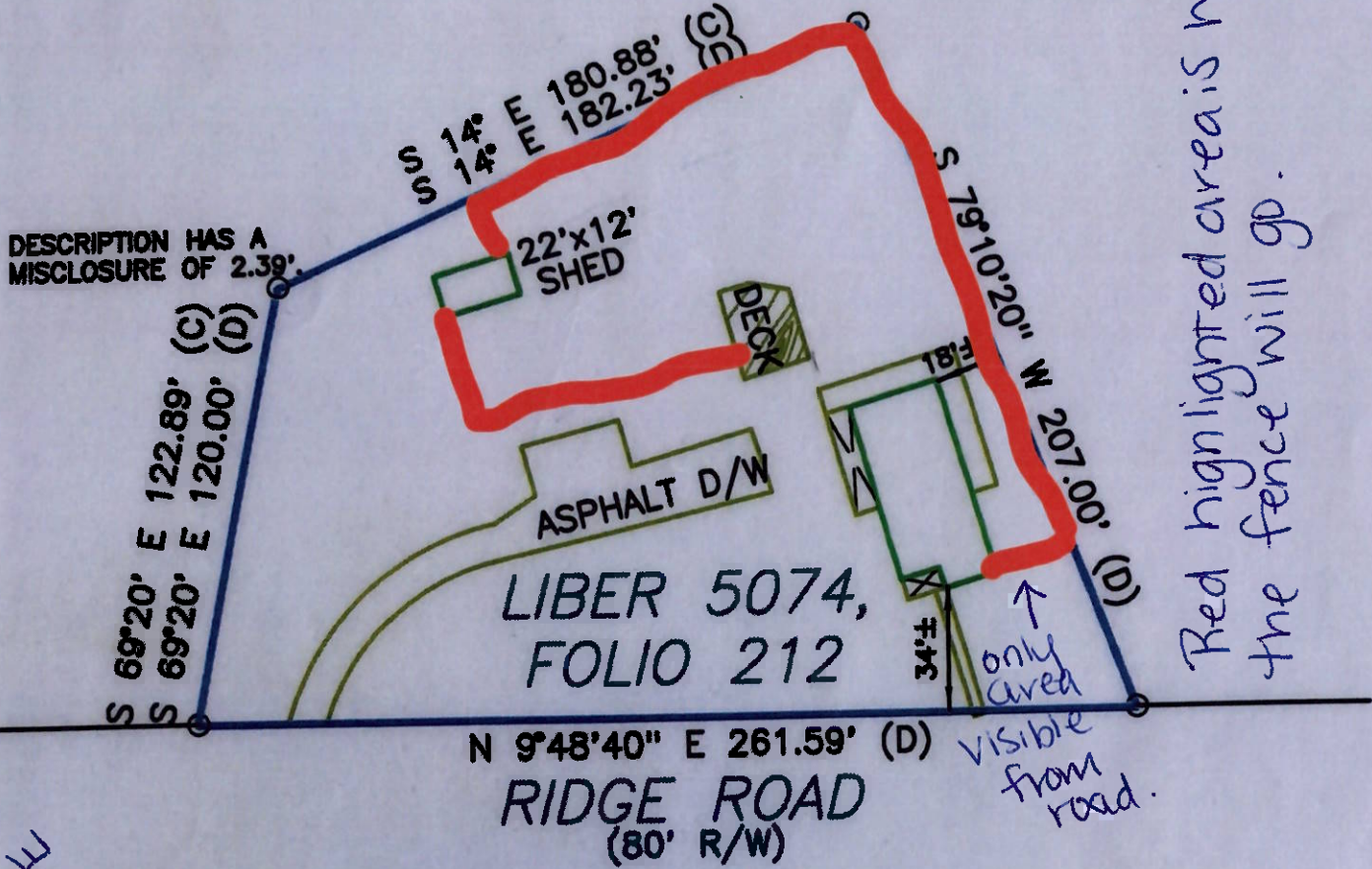
ACCURACY=3'±



SCALE: 1"=40'

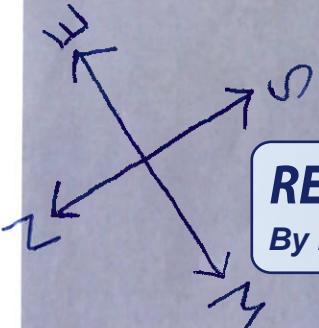
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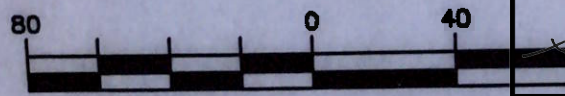
Red highlighted area is where the fence will go.

only area visible from road.



