City of Golden
Council Memorandum

To: The Honorable Mayor and City Council
From: Dan Hartman, Public Works Director
Through: Michael C. Bestor, City Manager
Date: June 27, 2006
Subject: Floodplain Development Permit Approval—715 Arapahoe Street

Background:
The owner of the property at 715 Arapahoe Street has applied for a building permit and Floodplain Development Permit to construct a single family residence on the property. This property is in the Arapahoe Gulch Special Flood Hazard Area (the “100-year floodplain”).

Section 19.20.040 of the Golden Municipal Code requires the City Engineer to review all Floodplain Development Permits and to make a recommendation of approval or denial to the City Council. City Council is appointed by the Municipal Code to administer and implement the provisions of Chapter 19 regarding Development in the Floodplain. Construction in the floodplain can be permitted if it meets certain criteria established in the Golden Municipal Code and the National Flood Insurance Program.

Vince Auriemma, our City Engineer, has reviewed the permit application and has determined that the proposed construction meets the provisions of Chapter 19 of the Golden Municipal Code and the National Flood Insurance Program.

Fiscal Impact:
There is no fiscal impact to the City for approving or denying the Floodplain Development permit.

Alternatives:
The alternative is to not approve the Floodplain Development Permit for the proposed residence at 715 Arapahoe Street.

Recommendations:
The City Engineer recommends that the City Council approve the Floodplain Development Permit for the proposed single family residence at 715 Arapahoe Street, which is the subject of building permit number 2006-340.
**CITY OF GOLDEN**

**FLOODPLAIN DEVELOPMENT PERMIT**

1445 10th Street
Golden, Colorado 80401
City Engineer's Office: (303) 384-8156
Fax: (303) 384-8161
www.cityofgolden.net

**Permit Number**

<table>
<thead>
<tr>
<th>Date</th>
<th>Permit Number</th>
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<tbody>
<tr>
<td>L-30-06</td>
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</table>

**Job Address**

715 ARAPAHOE ST UNIT C

**Unit or Suite**


**Zip Code**


**Subdivision**

MALTESE MINOR REPLAT

**Lot/Block**

1/18

**Property Owner**

**Owner's Mailing Address**

**City**

**State**

**Zip Code**

**Contractor/Applicant**

TURKEY CREEK CONST.

**Registration #**

**Contact Person**

**Phone No.**

**Architect**

**Mailing Address, City, State & Zip Code**

**Phone No.**

**Engineer**

JACK WHITE, PE

**Mailing Address, City, State & Zip Code**

**Phone No.**

10981 ACOWA ST.
NORTHGLASS CO 80234

**Type of Improvement**

- [x] New Construction
- [ ] Substantial Improvement (>50%)
- [ ] Improvement (<50%)
- [ ] Remodel/Rehabilitation
- [ ] Other (describe)

**Project Description**

- [ ] Single Family Residential
- [x] Multifamily Residential
- [ ] Manufactured/Mobile Home
- [ ] Commercial/Industrial
- [x] NEW SFR

**Type of Sitework**

- [x] Channelization
- [ ] Fill
- [ ] Bridge/culvert
- [ ] Levee
- [ ] Other (describe)

**No Change to Existing Grade**

**Watercourse Name**

ARAPAHOE GULCH

**Elevation req'd for lowest floor/floodproofing**

5703.91

**Project proposed in the**

Floodway ✔️ Floodway Fringe

**Source document/report/map**

WRIGHT WATER-ARAPAHOE FLOODPLAIN MAP

**Base flood elev. (100-year) at site**

5702.91

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**NOTICE!!!**

The degree of flood protection provided by the terms of the Golden Municipal Code is, after consideration of numerous relevant factors, considered reasonable for regulatory purposes. Floods of greater magnitude may occur and flood heights may be increased as a result of natural or manmade causes. Further, provisions of these regulations do not imply that areas outside the designated floodplains or land uses permitted within such floodplains will be free from flooding or flood damages. The grant or approval by the city under the regulations as contained in Municipal Code Chapters 19.04 through 19.36 shall not constitute a representation, guarantee, or warranty of any kind or nature by the city, or by any officer, board member, or employee thereof of the practicability or safety of any structure, building, or other proposed use, and shall create no liability upon or cause of action against such public body, officer, board member or employee of the city for any damages from flood or otherwise that may result from such use.

I have read and understand this Notice (initial here)

[Signature]

Property Owner or Contractor or Authorized Agent Signature

[Signature]

City of Golden Floodplain Administrator or designee approval

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**Proposal Review Checklist**

<table>
<thead>
<tr>
<th>Proposal Review Checklist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plans depict floodway and base flood elev.</td>
</tr>
<tr>
<td>Engineering data for map and floodway revision</td>
</tr>
<tr>
<td>Floodway cert. and data show no inc. in flood height</td>
</tr>
<tr>
<td>Subdivision plans minimizes flood damage/protect utilities</td>
</tr>
<tr>
<td>Lowest floor elevations are above base (100-yr) flood level</td>
</tr>
<tr>
<td>Mfg. and mobile homes are elevated and anchored</td>
</tr>
<tr>
<td>Non-residential floodproofing design meets NFIP stds.</td>
</tr>
<tr>
<td>Valuation of proposed work</td>
</tr>
</tbody>
</table>

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**Date**

7-14-06

**City of Golden Floodplain Administrator or designee approval**

[Signature]

[Date]

7-14-06
June 15, 2006

Vince Auriemma
Public Works Department
City of Golden
1445 10th St.
Golden, CO 80401

RH: 715 ARAHAHOE ST., GOLDEN

Dear Mr. Auriemma:

The benchmark used for the survey is known as "Curly" set by Jefferson County which is located on the 6th Avenue frontage road between Indiana and Simm Streets:

The elevation of the proposed building is as follows:

NE Corner: 5702.89 feet
SE Corner: 5701.58 feet
SW Corner: 5700.94 feet

For elevation determination the 1988 datum was used.

Respectfully yours,

Glenn True
P.L.S. 9996
Alpine Surveying Co.

6/26/06
Met w/Ken—he will revise plans and show flood vents.

No tie to a 1929 BM.

didn't know to have the surveyor call me.

2pm 6/21/06
The NGS Data Sheet

See file dsdata.txt for more information about the datasheet

DATABASE = Sybase, PROGRAM = datasheet, VERSION = 7.36
1 National Geodetic Survey, Retrieval Date = JUNE 2

AA7126 *****************************************
AA7126 DESIGNATION - CURLY
AA7126 PID - AA7126
AA7126 STATE/COUNTY- CO/JEFFERSON
AA7126 USGS QUAD - MORRISON (1994)
AA7126
AA7126 *CURRENT SURVEY CONTROL
AA7126
AA7126* NAD 83(1992)- 39 43 28.76492(N) 105 09 45.24087
AA7126* NAVD 88 - 1794.1 (meters) 5886.
AA7126
AA7126 X - -1,285,212.904 (meters)
AA7126 Y - -4,742,613.364 (meters)
AA7126 Z - 4,055,655.419 (meters)
AA7126 LAPLACE CORR- -17.15 (seconds)
AA7126 ELLIP HEIGHT- 1778.13 (meters) (12
AA7126 GEOID HEIGHT- -15.98 (meters)
AA7126
AA7126 HORZ ORDER - FIRST
AA7126 ELLP ORDER - FOURTH CLASS II
AA7126
AA7126 The horizontal coordinates were established by GPS o
AA7126 and adjusted by the National Geodetic Survey in Augu
AA7126
AA7126 The orthometric height was determined by GPS observa
AA7126 high-resolution geoid model.
AA7126
AA7126 The X, Y, and Z were computed from the position and
AA7126
AA7126 The Laplace correction was computed from DEFLEC99 de
AA7126
AA7126 The ellipsoidal height was determined by GPS observa
AA7126 and is referenced to NAD 83.
AA7126

The geoid height was determined by GEOID03.

<table>
<thead>
<tr>
<th></th>
<th>North</th>
<th>East</th>
<th>Units</th>
<th>Scale</th>
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<tr>
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<td>3,094,914.20</td>
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<td>AA7126; UTM 13</td>
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<td>486,067.759</td>
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</tbody>
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Elev Factor x Scale Factor = Com

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>AA7126; SPC CO C</td>
<td>0.99972112 x 0.99999508 = 0.9</td>
</tr>
<tr>
<td>AA7126; UTM 13</td>
<td>0.99972112 x 0.99960239 = 0.9</td>
</tr>
</tbody>
</table>

SUPERSEDED SURVEY CONTROL

ELLIP H (08/03/95) 1778.17 (m)

Superseded values are not recommended for survey con
NGS no longer adjusts projects to the NAD 27 or NGVD
See file dsdata.txt to determine how the superseded

U.S. NATIONAL GRID SPATIAL ADDRESS: 13SDD8606897210(
MARKER: DD = SURVEY DISK
SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
STAMPING: CURLY 1994
MARK LOGO: JCMD
MAGNETIC: N = NO MAGNETIC MATERIAL
STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJEC
SURFACE MOTION
THE SITE LOCATION WAS REPORTED AS SUITABL
SATELLITE OBSERVATIONS - May 09, 2000
HISTORY - Date Condition Report By
HISTORY - 1994 MONUMENTED JCMD
HISTORY - 20000509 GOOD LOCEANG

STATION DESCRIPTION

DESCRIBED BY JEFFERSON COUNTY MAPPING DEPARTMENT 199
THE STATION WILL BE USED DURING A COLORADO HARN DENS
PROJECT.

THE STATION IS LOCATED ABOUT 5 MI (8.0 KM) NORTH-NOR
MORRISON, 4 MI (6.4 KM) SOUTHEAST OF GOLDEN AND 1 MI
NORTHWEST OF RED ROCKS COMMUNITY COLLEGE, IN THE NOR

AA7126'SECTION 7, T 4 S, R 69 W, 6TH P.M. OWNERSHIP--CITY O
AA7126'
AA7126'TO REACH THE STATION FROM THE INDIANA STREET UNDERPA
AA7126'AVENUE, GO SOUTH ON INIDANA STREET FOR 0.15 MI (0.24
AA7126'LIGHT AND INTERSECTION. TURN LEFT, EAST, ON THE SOUT
AA7126'WEST SIXTH AVENUE AND PROCEED 0.15 MI (0.24 KM) TO T
AA7126'LEFT.
AA7126'
AA7126'THE DISK IS A STANDARD JEFFERSON COUNTY MAPPING DEPA
AA7126'SET IN A 30 CM DIAMETER ROUND CONCRETE POST FLUSH WI
AA7126'IS 55.7 M (182.7 FT) WEST OF THE EXTENDED CENTER OF
AA7126'35.8 M (117.5 FT) WEST OF THE WEST END OF A GUARD RA
AA7126'FT) EAST OF THE EXTENDED CENTER OF THE DRIVEWAY AT 1
AA7126'AVENUE, 5.9 M (19.4 FT) NORTH OF THE CENTER OF THE F
AA7126'M (11.8 FT) SOUTH OF A CHAINLINK RIGHT-OF-WAY FENCE,
AA7126'WEST OF A HIGHWAY DELINEATOR AND FIBERGLASS NGS WITH
AA7126'(3.12 FT) NORTH OF THE NORTH CURB OF THE FRONTAGE RO
AA7126'LEVEL WITH THE FRONTAGE ROAD VERNON CANYON ROAD, 0.5
AA7126'OF A NGS FIBERGLASS WITNESS POST, AND ABOUT 3.4 M (1
AA7126'ROAD.

