

Sunshine Fire Protection District 311 County Road 83 Boulder, CO 80302

Robin Kerns Boulder County Land Use Department Courthouse Annex 2045 13th Street Boulder, CO 80302

Re: Emergency Access / Egress to 3375 Sunshine Canyon Drive (Finch)

Date: 18 March 2008

Dear Robin:

I met with Thomas Finch this morning to evaluate access to his proposed building site at 3375 Sunshine Canyon Drive (SPR-07-130). As you know, primary access to his site will be via Sunshine Canyon Drive and Goat Barn Rd. The access is in relatively good condition and should require only minor improvements to bring it to Boulder County Driveway standards. Although the driveway is less than 400 ft. in length, I would like a pullout created at the NE end of Mr. Finch's property after the 'dogleg' curve upon entrance to his property. The specific spot can be placed after further discussion with Mr. Finch. It is also possible that improvements will be necessary to the radius of driveway curvature at the dogleg to accommodate our larger fire apparatus.

The south end of the historic roadbed ends at Model T: the junction of Goat Barn and Model T lies about 150 ft. from the proposed building site. I would like to require that that driveway improvements be extended to Model T; such an improvement would accomplish the following, it will: 1) obviate the need for a large turnaround at the residence; 2) provide emergency access to the residence for units responding from Poorman (SFPD has mutual and auto aid agreements with 4-Mile Fire and they will be responding from the south via Poorman and Four Mile Canyon); and 3) provide a much needed means of emergency egress for residents of the Poorman area in the event of a need for evacuation to the NW.

Only moderate work will be required to modify the drive to bring it to driveway standards at the Goat Barn / Model T junction: e.g., the angle of approach needs to be reduced to ~ 12%, the driveway slope reduced somewhat and the angle of intersection with Model T needs to be made more oblique. The emergency access would be gated and for emergency use only and Mr. Finch would maintain the drive to driveway standards. I would like to see the access established before the initiation of mitigation / construction activities.

If you have any questions regarding my comments on the access issue, please do not hesitate to contact me (303-449-6685).

Sincerely,

Bruce D. Honeyman

Assistant Chief and Fire Marshal

cc: Steve Stratton, Chief, SFPD

Eric Philips, Boulder County Wildland Mitigation Coordinator Matthew Jedra, Colorado State Forest Service, Boulder District Anita Riley, Boulder County Transportation

Thomas Finch

THOMAS I. FINCH ATTORNEY AT LAW

HIGHLAND OFFICES 885 ARAPAHOE AVENUE **BOULDER, COLORADO 80302** TELEPHONE: (303) 449-7050 FAX: (303) 449-2316 EMAIL: ThomasJFinch@yahoo.com

March 12, 2008

Matthew Jedra Forester-Boulder District Colorado State Forest Service 5625 Ute Highway Longmont, Co 80503

RE: Finch Residence in Sunshine Canyon—Wildfire Mitigation Plan

Dear Matt:

Thanks so much for your preparation of the Wildfire Mitigation Plan per Boulder County Land Use regulations for my property. I notice that you insisted on the emergency access being opened at the top of Model T Road. I believe this will be done by the Sunshine Fire Protection District when they go in to remove the trees you marked. I tried to reach Steve Stratton today, and I'll try again tonight but I believe this is what he and the other three local fire chiefs wanted to do when we talked at the January 29th meeting up on Poorman Road. Anyway, I've copied Steve on this letter as well as Eric Philips, the Wildfire Coordinator for Boulder County Land Use Department, though I assume that he approves of your plan.

Enclosed please find a check for your invoice. Again, thanks for your help on this.

Sincerely,

homas J. Finch

TJF/amv

Enclosure

cc: Steve Stratton, Chief

Eric Philips

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WILDFIRE MITIGATION PLAN

For Thomas J. Finch 3375 Sunshine Canyon Dr Docket: SPR - 07 - 130 Inspection date: 2/29/2008

Prepared for: Thomas J. Finch

885 Arapahoe Ave Boulder, CO 80302 Phone: 303-449-7050 Prepared by: Matthew Jedra

Forester - Boulder District Phone: (303) 823-5774

E-mail: mjedra@lamar.colostate.edu

FOREST FOREST SERVICE Boulder District 5625 Ute Highway Longmont, CO 80503 (303) 823-5774 FAX: (303) 823-5768

PURPOSE OF A WILDFIRE MITIGATION PLAN

The purpose of a Wildfire Mitigation Plan is to give guidelines for reducing wildfire hazards around a home or other structures through fuels reduction. It is a document to inform urban interface home owners of the dangers and responsibilities of living in the interface. This plan will help outline the initial and ongoing fuels reduction needed to create and maintain an effective wildfire defensible space. However, having a wildfire mitigation plan, implementation of a defensible space thinning, and following all the recommendations as outlined in this plan does not guarantee that your home will survive a wildland fire; however, in combination they will give your home the best potential probability to survive a wildland fire.