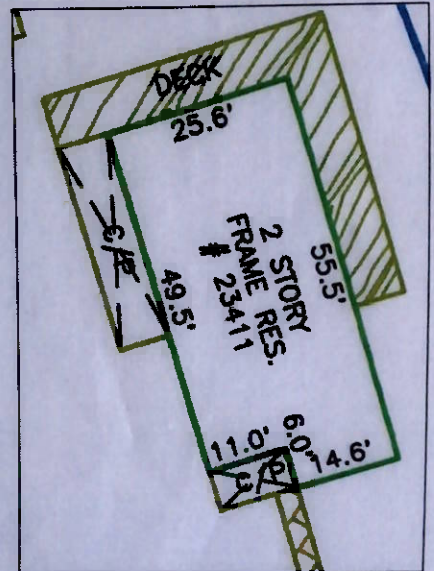
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APPROVED  
Montgomery County  
Historic Preservation Commission  
*Sandra Heiler*



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2



**REVIEWED**

*By Michael Kyne at 12:23 pm, Apr 23, 2020*

APPROVED

Montgomery County  
Historic Preservation Commission

*Sandra Skider*

**EXAMPLE**



DPS - #8

HISTORIC PRESERVATION COMMISSION  
301/563-3400

# APPLICATION FOR HISTORIC AREA WORK PERMIT

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8529906

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**PART ONE: TYPE OF PERMIT ACTION AND USE**

**1A. CHECK ALL APPLICABLE:**

- Construct  Extend  Alter/Renovate
- Move  Install  Wreck/Raze
- Revision  Repair  Revocable

**CHECK ALL APPLICABLE:**

- A/C  Slab  Room Addition  Porch  Deck  Shed
- Solar  Fireplace  Woodburning Stove  Single Family
- Fence/Wall (complete Section 4)  Other: Roof

1B. Construction cost estimate: \$ 60,000

1C. If this is a revision of a previously approved active permit, see Permit # \_\_\_\_\_

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 Montgomery County  
 Historic Preservation Commission  
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 Disapproved: \_\_\_\_\_  
 Application/Permit No.: \_\_\_\_\_  
 Date Filed: \_\_\_\_\_ Date Issued: \_\_\_\_\_  
 Edt 6/21/99

*JSW*  
Signature of owner or authorized agent

27 Feb 20  
Date

For Chairperson, Historic Preservation Commission

**SEE REVERSE SIDE FOR INSTRUCTIONS**

Project I

Page 1

**THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.**

**1. WRITTEN DESCRIPTION OF PROJECT**

- a. Description of existing structure(s) and environmental setting, including their historical features and significance:  
Pre-1900s historic farmhouse set in locust level historic district. House sits off the road about 30 feet and is elevated on top of a hill.
- b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:  
Change roof from cedar shake to standing seam. All houses located within the historic district currently have metal standing seam roofs.

**2. SITE PLAN**

Site and environmental setting, drawn to scale. You may use your plat. Your site plan must include:

- a. the scale, north arrow, and date;
- b. dimensions of all existing and proposed structures; and
- c. site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

**3. PLANS AND ELEVATIONS**

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

- a. Schematic construction plans, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
- b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

**4. MATERIALS SPECIFICATIONS**

General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

**REVIEWED**

By Michael Kyne at 12:36 pm, Apr 23, 2020

**5. PHOTOGRAPHS**

- a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
- b. Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

APPROVED  
Montgomery County  
Historic Preservation Commission  
*Sandra Skiles*