STATION RECOVERY (2000)

AA7126

AA7126'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM)
AA7126'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = JUNE 2

KK1370 **********************************************

KK1370 DESIGNATION - L 407
KK1370 PID - KK1370
KK1370 STATE/COUNTY- CO/JEFFERSON
KK1370 USGS QUAD - GOLDEN (1994)

KK1370

*CURRENT SURVEY CONTROL

KK1370


KK1370* NAVD 88 - 1742.805 (meters) 5717.85

KK1370 GEOID HEIGHT- -15.52 (meters)

KK1370 DYNAMIC HT - 1741.057 (meters) 5712.12

KK1370 MODELED GRAV- 979,562.9 (mgal)

KK1370 VERT ORDER - FIRST CLASS II
The horizontal coordinates were scaled from a topographic datum with an estimated accuracy of +/- 6 seconds.

The orthometric height was determined by differentiating the geopotential number by the normal gravity value computed by the National Geodetic Survey in June 1980 (GRS 80) ellipsoid, degrees latitude (g = 980.6199 gals.).

The geoid height was determined by GEOD03.

The dynamic height is computed by dividing the NAVD geopotential number by the normal gravity value computed by the National Geodetic Survey.

Geodetic Reference System of 1980 (GRS 80) ellipsoid, degrees latitude (g = 980.6199 gals.).

The modeled gravity was interpolated from observed g values.

North East Units East
518,870.  938,090.  MT (+/

SUPERSEDED SURVEY CONTROL

NGVD 29 (??/??/??) 1741.828 (m) 5714.65

Superseded values are not recommended for survey control purposes.

NGS no longer adjusts projects to the NAD 27 or NGVD 1929.

See file dsdata.txt to determine how the superseded control points are used.

U.S. NATIONAL GRID SPATIAL ADDRESS: 13SDE808012(NAD 1983)

MARKER: DB = BENCH MARK DISK

SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE STRUCTURE

MARK LOGO: NGS

STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

HISTORY - Date
1984 MONUMENTED

NGS

STATION DESCRIPTION

DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

IN GOLDEN, AT THE JUNCTION OF STATE HIGHWAY 58 AND F

VERTICALLY IN THE SOUTHWEST FACE OF THE MOST NORTHWEST

http://www.ngs.noaa.gov/cgi-bin/ds_county.prl
KK1370'COLUMNS OF THE 2ND PIER NORTHEAST OF THE SOUTHWEST A
KK1370'HIGHWAY OVERPASS OVER THE STREET, AND 10.4 METERS (3
KK1370'OF THE CENTERLINE OF THE STREET.
KK1370'THE MARK IS 1.4 M ABOVE THE GROUND.

*** retrieval complete.
Elapsed Time = 00:00:00
Mr. Ken Ferrier  
Turkey Creek Construction  
16048 Turkey Creek Road  
Morrison, Colorado 80465  
Telephone: (O) 303-697-5429 
(C) 303-718-6115

Subject: Subsurface exploration for a proposed residence which is to be constructed at the rear of a developed property and which will have the address 715 C Arapahoe Street, Golden, Jefferson County, Colorado. Purported legal description: Lot 1, Block 18, Maltese Minor Replat.

Dear Mr. Ferrier:

As requested, we conducted a subsurface exploration to develop foundation design recommendation for the proposed construction at the subject site on May 10, 2006. The subsurface exploration was performed by drilling two test borings to depths of 20'-0" and 20'-0" within the planned construction area. The locations of the test borings and the logs of subsurface materials are enclosed. The discussion and recommendations presented below are based on the results of data gathered during the subsurface exploration, observation of general field conditions, and previous experience in the area with similar materials.

PROPOSED CONSTRUCTION

Based on conversations, we understand that a two-story house which will not have a basement level will be constructed at the location shown on Figure #1. Our client has told us that the site is located in a flood plain and that the grade over the homesite will need to be raised about 1 foot to elevate it above flood level. In view of these considerations, our client's stated intention is to construct the ground level floor as a slab-on-grade within reinforced concrete foundation frost walls.
SITE AND SUBSURFACE CONDITIONS

The site of the proposed construction is a gently sloping developed parcel in an urban area. The site is apparently zoned for more than one structure and an existing multi-unit dwelling is located about 24 feet to the southwest of the proposed homesite.

The proposed structure will be built in the rear portion of the property over the area of our foundation test borings, whose locations are shown on Figure 1. Generally speaking, the ground surface in the area of the proposed construction slopes toward the southeast at about 0 to 3 percent. The existing ground cover consists of grass, weeds, trees, shrubs, bark chips and other thin fill deposits.

A notable site feature is located about 20 feet to the northeast of the proposed structure near and along the rear property line. A flowing drainageway, having a depth of 7.5 feet (±) and having a stone-retained side, is located here. We strongly recommend that the proposed structure be located no nearer to the rear property line than is shown herein on Figure 1.

Subsurface conditions encountered by the test borings are variable with depth below groundlevel. Foundation Boring #1, which was drilled near the southwest corner of the proposed construction, encountered variable consistency and moist topsoil materials from groundlevel to a depth of 0'-6"(±); moderate consistency and moist to very moist sand-clays from 0'-6"(±) to 14'-0"; and moderate density and wet clayey gravel and sand materials from 14'-0" to at least 20'-0", the maximum depth explored.

Foundation Boring #2, which was drilled in the north portion of the proposed construction, encountered variable consistency and moist topsoil materials from groundlevel to a depth of 0'-6"(±); moderate consistency and moist to very moist sand-clays from 0'-6"(±) to 15'-0"; and moderate density and wet clayey gravel and sand materials from 15'-0" to at least 20'-0". Free groundwater formed in the borings at depths of 12'-0" and 14'-2" while we were at the site.

TEST RESULTS AND GEOTECHNICAL CONSIDERATIONS

The subsurface materials encountered were carefully observed as the cuttings were recovered from the test borings, and the resistance of the materials to the advancement of the drilling augers was noted. In addition, Field Penetration Tests were performed at selected depths to assist in evaluating the
allowable bearing value of the soils and to provide undisturbed samples for precise examination and testing. The results of swell-consolidation tests and grain size analysis which were performed on representative subgrade samples are attached to this report.

Based on the results of the exploration combined with previous experience with similar subsoil conditions, the most pertinent foundation engineering characteristics and considerations at the site are as follows:

1. The sand-clay soils encountered above and below the typical depth of frost penetration are susceptible to frost action. Therefore, the structural foundation footings should bear at least 3 feet below ground level to provide protection against frost action. The footings should also bear at least 3 feet below present ground level at all locations to reduce the risk that upper weak soil areas are located at bearing level.

2. The sand-clay soils encountered at and below the proposed bearing level of 3 feet are non swelling at the observed moisture and density levels. The allowable bearing capacity of this layer is low-moderate based on the attached test results.

3. Proposed frost wall level footings should be designed for a relatively low allowable bearing value in order to reduce the risk of differential settlement of the foundation elements.

4. The owner and the foundation contractor should understand that clayey soils exposed at bearing level may become more expansive and potentially damaging to slabs and foundations if they dry and are over compacted to high density levels at low moisture contents. If it is necessary to rework and compact clayey subgrade materials, the compacted density should be 95 percent of standard Proctor maximum density and the moisture content should be optimum moisture content plus 2 percent.

FOUNDATION RECOMMENDATIONS

Conventional Footing Foundation System

Footings should be constructed to bear at least 3.0 feet below existing and final grade to provide protection against frost action. Any and all disturbed or
incompetent soils present at bearing level should be removed and replaced with properly compacted structural fill as defined in a later report section. All footing foundations for the proposed construction which are placed as indicated above should be designed for a maximum allowable soil bearing pressure of 1,200 psf. The exact determination of actual foundation sizes and areas will be made based on the plans for the proposed construction, the criteria given above, and calculations by the foundation design engineer. In addition, we recommend that all continuous concrete foundation walls contain sufficient horizontal reinforcing to enable them to span an unsupported distance of at least 15 feet or greater as may be required by the design.

**LATERAL EARTH PRESSURES ON FOUNDATIONS**

Desirable materials for use as backfill adjacent to foundation walls are well graded granular materials such as CDOT class 6 base. In the event that the owner desires to use site soils as exterior backfill, the most friable and clod free soils from the excavation may be considered for use as backfill for foundation walls. Provided that the fill is moderately compacted using suitable equipment to the extent that it does not settle after construction, any walls which are subject to unbalanced lateral earth pressures should be designed for an equivalent fluid unit weight of at least 50 pounds per cubic foot. Care must be taken not to overcompact the backfill or to operate heavy equipment above the foundation wall backfill since this may result in excessive lateral forces on the foundation walls. Do not puddle the backfill since the trapped moisture will percolate downward over time and may result in subgrade movement.

**PREPARATION OF UNSUITABLE FOUNDATION BEARING AREAS**

Professional care must be used in the preparation of all foundation bearing areas in order to help optimize future foundation performance. Prior to foundation construction the base of the completed excavation should be thoroughly prepared. All unsuitable foundation materials, including all loose, incompetent, disturbed, and frozen soils, must be completely removed from foundation bearing areas and the resulting excavation backfilled with good quality, non expansive, structural fill materials (CDOT class 6 base is acceptable) compacted to 100 percent of standard Proctor maximum density at optimum moisture content or else the foundations must be extended sufficiently deep to bear on the underlying natural undisturbed materials. All structural fill must be compacted in 6-inch lifts to the stated density level and
moisture content. The compacted backfill must extend upward to the level of all structural foundation elements.

**FLOOR SYSTEMS**

Generally speaking, we prefer the use of a groundlevel floor which is structurally supported over a crawl space to the use of a groundlevel slab-on-grade floor. We believe that a structurally supported floor has a lower risk of subgrade induced movement over time. Nevertheless, we also agree with our client that the presence of a flood plain at the site tends to support the use of a slab-on-grade floor. Therefore, we will not oppose the use of a slab floor provided that excellent subgrade preparation is performed and that all related recommendations and requirements contained herein are carefully followed.

As indicated above, it is possible that some future slab movement could occur due to volume change of the sand-clay subgrade soils. Therefore, the details outlined below should be carefully followed. These measures may not necessarily prevent slab movements. However, they will help prevent any slab movements that do occur from affecting either the foundation system or the building.

1. Initially, remove all existing topsoil and all other compressible materials present over the proposed slab area. Use compacted structural fill as backfill to establish the design slab bearing level. We recommend that at least 12 inches of structural fill be placed below slab bearing level.

