

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1 - 7.

SECTION A - PROPERTY OWNER INFORMATION

BUILDING OWNER'S NAME
Jerry Schoppel

BUILDING STREET ADDRESS (including Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND BOX NO.
26237 Conifer Road

CITY Conifer **STATE** Colorado **ZIP CODE** 80433

PROPERTY DESCRIPTION (Use and Block Numbers, lot Parcel Number, Legal Description, etc.)
Lots 4, 5, 21, 22 Block 20 Aspen Park Unit 1 County of Jefferson State of Colorado

BUILDING USE (e.g., Residential, Non-residential, Accessory, etc. Use a Commercial use, if necessary)
Non-residential

LATITUDE AND LONGITUDE (OPTIONAL)
105° 17' 54" 39° 36' 30"

HORIZONTAL DATUM SOURCE: GRS (Type) NAD 1983 NAD 1983 UGS (Type) Other

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. FIRM COMMUNITY NAME & COMMUNITY NUMBER Jefferson County 080087 **B2. COUNTY NAME** Jefferson **B3. STATE** Colorado

B4. MAP AND PANEL NUMBER 0800870345	B5. SUFFIX B	B6. FIRM INEFFECTIVE DATE 8/5/86	B7. FIRM PANEL EFFECTIVE/REVISED DATE 8/5/80	B8. FLOOD ZONE(S) A	B9. BASE FLOOD ELEVATION(S) (Zone AE, use depth of flooding) 8120
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B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in B4.
 FIS Profile FIRM Community Determined Other (Describe): See Attached

B11. Indicate the elevation datum used for the BFE in B4: NGVD 1929 NAVD 1988 Other (Describe): See Attached

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings Building Under Construction Finished Construction

C2. Building Diagram Number 1 (Select the building diagram most similar to the building for which this certificate is being completed - see pages 4 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

C3. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR1, AR1E, AR1A-130, AR1M, AR1O
 Complete Name: C3A-1 below according to the building diagram specified in Item C2. State the datum used. If the datum is different from the datum used for the BFE in Section B, convert the datum to that used for the BFE. Show field measurements and datum conversion calculation. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.

Datum: See Report **Conversion Comments:** _____

Elevation reference mark used: See Report Does the elevation reference mark used appear on the FRONT Yes No

a) Top of bottom floor (including basement or crawlspace) 8123.00 ft (m)

b) Top of next higher floor _____ ft (m)

c) Bottom of lowest horizontal structural member (V zones only) _____ ft (m)

d) Attached garage (top of slab) _____ ft (m)

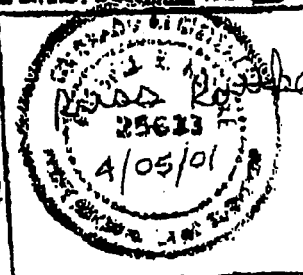
e) Lowest elevation of machinery and/or equipment servicing the building (Describe in a Comments area.) 8123.00 ft (m)

f) Lowest adjacent (finished) grade (LAG) 8123.30 ft (m)

g) Highest adjacent (finished) grade (HAG) _____ ft (m)

h) No. of permanent openings (roof vents) within 1 ft. above adjacent grade: _____

i) Total area of all permanent openings (roof vents) in C3h _____ sq. ft. (sq. m)



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 in Sections A, B, and C 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.

CERTIFIER'S NAME Russell Kottke **LICENSE NUMBER** 25613

TITLE Project Manager **COMPANY NAME** Pitzer & Associates

ADDRESS 36685 Pleasant Park Road **CITY** Conifer **STATE** CO **ZIP CODE** 80433

SIGNATURE Russell Kottke **DATE** 4/05/01 **TELEPHONE** 303-674-6018

FEMA Form 81-37, JUL 00 **SEE REVERSE SIDE FOR CONTINUATION** **REPLACE ALL PREVIOUS EDITIONS**

05/18/04 07:58 FAX 303 271 8744

Jeffco Planning & Zonins

BUILDING STREET ADDRESS (including apt., lvs., bldg., and/or wing no.) OR P.O. ROUTE AND BOX NO.

26237 Conifer Road

CITY
Conifer

STATE
Colorado

ZIP CODE
80433

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

Finished Floor 3.00' Above B.F.E.