**6. TREE SURVEY**

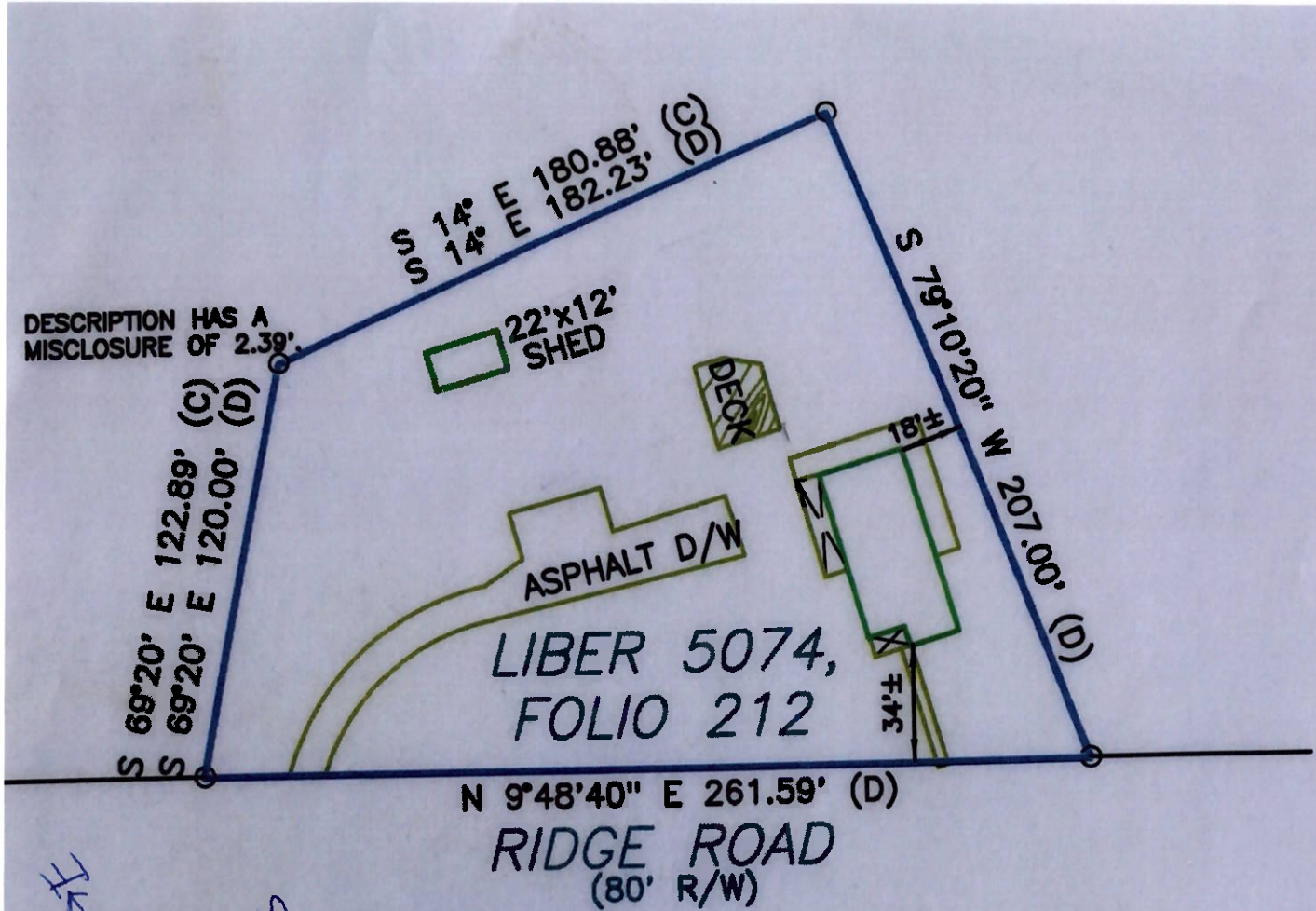
If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

**7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS**

For ALL projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question.

PLEASE PRINT (IN BLUE OR BLACK INK) OR TYPE THIS INFORMATION ON THE FOLLOWING PAGE.  
PLEASE STAY WITHIN THE GUIDES OF THE TEMPLATE, AS THIS WILL BE PHOTOCOPIED DIRECTLY ONTO MAILING LABELS.

# Site Plan



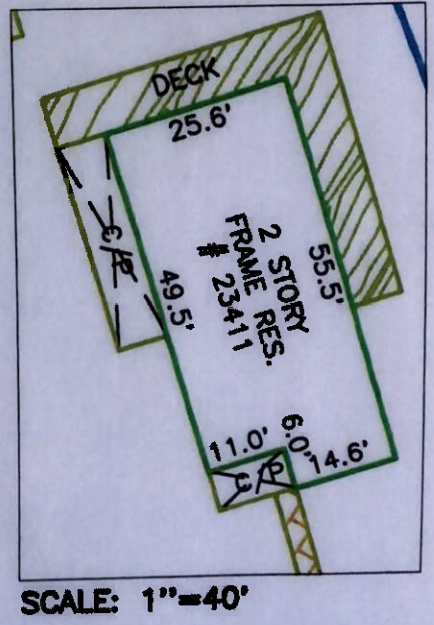
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APPROVED  
Montgomery County  
Historic Preservation Commission

GRAPHIC SCALE (In Feet)  
1 inch = 80' ft.