2. Separate the slabs from all bearing members and utility lines to allow their independent movement—construct "floating" slabs. Provide positive control joints at the junction of the slabs with foundation walls, and provide frictionless sleeves for all utility lines and columns which pass through slabs.

3. Contraction joints having a minimum depth of 1/4 of the thickness of the slabs and a width of at least 1/8-inch should be scored or sawed at spacings not to exceed 10'-0" on centers.

4. Construct a minimum 2-inch slip joint above or below partitions on slabs. In addition, flexible connections should be provided for all slab bearing mechanical equipment to allow for at least 2 inches of free vertical movement.
5. All clayey materials present should be maintained to prevent them from becoming expansive. Clayey materials may become expansive if they dry or if they are overcompacted to a high density level. In the event it becomes necessary to rework any of the existing subgrade soils below slabs, they should be uniformly compacted to 95 percent of standard Proctor maximum density at their optimum moisture content plus 2 percent to limit their potential for expansion. If the excavation is to be open and exposed to hot, dry conditions for more than a day or so, the surface can be temporarily covered with a moisture barrier to prevent drying and evaporation from occurring.

STRUCTURAL FILL REQUIREMENTS

Structural fill should be used below flatwork in all areas where fill is needed to establish the design slab grade and/or to replace incompetent soils. Likewise, structural fill should be used to restore grade following the removal of incompetent materials from below the locations of footings. Structural fill should also be used in any other areas where structural accessories would be negatively affected by ground shifting over time. Structural fill should be placed in accordance with accepted good practice.

We recommend that the structural fill conform to the Colorado Department of Transportation requirement for class 6 aggregate base course. As an option clean, sound, crushed rock with a nominal size of 3/4 inch can be used. The standard Proctor procedure (ASTM D698) should be used to develop the compaction curve(s) for the fill soil(s) to be used. All such fill must be uniformly moisture conditioned to within 2% below to 2% above optimum moisture content and compacted with appropriate equipment in thin lifts not exceeding 6 inches in compacted thickness. Depending on location, the following minimum percentages of the maximum dry density as determined by the standard Proctor procedure are recommended for structural fill and backfill:

- Below footing foundations .................................. 100%
- Below floor slabs ............................................. 95%
- Below paved areas .......................................... 95%
- Behind retaining walls ...................................... 92-94%
- Common fill area .............................................. 90%
BACKFILL AND SURFACE DRAINAGE

In order to optimize structural performance over time, the foundation soils should be protected from being excessively wetted after construction. This can generally be assisted by using a suitable backfill and by compacting the backfill sufficiently so that it does not settle following construction. Some moisture can be blended with the backfill in the stockpile but away from foundation locations to facilitate compaction. However, the backfill must not be puddled.

If any settlement should occur in the backfill, it could adversely affect utility lines which transmit fluids and pass through the foundation walls. It is not uncommon for such piping to shear at the foundation walls due to movements in the backfill. It is recommended that the pipes pass through slotted openings in the foundation walls or that flexible connections be used to compensate for shifting of the foundation wall backfill. It is also recommended that all water lines be carefully pressure tested prior to final acceptance and that any leaks detected be repaired.

The final grade should be sloped away from the structure on all sides. A minimum slope of 10 percent in the first 10 feet is recommended. All downspouts should discharge into extensions which slope away from the foundation walls and extend beyond the limits of all backfill. The points of discharge should be at least 5 feet from the foundation walls or onto paved areas and good drainage should be maintained at and beyond these points.

SUBSURFACE UNDERDRAIN

The results of the exploration indicate that a subsurface underdrain system is not required for the proposed non basement construction.

LIMITATIONS

The above recommendations are based on the exact location where the test holes were drilled, the proposed construction, and the assumption that the subsurface conditions do not vary greatly from those encountered in the test borings. In the event that any unforeseen conditions different from those described herein are encountered, the soil engineer must be notified immediately. The exploration covered in this report has been conducted in accordance with commonly accepted geotechnical engineering practice in the Denver area, and no other warranty, expressed or implied, is made.
This report has presented basic foundation design recommendations. If you should have any questions, or if I can be of further service, please do not hesitate to give me a call for clarification.

Sincerely yours,

Michael A. Laird, P.E.
Consulting Engineer

MAL/vjs
enc
# LOG OF SUBSURFACE CONDITIONS

(See Figure 1 for Test Hole Locations)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td><strong>FOUNDATION TEST BORING #1</strong></td>
<td></td>
</tr>
<tr>
<td>0'-0&quot; - 0'-0&quot; (±)</td>
<td><strong>TOPSOIL (SC)</strong>, variable consistency, sand and clay mixture with humic matter and extraneous fill, black-brown, moist.</td>
</tr>
<tr>
<td>0'-6&quot;(±) - 14'-0&quot;</td>
<td>* <strong>SAND-CLAY (SC)</strong>, moderate consistency, coarse to fine grained sands and gravelly sands with a variable amount of silt and clay, black-brown to brown, moist to very moist.</td>
</tr>
<tr>
<td>14'-0&quot; - 20'-0&quot;</td>
<td><strong>CLAYEY GRAVEL &amp; SAND (GC-SC)</strong>, moderate density, brown, wet.</td>
</tr>
</tbody>
</table>

*NOTE: Free groundwater formed in this boring at a depth of about 12'-0" while we were at the site.

**FOUNDATION TEST BORING #2**

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>0'-0&quot; - 0'-0&quot; (±)</td>
<td><strong>TOPSOIL (SC)</strong>, variable consistency, sand and clay mixture with humic matter and extraneous fill, black-brown, moist.</td>
</tr>
<tr>
<td>0'-6&quot;(±) - 15'-0&quot;</td>
<td>* <strong>SAND-CLAY (SC)</strong>, moderate consistency, coarse to fine grained sands and gravelly sands with a variable amount of silt and clay, black-brown to brown, moist to very moist.</td>
</tr>
<tr>
<td>15'-0&quot; - 20'-0&quot;</td>
<td><strong>CLAYEY GRAVEL &amp; SAND (GC-SC)</strong>, moderate density, brown, wet.</td>
</tr>
</tbody>
</table>

*NOTE: Free groundwater formed in this boring at a depth of about 14'-2" while we were at the site.
NOTES

1. The exploratory test borings were drilled on May 10, 2006.

2. The locations of the test borings are shown on Figure 1. It is not warranted that the subsurface conditions given above are representative of conditions at other locations and other times. In the event that conditions different from those described herein are encountered during construction, the soil engineer must be notified immediately.

3. Free groundwater formed in the borings at the depths listed above while we were at the site.

TEST RESULTS

1. Field Penetration Test at 1'-6" in Boring #1: 5 blows/foot.
2. Field Penetration Test at 3'-6" in Boring #1: 7 blows/foot.
3. Field Penetration Test at 6'-0" in Boring #1: 7 blows/foot.
4. Field Penetration Test at 9'-0" in Boring #1: 8 blows/foot.
5. Field Penetration Test at 4'-0" in Boring #2: 8 blows/foot.
6. Field Penetration Test at 7'-6" in Boring #2: 10 blows/foot.
715 C ARAPAHOE STREET, GOLDEN, JEFFERSON COUNTY, COLORADO
PURPORTED LEGAL DESCRIPTION: LOT 1, BLOCK 18, MALTESE MINOR REPLAT

TEST HOLE LOCATION PLAN

1" = 30'-0"

FIGURE 1
Sample from foundation test boring #1 at a depth of 1'-6" (sand-clay):

- E = Expansion due to wetting under constant pressure
- C = Compression on wetting
- N = No movement on wetting

Moisture Content: 15.4%  
Dry Density: 103pcf

Sample from foundation test boring #1 at a depth of 3'-6" (clayey sand):

- E = Expansion due to wetting under constant pressure
- C = Compression on wetting
- N = No movement on wetting

Moisture Content: 8.7%  
Dry Density: 111pcf

FIGURE 2
SAMPLE FROM FOUNDATION TEST BORING #2 AT A DEPTH OF 4'-0" (CLAYEY SAND)

- **E** = Expansion due to wetting under constant pressure
- **C** = Compression on wetting
- **N** = No movement on wetting

**Moisture Content:** 8.5%
**Dry Density:** 112pcf

**Vertical Pressure, Ksf**
PARTICLE SIZE DISTRIBUTION ANALYSIS

SITE ___________________________ DATE SAMPL ED 5-10-06 HOLE NO. FTB#1 SAMPLE DEPTH 3'6" PROJECT NO. 4518

SAMPLE LOCATION 715 C. Arapahoe Street, Golden, Co.

REMARKS Coarse to fine grained slightly gravelly sands with a moderate silt-clay content.

HYDROMETER ANALYSIS

SIEVE ANALYSIS

TIME READINGS U.S. STANDARD SIEVE SERIES CLEAR SQUARE OPENINGS

<table>
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<tr>
<th>SIEVE NO.</th>
<th>PERCENT PASSING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0&quot;</td>
<td></td>
</tr>
<tr>
<td>1.5&quot;</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
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</tr>
<tr>
<td>#100</td>
<td></td>
</tr>
<tr>
<td>#200</td>
<td>18.6</td>
</tr>
</tbody>
</table>

DIA METER OF PARTICLES IN MILLIMETERS

CLAY (PLASTIC) TO SILT (NON-PLASTIC)

SAND MEDIUM COARSE CALCIUM GROSS Silt FINE MEDIUM COARSE GROUT

CLAY (PLASTIC) TO SILT (NON-PLASTIC)

ATTERBEG LIMITS

CLASSIFICATION

USCS SC

FIG. NO. 5
ELEVATION CERTIFICATE

LEGAL DESCRIPTION: LOTS 7-19, INCLUSIVE, BLOCK 29, EXCEPT THE SOUTHWESTERLY 30 FEET OF SAID LOTS AND EXCEPT THE NORTHWESTERLY 15' OF LOT 7, TOGETHER WITH THE WESTERLY 8' OF VACATED WASHINGTON AVENUE ABSENCE SAIL LOTS ON THE NORTHEAST, WHICH ADJOIN TO GOLDEN, COLORADO TERRITORY, COUNTY OF Jefferson, STATE OF COLORADO.

ADDRESS: 802 23RD STREET, GOLDEN, CO 80401

LEGAL: 6 SUM OF 6 ELEVATION SHOTS
45.941.6 ÷ 6 = 76.527 (THE AVERAGE ELEVATION OF THIS SITE)
572.5 (ROOF PEAK) MINUS 572.7 (AVERAGE ELEVATION EQUALS 29.8')
THE DIFFERENCE BETWEEN THE ROOF PEAK ELEVATION AND THE AVERAGE ELEVATION IS 29.8'.

LEGAL DESCRIPTION PROVIDED BY G.C.M., RECORD INFORMATION WAS OBTAINED FROM THE RECORDED PLAT OF THE PARCEL AND THE IMPROVEMENT SURVEY PLAT PREPARED BY COLORADO ENGINEERING, INC. #001103926.

