

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
 Expiration Date: July 31, 2015

SECTION A - PROPERTY INFORMATION

| | |
|--|--|
| A1. Building Owner's Name | FOR INSURANCE COMPANY USE |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1823 Willow St | Policy Number: |
| City Woodland State WA ZIP Code 98674 | Company NAIC Number: |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 52, Meriwether Subdivision, (Vol. 14, Pg. 54) | |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential | |
| A5. Latitude/Longitude: Lat. 45° 55' 19.56" Long. -122° 44' 08.32" Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983 | |
| A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. | |
| A7. Building Diagram Number 9 | |
| A8. For a building with a crawlspace or enclosure(s): | |
| a) Square footage of crawlspace or enclosure(s) <u>950</u> sq ft | A9. For a building with an attached garage: |
| b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>2</u> | a) Square footage of attached garage <u>473</u> sq ft |
| c) Total net area of flood openings in A8.b <u>950</u> sq in | b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>2</u> |
| d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No | c) Total net area of flood openings in A9.b <u>473</u> sq in |
| | d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No |

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| | | | | | |
|--|------------------------|---|---|---------------------------------|---|
| B1. NFIP Community Name & Community Number Cowlitz County 530032 | | B2. County Name Cowlitz | | B3. State WA | |
| B4. Map/Panel Number 0285 | B5. Suffix D | B6. FIRM Index Date Sept 29, 1989 | B7. FIRM Panel Effective/Revised Date Sept. 4, 1985 | B8. Flood Zone(s) A15 | B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 33.3' |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. | | | | | |
| <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____ | | | | | |
| B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____ | | | | | |
| B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | |
| Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA | | | | | |

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction
 *A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: RM4 Vertical Datum: NGVD 1929

Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

| | | |
|--|-------------|--|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>32.8</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>34.3</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>NA</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>XX</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) | <u>XX</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>34.5</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>34.5</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>XX</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No

Check here if attachments.

| | |
|---------------------------------------|--|
| Certifier's Name Howard S. Richardson | License Number 38485 |
| Title PLS | Company Name Olson Engineering, Inc. |
| Address 1111 Broadway | City Vancouver State WA ZIP Code 98660 |
| Signature | Date 06/05/13 Telephone 360-695-1385 |



| | |
|---|----------------------------------|
| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1823 Willow St | Policy Number: |
| City Woodland State WA ZIP Code 98674 | Company NAIC Number: |

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments A5 was taken from GoogleEarth and field verified. C2f & g are the current existing grades on site.

Signature 

Date 06/05/13.

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name _____

| | | | |
|-----------|------|-----------|----------|
| Address | City | State | ZIP Code |
| Signature | Date | Telephone | |

Comments _____

Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4–G10) is provided for community floodplain management purposes.

| | | |
|-------------------|------------------------|---|
| G4. Permit Number | G5. Date Permit Issued | G6. Date Certificate Of Compliance/Occupancy Issued |
|-------------------|------------------------|---|

- G7. This permit has been issued for: New Construction Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____ feet meters Datum _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____ feet meters Datum _____
- G10. Community's design flood elevation: _____ feet meters Datum _____

| | |
|-----------------------|-----------|
| Local Official's Name | Title |
| Community Name | Telephone |
| Signature | Date |