Check here if attachments

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

For Zone AO and Zone A (without BFE), complete items E1. through E4. If the Elevation Certificate is intended for use as supporting information for a LOMA or LOMR-F, Section C must be completed.

E1. Building Diagram Number _____ (Select the building diagram most similar to the building for which this certificate is being completed - see pages 6 and 7. If no diagram accurately represents the building, provide a sketch or photograph.)

E2. The top of the bottom floor (including basement or enclosure) of the building is: R (ft) ft. (m) above or below (check one) the highest adjacent grade. (Use natural grade, if available.)

E3. For Building Diagrams 6-8 with openings (see page 7), the next higher floor or elevated floor (elevation) of the building is: R (ft) ft. (m) above the highest adjacent grade. Complete items C3h and C3i on front of form.

E4. For 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, C (items C3h and C3i only), 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, C, 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.

G1. The information in Section C was taken from other documentation that has been signed and endorsed by a licensed surveyor, engineer, or architect who is authorized by state or local 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-G8) is provided for community floodplain management purposes.

G4. PERMIT NUMBER	G5. DATE PERMIT ISSUED	G6. DATE CERTIFICATE OF COMPLIANCE/ACCURACY 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 is: _____ ft. (m) Datum _____
G9. BFE or (in Zone AO) depth of flooding at the building site is: _____ ft. (m) Datum _____

LOCAL OFFICIAL'S NAME TITLE

COMMUNITY NAME TELEPHONE

SIGNATURE DATE

COMMENTS

Check here if attachments

1. prepare a summary of
addition to 7157.63
per George Mead (architect)
4/11/91

BOULANGER ENGINEERING, INC.

P.O. Box 1738 • EVERGREEN, COLORADO 80439 • (303) 674-3223

**FLOOD PLAIN ANALYSIS
for the
PROPOSED ADDITION
to the
TAFEEN RESIDENCE**

Prepared for:

Gregg & Company Builders
P.O. Box 3344
Evergreen, CO 80439

J. P. Boulanger
4/21/91
Professional Engineer
10657
STATE OF COLORADO
REGISTERED PROFESSIONAL ENGINEER

April 2, 1991

Job No. 9101.62

FLOOD PLAIN ANALYSIS
for the
TAFEEN RESIDENCE

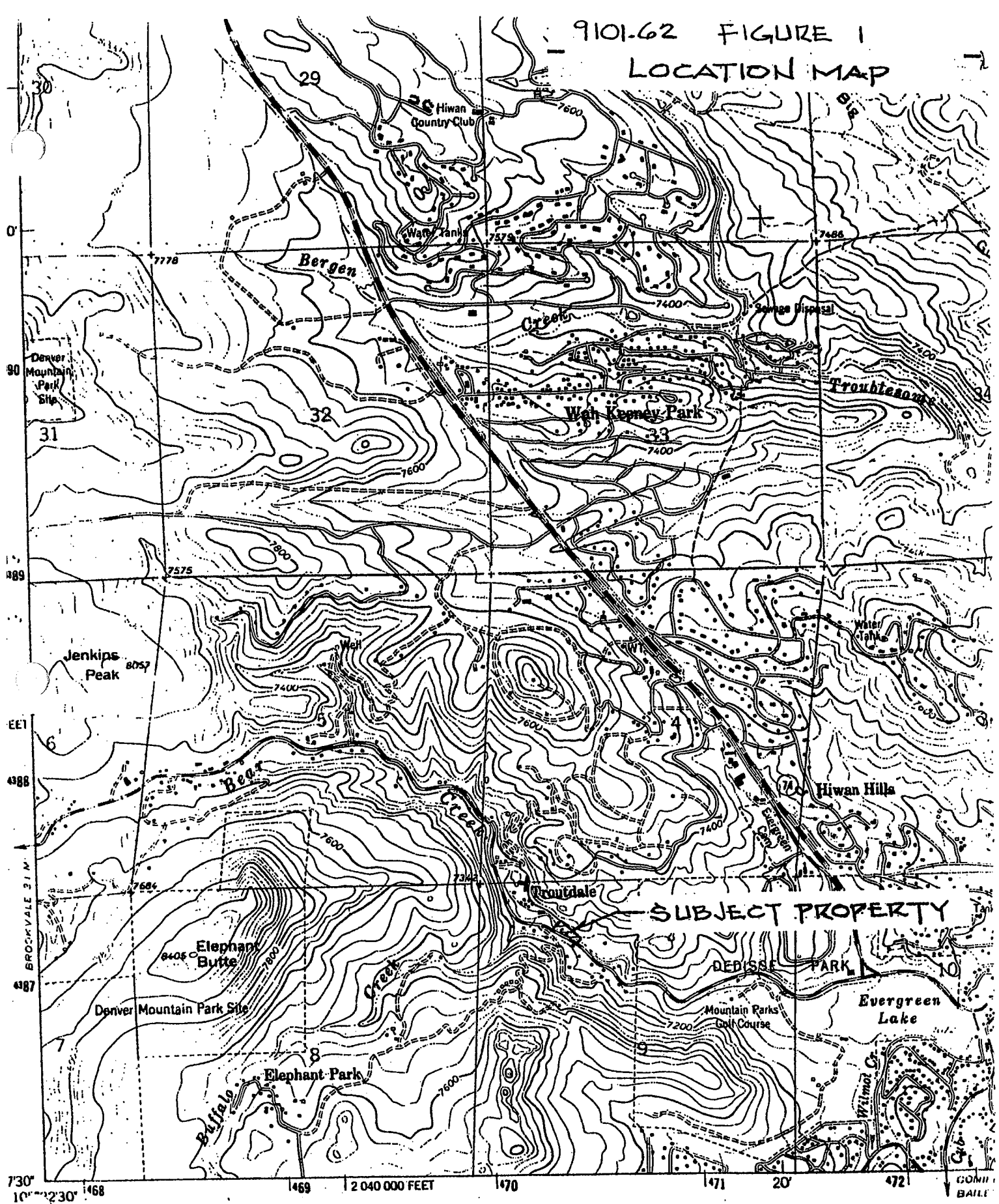
It is proposed to construct a small addition to the Tafeen residence located at 30393 Upper Bear Creek Road, Evergreen, Colorado. This residence is shown on the flood plain maps to lie within the 100 year flood plain, therefore, before a building permit can be issued for this addition it must be shown that its construction does not raise the water surface elevation of the 100 year flood plain.

This property is located just below the confluence of Buffalo Creek with Bear Creek. The summary of discharges obtained from the Jefferson County Department of Highways and Transportation states that for Bear Creek and for the storm of 100 year intensity the peak discharge above the confluence of Buffalo Creek is 4,200 c.f.s. and that for Buffalo Creek the peak discharge at its mouth is 1,040 c.f.s. Therefore, for the Tafeen property the peak discharge is 5,240 c.f.s. Figure 1 is a location map which shows the location of the property.

Four sections were taken through the property as shown on figure 2. These sections are plotted on figures 3 & 4. Using the data from these sections the input shown on figure 5 was prepared for input into the Corps of Engineers HEC-2 program with the summary results of the program output shown on figure 6. The resulting water surface elevations (CWSEL) were plotted on the cross sections, where it can be seen that the water surface was at the base of the proposed addition indicating that the addition would have no effect on the flood plain elevation. However, to provide more assurance the program was run with the encroachment included (X3 card) as shown on the input listing (figure 7) and the confirmation shown on the summary output (figure 8).

It is our conclusion that the construction of the proposed addition will have no adverse effect on the water surface elevation of the 100 year discharge.

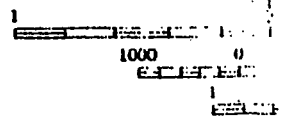
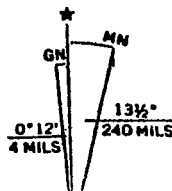
9101-62 FIGURE 1
LOCATION MAP