NOTE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN ALL EVENT ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY MUST BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

NOTES:
1. ELEVATION SHOTS REFLECT SITE ELEVATION AS OF SEPTEMBER 12, 2008
2. BASE POINT IS THE CHEESE SQUARE IN DENVER AS SHOWN ON SITE PLAN PREPARED BY WALT ARCHITECTURAL, INC.
3. C.M. PREPARED BASE MINUS ELEVATION 572.7' U.S.N.
4. THE ELEVATION OF THE DATUM WAS NOT VERIFIED.

BY: C. 27941
BRAWN LAND SURVEYING 303-278-1782
4445 ELDORADO ST. GOLDEN, CO 80401
CHRISTINE K. BRAWN P.L.S. 27941
DATE: SEPTEMBER 23, 2008
July 19, 2007

Mike Yocum
5173 Quaker Street
Golden, CO 80403

Dear Mr. Yocum,

The N.G.V.D. 29 elevation of the finished floor in the location you specified on July 19, 2007 for the residence located at 823 9th Street is 5677.3'.

N.G.S. benchmark number M 407 (PID KK1369) located near the intersection of Ford Street and Texas Street in Golden was used to determine the aforementioned elevation. N.G.S. point number K 407 (PID KK1372) located near the intersection of Jackson Street and 16th Street was used as a check.

The N.G.S. website Vertcon was used to convert the current published N.A.V.D. 88 datum benchmark elevations to the N.G.V.D. 29 datum required by F.E.M.A..

Christine K. Braning, Colorado P.L.S. 27941
Braning Land Surveying
ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name  CITY OF GOLDEN

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
911 TENTH STREET

City  GOLDEN  State  CO  ZIP Code  80401

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT 7, 8 & 9, BLOCK 31, NORTH GOLDEN SUBDIVISION, JEFFERSON COUNTY, COLORADO

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


A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 1A

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

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

b) No. of permanent flood openings in the crawlspace or
   enclosure(s) within 1.0 foot above adjacent grade
   ___ in

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

d) Engineered flood openings?  Yes  No

A9. For a building with an attached garage:

a) Square footage of attached garage  sq ft

b) No. of permanent flood openings in the attached garage
   within 1.0 foot above adjacent grade
   ___ in

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

d) Engineered flood openings?  Yes  No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
   CITY OF GOLDEN  #060903

B2. County Name  JEFFERSON COUNTY

B3. State  CO

B4. Map/Panel Number  08059CO188

B5. Suffix  E

B6. FIRM Index Date  JUNE 17, 2003

B7. FIRM Panel Effective/Revised Date  JUNE 17, 2003

B8. Flood Zone(s)  AE

B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
   5664.6

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
   1) FIS Profile  2) FIRM  3) Community Determined  4) Other (Describe)

B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other (Describe)

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?
   1) Yes  2) No  3) CBRS  4) OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:
   1) Construction Drawings*  2) Building Under Construction*  3) Finished Construction

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


Benchmark Utilized  KK1372 Vertical Datum  NAVD88

Conversion/Comments  CONVERSION TO NGVD29 ELEV. = NAVD 88 ELEV. - 3.05

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)  5667.9  feet  meters (Puerto Rico only)

b) Top of the next higher floor  5688.1  feet  meters (Puerto Rico only)

c) Bottom of the lowest horizontal structural member (V Zones only)  N.A.  feet  meters (Puerto Rico only)

d) Attached garage (top of slab)  5667.9  feet  meters (Puerto Rico only)

e) Lowest elevation of machinery or equipment servicing the building
   (Describe type of equipment and location in Comments)
   5661.9  feet  meters (Puerto Rico only)

f) Lowest adjacent (finished) grade next to building (LAG)  5667.6  feet  meters (Puerto Rico only)

g) Highest adjacent (finished) grade next to building (HAG)  5667.9  feet  meters (Puerto Rico only)

h) Lowest adjacent grade at lowest elevation of deck or stairs, including
   structural support  N.A.  feet  meters (Puerto Rico only)

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

Certifier's Name  MICHAEL C.CREGGER  License Number  22564

Title  SURVEY MANAGER  Company Name  TST INC. OF DENVER

Address  9222 TEDDY LANE  City  LONE TREE  State  CO  ZIP Code  80124

Signature  Michael C.Cregger  Date  6/15/10  Telephone  303-792-0557

FEMA Form 81-31, Mar 09  See reverse side for continuation.  Replaces all previous editions
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)


Signature: ______________________
Date: 6/15/10

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

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 and G9.

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-G9) 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 (PR) Datum _______

G9. BFE or (in Zone AO) depth of flooding at the building site: _______ feet _______ meters (PR) Datum _______

G10. Community's design flood elevation _______ feet _______ meters (PR) Datum _______

Local Official's Name

Title

Community Name

Telephone

Signature

Date

Comments

☐ Check here if attachments

FEMA Form 81-31, Mar 09

Replaces all previous editions
NONCONVERSION AGREEMENT

This DECLARATION made this 8 day of November, 2005 by Karl Decker ("Owner") having an address at 916 10th Street, Golden, Colorado.

WITNESSETH:

WHEREAS, Karl Decker is the record Owner of the property located at 916 10th Street in the City of Golden in the County of Jefferson.

WHEREAS, the Owner has applied for a permit to place a structure on that property that either may be noncompliant by later conversion, to the strict elevation requirements of Title 19 (Floodplain Hazard Areas) of the Golden Municipal Code and as verified under Permit Number 2004-304 ("Permit").

WHEREAS, the Owner agrees to record this DECLARATION and certifies and declares that the following covenants, conditions and restrictions are placed on the affected property as a condition of granting the Permit, and affects rights and obligations of the Owner and shall be binding on the Owner, his heirs, personal representatives, successors and assigns.

UPON THE TERMS AND SUBJECT TO THE CONDITIONS, as follows:

1. The structure or part thereof to which these conditions apply is: lower level crawl space, mechanical equipment room, garage, and storage area.

2. At this site, the Base Flood Elevation is 566.7 feet above mean sea level, National Geodetic Vertical Datum of 1929.

3. Enclosed areas below the Base Flood Elevation shall be used solely for parking of vehicles, limited storage, or access to the building. Mechanical, electrical or plumbing devices shall not be installed below the Base Flood Elevation.

4. The walls of the enclosed areas below the Base Flood Elevation shall be equipped and remain equipped with vents as required by Section 19.20.010(2)(c).

5. Any alterations or changes from these conditions constitute a violation of the Permit and may render the structure uninsurable or increase the cost for flood insurance. The jurisdiction issuing the Permit and enforcing the Ordinance may take any appropriate legal action to correct any violation.

In witness whereof the undersigned set their hands and seals this 8 day of 1, 2005.

[Signature]
Owner
(Seal)

[Signature]
Witness
(Seal)
ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name SARA C. DECKER

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
916 10TH STREET (NORTH OR REAR UNIT)
City GOLDEN State CO ZIP Code 80401

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT 10, BLOCK 30, BARBER’S ADDITION TO GOLDEN

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


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 crawl space or enclosure(s):

   a) Square footage of crawl space or enclosure(s) 460 sq ft
   b) No. of permanent flood openings in the crawl space or enclosure(s) within 1.0 foot above adjacent grade 4
   c) Total net area of flood openings in A8.b 113 sq in
   d) Engineered flood openings? Yes No

A9. For a building with an attached garage:

   a) Square footage of attached garage 490 sq ft
   b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A
   c) Total net area of flood openings in A9.b N/A sq in
   d) Engineered flood openings? Yes No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
CITY OF GOLDEN, 80090

B2. County Name JEFFERSON

B3. State CO

B4. Map/Panel Number 08059C0188

B5. Suffix E

B6. FIRM Index Date JUNE 17, 2003

B7. FIRM Panel Effective/Revised Date JUNE 17, 2003

B8. Flood Zone(s) AE

B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 5668

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 (Describe) __________

B11. Indicate elevation datum used for BFE in Item B9: ☑ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) __________

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.


Benchmark Utilized SK1371 Vertical Datum NGVD 29

Conversion/Comments ________

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5664.31 ☑ feet ☑ meters (Puerto Rico only)

   ☐ feet ☑ meters (Puerto Rico only)

b) Top of the next higher floor 5665.86 ☑ feet ☑ meters (Puerto Rico only)

   ☑ feet ☑ meters (Puerto Rico only)

c) Bottom of the lowest horizontal structural member (V Zones only) N/A ☐ feet ☑ meters (Puerto Rico only)

   ☐ feet ☑ meters (Puerto Rico only)

d) Attached garage (top of slab) 5665.86 ☑ feet ☑ meters (Puerto Rico only)

   ☑ feet ☑ meters (Puerto Rico only)

e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 5665.86 ☑ feet ☑ meters (Puerto Rico only)

   ☑ feet ☑ meters (Puerto Rico only)

f) Lowest adjacent (finished) grade next to building (LAG) 5663.87 ☑ feet ☑ meters (Puerto Rico only)

   ☑ feet ☑ meters (Puerto Rico only)

g) Highest adjacent (finished) grade next to building (HAG) 5665.46 ☑ feet ☑ meters (Puerto Rico only)

   ☑ feet ☑ meters (Puerto Rico only)

h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 5664.07 ☑ feet ☑ meters (Puerto Rico only)

   ☑ feet ☑ meters (Puerto Rico only)

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. ☐ Yes ☑ No

Certifier’s Name NOEL L. POTTER License Number L.S. 26296

Title PRESIDENT Company Name C.C.S. CONSULTANTS, INC.

Address 4860 ROBB STREET, SUITE 101 City WHEAT RIDGE State CO ZIP Code 80033

Signature ______________ Date 7/29/10 Telephone 303.403.4706

FEMA Form 81-31, Mar 09 See reverse side for continuation.

Replaces all previous editions
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:
1. LATITUDE AND LONGITUDE WERE TAKEN FROM GOOGLE EARTH.
2. LOWEST ELEVATION OF EQUIPMENT=FURNANCE AND HOT WATER HEATER, SET AT SAME ELEVATION.

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 __________ 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 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2b 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

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 and G9.

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-G9) 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 (PR) Datum

G9. BFE or (in Zone AC) depth of flooding at the building site: __________ feet __________ meters (PR) Datum

G10. Community's design flood elevation

Local Official's Name

Title

Community Name

Telephone

Signature

Date

Comments

☐ Check here if attachments
Building Photographs
See Instructions for Item A6.

City  GOLDEN  State  CO  ZIP Code  80401

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page, following.

