

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

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

SECTION A – PROPERTY INFORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Name: <u>Bruce Firlie</u>	Policy Number: _____
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: <u>1680 New Creek Highway</u>	Company NAIC Number: _____
City: <u>Keyser</u> State: <u>WV</u> ZIP Code: <u>26726</u>	
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number: <u>As described in Deed Book 397, Page 388, in the records of Mineral County, West Virginia</u>	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): <u>Commercial</u>	
A5. Latitude/Longitude: Lat. <u>39.405640</u> Long. <u>-79.003487</u> Horiz. Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983 <input type="checkbox"/> WGS 84	
A6. Attach at least two and when possible four clear color photographs (one for each side) of the building (see Form pages 7 and 8).	
A7. Building Diagram Number: <u>1A</u>	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s): <u>360</u> sq. ft.	
b) Is there at least one permanent flood opening on two different sides of each enclosed area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade: Non-engineered flood openings: <u>0</u> Engineered flood openings: <u>0</u>	
d) Total net open area of non-engineered flood openings in A8.c: <u>0</u> sq. in.	
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructions): <u>0</u> sq. ft.	
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): <u>0</u> sq. ft.	
A9. For a building with an attached garage:	
a) Square footage of attached garage: <u>na</u> sq. ft.	
b) Is there at least one permanent flood opening on two different sides of the attached garage? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: Non-engineered flood openings: <u>na</u> Engineered flood openings: <u>na</u>	
d) Total net open area of non-engineered flood openings in A9.c: <u>na</u> sq. in.	
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): <u>na</u> sq. ft.	
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): <u>na</u> sq. ft.	

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1.a. NFIP Community Name: <u>Mineral County</u>	B1.b. NFIP Community Identification Number: <u>540129</u>		
B2. County Name: <u>Mineral County</u>	B3. State: <u>WV</u>	B4. Map/Panel No.: <u>54057C0170</u>	B5. Suffix: <u>D</u>
B6. FIRM Index Date: <u>03/19/2013</u>	B7. FIRM Panel Effective/Revised Date: <u>03/19/2013</u>		
B8. Flood Zone(s): <u>AE</u>	B9. Base Flood Elevation(s) (BFE) (Zone AO, use Base Flood Depth): <u>885.6'</u>		
B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: <input type="checkbox"/> FIS <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other: _____			
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" 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			
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

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City: <u>Keyser</u> State: <u>WV</u> ZIP Code: <u>26726</u>	Policy Number: _____
	Company NAIC Number: _____

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, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, A99. Complete Items C2.a–h below according to the Building Diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: Opus Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below.

- NGVD 1929 NAVD 1988 Other: _____

Datum used for building elevations must be the same as that used for the BFE. Conversion factor used? Yes No

If Yes, describe the source of the conversion factor in the Section D Comments area.

Check the measurement used:

- | | | |
|---|--------------|--|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor): | <u>879.8</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor (see Instructions): | _____ | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (see Instructions): | <u>na</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab): | <u>na</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area): | <u>na</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest Adjacent Grade (LAG) next to building: <input type="checkbox"/> Natural <input checked="" type="checkbox"/> Finished | <u>879.7</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest Adjacent Grade (HAG) next to building: <input type="checkbox"/> Natural <input checked="" type="checkbox"/> Finished | <u>879.8</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Finished LAG at lowest elevation of attached deck or stairs, including structural support: | <u>na</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 state 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.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No

Check here if attachments and describe in the Comments area.

Certifier's Name: Kerry S. Shultz License Number: WV PS 1850

Title: Project Surveyor

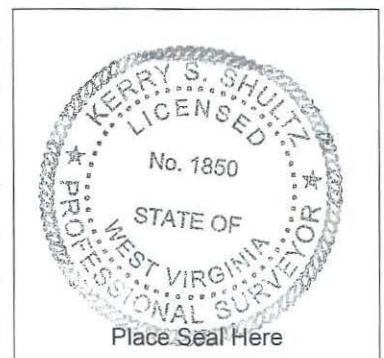
Company Name: RK&K Engineers

Address: 159 Plaza Drive

City: Keyser State: WV ZIP Code: 26726

Telephone: (304) 788-3370 Ext.: _____ Email: gvanscoy@rkk.com

Signature: [Handwritten Signature] Date: 8/29/24



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

Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments):
Opus Report attached.

Plan on addition to existing slab on grade building. 60' X 6' addition on existing sidewalk.
No planned machinery or equipment planned for addition.

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IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:

1680 New Creek Highway

FOR INSURANCE COMPANY USE

Policy Number: _____

City: Keyser State: WV ZIP Code: 26726

Company NAIC Number: _____

SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE)

For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural grade, if available. If the Certificate is intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, enter meters.