Comments _____

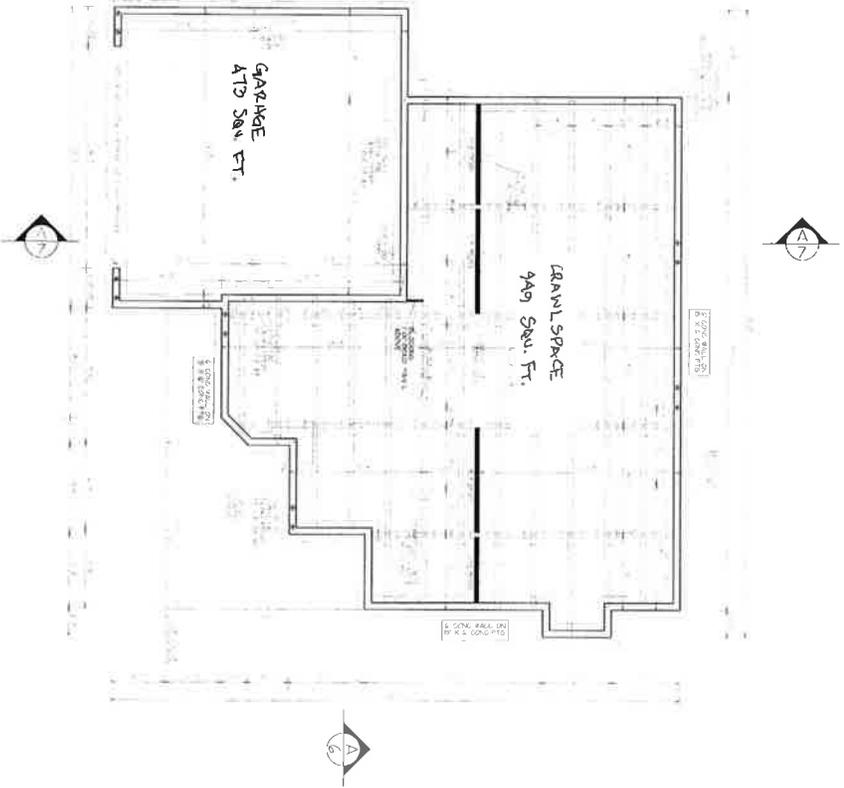
Check here if attachments.

Lot 52 Meadowlark
 1829 Willow St
 Woodland, WA 98674

THE LIVING AREA OF THE HOUSE TO BE BUILT AT 1823 WILLOW ST., WOODLAND, WASHINGTON HAS A CRAWL SPACE AREA 990 SQUARE FEET WHICH REQUIRES A MINIMUM OF 930 SQUARE INCHES OF VENTING LOCATED WITHIN 1' OF THE OUTSIDE FINISH GRADE. THE GARAGE AREA IS 473 SQUARE FEET WHICH WILL REQUIRE A MINIMUM OF 473 SQUARE INCHES LOCATED WITHIN 1' OF THE OUTSIDE FINISH GRADE. BOTH AREAS REQUIRE A MINIMUM OF 2 VENTS PER AREA ON DIFFERENT WALLS.

I CERTIFY THAT THE BASE FLOOD ELEVATION AS DERIVED FROM THE FIRM FOR THE CITY OF WOODLAND, (530035 0001C REVISED SEPTEMBER 4, 1985) IS AN ELEVATION OF 33.3' AT 1823 WILLOW ST. AND THAT THE MINIMUM FINISH FLOOR ELEVATION ON THESE PLANS AS REQUIRED PER CITY OF WOODLAND CODE 14.04.05 (B) (1) (a) WILL BE 34.3'. THESE ELEVATIONS ARE BASED ON THE ELEVATION OF RM4 (35.08' NGVD 1929 ADJUSTED 1947) AS SHOWN ON THE FIRM. THIS ELEVATION APPLIES ONLY TO THE ELEVATION SHOWN HEREON.