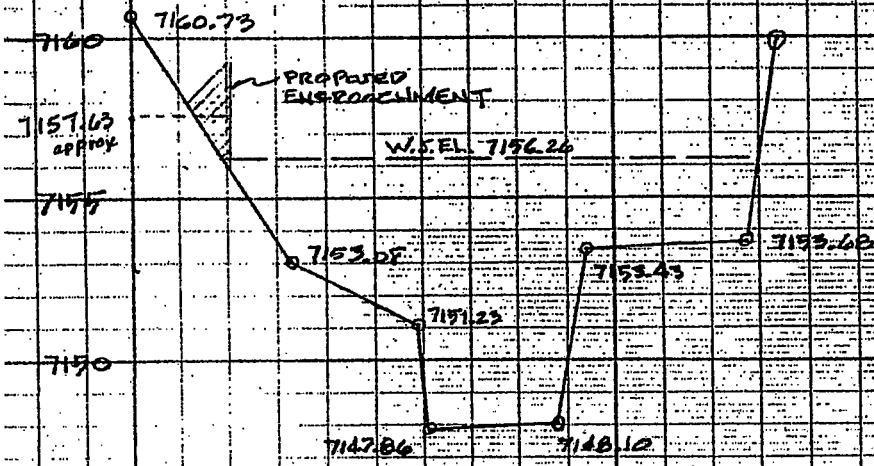


Mapped, edited, and published by the Geological Survey
Revised in cooperation with the Inter-County
Regional Planning Commission

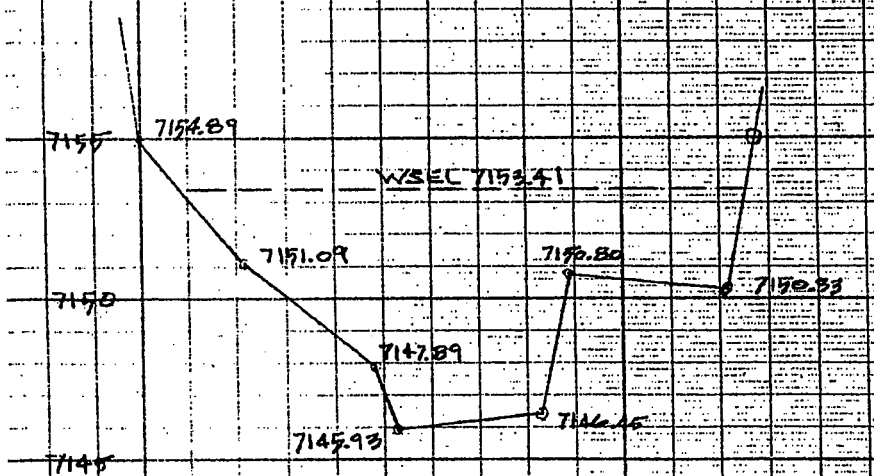
Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs
taken 1953 Field checked 1957. Revised from
1964 Field checked 1965