Building measurements are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the measurement is above or below the natural HAG and the LAG.

a) Top of bottom floor (including basement, crawlspace, or enclosure) is: _____ 5.8 feet meters above or below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is: _____ 5.7 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 1–2 of Instructions), the next higher floor (C2.b in applicable Building Diagram) 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 AUTHORIZED REPRESENTATIVE) CERTIFICATION

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

Check here if attachments and describe in the Comments area.

Property Owner or Owner's Authorized Representative Name: Kerry S. Shultz, P.S. 1850

Address: 159 Plaza Drive

City: Keyser State: WV ZIP Code: 26726

Telephone: (304) 788-3370 Ext.: _____ Email: gvanscoy@rkk.com

Signature:  Date: 8/29/24

Comments:

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:

1680 New Creek Highway

FOR INSURANCE COMPANY USE

Policy Number: _____

City: Keyser State: WV ZIP Code: 26726

Company NAIC Number: _____

SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION FOR ALL ZONES (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY)

The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zones to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). **Reference the Foundation Type Diagrams (at the end of Section H Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section.**

H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Grade (LAG):

a) For Building Diagrams 1A, 1B, 3, and 5–8. Top of bottom floor (include above-grade floors only for buildings with crawlspaces or enclosure floors) is: _____ 5.7 feet meters above the LAG

b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: _____ 3.1 feet meters above the LAG

H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated by the H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram?

Yes No

SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. *The statements in Sections A, B, and H are correct to the best of my knowledge.* Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G.

Check here if attachments are provided (including required photos) and describe each attachment in the Comments area.

Property Owner or Owner's Authorized Representative Name: Kerry S. Shultz, WV P.S. 1850

Address: 159 Plaza Drive

City: Keyser State: WV ZIP Code: 26726

Telephone: (304) 788-3370 Ext.: _____ Email: gvanscoy@rkk.com

Signature:  Date: 8/29/24

Comments:

ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11
BUILDING PHOTOGRAPHS

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:
1680 New Creek Highway

FOR INSURANCE COMPANY USE

City: Keyser State: WV ZIP Code: 26726

Policy Number: _____

Company NAIC Number: _____

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/rowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo One

Photo One Caption: Front Right 07/22/2024

Clear Photo One



Photo Two

Photo Two Caption: Front Left 07/22/2024

Clear Photo Two

ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11
BUILDING PHOTOGRAPHS

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:
1680 New Creek Highway

FOR INSURANCE COMPANY USE

City: Keyser State: WV ZIP Code: 26726

Policy Number: _____

Company NAIC Number: _____

Insert the third and fourth photographs below. Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.

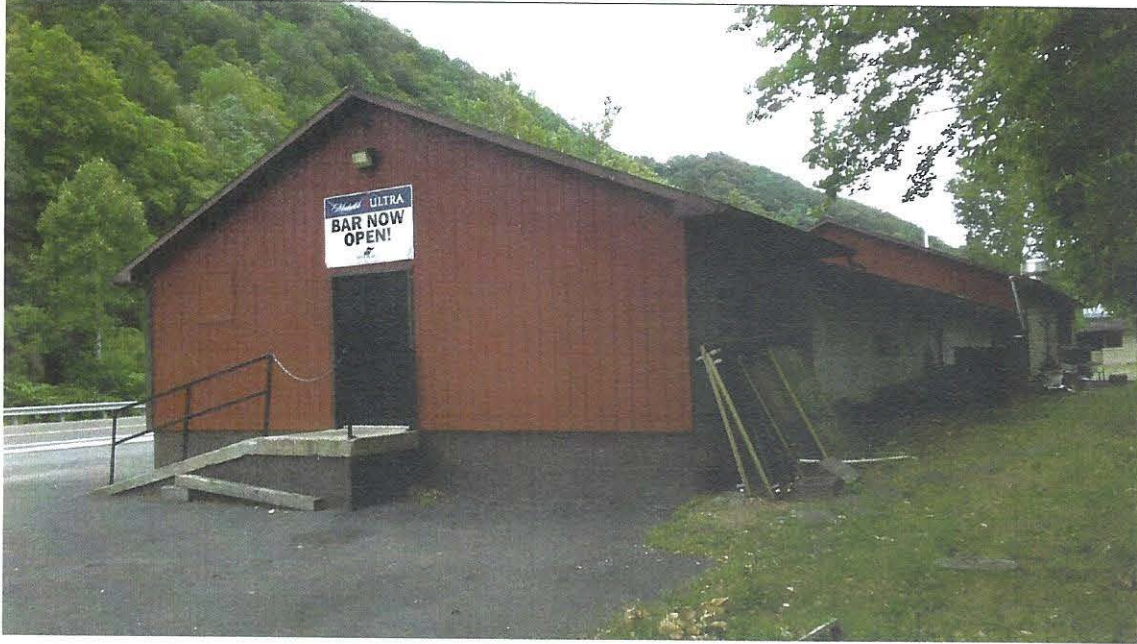


Photo Three

Photo Three Caption: Rear Right 07/22/2024

Clear Photo Three



Photo Four

Photo Four Caption: Rear Left 07/22/2024

Clear Photo Four

Greg Vanscoy

From: opus <opus@ngs.noaa.gov>
Sent: Tuesday, September 3, 2024 5:35 PM
To: Greg Vanscoy
Subject: OPUS-RS solution : 07832391.24o OP1725394594003

EXTERNAL EMAIL: Do not click links or open attachments unless you trust the 'Sender' and know the content is safe.