**FRONT**
DATE: 06.25.2010

**REAR**
DATE: 06.25.2010

**REAR**
DATE: 06.25.2010  FLOOD OPENING DETAIL
ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

For Insurance Company Use:

Policy Number

Company NAIC Number

A1. Building Owner’s Name SARA C. DECKER

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

916 10TH STREET (SOUTH OR FRONT UNIT)

City GOLDEN State CO ZIP Code 80401

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

LOT 10, BLOCK 30, BARBER'S ADDITION TO GOLDEN

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

A5. Latitude/Longitude: Lat. N 39°45'24.7" Long. W 106°17'30.2"

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 _

A8. For a building with a crawlspace or enclosure(s):
   a) Square footage of crawlspace or enclosure(s) 500 sq ft
   b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 5
   c) Total net area of flood openings in A8.b 141 sq in
   d) Engineered flood openings? ☐ Yes ☐ No

A9. For a building with an attached garage:
   a) Square footage of attached garage 500 sq ft
   b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A
   c) Total net area of flood openings in A9.b N/A sq in
   d) Engineered flood openings? ☐ Yes ☐ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number

CITY OF GOLDEN, 800090

B2. County Name

JEFFERSON

B3. State

CO

B4. Map/Panel Number 08059CD0188

B5. Suffix E

B6. FIRM Index Date JUNE 17, 2003

B7. FIRM Panel Effective/Revised Date JUNE 17, 2003

B8. Flood Zone(s) AE

B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 5666

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 (Describe) ______

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) ______

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.


Benchmark Utilized KK1371 Vertical Datum NGVD 29

Conversion/Comments ______

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5662.15 ☐ feet ☐ meters (Puerto Rico only)

b) Top of the next higher floor 5683.00 ☐ feet ☐ meters (Puerto Rico only)

c) Bottom of the lowest horizontal structural member (V Zones only) N/A ☐ feet ☐ meters (Puerto Rico only)

d) Attached garage (top of slab) 5664.37 ☐ feet ☐ meters (Puerto Rico only)

e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 5664.37 ☐ feet ☐ meters (Puerto Rico only)

f) Lowest adjacent (finished) grade next to building (LAG) 5662.63 ☐ feet ☐ meters (Puerto Rico only)

g) Highest adjacent (finished) grade next to building (HAG) 5663.32 ☐ feet ☐ meters (Puerto Rico only)

h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 5662.65 ☐ feet ☐ meters (Puerto Rico only)

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.C. Code, Section 1001. ☒

Check here if comments are provided on back of form. ☐ Yes ☒ No

Certifier's Name NOEL L. POTTER License Number L.S. 26296

Title PRESIDENT Company Name C.C.S. CONSULTANTS, INC.

Address 4860 ROBB STREET, SUITE 101 City WHEAT RIDGE State CO ZIP Code 80033

Signature Date Telephone 303.403.4706

FEMA Form 81-31, Mar 09 See reverse side for continuation.

Replaces all previous editions
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, crawl space, or enclosure) is ______________ feet ______ meters ______ above or ______ below the HAG.
   b. Top of bottom floor (including basement, crawl space, 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

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 and G9.

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-G9) 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 (PR) Datum _______ _______.

G9. BFE or (in Zone AO) depth of flooding at the building site: _______ _______ feet _______ meters (PR) Datum _______ _______.

G10. Community’s design flood elevation _______ _______ feet _______ meters (PR) Datum _______ _______.

Local Official’s Name Title

Community Name Telephone

Signature Date

Comments

□ Check here if attachments
# Building Photographs

See Instructions for Item A6.

<table>
<thead>
<tr>
<th>Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.</th>
<th>For Insurance Company Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>916 10TH STREET (SOUTH OR FRONT UNIT)</td>
<td>Policy Number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>ZIP Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOLDEN</td>
<td>CO</td>
<td>80401</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company NAIC Number</th>
</tr>
</thead>
</table>

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page, following.

### FRONT
**DATE:** 06.25.2010

### REAR
**DATE:** 06.25.2010

### LEFT SIDE
**DATE:** 06.25.2010  FLOOD OPENING DETAIL
ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name MIZFAM LLC
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1000 10th STREET
City GOLDEN State CO ZIP Code 80401
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOTS 7 & 8, BLOCK A, BARBERS 1st ADDITION, JEFFERSON, COLORADO
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) NON-RESIDENTIAL
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number 1A
A8. For a building with a crawlspace or enclosure(s):
   a) Square footage of crawlspace or enclosure(s) ______ sq ft
   b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade
   c) Total net area of flood openings in A8.b ______ sq in
   d) Engineered flood openings? □ Yes □ No
A9. For a building with an attached garage:
   a) Square footage of attached garage ______ sq ft
   b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade
   c) Total net area of flood openings in A9.b ______ sq in
   d) Engineered flood openings? □ Yes □ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
   GOLDEN 080909 0188E
B2. County Name JEFFERSON
B3. State CO
B4. Map/Panel Number 080559CD188
B5. Suffix E
B6. Firm Index Date 06.17.2003
B7. Firm Panel Effective/Revised Date 06.17.2003
B8. Flood Zone(s) AE
B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 5665

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 FBE), VE, V1-V30, V (with FBE), AR, ARIA, AR/AE, ARIA/A-A30, AR/AH, AR/O. Complete items C2.a-h below according to the building diagram specified in item A7. Use the same datum as the BFE.
   Benchmark Utilized KX137/Vertical Datum NGVD29
   Conversion/Comments VERTCON =3.218

   a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5665.29
   b) Top of the next higher floor 5665.43
   c) Bottom of the lowest horizontal structural member (V Zones only) 5665.29
   d) Attached garage (top of slab) NA
   e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 5665.43
   f) Lowest adjacent (finished) grade next to building (LAG) 5665.43
   g) Highest adjacent (finished) grade next to building (HAG) 5667.1
   h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 5665.29

Check the measurement used.

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

Certifier's Name ROBERT HALL
Title SURVEYOR
Company Name GILLIANS LAND CONSULTANTS
Address 6474 W. RICE AVENUE
City LITTLETON State CO ZIP Code 80123
Signature Date 05.28.10 Telephone 303-972-6640

FEMA Form 81-31, Mar 09 See reverse side for continuation.
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  BENCHMARK USED, KK1371 ELEVATION 5677.71FT(NAVD88) VERTCON CONVERSION =5674.49FT(NGVD29)

Signature  
Date  
☐ Check here if attachments

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 C.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 and G9.

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-G9) 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 (PR) Datum __________
G9. BFE or (in Zone AO) depth of flooding at the building site: __________ feet ______ meters (PR) Datum __________
G10. Community's design flood elevation  

Local Official's Name  
Title  

Community Name  
Telephone  
Signature  
Date  
Comments  

☐ Check here if attachments

FEMA Form 81-31, Mar 09
Replaces all previous editions
Building Photographs
See Instructions for Item A6.

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; “Front View” and “Rear View”; and, if required, “Right Side View” and “Left Side View.” If submitting more photographs than will fit on this page, use the Continuation Page, following.

SIDE VIEW (WEST)

SIDE VIEW (EAST)
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  
1000 10TH STREET  

City GOLDEN State CO ZIP Code 80401  

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View.

FRONT/SIDE VIEW (SOUTH/EAST)  

REAR VIEW (NORTH)
Questions concerning the VERTCON process may be mailed to NGS

Latitude: 39.75638

Longitude: 105.22565

NGVD 29 height: 5666FT

Datum shift (NAVD 88 minus NGVD 29): 3.218 feet

Converted to NAVD 88 height: 5669.219 feet
ELEVATION CERTIFICATE

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name: DALE VANCE
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1116 10th STREET, UNIT 1
City: GOLDEN State: CO ZIP Code: 80401

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT 10, BLOCK K, BARBERS 1st ADDITION PARCEL ID# 90-283-34-027

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): RESIDENTIAL
A5. Latitude/Longitude: Lat: 39°45'20"36 N Long: 105°13'38"36 W
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: B

B. For a building with a crawlspace or enclosure(s):
   a. Square footage of crawlspace or enclosure(s) 945 sq ft
   b. No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 3
   c. Total net area of flood openings in A.b 216 sq in
   d. Engineered flood openings? Yes No

A9. For a building with an attached garage:
   a. Square footage of attached garage N/A sq ft
   b. No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A
   c. Total net area of flood openings in A.b N/A sq in
   d. Engineered flood openings? Yes No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
CITY OF GOLDEN NO. 080090
B2. County Name: JEFFERSON
B3. State: COLORADO

B4. Map/Panel Number 08059C0188
B5. Suffix: E
B6. FIRM Index Date: JUNE 17, 2003
B7. FIRM Panel Effective/Revised Date
B8. Flood Zone(s) AE, X
B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 5,668'

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 (Describe) ________

B11. Indicate elevation datum used for BFE in item B9: [ ] NGVD 1929 [ ] NAVD 1988 [ ] Other (Describe) ________

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.


Benchmark Utilized PID=KK1365 (M 467) Vertical Datum NGVD29
Conversion/Comments ELEVATIONS CONVERTED TO NGVD29 VIA THE CORPSCON / VERTCON CONVERSION UTILITY

Check the measurement used.

a. Top of bottom floor (including basement, crawlspace, or enclosure floor) 5670.4 [ ] feet [ ] meters (Puerto Rico only)
b. Top of the next higher floor 5672.9 [ ] feet [ ] meters (Puerto Rico only)
c. Bottom of the lowest horizontal structural member (V Zones only) N/A [ ] feet [ ] meters (Puerto Rico only)
d. Attached garage (top of slab) N/A [ ] feet [ ] meters (Puerto Rico only)
e. Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) N/A [ ] feet [ ] meters (Puerto Rico only)
f. Lowest adjacent (finished) grade next to building (LAG) 5670.1 [ ] feet [ ] meters (Puerto Rico only)
g. Highest adjacent (finished) grade next to building (HAG) 5670.8 [ ] feet [ ] meters (Puerto Rico only)
h. Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 5670.0 [ ] feet [ ] meters (Puerto Rico only)

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 Item A provided by a licensed land surveyor? [ ] Yes [ ] No

Certifier's Name: DAVID M CLAUSEN
License Number: 38104
Title: PROFESSIONAL LAND SURVEYOR
Company Name: DAVID CLAUSEN LAND SURVEYING
Address: 8100 CRESTONE ST
City: GOLDEN State: CO ZIP Code: 80403
Signature: ____________________________ Date: 3-13-12 Telephone: (720) 299-4565

FEMA Form 81-31, Mar 09

See reverse side for continuation. Replaces all previous editions.
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

THE DATA REPORTED IN THIS ELEVATION CERTIFICATE APPLIES TO THE MOST SOUTHERLY OF THE TWO BUILDINGS UPON THE SUBJECT PROPERTY.

CRAWL SPACE AREA WAS DETERMINED USING PERIMETER MEASUREMENTS OF THE EXTERIOR FOUNDATION.

Signature Date 2/27/2012

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 8 (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

DAVID M CLAUSEN

Address 6100 CRESTONE ST

City GOLDEN State CO ZIP Code 80403

Signature Date 2/27/2012 Telephone 720 299-4565

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 and G9.