SITE LOCATION AND PROPERTY DESCRIPTION

The property is located in Section 22, Township 1N, and Range 71W, NE 1/4 and NW 1/4. The property is located within the Sunshine Fire Protection District (303-786-7731). A 5,862 sq.ft residence and a 675 sq. ft. detached garage are proposed for the site. The lot is 2.3 acres in size and has a modest ~2-45 percent slope with a west aspect. The site is at ~6,500 feet in elevation and located on a mid-slope which is relatively dry and moist. Sunshine Canyon Dr to the northeast and Poorman Rd to the south create a small natural barrier that may help slow the spread of a surface fire on the site.

CONSTRUCTION DESIGN AND MATERIALS

The proposed a residence and a 675 sq. ft. detached garage will have a moderately complex design with a moderately complex roofline and will be oriented with a west aspect. The overall design of the structure greatly influences how it will withstand a wildfire. Complex building forms create heat traps, areas where the walls and roof members intersect on another where eddies form and hot air and embers from a fire can collect. It is important to keep these areas clear of combustibles such as needles and brush.

The roofing material will consist of slate shingles. Falling embers and fire brands from a wildfire can land on a roof and ignite the roof, either by directly heating the roofing material, or by igniting light fuels (pine needles) that have collected on the roof. It is recommended to place screening over gutters and/or make a yearly check to keep them clear of leaves and needles.

The exterior wall material is to be stucco and stone. Soffits and fascia are to be ¾" thick SIP's w ith 5/8" OSB. The structure will have 34 medium sized windows with the primary viewing direction being toward the west side of the structure. Windows will be double glazed with Low-E coating and tempered glass where required. Frames are to be made of aluminum clad wood. Exterior doors are to be 1¾", fire-rated, and made of aluminum clad wood. All operable windows must be provided with screening that is constructed of either aluminum, galvanized steel, copper or of an approved material that when exposed to flame for 15 seconds, will not burn through or melt, and remains intact. Windows are one of the weakest parts of a structure with regards to wildfire. They often crack and fail before the structure itself ignites, providing a direct path for embers and radiant heat to reach the interior. It is best to minimize the number of windows, especially on the downhill side of the structure. Fire typically burns up hill faster and will create a great deal of radiant heat.

A deck will be constructed of stone tile over concrete decking material with steel and decorative stone pillars. The deck will be open overhead. The deck will have a buffer material of crushed crushed gravel on top of a non-combustible fiberglass weed barrier. Decks must be kept clean and free of combustible materials. Keep debris such as pine needles, wood, and vegetation away from your deck. Each year rake pine needles and other combustible material from underneath decks and overhangs.

UTLITIES

The propane tank is to be set on a pad of crushed rock overlaying a weedbarrier ~25 ft to the south of the residence. The propane line to the residence will buried. Utilities for the property are from a pole ~200 ft. northeast of the residence. The septic field is located ~39 ft west of the residence. A well is located ~74 ft to the north.

DRIVEWAY ACCESS FOR EMERGENCY VEHICLES

Access the property from Boulder by heading west on Mapleton to Sunshine Canyon Dr, Left on Goatbarn Ln, end at 3375 Sunshine Canyon Dr. Emergency evacuation from this property is dependent on the location of a fire at a given time. Two main evacuation routes could be east on Sunshine Canyon Dr to Boulder or west on Sunshine Canyon Drive to the Peak to Peak Hwy.

The new driveway will create a significant amount of site distrubance and soil compaction and will require the removal of few trees. The driveway is to be ~12 feet wide with a vertical clearance of 13'6" and a grade that is less than 12 percent. The driveway is approximately 21 feet long therefore no turn around will be required. Since the driveway is less than 400 ft., no pull-outs are required along the driveway. However,

EMERGENCY WATER SUPPLY FOR FIRE FIGHTING

The emergency water source will be from a 2,400 gallon cistern which will be located ~33 ft north. The residence will also have a full interior NFPA 13 D Sprinkler system as required by Boulder County. Contact the Sunshine Fire Protection District (303-786-7731) for more information and specific details.

