

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

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

SECTION A - PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name Douglas and Carol Lutz

Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
25 Road 4366

Company NAIC Number:

City Blanco

State NM

ZIP Code 87412

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Lot 5 Perfect Drift Estates Subdivision

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 36.7841 Long. 107.7179 Horizontal Datum: NAD 1927 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 2

A8. For a building with a crawlspace or enclosure(s):

A9. For a building with an attached garage:

a) Square footage of crawlspace or enclosure(s) 1546 sq ft

a) Square footage of attached garage _____ sq ft

b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____

b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____

c) Total net area of flood openings in A8.b _____ sq in

c) Total net area of flood openings in A9.b _____ sq in

d) Engineered flood openings? Yes No

d) Engineered flood openings? Yes No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
SAN JUAN 350064

B2. County Name
SAN JUAN

B3. State
NM

B4. Map/Panel Number
35045C00800

B5. Suffix
F

B6. FIRM Index Date
8-5-2010

B7. FIRM Panel Effective/Revised Date
8-5-2010

B8. Flood Zone(s)
A

B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
5,650.31

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

FIS Profile FIRM Community Determined Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No
Designation Date: _____ CBRS 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: Basin Surveying BM

Vertical Datum: GPS Observation

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

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) 5657.18 feet meters

b) Top of the next higher floor 5660.57 feet meters

c) Bottom of the lowest horizontal structural member (V Zones only) _____ feet meters

d) Attached garage (top of slab) _____ feet meters

e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) _____ feet meters

f) Lowest adjacent (finished) grade next to building (LAG) 5658.37 feet meters

g) Highest adjacent (finished) grade next to building (HAG) 5659.74 feet meters

h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support _____ feet 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 Daniel T Flack

License Number 14850

Title Engineer

Company Name DTF Engineering

Address PO Box 1063

City Kirtland

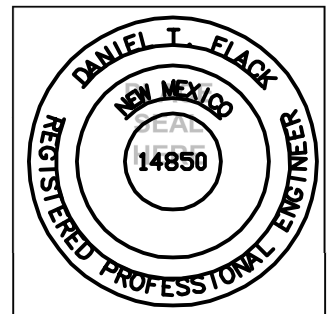
State NM

ZIP Code 87417

Signature

Date 1-3-15

Telephone 505-598-5163



ELEVATION CERTIFICATE, page 2


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. 25 Road 4366	Policy Number:
City Blanco State NM ZIP Code 87412	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 Base flood elevation was calculated to be 5650.31. The crawl space elevation is 5657.18. The home is more than 10 feet above the calculated BFE. No flood vents are required.

1-3-15

Signature  Date

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 5657.18 feet meters above or below the HAG.
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is 5657.18 feet meters above or below the HAG.
- 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 Daniel Flack

Address PO Box 1063 Kirtland ^{City} NM ^{State} 87417 ^{ZIP Code}

Signature  Date 1-3-14 Telephone 505.598.5163

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.

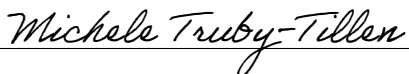
- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community 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
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- 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 _____