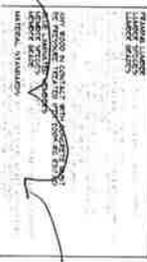
HOWARD S. RICHARDSON PLS 384835



FOUNDATION PLAN

| | |
|--------------------------|---|
| CONCRETE AND REINFORCING | CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH WITH 4% MINIMUM REINFORCING. REINFORCING SHALL BE #4 BARS AT 12" ON CENTER. |
| FOUNDATION WALLS | FOUNDATION WALLS SHALL BE 12" THICK CONCRETE WITH 4% MINIMUM REINFORCING. WALLS SHALL BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINTED. |
| FOUNDATION FLOORS | FOUNDATION FLOORS SHALL BE 4" THICK CONCRETE WITH 4% MINIMUM REINFORCING. FLOORS SHALL BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINTED. |
| FOUNDATION EXTERIORS | FOUNDATION EXTERIORS SHALL BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINTED. EXTERIORS SHALL BE PROTECTED WITH 2" POLYSTYRENE INSULATION BOARD. |
| FOUNDATION INTERIORS | FOUNDATION INTERIORS SHALL BE FINISHED WITH 1/2" GYPSUM BOARD AND PAINTED. |
| FOUNDATION DETAILS | FOUNDATION DETAILS SHALL BE AS SHOWN ON THESE PLANS. |

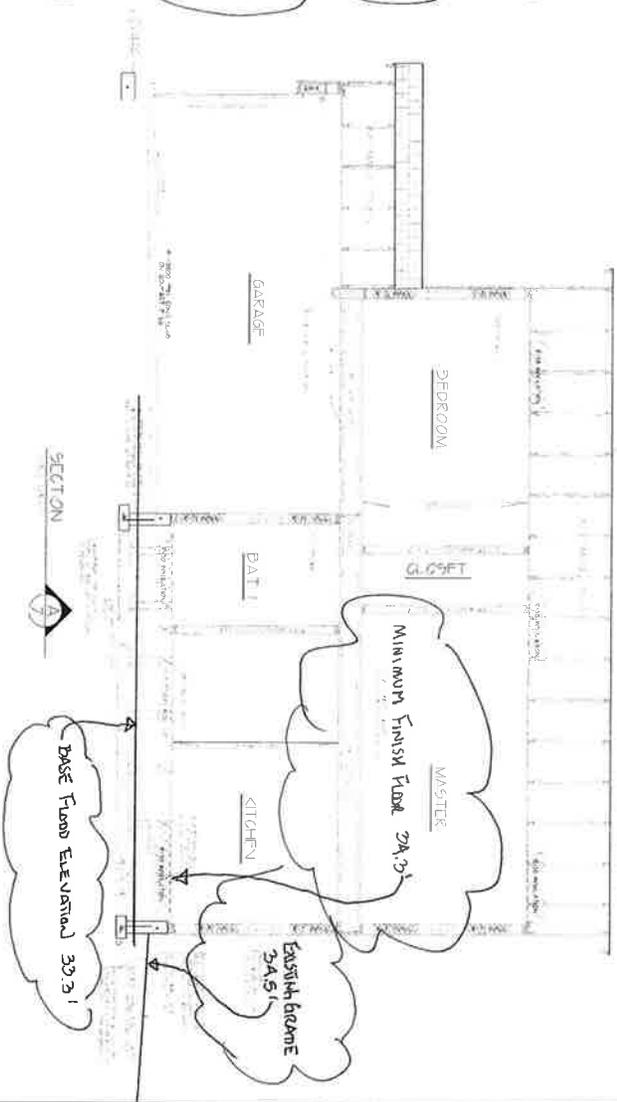
Lot 52



THE LIVING AREA OF THE HOUSE TO BE BUILT AT 1823 WILLOW ST., WOODLAND, WASHINGTON HAS A CRAWLSPACE AREA 950 SQUARE FEET WHICH REQUIRES A MINIMUM OF 950 SQUARE INCHES OF VENTING LOCATED WITHIN 1' OF THE OUTSIDE FINISH GRADE. THE GARAGE AREA IS 473 SQUARE FEET WHICH WILL REQUIRE A MINIMUM OF 473 SQUARE INCHES LOCATED WITHIN 1' OF THE OUTSIDE FINISH GRADE. BOTH AREAS REQUIRE A MINIMUM OF 2 VENTS PER AREA ON DIFFERENT WALLS.

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HOWARD S. RICHARDSON PLS 384835



Lot 57 Meriwether
1823 Willow St
Woodland, WA 98674