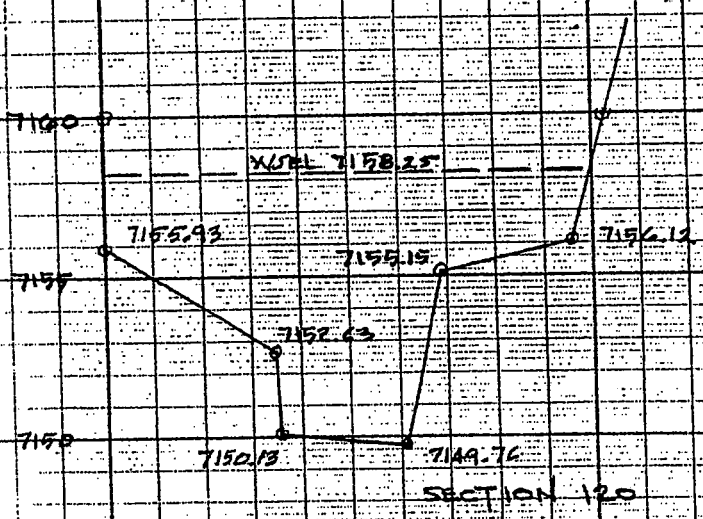
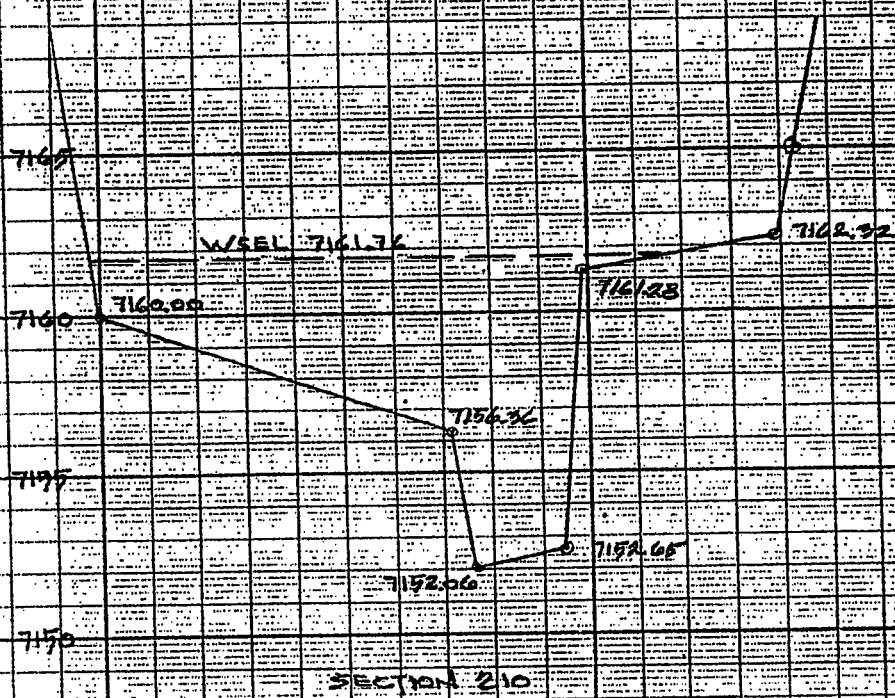
SECTION 70



SECTION 0

100

200



afeen residence at 30393 Upper Bear Creek Road, Evergreen, Colorado
 ater Surface Elevation for 100 year intensity storm - before addition
 Upper Bear Creek w/o addition

0	0	0	0	-1	0	0	5240	7152	0
0.040	0.040	0.040	0	0	0	0	0	0	1
0.00	8	48	89	0	0	0	0	0	1
7154.9	0	7151.1	22	7147.9	48	7145.9	53	7146.5	82
7150.8	89	7150.3	121	7155.0	128				
70.00	8	59	94	67	72	70	0	0	1
7160.7	0	7153.1	33	7151.2	59	7147.9	61	7148.1	88
7153.4	94	7153.7	127	7160.0	134				
120.00	7	35	69	59	50	45	0	0	1
7155.9	0	7152.6	35	7150.1	36	7149.8	61	7155.2	69
7156.1	96	7160.0	103						
210.00	7	72	99	80	103	90	0	0	1
7160.0	0	7156.4	72	7152.1	76	7152.7	95	7161.3	99
7162.3	139	7165.0	143						

r..

lp=F1

Col=32 Line=4

S U M P O

Interactive Summary Printout
for MS-DOS/PC-DOS micro computers
July 1988 version

Proposed $FF_d = 7157.63$
100yr WSE = $\frac{7156.26}{1.37}$

TE - Asterisk (*) at left of profile number
indicates message in summary of errors
list

per Bear Creek w/o ad

Summary Printout Table 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRISW
.00	.00	.00	.00	7145.90	5240.00	7153.41	7153.41
70.00	70.00	.00	.00	7147.90	5240.00	7156.26	7156.26
120.00	45.00	.00	.00	7149.80	5240.00	7158.25	7158.25
210.00	90.00	.00	.00	7152.10	5240.00	7161.76	7161.76

10K*S	VCH	AREA	0.01K	Q	CWSEL	DIFWSP
7155.46	99.62	12.85	490.59	524.99	5240.00	7153.41 .00
7158.35	93.40	13.06	490.97	542.19	5240.00	7156.26 .00
7160.48	98.08	13.43	474.79	529.10	5240.00	7158.25 .00
7163.83	103.49	13.30	487.11	515.10	5240.00	7161.76 .00