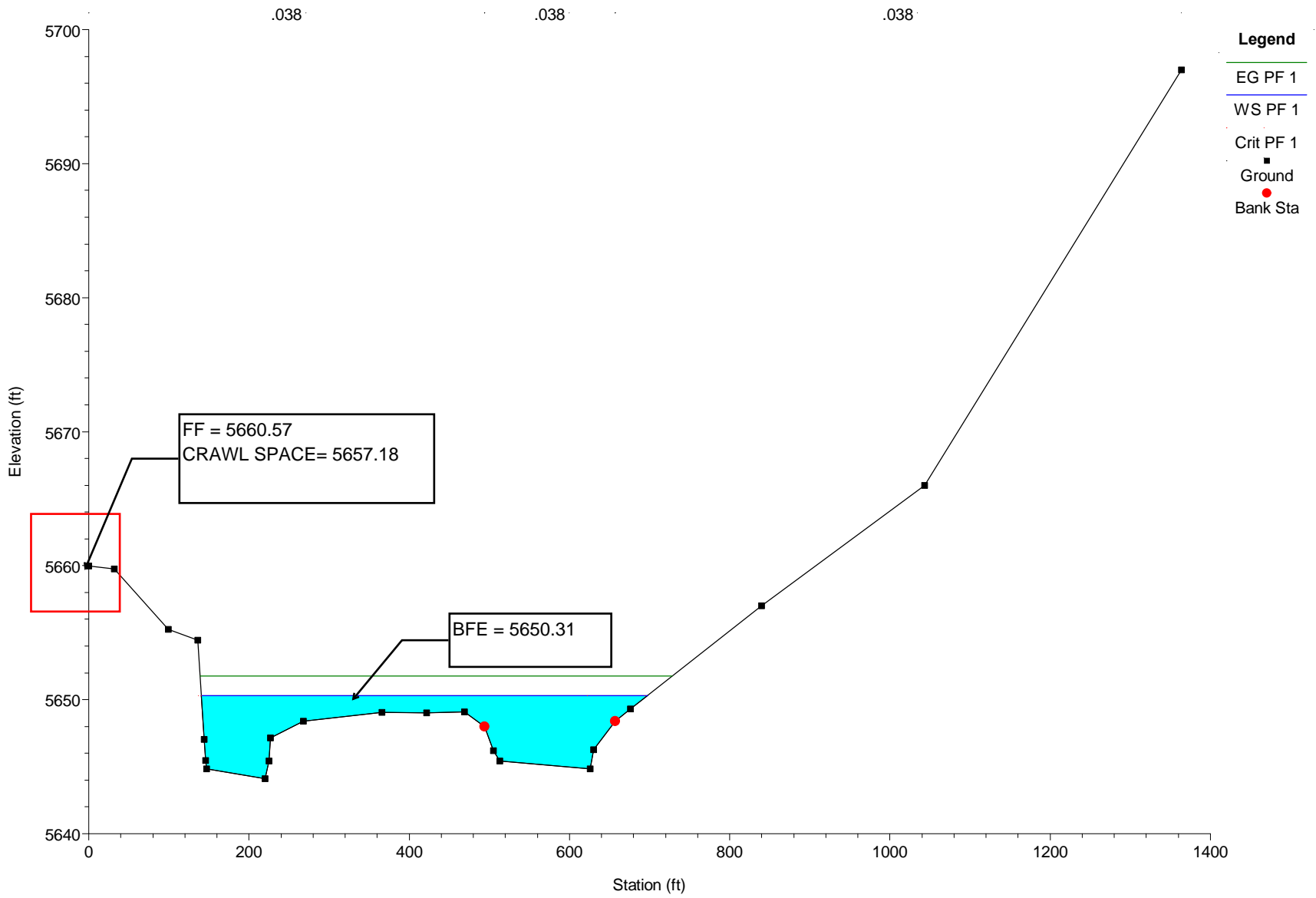
Local Official's Name Michele Truby-Tillen, CFM Title San Juan County Floodplain Manager

Community Name San Juan County Telephone 505-334-4719

Signature  Date 1/7/2015

Comments

Check here if attachments.