FUELS REDUCTION

All trees to be removed are marked with blue spray paint. All trees that are to remain within zones 1 and 2 will be unmarked and need to be pruned to a height of 8 ft or 1/3 the height of the tree, whichever is less. If the property is less than 1 acre it may not have zones marked due to boundary interference. Harvested wood that remains on site will be stacked at least 30 feet from the house and at the same elevation when possible. Slash from the harvest will be hauled off site. Note that if you decide to burn piles, you must obtain a valid Open Burning Permit from the Boulder County Environmental Health Department (303-441-1180) and notify your local fire protection district Sunshine Fire Protection District (303-786-7731).

FOREST COMPONENT AND HEALTH

The site has a dominant overstory consisting of ponderosa pine (*Pinus ponderosa*) with a ponderosa pine and Douglas-fir (*Pseudotsuga menziesii*) component. The understory consists of a dense cover of native grasses, forbs, and shrubs. The forested area is best represented by Fuel Model 8. Fuel Model 8 is represented by closed canopy stands of ponderosa pine and mixed conifer. Understory may consist of small trees and shrubs, grasses and moderate concentrations of down, dead woody litter. High amounts of needle litter may be present. This model can exist from foothills to subalpine.

Dwarf mistletoe (*Arceuthbium vaginatum*) was noted in a few trees on the property and adjacent to the property. Refer to the enclosed material or contact the Colorado State Forest Service for management recommendations..

DEFENSIBLE SPACE MANAGEMENT

There are three defensible space zones to be created around the structure(s) on the site. Please note that it is possible that one or more of these zones will cross over the subject property onto adjacent properties. Property boundaries must be respected; mitigation work is not required beyond immediate boundaries. However, landowners are encouraged to contact and work with neighbors if property lines limit the ability to mitigate within the prescribed area. **Defensible space** is a benefit, not only to the individual but also to the community as a whole.

- **Zone 1** Starts at the foundation and extends out 15 feet in all directions from the outside edge of the structure(s). Zone 1 is broken down into three segments:
 - **Zone 1A** Consists of the structure(s) themselves and the area immediately adjacent to and surrounding the structure(s) on all sides. A five-foot wide, non-flammable strip should be created using crushed gravel over a fiberglass weed barrier material. This strip will also extend back under, and out to, two feet past the drip line of any decks.
 - **Zone 1B** Extends out from Zone 1A. In this zone, all highly flammable vegetation should be removed. Any large dead woody material on the ground should also be removed. Firewise plants should be used for landscaping and re-vegetation. Grasses should be irrigated when possible and mowed to a maximum height of 6 to 8 inches twice per growing season to a distance of 30 feet from the structure.
 - **Zone 1C** This zone extends out from Zone 1B to 15 feet from the house. All understory trees (ladder fuels) should be removed as marked. These are small seedling and sapling size trees that can be ladders for fire to get in the crowns of the larger trees. A few of the larger, healthy trees can to be retained for screening. All

remaining trees in this zone should be pruned to a height of 10 feet. They must be well spaced so that the crowns are not touching (10 foot minimum crown spacing). No trees should overhang the house or decks, unless approved by Boulder County or CSFS as "part of the structure" with additional fuels reduction around those trees to insure the defensible space integrity. Trees should be at least 15 feet away from the house on all sides, and a minimum of 20 feet from chimneys.

Zone 2 - This zone extends out from Zone 1C, and acts as a transition zone between the heavily thinned areas near the house to the existing forest setting. It extends down slope between 100-170 feet depending upon slope steepness. Zone 2 also extends on either side of the structure a minimum of 100 feet and behind the house between 70-100 feet assuming no boundary restrictions. Tree spacing begins as in Zone 1C and gradually decreases as you approach the outer edge of the zone. Thinning and crown spacing becomes greater in areas of steep slopes. Ladder fuels and poor quality, suppressed and/or diseased trees, 6 to 8 inches in diameter, make up the majority of the removals. The remaining mature trees should be pruned to a height of 10 feet at the intersection of Zones 1 and 2 with limbing reduced in height to 6 feet as you approach Zone 3. If there are any questions pertaining to slope and the changes in thinning spacing and distance regulations please refer to http://www.ext.colostate.edu/pubs/natres/pubnatr.html and find the Quick Facts 6.302 Creating Wildfire Defensible Space.

Zone 3 - This zone extends out from Zone 2 to the edge of the property. It may extend out to areas that are not part of the immediate mitigation efforts. In this zone, a few thicker clumps of trees are acceptable, as well as some unpruned trees near the outer edge. Thinning in this zone adds some protection, but is aimed more at forest health. Trees that are of poor quality or form, or have insect or disease infestations, should be removed. Slash in this zone can be lopped and scattered and/or piled for wildlife use.