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-G9) 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 (PR) Datum ______

G9. BFE or (in Zone AO) depth of flooding at the building site: ______ feet ______ meters (PR) Datum ______

G10. Community's design flood elevation ______ feet ______ meters (PR) Datum ______

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

[ ] Check here if attachments
ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name: Robert Tochill
A2. Building Street Address: 1217 5th Street, Golden, CO 80401
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.): Lot 18, Block K, Barbers 2nd Addition
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Residential
A5. Latitude/Longitude: Lat. 39°45'19.0" Long. 105°13'42.8"
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number:
A8. For a building with a crawlspace or enclosure(s):
   a) Square footage of crawlspace or enclosure(s) 928 sq ft
   b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade
   c) Total net area of flood openings in A8.b 92 sq in
   d) Engineered flood openings? Yes No
A9. For a building with an attached garage:
   a) Square footage of attached garage
   b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade
   c) Total net area of flood openings in A9.b
   d) Engineered flood openings? Yes No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name: Jefferson County
B2. County Name: Golden
B3. State Name: CO
B4. Map/Panel Number: 08059CO188
B5. Suffix: E
B6. FIRM Index Date: June 17, 2003
B7. FIRM Effective/Revised Date: 
B8. Flood Zone(s): AE
B9. Base Flood Elevation (BFE) (Zone AO, use base flood depth): 5672
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B8.
   ☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe) __________
B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) __________
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
   *A new Elevation Certificate will be required when construction of the building is complete.
   Conversion/Comments: Vertical Datum NAVD29
   a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5672.8 feet
   b) Top of the next higher floor 5678.2 feet
   c) Bottom of the lowest horizontal structural member (V Zones only) na
   d) Attached garage (top of slab) na
   e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 5672.5 feet
   f) Lowest adjacent (finished) grade next to building (LAG) 5672.8 feet
   g) Highest adjacent (finished) grade next to building (HAG) 5672.2 feet
   h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural supports 5674.5 feet

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.C. 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
Certifier's Name: Christine K. Bruning
License Number: CO L.S. 27941
Title: Land Surveyor
Company Name: Bruning Land Surveying
Address: 4445 Eldridge Street, Golden, CO 80401
Signature: Christine K. Bruning
Date: March 29, 2010
Telephone: 303-278-1782

See reverse side for continuation.
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: Hot water heater is located in the crawl space elevation is approximately 5672.5'. Direct exact measurement of the elevation of the crawl space was not possible because of accessibility issues. Crawl space area was determined by using the first floor area shown on the Jeffco Assessor data sheet. The furnace is located on the first floor, elevation 5676.2'.

Signature: [Signature]
Date: March 29, 2010

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 enclosre) is _______ feet _______ meters above or below the HAG.
   b) Top of bottom floor (including basement, crawlspace, or enclosre) 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 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:
Christine K. Brauning

Address: 4445 Eldridge Street
City: Golden
State: CO
ZIP Code: [ZIP Code]

Signature: [Signature]
Date: March 29, 2010
Telephone: 303-278-1782

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 G6 and G8.

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-G9) 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 (PR) Datum

G9. BFE or (in Zone AO) depth of flooding at the building site: _______ feet _______ meters (PR) Datum

G10. Community’s design flood elevation:

Local Official’s Name: [Name]
Title: [Title]

Signature: [Signature]
Date: [Date]
Comments: [Comments]

☐ Check here if attachments

FEMA Form 81-31, Mar 09
Replaces all previous editions
Questions concerning the VERTCON process may be mailed to NGS

**Latitude:** 39 46 15

**Longitude:** 105 13 52

**NAVD 88 height:** 5871.47 ft

**Datum shift (NAVD 88 minus NGVD 29):** 3.245 feet

**Converted to NGVD 29 height:** 5868.225 feet

All elevations were converted from NAVD 88 to NGVD 29.
The NGS Data Sheet

See file .dsdata.txt for more information about the dataset.

DATABASE = , PROGRAM = datasheet, VERSION = 7.82
National Geodetic Survey, Retrieval Date = MARCH 29, 2010

**DATA**

**DESIGNATION** - M 407.
**PID** - KK1369
**STATE/COUNTY** - CO/JEFFERSON
**USGS QUAD** - GOLDEN (1994)

*CURRENT SURVEY CONTROL*

<table>
<thead>
<tr>
<th>NAD 83 (1986)</th>
<th>NAVD 88</th>
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</thead>
<tbody>
<tr>
<td>39.4515.</td>
<td>1789.627</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GEOID HEIGHT</th>
<th>DYNAMIC HT</th>
<th>MODELED GRAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>-15.48 (meters)</td>
<td>1787.823 (meters)</td>
<td>979,558.4 (mgal)</td>
</tr>
</tbody>
</table>

**VERT ORDER** - FIRST

**CLASS II**

The horizontal coordinates were scaled from a topographic map and have an estimated accuracy of +/- 6 seconds.

The orthometric height was determined by differential leveling and adjusted in June 1991.

The geoid height was determined by GEOID09.

The dynamic height is computed by dividing the NAVD 88 geopotential number by the normal gravity value computed on the Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (g = 980.6199 gals.).

The modeled gravity was interpolated from observed gravity values.

<table>
<thead>
<tr>
<th>North</th>
<th>East</th>
<th>Units</th>
<th>Estimated Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>519,920</td>
<td>937,440</td>
<td>MT (+/- 180 meters Scaled)</td>
<td></td>
</tr>
</tbody>
</table>

**SUPERSEDED SURVEY CONTROL**

NGVD 29 (??/??/??) 1788.648 (m) 5868.26 (f) ADJUSTED 1 2

Superseded values are not recommended for survey control.

NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

See file .dsdata.txt to determine how the superseded data were derived.

U.S. NATIONAL GRID SPATIAL ADDRESS: 13SDE802023 (NAD 83)
**MARKER:** I = METAL ROD
**SETTING:** 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL INFORMATION.
**SP SET:** SHALLOW SET METAL ROD
**STAMPSING:** M 407 1984
**MARK LOGO:** NGS
**PROJECT:** FLUSH
KK1369_Stability: B = Probably hold position/elevation well

KK1369_Rod/pipe-depth: 2.7 meters

KK1369_History - Date Condition Report By
KK1369_History - 1984 Monumented NGS

KK1369

Station description

KK1369_described by National geodetic survey 1984

KK1369_in golden.

KK1369_in golden, at the intersection of ford and texas streets, 90.0 meters
KK1369'(295.3 ft) north of the center of texas street, 8.5 meters (27.9 ft)
KK1369_south-southeast of the west end of a 72-inch metal culvert, 7.5 meters
KK1369'(24.6 ft) west of the centerline of ford street, and 0.9 meter
KK1369'(3.0 ft) south of utility pole number 665. note--Refusal was reached
KK1369'at 9.0 ft. Access to the datum point is through a 5-inch logo cap.

KK1369_the mark is 0.3 meters N from a witness post.

KK1369_the mark is above level with the street.

*** Retrieval complete.
Elapsed Time = 00:00:01
Property Information

GENERAL INFORMATION
Schedule: 001843  Parcel ID: 30-284-34-012
Status: Active  Property Type: Residential

Property Address: 01217 9TH ST
GOLDEN CO 80401 1078
Mailing Address: SAME ADDRESS AS PROPERTY
Neighborhood: 6104 - GOLDEN PROPER

PROPERTY DESCRIPTION
Subdivision Name: 063400 - BARBERS 2ND ADD

<table>
<thead>
<tr>
<th>Block</th>
<th>Lot</th>
<th>Key</th>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>QuarterSection</th>
<th>Land SqFt</th>
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<tbody>
<tr>
<td>00K</td>
<td>0018</td>
<td>28</td>
<td>3</td>
<td>70</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
<td>5547</td>
</tr>
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</table>

Assessor Parcel Maps Associated with Schedule

PROPERTY INVENTORY
Property Type: RESID  Year Built: 2006  Adjusted Year Built: 2006
Design: 2 Story  Improvement Number: 1

<table>
<thead>
<tr>
<th>Item</th>
<th>Quality</th>
<th>No.</th>
<th>Area</th>
<th>Quality</th>
<th>Construction SqFt</th>
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</thead>
<tbody>
<tr>
<td>MAIN BEDROOM</td>
<td></td>
<td>1</td>
<td>FIRST FLOOR</td>
<td>Average</td>
<td>928</td>
</tr>
<tr>
<td>FULL BATH</td>
<td>Average</td>
<td>1</td>
<td>SECOND FLOOR</td>
<td>Average</td>
<td>568</td>
</tr>
</tbody>
</table>

Adjustment Code: Adjustment SqFt: Land Characteristics: HOT WTR HEAT: 1496

SALE HISTORY
Sale Date  Sale Amount  Deed Type  Reception
09-28-1987  0  Death Certificate  87121206
10-25-2001  159,000  Warranty Deed  $1,347,458

TAX INFORMATION
2009 Payable 2010

<table>
<thead>
<tr>
<th>Actual Value</th>
<th>Assessed Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>404,260</td>
<td>32,180</td>
</tr>
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</table>

View Mill Levy Detail For Year

<table>
<thead>
<tr>
<th>2009 Mill Levy Information</th>
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</thead>
<tbody>
<tr>
<td>Tax District: 5008</td>
</tr>
<tr>
<td>County: 24,3460</td>
</tr>
<tr>
<td>School: 48,1450</td>
</tr>
<tr>
<td>GOLDEN: 12,3400</td>
</tr>
<tr>
<td>REGIONAL TRANSPORTATION DIST. 0.0000</td>
</tr>
<tr>
<td>URBAN DRAINAGE&amp;FLOOD CONT DIST: 0.5080</td>
</tr>
<tr>
<td>URBAN DRAINAGE&amp;FLOOD C SO.PLAT: 0.0610</td>
</tr>
<tr>
<td>Total: 85,4000</td>
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Treasurer Information

**ELEVATION CERTIFICATE**

**Important:** Read the instructions on pages 1-7.

### SECTION A - PROPERTY OWNER INFORMATION

<table>
<thead>
<tr>
<th>Building Owner's Name</th>
<th>For Insurance Company Use</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800 Jackson St.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Golden</td>
<td>Colorado</td>
<td>80401</td>
</tr>
</tbody>
</table>

**FLORIDA DESCRIPTION (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)**

Lots 18 through 24, Block 25, WELCH ADDITION TO GOLDEN, Colorado Territory

**Non Residential**

([Street Address or Legal Description])

<table>
<thead>
<tr>
<th>Horizontal Datum</th>
<th>Source:</th>
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<tbody>
<tr>
<td></td>
<td>□ NAD 1983</td>
</tr>
</tbody>
</table>

### SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

**B1. Map Community Name & Community Number**

| Golden | 080090 |

**B2. County Name**

| Jefferson |

**B3. State**

| CO |

**B4. Map and Panel Number**

| 0003 |

**B5. Suffix**

| A |

**B6. Firm Date**

| 11-05-1976 |

**B7. Firm Panel**

<table>
<thead>
<tr>
<th>EFFECTIVE/REVISED DATE</th>
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<tbody>
<tr>
<td>May 15, 1985</td>
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</table>

**B8. Flood Zone(s)**

<table>
<thead>
<tr>
<th>Flood Zone(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3</td>
</tr>
</tbody>
</table>

**B9. Base Flood Elevation (BFE) (Use depth of flooding)**

| 57.09 |

**B10. Indicate the source of the base flood elevation (BFE) data or the flood depth entered in B8.**

| FIS Profile | X | Firm | Community Determined | Other | (Describe): |

**B11. Indicate the elevation datum used for the BFE in B9; X | NAVD 1979 | NAVD 1988 | Other | (Describe): |

**B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?**

| Yes | X | No |

### SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

**C1. Building Elevations are based on: □ Construction Drawings **

**C2. 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.) |

**C3. Elevation - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, ARV, ARAF, ARAE, ARAH, ARAV, ARAO**

Complete items C3-a1 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 calculations. Use the space provided or the Comments area of Section D or Section G, as appropriate, to document the datum conversion.