*Sandra Heiler*

ACCURACY=3'±



2



# SPECIFICATIONS SYSTEM SPECIFIER

www.englertinc.com

## MANUFACTURER

**ENGLERT, INC.**  
1200 Amboy Avenue  
Perth Amboy, New Jersey 08861  
Tel: (732) 826-8614  
Fax: (732) 826-8865

## SECTION 07410 - MANUFACTURED ROOF AND WALL PANELS SECTION 07610 - SHEET METAL ROOFING

### PART I – GENERAL

#### 1.01 WORK INCLUDED

Providing all labor, materials, tools, equipment and services to furnish and install metal roofing, wall panels/siding, including soffit, flashing, trim and such other accessories to make the system complete and weathertight, as indicated on the drawings and specified herein.

#### 1.02 RELATED WORK (to be coordinated with other trades by the successful contractor under this section). FOR APPLICATIONS OVER PLYWOOD DECKING (edit as required)

- A. Section 06100: Rough Carpentry
- B. Section 06200: Finish Carpentry
- C. Section 07620: Sheet Metal Flashing and Trim
- D. Section 07700: Roof Specialties and Accessories
- E. Section 07800: Skylights
- F. Section 07900: Joint Sealers

OR

#### 1.02 RELATED WORK (to be coordinated with other trades by the successful contractor under this section). FOR APPLICATIONS OVER METAL DECKING WITH RIGID INSULATION AND STANDING SEAM ROOF (edit as required).

- A. Section 05100: Structural Steel
- B. Section 05200: Steel Joists
- C. Section 05300: Metal Decking
- D. Section 05580: Sheet Metal Fabrication
- E. Section 07200: Insulation
- F. Section 07500: Membrane Roofing
- G. Section 07620: Sheet Metal Flashing and Trim
- H. Section 07700: Roof Specialties and Accessories
- I. Section 07800: Skylights
- J. Section 07900: Joint Sealers

**REVIEWED**

**By Michael Kyne at 12:22 pm, Apr 23, 2020**

APPROVED

Montgomery County  
Historic Preservation Commission

*Sandra L. Heiler*



This specification guide is designed to assist in the proper insertion of Englert Roof Systems into any architectural building specifications. This guide is formatted to match the CSI Spec Data System, however is not part of that program.

### **SERIES 2500**

TRI\SPECS:2500:01/01/03  
90311K

**1.03 QUALITY ASSURANCE**

- A. **Installation:** By a roofing/sheet metal contractor with at least a minimum of five years experience in similar type of construction and documenting successful completion of contracts for projects similar in size, scope and products.
- B. **Before Fabrication:** The contractor shall take field measurements of the structure and substrates indicated and specified to ensure that panel lengths and brakeformed flashings are dimensioned accurately to facilitate easy installation. Fabrication shall not begin until all field conditions have been verified. Allow for sufficient trimming of panel units at eaves, valleys, and gables prior to fabrication.

**1.04 REFERENCES**

- A. SMACNA (Sheet Metal and Air Conditioning Contractors National Association, Inc.) Architectural Sheet Metal Manual.
- B. NRCA (The National Roofing Contractors Association) Roofing and Waterproofing Manual (including Construction Details), and Handbook of Accepted Roofing Knowledge.
- C. Manufacturer’s Construction Details Handbook.
- D. AISC Steel Construction Manual.
- E. AISI Cold Formed Steel Design Manual.

**1.05 SUBMITTALS**

- A. Submit product literature, shop drawings, and samples in accordance with Section 01340.
- B. Product Literature:
  - 1. Manufacturer’s descriptive literature.
  - 2. Manufacturer’s standard color chart.
- C. Shop drawings are to be a small scale layout of roof plan and elevation, indicating the extent of work to be performed. Include sections of roof, fascia, walls, siding and soffits, for each condition, detailing flashing and trim for different conditions, such as eaves, outside/inside corners, ridge, valleys, gutters, end wall terminations, closures, etc., showing a full and complete installation. Show securement of panels and dips, spacing, type and number of fasteners, as recommended by the Manufacturer.
- D. Submit 2’0” long sample panel indicating the metal, gauge, color, texture, and finish proposed.
- E. Submit Manufacturer’s warranty covering the substrate (metal) against rupture, perforation, and structural failure due to normal atmospheric corrosion for twenty-five (25) years.
- F. Submit Manufacturer’s thirty-five (35) year warranty on paint finish against cracking, peeling, blistering, chalk, and color change.
- G. Submit test reports complying with finish specifications per section 2.05.1 through 2.05.8.