FILE: 07832391.24o OP1725394594003

6023 ***** WARNING *****
6023 The Quality Indicator for the network solution
6023 is less than 3.0. This is often a warning sign that
6023 the network solution was weak and tropospheric and
6023 ionospheric refraction in the project area were not strongly
6023 determined.
6023 ***** WARNING *****

NGS OPUS-RS SOLUTION REPORT
=====

All computed coordinate accuracies are listed as 1-sigma RMS values.
For additional information: <https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

USER: gvanscoy@rkk.com DATE: September 03, 2024
RINEX FILE: 0783239r.24o TIME: 21:33:43 UTC

SOFTWARE: rsgps 1.38 RS271.prl 1.99.3 START: 2024/08/26 17:01:05
EPHEMERIS: igr23291.eph [rapid] STOP: 2024/08/26 18:05:20
NAV FILE: brdc2390.24n OBS USED: 2860 / 3105 : 92%
ANT NAME: TRMR12 NONE QUALITY IND. 0.16/ 4.74
ARP HEIGHT: 2.0 NORMALIZED RMS: 0.531

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2024.65227)

X: 952690.926(m) 0.023(m) 952689.950(m) 0.023(m)
Y: -4844173.111(m) 0.050(m) -4844171.681(m) 0.050(m)
Z: 4024934.801(m) 0.042(m) 4024934.752(m) 0.042(m)

LAT: 39 22 39.90576 0.008(m) 39 22 39.93726 0.008(m)
E LON: 281 7 34.37540 0.014(m) 281 7 34.34693 0.014(m)
W LON: 78 52 25.62460 0.014(m) 78 52 25.65307 0.014(m)
EL HGT: 178.665(m) 0.067(m) 177.404(m) 0.067(m)
ORTHO HGT: 211.261(m) 0.070(m) [NAVD88 (Computed using GEOID18)]

UTM COORDINATES STATE PLANE COORDINATES
UTM (Zone 17) SPC (4701 WV N)
Northing (Y) [meters] 4360853.837 97633.163

Easting (X) [meters] 683138.022 653954.030
Convergence [degrees] 1.34931111 0.39938333
Point Scale 1.00001297 0.99995008
Combined Factor 0.99998494 0.99992205

US NATIONAL GRID DESIGNATOR: 17SPD8313860854(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL3476	LOY Y LOYOLA Y CORS ARP	N385318.547	W0782956.943	63244.3
DH7958	LOYA LOYOLA A COOP CORS ARP	N382533.900	W0785321.774	105660.3
DN9087	WVTA TERRA ALTA CORS ARP	N392616.643	W0793052.953	55610.4
DL3184	LOYR LOYOLA R CORS ARP	N393408.726	W0755914.995	249237.3
DL2039	LOYQ LOYOLA LOYQ CORS ARP	N393802.593	W0774251.098	103712.6

NEAREST NGS PUBLISHED CONTROL POINT

JW0334 J 18 N391944.000 W0785300.000 5486.9

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

August 26, 2024

Bruce Firlie
14713 Winchester Road
Cumberland, MD 21502

RE: Elevation Analysis

Bruce Firlie owns Double B's Restaurant at 1680 New Creek Highway, near Keyser, West Virginia.

The existing restaurant is built in 3 different sections, the northern and southern sections are frame-built on a block foundation, the middle portion is frame-built on slab on grade.

The Base Flood elevation at this structure is 885.6 feet per interpolation of the F.I.R.M. map 54057C0170D dated March 19, 2013.

The owner plans on a 6-foot by 60-foot (360 Square Foot) addition to the existing slab on grade portion of the structure. The addition will consist of enclosing an existing sidewalk adjacent to the slab on grade structure. The block foundation portion of the structure extend to or beyond the proposed addition.

The proposed addition will have the same floor elevation as the existing slab on grade portion of structure at 879.8 feet NAVD88.

The existing slab on grade structure has a floor elevation of 879.8 feet and would have a flood depth of 5.8 feet. The existing floor elevation of the block foundation structures have an existing floor elevation of 882.6 feet and would have a flood depth of 3 feet.

The "Minor Projects" section of the FEMA NFIP Floodplain Management Requirements (FEMA 480, February 2005), Unit 5, Section D, states:

The new addition will fall within the shadow of existing portions of the building, creating a negligible impact on the current flood zone. The proposed addition should adhere to recommended flood proofing standards.

Sincerely,
Rummel, Klepper & Kahl, LLP

Kerry Shultz
Project Manager, PS WV #1850, PE WV #14492