25Road4366.rep

HEC-RAS Version 4.1.0 Jan 2010
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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X      X  XXXXXXX  XXXX      XXXX      XX      XXXX
X      X  X      X      X      X      X      X      X
X      X  X      X      X      X      X      X      X
XXXXXXXX XXXX      X      XXX XXXX      XXXXXXX  XXXX
X      X  X      X      X      X      X      X      X
X      X  X      X      X      X      X      X      X
X      X  XXXXXXX  XXXX      X      X      X      X      XXXXX
```

PROJECT DATA

Project Title: 25 Road 4366
Project File : 25Road4366.prj
Run Date and Time: 1/3/2015 10:51:20 AM

Project in English units

PLAN DATA

Plan Title: Plan 01
Plan File : C:\Users\Dan\Documents\1 DTF Engineering\Flood Plain\25 Road
4366\25Road4366.p01

Geometry Title: xsection
Geometry File : C:\Users\Dan\Documents\1 DTF Engineering\Flood Plain\25
Road 4366\25Road4366.g01

Flow Title : 100 yr 15510 cfs
Flow File : C:\Users\Dan\Documents\1 DTF Engineering\Flood Plain\25
Road 4366\25Road4366.f01

Plan Summary Information:

Number of:	Cross Sections =	2	Multiple Openings =	0
	Culverts =	0	Inline Structures =	0
	Bridges =	0	Lateral Structures =	0

Computational Information

Water surface calculation tolerance =	0.01
Critical depth calculation tolerance =	0.01
Maximum number of iterations =	20
Maximum difference tolerance =	0.3
Flow tolerance factor =	0.001

Computation Options

Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Subcritical Flow

25Road4366.rep

FLOW DATA

Flow Title: 100 yr 15510 cfs
 Flow File : C:\Users\Dan\Documents\1 DTF Engineering\Flood Plain\25 Road
 4366\25Road4366.f01

Flow Data (cfs)

River	Reach	RS	PF 1
San Juan	1	110	15510
San Juan	1	100	15510

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			
San Juan Critical	1	PF 1	Critical

GEOMETRY DATA

Geometry Title: xsection
 Geometry File : C:\Users\Dan\Documents\1 DTF Engineering\Flood Plain\25 Road
 4366\25Road4366.g01

CROSS SECTION

RIVER: San Juan
 REACH: 1 RS: 110

INPUT

Description:

Station Elevation Data num= 24

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5659.98	325	659.739	995	655.263	1365	654.442	1445	647.048
146	5645.473	147	5644.829	220	5644.096	225	5645.435	227	5647.163
268	5648.404	366	5649.035	422	5649.007	469	5649.101	494	5647.983
505	5646.19	513	5645.429	626	5644.853	630	5646.257	657	5648.408
676	5649.298	840	5657	1043	5666	1364	5697		

Manning's n Values

Sta	n Val	Sta	n Val	Sta	n Val
0	.038	494	.038	657	.038

Bank	Sta	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	494	657		10	10	10		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	5651.88	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.01	wt. n-Val.	0.038	0.038
0.038				

W.S. Elev (ft)	5650.87	Reach Len. (ft)	10.00	10.00
10.00				
Crit w.s. (ft)	5650.32	Flow Area (sq ft)	1115.89	846.82
64.82				
E.G. slope (ft/ft)	0.006309	Area (sq ft)	1115.89	846.82
64.82				
Q Total (cfs)	15510.00	Flow (cfs)	7405.78	7872.83
231.39				
Top width (ft)	569.69	Top width (ft)	354.14	163.00
52.55				
Vel Total (ft/s)	7.65	Avg. Vel. (ft/s)	6.64	9.30
3.57				
Max Chl Dpth (ft)	6.78	Hydr. Depth (ft)	3.15	5.20
1.23				
Conv. Total (cfs)	195275.9	Conv. (cfs)	93241.2	99121.5
2913.3				
Length wtd. (ft)	10.00	wetted Per. (ft)	357.24	163.51
52.61				
Min Ch El (ft)	5644.85	Shear (lb/sq ft)	1.23	2.04
0.49				
Alpha	1.11	Stream Power (lb/ft s)	1364.00	0.00
0.00				
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.23	0.18
0.01				
C & E Loss (ft)	0.04	Cum SA (acres)	0.08	0.04
0.01				

CROSS SECTION

RIVER: San Juan
 REACH: 1 RS: 100

INPUT

Description:

Station Elevation Data	num=	24			
Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	
0 5659.98	325659.739	995655.263	1365654.442	1445647.048	
1465645.473	1475644.829	2205644.096	2255645.435	2275647.163	
2685648.404	3665649.035	4225649.007	4695649.101	4945647.983	
505 5646.19	5135645.429	6265644.853	6305646.257	6575648.408	
6765649.298	840 5657	1043 5666	1364 5697		

Manning's n Values	num=	3
Sta n Val	Sta n Val	Sta n Val
0 .038	494 .038	657 .038

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
494	657	10	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	5651.76	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.45	wt. n-Val.	0.038	0.038
0.038				
W.S. Elev (ft)	5650.31	Reach Len. (ft)		
Crit w.s. (ft)	5650.31	Flow Area (sq ft)	917.38	755.37
38.69				

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E.G. Slope (ft/ft)	0.010583	Area (sq ft)	917.38	755.37
38.69				
Q Total (cfs)	15510.00	Flow (cfs)	6930.90	8428.51
150.60				
Top width (ft)	557.14	Top width (ft)	353.53	163.00
40.60				
Vel Total (ft/s)	9.06	Avg. vel. (ft/s)	7.56	11.16
3.89				
Max Chl Dpth (ft)	6.22	Hydr. Depth (ft)	2.59	4.63
0.95				
Conv. Total (cfs)	150768.6	Conv. (cfs)	67373.4	81931.3
1463.9				
Length wtd. (ft)		Wetted Per. (ft)	356.41	163.51
40.65				
Min Ch El (ft)	5644.85	Shear (lb/sq ft)	1.70	3.05
0.63				
Alpha	1.14	Stream Power (lb/ft s)	1364.00	0.00
0.00				
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

SUMMARY OF MANNING'S N VALUES

River: San Juan

Reach	River Sta.	n1	n2	n3
1	110	.038	.038	.038
1	100	.038	.038	.038

SUMMARY OF REACH LENGTHS

River: San Juan

Reach	River Sta.	Left	Channel	Right
1	110	10	10	10
1	100	10	10	10