**REVIEWED**  
*By Michael Kyne at 12:22 pm, Apr 23, 2020*

APPROVED  
Montgomery County  
Historic Preservation Commission  
*Sandra L. Heiler*

**1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Unload and store materials at job-site to protect them from any damage.
- B. Inspect delivered material. Prevent interference by other trades or any other adverse job conditions.
- C. Store materials above ground, on skids. Protect material with waterproof covering and allow sufficient ventilation to prevent condensation build-up or moisture entrapment in the materials.

**1.07 WARRANTY**

- A. Manufacturer shall warrant the metal roof against rupture or perforation or from structurally failing due to normal atmospheric conditions for a period of twenty-five (25) years. In addition, Manufacturer shall provide a 35-year finish warranty against peeling and blistering, chalk, and fade (color change).
- B. Installer shall provide a written warranty for two (2) years from the date of final completion and acceptance, guaranteeing materials and workmanship for watertightness, weathertightness, and against all leaks. During the initial two (2) year period, the Installer shall assure weathertightness and watertightness of the roof, without any cost to the building owner.

**PART II – PRODUCTS**

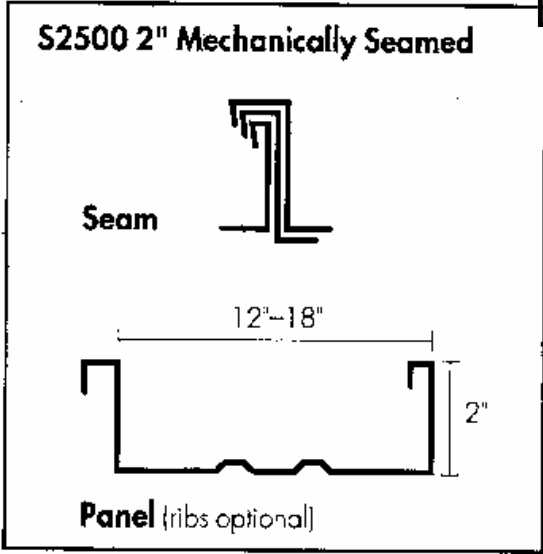
**2.01 ACCEPTABLE MANUFACTURER**

**ENGLERT, INC.**  
 1200 Amboy Avenue  
 Perth Amboy, New Jersey 08861  
 Tel: (732) 826-8614  
 Fax: (732) 826-8865

**REVIEWED**  
 By Michael Kyne at 12:22 pm, Apr 23, 2020

**SERIES 2500**  
**2” High Structural/Architectural**  
**Mechanically Locked Standing Seam**

APPROVED  
 Montgomery County  
 Historic Preservation Commission  

**NOTE TO SPECIFIER:** Englert Series 2500 Panel System serves the structural needs of roofing/fascia and mansard systems. The Series 2500 may be specified for application over solid deck or over purlins or over metal deck with rigid insulation. The Series 2500 Panel System can also be secured with bearing plates and clips through the insulation to the metal deck. Minimum Pitch: 1/2”/12”. Specify as required.

- A. Panel System shall be the Englert Series 2500, 2" high, 16" wide, Structural Standing Seam System (with ribs). Mechanical seaming available in 45, 90, & 180 degrees. The panels shall have baked on finish as specified in Section 2.05 hereunder, in manufacturer's standard colors. Manufacturer shall offer at least a minimum of 23 standard colors to choose from.
- B. **Substrate:**
  - ? 24 Gauge baked on finish over Galvalume ASTM A-792-83, AZ50, 50 KSI yield point.
  - ? 26 Gauge baked on finish over Galvalume ASTM A-792-83, AZ50, 50 KSI yield point.
  - ? \* .032" or .040" Aluminum Alloy 3105-H14 approved equal.