**Datum**

**Conversion/Comments**

**Elevation Reference Mark used in the figure above**

| Yes | No |

- a) Top of bottom floor (including basement or enclosure) 57.02, 0.0 (m) 57.12, 0.0 (m)
- b) Top of need higher floor
- c) Sill of lowest horizontal structural member (V zones only) 0.0 (m) 0.0 (m)
- d) Attached garage (top of grade) — 0.0 (m)
- e) Lowest elevation of machinery and/or equipment serving the building (Describe in a Comments area) — 0.0 (m)
- f) Lowest subfloor (finished) grade (LAG) 57.02, 0.0 (m) 57.12, 0.0 (m)
- g) Highest floor (finished) grade (HAG) — 0.0 (m)
- h) No. of permanent openings (flooding vents) within 1 ft. above adjacent grade
- i) Total area of all permanent openings (flooding vents) in C3h sq. ft. sq. cm |

### 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 statements may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.**

<table>
<thead>
<tr>
<th>Certifier's Name</th>
<th>License Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eugene A. Burdick, PE-PLS</td>
<td>Colorado 9010</td>
</tr>
</tbody>
</table>

**Title**

| President Burdick Engineering Consultants Incorporated |

**Address**

| 2100 S. Wadsworth Blvd., Lakewood, CO 80227 |

**Signature**

| July 23, 2004 (303) 980-0104 |

**Fax Number**

| 3037864412 |

**Company Name**

| Colorado 9010 |

**Telephone**

| 3037864412 |
January 20, 2011

MR. JESSE & JESSICA SWIFT
1903 WASHINGTON AVENUE
GOLDEN, CO 80401

CASE NO.: 11-08-0232A
COMMUNITY: CITY OF GOLDEN, JEFFERSON COUNTY, COLORADO
COMMUNITY NO.: 080090

DEAR MR. SWIFT:

This is in reference to a request that the Federal Emergency Management Agency (FEMA) determine if the property described in the enclosed document is located within an identified Special Flood Hazard Area, the area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood), on the effective National Flood Insurance Program (NFIP) map. Using the information submitted and the effective NFIP map, our determination is shown on the attached Letter of Map Amendment (LOMA) Determination Document. This determination document provides additional information regarding the effective NFIP map, the legal description of the property and our determination.

Additional documents are enclosed which provide information regarding the subject property and LOMAs. Please see the List of Enclosures below to determine which documents are enclosed. Other attachments specific to this request may be included as referenced in the Determination/Comment document. If you have any questions about this letter or any of the enclosures, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075.

Sincerely,

[Signature]
Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

LIST OF ENCLOSURES:
LOMA DETERMINATION DOCUMENT (REMOVAL)
LOMA-DEN DETERMINATION DOCUMENT (NON-REMOVAL)

cc: State/Commonwealth NFIP Coordinator
Community Map Repository
Region
LETTER OF MAP AMENDMENT
DETERMINATION DOCUMENT (REMOVAL)

COMMUNITY AND MAP PANEL INFORMATION

COMMUNITY
CITY OF GOLDEN, JEFFERSON COUNTY, COLORADO

COMMUNITY NO.: 08090

AFFECTED MAP PANEL
NUMBER: 08090C027E
DATE: 6/17/2003

FLOODING SOURCE: EAST FORK KENNEYS RUN;
KENNEYS RUN; WEST FORK KENNEYS RUN

LEGAL PROPERTY DESCRIPTION
Lot 4, Martin's Resubdivision, as shown on the Plat recorded as Document No. 3457 in Book 7, Page 1, in the Office of the Recorder, Jefferson County, Colorado

APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 39.749, -106.215
SOURCE OF LAT & LONG: GOOGLE EARTH PRO

DATUM: NAD 83

DETERMINATION

<table>
<thead>
<tr>
<th>LOT</th>
<th>BLOCK/SECTION</th>
<th>SUBDIVISION</th>
<th>STREET</th>
<th>OUTCOME</th>
<th>1% ANNUAL CHANCE FLOOD ELEVATION (NGVD 29)</th>
<th>LOWEST ADJACENT GRADE ELEVATION (NGVD 29)</th>
<th>LOWEST LOT ELEVATION (NGVD 29)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>--</td>
<td>Martin's</td>
<td>1903 Washington Avenue</td>
<td>Structure (Residence)</td>
<td>X</td>
<td>5717.0 feet</td>
<td>5718.6 feet</td>
</tr>
</tbody>
</table>

Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).

ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)

PORTIONS REMAIN IN THE SFHA
STUDY UNDERWAY

This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Amendment for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the structure(s) on the property(ies) is/are not located in the SFHA, an area inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood). This document amends the effective NFIP map to remove the subject property from the SFHA located on the effective NFIP map; therefore, the Federal mandatory flood insurance requirement does not apply. However, the lender has the option to continue the flood insurance requirement to protect its financial risk on the loan. A Preferred Risk Policy (PRP) is available for buildings located outside the SFHA. Information about the PRP and how one can apply is enclosed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at (877) 336-2027 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075.

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration
PORTIONS OF THE PROPERTY REMAIN IN THE SFHA (This Additional Consideration applies to the preceding 1 Property.)
Portions of this property, but not the subject of the Determination/Comment document, may remain in the Special Flood Hazard Area. Therefore, any future construction or substantial improvement on the property remains subject to Federal, State/Commonwealth, and local regulations for floodplain management.

STUDY UNDERWAY (This Additional Consideration applies to all properties in the LOMA DETERMINATION DOCUMENT (REMOVAL))
This determination is based on the flood data presently available. However, the Federal Emergency Management Agency is currently revising the National Flood Insurance Program (NFIP) map for the community. New flood data could be generated that may affect this property. When the new NFIP map is issued it will supersede this determination. The Federal requirement for the purchase of flood insurance will then be based on the newly revised NFIP map.

This attachment provides additional information regarding this request. If you have any questions about this attachment, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075.

Luis Rodriguez, P.E., Chief Engineering Management Branch Federal Insurance and Mitigation Administration
LETTER OF MAP AMENDMENT
DETERMINATION DOCUMENT (NON-REMOVAL)

<table>
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<tr>
<th>COMMUNITY AND MAP PANEL INFORMATION</th>
<th>LEGAL PROPERTY DESCRIPTION</th>
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<td>COMMUNITY</td>
<td>CITY OF GOLDEN, JEFFERSON COUNTY, COLORADO</td>
</tr>
<tr>
<td>COMMUNITY NO.: 080090</td>
<td>Lot 4, Martin's Resubdivision, as shown on the Plat recorded as Document No. 3457 in Book 7, Page 1, in the Office of the Recorder, Jefferson County, Colorado</td>
</tr>
<tr>
<td>AFFECTED MAP PANEL</td>
<td></td>
</tr>
<tr>
<td>NUMBER: 08059C0277E</td>
<td></td>
</tr>
<tr>
<td>DATE: 6/17/2003</td>
<td></td>
</tr>
<tr>
<td>FLOODING SOURCE: EAST FORK KENNEYS RUN; KENNEYS RUN; WEST FORK KENNEYS RUN</td>
<td>APPROXIMATE LATITUDE &amp; LONGITUDE OF PROPERTY: 39.749, -105.215</td>
</tr>
<tr>
<td>SOURCE OF LAT &amp; LONG: GOOGLE EARTH PRO</td>
<td>DATUM: NAD 83</td>
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</table>

DETERMINATION

<table>
<thead>
<tr>
<th>LOT</th>
<th>BLOCK/ SECTION</th>
<th>SUBDIVISION</th>
<th>STREET</th>
<th>OUTCOME WHAT IS NOT REMOVED FROM THE SFHA</th>
<th>FLOOD ZONE</th>
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<th>LOWEST ADJACENT GRADE ELEVATION (NGVD 29)</th>
<th>LOWEST LOT ELEVATION (NGVD 29)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
<td>Martin's</td>
<td>1903 Washington Avenue</td>
<td>Structure (Garage)</td>
<td>AE</td>
<td>5717.0 feet</td>
<td>5712.9 feet</td>
<td>-</td>
</tr>
</tbody>
</table>

Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).

ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)

STUDY UNDERWAY

This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Amendment for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the structure(s) on the property(ies) is/are located in the SFHA, an area inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood). Therefore, flood insurance is required for the property described above. The lowest adjacent grade elevation to a structure must be at or above the Base Flood Elevation for a structure to be outside of the SFHA.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination and information regarding your options for obtaining a Letter of Map Amendment. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at (877) 336-2827 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075.

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration
LETTER OF MAP AMENDMENT
DETERMINATION DOCUMENT (NON-REMOVAL)
ATTACHMENT 1 (ADDITIONAL CONSIDERATIONS)

STUDY UNDERWAY (This Additional Consideration applies to all properties in the LOMA-DEN
DETERMINATION DOCUMENT (NON-REMOVAL))
This determination is based on the flood data presently available. However, the Federal Emergency
Management Agency is currently revising the National Flood Insurance Program (NFIP) map for the community.
New flood data could be generated that may affect this property. When the new NFIP map is issued it will
supersede this determination. The Federal requirement for the purchase of flood insurance will then be based on
the newly revised NFIP map.

This attachment provides additional information regarding this request. If you have any questions about this attachment, please contact the
FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management
Agency, LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075.

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration
ELEVATION CERTIFICATE
FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

ATTENTION: Use of this certificate will provide a waiver of the flood insurance purchase requirement. This form is used only to provide elevation information necessary to determine compliance with applicable community floodplain management ordinances, to determine the proper insurance premium rate, and to assist in the review for a Letter of Map Amendment or Revision (LOMA or LOR). Instructions for completing this form can be found on the following pages.

SECTION A PROPERTY INFORMATION

<table>
<thead>
<tr>
<th>BUILDING OWNERS NAME</th>
<th>FOR INSURANCE COMPANY USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASSTI TAILS INC</td>
<td>POLICY NUMBER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STREET ADDRESS, SUBURB, CITY, STATE, ZIP CODE</th>
<th>COMPANY TAG NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>17731 N ECOLFAX AVENUE</td>
<td></td>
</tr>
<tr>
<td>CITY</td>
<td>GOLDEN</td>
</tr>
<tr>
<td>STATE</td>
<td>COLORADO</td>
</tr>
<tr>
<td>ZIP CODE</td>
<td>80401</td>
</tr>
</tbody>
</table>

SECTION B FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

<table>
<thead>
<tr>
<th>1. COMMUNITY NUMBER</th>
<th>2. PANEL NUMBER</th>
<th>3. SURF</th>
<th>4. DATE OF FIRM ISSUE</th>
<th>5. FIRM ZONE</th>
<th>6. BASE FLOOD ELEVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>000090</td>
<td>0002</td>
<td>A</td>
<td>MAY 15, 1986</td>
<td>A8</td>
<td>1005</td>
</tr>
</tbody>
</table>

Indicate the following from the proper FIRM (See Instructions):
- NAVD 88
- Other (describe on back)
- For zones A and V, where no BFE is provided on the FIRM, and the community has established a BFE for this building site, indicate the community's BFE.
- Indicate the NAVD or other FIRM datum (see Section B, Item 7).