DIFWSX	DIFKWS	TOPWID	XLCH
.00	1.41	116.99	.00
2.85	.00	110.56	70.00
1.99	.00	99.86	45.00
3.51	.00	117.28	90.00

Summary of Errors and Special Notes

UTION	SECNO=	.000	PROFILE=	1	Critical depth assumed
UTION	SECNO=	70.000	PROFILE=	1	Critical depth assumed
UTION	SECNO=	70.000	PROFILE=	1	Probable minimum specific energy
UTION	SECNO=	70.000	PROFILE=	1	20 trials attempted to balance WSEL
UTION	SECNO=	120.000	PROFILE=	1	Critical depth assumed
UTION	SECNO=	120.000	PROFILE=	1	Probable minimum specific energy
UTION	SECNO=	120.000	PROFILE=	1	20 trials attempted to balance WSEL
UTION	SECNO=	210.000	PROFILE=	1	Critical depth assumed
UTION	SECNO=	210.000	PROFILE=	1	Probable minimum specific energy
UTION	SECNO=	210.000	PROFILE=	1	20 trials attempted to balance WSEL

rafeen residence at 30393 Upper Bear Creek Road, Evergreen, Colorado
 Water Surface Elevation for 100 year intensity storm - with addition
 Upper Bear Creek w/ addition

0	0	0	0	-1	0	0	5240	7152	0
0.040	0.040	0.040	0	0	0	0	0	0	1
0.00	8	48	89	0	0	0	0	0	1
154.9	0	7151.1	22	7147.9	48	7145.9	53	7146.5	82
150.8	89	7150.3	121	7155.0	128				
70.00	8	59	94	67	72	70	0	0	1
0	0	0	21						
160.7	0	7153.1	33	7151.2	59	7147.9	61	7148.1	88
153.4	94	7153.7	127	7160.0	134				
20.00	7	35	69	59	50	45	0	0	1
155.9	0	7152.6	35	7150.1	36	7149.8	61	7155.2	60
156.1	96	7160.0	103						
210.00	7	72	99	80	103	90	0	0	1
160.0	0	7156.4	72	7152.1	76	7152.7	95	7161.3	90
162.3	139	7165.0	143						

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1 of 51

Col=1 Line=1

S U M P O

Interactive Summary Printout
for MS-DOS/PC-DOS micro computers
July 1988 version

TE - Asterisk (*) at left of profile number
indicates message in summary of errors
list

per Bear Creek w/o ad

Summary Printout Table 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIS
.00	.00	.00	.00	7145.90	5240.00	7153.41	7153.41
70.00	70.00	.00	.00	7147.90	5240.00	7156.26	7156.26
120.00	45.00	.00	.00	7149.80	5240.00	7158.25	7158.25
210.00	90.00	.00	.00	7152.10	5240.00	7161.76	7161.76

	10K*S	VCH	AREA	0.01K	Q	CWSEL	DIFWSP
7155.46	99.62	12.85	490.59	524.99	5240.00	7153.41	.00
7158.35	93.40	13.06	490.97	542.19	5240.00	7156.26	.00
7160.48	98.08	13.43	474.79	529.10	5240.00	7158.25	.00
7163.83	103.49	13.30	487.11	515.10	5240.00	7161.76	.00

IFWSX	DIFKWS	TOPWID	XLCH
.00	1.41	116.99	.00
2.85	.00	110.56	70.00
1.99	.00	99.86	45.00
3.51	.00	117.28	90.00

Summary of Errors and Special Notes

JTION	SECNO=	.000	PROFILE=	1	Critical depth assumed
JTION	SECNO=	70.000	PROFILE=	1	Critical depth assumed
JTION	SECNO=	70.000	PROFILE=	1	Probable minimum specific energy
JTION	SECNO=	70.000	PROFILE=	1	20 trials attempted to balance WSEL
JTION	SECNO=	120.000	PROFILE=	1	Critical depth assumed
JTION	SECNO=	120.000	PROFILE=	1	Probable minimum specific energy
JTION	SECNO=	120.000	PROFILE=	1	20 trials attempted to balance WSEL
JTION	SECNO=	210.000	PROFILE=	1	Critical depth assumed
JTION	SECNO=	210.000	PROFILE=	1	Probable minimum specific energy
JTION	SECNO=	210.000	PROFILE=	1	20 trials attempted to balance WSEL