**NOTE TO SPECIFIER:** \*22 gauge steel, and .032" and .040" aluminum are available subject to minimum order requirements. *Call Englert for details.*

- C. **Performance:**
  1. Panel shall meet the requirements of Underwriter's Laboratories, Inc. for Class 90 wind uplift resistance.
  2. ASTM E-283-84 Air Infiltration: Maximum of 0.006 CFM/Ft2 at 1.57 psf pressure differential on 45 degree seamed profile and 0.013 CRM/Ft2 at 6.24 psf pressure differential.
  3. ASTM E-331-70 Water Penetration: No evidence of uncontrolled leakage on 45 degree seamed panel at 15.10 psf pressure differential.
  4. Panel shall display a flame spread classification of a Class 1, when tested in accordance with ASTM E-84-87
  5. Panel shall have been tested and rated in accordance with ASTM-E-1592 structural performance of sheet metal roof and siding systems by uniform static air pressure difference in 24 gauge steel and .040" aluminum.
  6. Panel shall have been tested and rated in accordance with Factory Mutual Research Corporation's Class 4471 wind uplift testing; minimum rating of FMI90.
  7. ASTM-E-1680-95 standard method for rate of air leakage through exterior metal roof panel systems.
  8. ASTM-E-1646-95 standard test method for water penetration of metal roof systems by uniform static air pressure differential.
  9. Florida Building Code product approval.

**IF METAL SOFFIT IS REQUIRED, SPECIFY AS FOLLOWS:**

**2.03 SOFFIT PANEL SYSTEMS**

- A. Soffit Panels: Series 2500 is not recommended for use as a soffit system.

**2.04 FABRICATION**

- A. Panel Construction: Panels shall be uniformly dimensioned, rollformed to exact lengths to avoid trimming. The panel system shall be anchored as recommended. All fasteners shall be concealed. Panels shall be continuous from ridge to eaves with no end laps. There shall be no face penetration of panels, except as approved by the architect for securing panels to facilitate directional expansion/contraction.
- B. Flashing and Trim: All exposed standard or special flashing/trim and such other brakeformed in the same gauge, color, and finish to match roofing panels, furnished with protective stripable film to be removed upon installation.
- C. Accessories such as clips, closures, fasteners, etc., shall be as recommended by the Manufacturer.

**REVIEWED**  
By Michael Kyne at 12:22 pm, Apr 23, 2020

APPROVED  
Montgomery County  
Historic Preservation Commission

*Sandra Heiler*

**2.05 PERMACOLOR 3500 FINISH - (35-Year Warranty)**

- A. Englert's PermaColor 3500 standard 35-year color coatings comprises of a .3 to .9 mil full strength 70% Kynar 500 fluorocarbon (Polyvinylidene Fluoride PVF2) coating over a urethane primer of .2 to .3 mil on the finish side, with primer and a wash coat on the reverse, on steel with just a wash coat on aluminum. Face film thickness 1.0 mil ± .2 mil.

**2.05.1 FILM THICKNESS**



Topside Finish: Primer shall be .2-.3 mil. Kynar 500 top coat shall be .8 - .9 mil. Reverse side finish shall be .2 - .3 mil primer with a wash coat. Total dry film thickness for the coating system shall be 1.00 mil nominal. All measurements per NCCA Technical Bulletin II-4 or ASTM D1005-84.

**2.05.2 SPECULAR GLOSS**

As determined per ASTM D523-85 at a glossmeter angle of 60 degrees. 10% maximum specular reflectance.

**2.05.3 HUMIDITY RESISTANCE**

No blistering, cracking, peeling, loss of gloss or softening of the finish after 3000 hours aluminum 1000 hours coated steel, of exposure at 100% humidity at 95 degrees F, per Federal Test Method Standard 141, Method 6201 or ASTM D2247-87.

**2.05.4 SALT SPRAY RESISTANCE**

Samples diagonally scored and subjected to 5% - at 95 degrees F, neutral salt spray per ASTM B117-85, then taped with Scotch #610 cellophane tape: 3000 hours aluminum/1000 hours coated steel, no blistering and no loss of adhesion greater than 1/8 from score line. (Samples taped one hour after removal form test cabinet.)

**2.05.5 CHEMICAL RESISTANCE**

No effect after 24 hour exposure of a 10% solution of hydrochloric acid, and 18-hour exposure to 20% sulfuric acid, per ASTM D1308-85, including exposure to 10% muriatic acid and nitric acid fumes.