SECTION C BUILDING ELEVATION INFORMATION

- Using the Elevation Certificate instructions, indicate the diagram number from the diagrams found on Pages 5 and 6 that best describes the subject building's reference level.
  - (a) FIRM Zones A1, A2, A3, B, C, D, and E (without BFE). The top of the reference level floor from the selected diagram is at an elevation of 96000. [ ] NAVD (or other FIRM datum—see Section B, Item 7).
  - (b) FIRM Zones V1, V2, V3, and V4 (without BFE). The bottom of the lowest horizontal structural member of the reference level from the selected diagram, is at an elevation of [ ] NAVD (or other FIRM datum—see Section B, Item 7).
  - (c) FIRM Zones A (without BFE). The floor used as the reference level from the selected diagram is [ ] NAVD (or other FIRM datum—see Section B, Item 7).

- Indicate the highest grade adjacent to the building:
  - (d) FIRM Zone A1. The floor used as the reference level from the selected diagram is [ ] NAVD (or other FIRM datum—see Section B, Item 7).

- Indicate the elevation datum system used in determining the above reference level elevations: [ ] NAVD 29 - Other (describe under Community on Page 2).

- (NOTE: If the elevation datum used in measuring the elevations is different than that used on the FIRM, refer to the instructions on Page 2 and convert the elevations to the datum system used on the FIRM and show the conversion equation under Community on Page 2.)

- Elevation information may also be obtained from FIRM: [ ] Yes [ ] No (See Instructions on Page 4).

- The elevation level elevation is based on: [ ] Actual construction [ ] Construction drawings.

- (NOTE: Use of construction drawings is only valid if the building does not yet have the reference level floor in place; in which case this certificate will only be valid for the building during the course of construction. A post-construction Elevation Certificate will be required once construction is complete.)

- The elevation of the lowest grade immediately adjacent to the building is: [ ] 1005. [ ] NAVD (or other FIRM datum—see Section B, Item 7).

SECTION D COMMUNITY INFORMATION

If the community official responsible for verifying building elevations specifies that the reference level indicated in Section C, Item 1 is not the "lowest floor" as defined in the community's floodplain management ordinance, the elevation of the building's "lowest floor" as defined by the ordinance is: [ ] NAVD (or other FIRM datum—see Section B, Item 7).

Date of start of construction or subsequent improvement: [ ]

YEAR FROM 01-31, MAY 90 REPLACES ALL PREVIOUS EDITIONS SEE REVERSE SIDE FOR CONTINUATION
SECTION E. CERTIFICATION

This certification is to be signed by a land surveyor, engineer, or architect who is authorized by state or local law to certify elevation information when the elevation information for Zones A1-A30, AE, AH, A (with BFE), V1-V30, VE, and V (with BFE) is required. Community officials who are authorized by local law or ordinance to provide floodplain management information may also sign the certification. In the case of Zones AO and A (without a FEMA or community issued BFE), a building official, a property owner, or an owner's representative may also sign the certification.

Reference level diagrams 6, 7, and 8 - Distinguishing Features - if the certifier is unable to certify to breakaway/non-breakaway wall, enclosure, size, location of servicing equipment, area use, well openings, or unlimited area feature(s), then list the feature(s) not included in the certification under Comments below. The diagram number, Section C, Item 1, must still be entered.

I certify that the information in Sections 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
JAN RICHARD PILE

LICENSE NUMBER
P. L. S. 12111

CITY
LAKEWOOD

SIGNATURE

ADDRESS
2464 STREET A

COMPANY NAME
D.R.A. SURVEYING, INC.

STATE
COLORADO

PHOTO
FEBRUARY 18, 1999

DATE
PHONE (303) 233-6722

ZIP
80215

Copies should be made of this certificate for: 1) community official, 2) insurance agent/company, and 3) building owner.

COMMENTS: The reference bench mark used (URBAN DRAINAGE & FLOOD CONTROL DISTRICT "LG-2") does not appear on the firm, but does appear on U.D.P.C.D. plan and PROFILE SHEET 4 OF 18 FOR "UPPER LENA GULCH".

The diagrams above illustrate the points at which the elevations shall be measured in A Zones and V Zones. Elevations for all A Zones should be measured at the top of the reference level floor. Elevations for all V Zones should be measured at the bottom of the lowest horizontal structural member.
New Emergency Program: For the purposes of determining insurance rates, building for which the start of construction or substantial improvement commenced after December 31, 1974 if the effective date of the Initial Flood Insurance Rate Map (draft printed on community FIRM) whichever is later, Special Flood hazard (SFHA) and the building is not located in a Floodway Outlined in the Preliminary Flood Insurance Rate Map, "Emergency Program" and "FIRM Program" have identical meanings for the purposes of the National Flood Insurance Program.

General Provisions: For insurance purposes, buildings for which the start of construction or substantial improvement commenced after December 31, 1974 if the effective date of the Initial Flood Insurance Rate Map (draft printed on community FIRM) whichever is later, Special Flood hazard (SFHA) and the building is not located in a Floodway Outlined in the Preliminary Flood Insurance Rate Map, "Emergency Program" and "FIRM Program" have identical meanings for the purposes of the National Flood Insurance Program.

Emergency Program: any building with an elevation of 10 feet or more above F.H.L. which is not located in a Floodway Outlined in the Preliminary Flood Insurance Rate Map, and is not subject to flooding as defined in the Preliminary Flood Insurance Rate Map, shall be considered an Emergency Program building, provided that the building is not subject to the limitations of the Federal Flood Insurance Program, and is not subject to the limitations of the National Flood Insurance Program.

Emergency Program: any building with an elevation of 10 feet or more above F.H.L. which is not located in a Floodway Outlined in the Preliminary Flood Insurance Rate Map, and is not subject to flooding as defined in the Preliminary Flood Insurance Rate Map, shall be considered an Emergency Program building, provided that the building is not subject to the limitations of the Federal Flood Insurance Program, and is not subject to the limitations of the National Flood Insurance Program.

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ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

SECTION A – PROPERTY INFORMATION

A1. Building Owner's Name: BEVERLEY EATON

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 611 CRESSMAN COURT

City: GOLDEN State: CO ZIP Code: 80403

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.):
LOT 81, MESA MEADOWS 86, PARCEL NO. 30-214-04-042

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


A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number:

A8. For a building with a crawl space or enclosure(s):
- Square footage of crawl space or enclosure(s): 1086 sq ft
- Number of permanent flood openings in the crawl space or enclosure(s) within 1.0 foot above adjacent grade: 0
- Total net area of flood openings in A8b: 0 sq in

A9. For a building with an attached garage:
- Square footage of attached garage: 567 sq ft
- Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: 0
- Total net area of flood openings in A9b: 0 sq in
- Engineered flood openings?: ☐ Yes ☑ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number:
GOLDEN, CITY OF 080060

B2. County Name: JEFFERSON

B3. State: COLORADO

B4. Map/Panel Number: 08005C0188
B5. Suffix: E
B6. FIRM Index Date: 6/17/2003
B7. FIRM Panel Effective/Revised Date: 6/17/2003
B8. Flood Zone(s): AE

B9. Base Flood Elevation(s) (Zone AO, use base flood depth): 5537

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)?
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.


Benchmark Utilized: CTNC/DSRC
Vertical Datum: NGVD

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

- Top of bottom floor (including basement, crawl space, or enclosure floor): 5841.0 feet
- Top of the next higher floor: 5849.6 feet
- Bottom of the lowest horizontal structural member (V Zones only): 5847.8 feet
- Attached garage (top of slab): 5840.0 feet
- Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments): 5841.0 feet
- Lowest adjacent (finished) grade next to building (LAG): 5841.0 feet
- Highest adjacent (finished) grade next to building (HAG): 5841.0 feet
- Lowest adjacent grade at lowest elevation of deck or stairs, including structural support: 5841.0 feet

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.C. 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

Certifier's Name: CURTIS E. CARROLL
License Number: 37552

Title: LAND SURVEYOR
Company Name: BEAR CREEK LAND SURVEYING
Address: 8801 WEST JEWELL PLACE
City: LAKEWOOD State: CO ZIP Code: 80227
Signature: Date: 9/17/2013 Telephone: 303-989-9824

37552

7/17/2013
ELEVATION CERTIFICATE, page 2

IMPORTANT: In these spaces, copy the corresponding information from Section A.

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

City GOLDEN State CO ZIP Code 80403

FOR INSURANCE COMPANY USE
Policy Number:
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

Signature

Date 9/17/2013

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

City GOLDEN State CO ZIP Code 80403

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

FRONT 9/17/2013 @ 10:00

REAR 9/17/2013 @ 10:00
ION

early twenty (20) feet of Lot 3, Block 3 and the
twenty-nine (29) feet of Lot 4, Block 3 of the
MEADOWS as filed in Book 84, Page 59 of the
Clerk and Recorder of Jefferson County, Colorado

Lot 81 of MESA MEADOWS '88, a replat of the
PVE AT MESA MEADOWS.
2, 1988 as Reception # 86114131 in
Pages 30 & 31 in the records of the Clerk
of Jefferson County, Colorado in Golden, Colorado

Cressman Court, Golden, Colorado 80401

ocation Certificate

ox, a Registered Land Surveyor in the State of
ereby certify that the improvements on the above
are entirely within the boundaries of said lot.
encroachments upon this lot by the improvements
ng lot. There are no easements crossing or burt
cept as shown hereon. This lot is not in
and is not subject to local inundation.

Ben M. Simcox 15 Nov 1988
Ben M. Simcox
P.E. & L.S. 5619

BEN M. SIMCOX
CIVIL ENGINEER & LAND SURVEYOR
GOLDEN, COLORADO (303) 279 6459
Witness my hand and seal this date 2-20-07.

[Seal]

Signed

Census Tract Number of 93-04

I also certify that the above described property to have a

Parcel Number
0005-A
080010
5-15-85
Zone C

Agency (P.R.M.A)
(ABM), produced by the federal emergency management
according to the most current federal insurance rate map.

Not located within a special flood hazard area.

Property Description:

I hereby certify that the property located at

***Certificate**********

Flod Certificate

***Certificate**********

303-761-8055
ENGLISH COLORDADO, COLORADO
3470 SO. SHERMAN ST NO. 2
COLORADO ENGINEERING AND SURVEYING INC.

Borrowers Name Eaton
Certificate Number 93-11724