**2.05.6 CHALKING RESISTANCE**

No chalking greater than #8 rating, per ASTM D659-86 test procedure after a 3000-hour weatherometer test.

**2.05.7 COLOR CHANGE**

Finish coat color change shall not exceed 5 NBS units per ASTM D-822-86, ASTM G-23-88 and ASTM D2244-85 (South Florida 10-years) test procedure after 3000-hour weatherometer test.

**2.05.8 ABRASION RESISTANCE**

Shall pass 60 liters/mil., minimum of falling sand per ASTM D968-81, Method A.

**REVIEWED**

**By Michael Kyne at 12:22 pm, Apr 23, 2020**

**2.06.1 PERMAMETALLIC 2000 FINISH - (20 Year Warranty)**

- A. Metallic Copper (non-aging) comprises of a .8 to .9 mil metallic fluorocarbon full strength 70% Kynar 500 finish coating over a layer of .3 to .5 mil full strength 70% Kynar 500 base coat. the reverse side is treated with a primer and wash coat. Face film thickness: 1.2 mil ± .2 mil.
- B. Pre-weathered Galvalume coating comprises of a .8 to .9 mil full strength, 70% Kynar 500 fluorocarbon (Polyvinylidene Fluoride PVF2) coating over a urethane primer of .2 to .3 mil on the finish side, with primer and a wash coat on the reverse, on steel; with just a wash coat on aluminum. Face film thickness: 1.0 mil ± .2 mil.

APPROVED  
 Montgomery County  
 Historic Preservation Commission

**2.07.1 MILL FINISH GALVALUME (Bare)**

- A. A coating of aluminum zinc alloy applied by a continuous hot dipping process, offering greater corrosion resistance, high temperature oxidation resistance, and heat reflectivity. Mill finish Galvalume carries a 25-year warranty(AZ-55)

**PART III - EXECUTION**



**3.01 INSPECTION**

- A. Verify substrate is uniform, even and symmetrical by running a string test. Inspect to assure that all purlins or sub-structure/framing members are flat and insulation is embedded symmetrically so when the metal panels are applied, they will not appear wavy or distorted.
- B. Provide a written report of discrepancies or variations in the substrate to the Architect.
- C. Do not begin installation until unsatisfactory conditions are corrected.
- D. Do not proceed with installation until adjoining areas scheduled for stucco treatment have been stuccoed and washed down. Do not wash down acid residues from stucco directly over the metal panels.
- E. Commencement of installation shall signify acceptance of the substrate and adjacent conditions as being proper and acceptable for treatment of roofing.
- F. After beginning installation, submit approximately 500 square feet of product in place for Architect's approval, before proceeding with substantial work.

**3.02 INSTALLATION**

- A. The metal panel system shall be installed plumb, level, and straight over a layer of 30 lb. felt, (dry) with a minimum 6" for horizontal lap and 12" for end lap.
- B. The (standing; batten) seam shall be equidistant and shall align for corners, hips, valleys, mullions, and columns in accordance with architectural design parameters as shown on the drawings.
- C. Installation shall be made in accordance with Manufacturer's recommended procedures and layout drawings. Manufacturer's of construction Details Handbook, SMACNA Architectural Sheet Metal manual, NRCA Roofing and Waterproofing Manual and Handbook of Roofing Knowledge shall be used as guides and details whenever applicable.
- D. No face penetrations or perforation shall be made in metal panels by fasteners without architect's specific approval. All panels shall be continuous from ridge to eaves with no horizontal end laps.
- E. End lap all flashing and trim at least 3". All gutters must be mitered, soldered and caulked with a lining of Ice and Watershield applied at the laps to make it watertight. All butt joints must be caulked. Soldered areas shall be counter-flashed or painted to match. all valleys shall be caulked with a layer of Ice and Watershield spread out at least 24" each side from the center of the valley, on both sides. by flashing. End lap at least 6" at joints
- F. Exercise proper care during installation to avoid damage or scratching of the panels. Avoid walking over the metal roof after installation is completed.

**REVIEWED**  
By Michael Kyne at 12:22 pm, Apr 23, 2020

**3.03 CLEANING AND PROTECTION**

- A. Peel of any strippable film on flashing as they are installed.
- B. Complete all items on punch list.
- C. Touch up all minor scratches and spots.
- D. Remove all debris resulting from work under this Section.

APPROVED  
Montgomery County  
Historic Preservation Commission  
*Sandra D. Heiler*