- Thin suppressed trees and trees with disease and insect infestations and retain the larger, healthier trees.
- · Snags can be retained for wildlife.
- Some slash in this zone can be lopped and scattered and/or piled for wildlife enhancement and shelter.
- · Large amounts of slash should be disposed of by chipping, hauling to an approved site, or burning.
- · For burning permits, check with your local fire protection district.

MAINTENANCE AND RECOMMENDATIONS

As detailed in fact sheet 6.302, <u>Creating Wildfire Defensible Zones</u>, an important factor that determines a structure's ability to survive wildfire is defensible space. Defensible space is a maintained area around a structure where fuels (flammable materials) are modified to slow the possible spread of wildfire to the structure, as well as from the structure to the surrounding areas. Defensible space provides a place where structure protection and fire suppression operations may occur. Wildfire hazard mitigation work breaks up fuel continuity, potentially decreasing a wildfire's intensity, and for more effectiveness should be completed beyond a home's defensible space, zone 1 and 2, area into zone 3.

In addition to the above recommendations, several other measures can be taken to make your home more fire safe and add an additional measure of safety for your family. While not required through site plan review, the following measures should be undertaken to maintain the home and defensible space in the future.

- Maintain your defensible space yearly; contact your local forester for a 5-year maintenance inspection
- Establish an escape route and safety zone with the aid of your local fire protection district
- Keep firewood at least 30 feet away from buildings; clear weeds and grass from around pile
- Do not stack fresh cut wood against live trees this could invite unwanted insects
- When possible, maintain an irrigated green space; mow grasses 6" to 8" high
- Connect, and have available, a minimum of 50 feet of garden hose with an adjustable nozzle
- Have an emergency evacuation plan in place (included in wildfire mitigation plan)
- Be aware of fire danger; your nearest fire danger sign is located at your fire station or check the Boulder Fire Weather website at www.crh.noaa.gov/bou
- Keep driveways and property address marked with reflective easy to see signs
- Maintain screens on foundations, soffit vents, roof vents, and attic openings
- Get rid of unnecessary accumulations of debris and trash from yards
- Keep tools such as shovels, rakes, ladders, and axes available and ready for use
- · Clean debris from the roof and gutters at least two times annually
- Check screens and maintain spark arresters on chimneys annually
- Avoid storing combustibles under decks such as wood piles, scrap lumber, and fuels

DEFINITIONS

Aspect - Exposure. The direction a slope faces.

Canopy - The cover of branches and foliage formed collectively by crowns of adjacent trees.

Crown – Branches and foliage of a tree.

Dominant fuel type – Matter that would carry a fire, found on the ground.

<u>Duff</u> – a layer of accumulated dead organic matter (pine needles).

Eddies - Small wind occurrences that are separate from normal wind flows.

<u>Fuel Model</u> – A number system that identifies the types of fuels found on the property that will directly influence fire behavior.

<u>Fire danger</u> - An assessment of both fixed and variable factors of the fire environment, which determine the ease of ignition, rate of spread, difficulty of control, and the fire impact.

<u>Fire hazard</u> - The potential fire behavior for a fuel type, regardless of the fuel type's weather-influenced fuel moisture content or its resistance to fireguard construction. Assessment is based on physical fuel characteristics, such as fuel arrangement, fuel load, condition of herbaceous vegetation, and presence of elevated fuels.

<u>Fire management</u> - The activities concerned with the protection of people, property and forest areas from wildfire and the use of prescribed burning for the attainment of forest management and other land use objectives, all conducted in a manner that considers environmental, social and economic criteria.

Fire risk - The probability or chance of fire starting determined by the presence and activities of causative agents.

Fuel continuity - The proximity of fuels to each other. Helps determine if a fire can sustain itself.

<u>Forest health</u> - A forest condition that is naturally resilient to damage; characterized by biodiversity, it contains sustained habitat for timber, fish, wildlife, and humans, and meets present and future resource management objectives.

<u>Ladder fuels</u> - Fuels that provide vertical continuity between the surface fuels and crown fuels in a forest stand, thus contributing to the ease of torching and crowning.

Limb (verb) –To remove the branches from a tree.

<u>Noxious weeds</u> - Any weed so designated by the Weed Control Regulations and identified on a regional district noxious weed control list.

Overstory – The tree species that forms the uppermost forest layer (dominant and co-dominant).

<u>Slash</u> – The residue left on the ground as a result of forest and other vegetation being altered by forest practices or other land use activities.

Snag - Standing dead tree, often used by wildlife such as woodpeckers, owls, and other various mammals.

<u>Understory</u> – Plants that grow underneath the overstory species.

<u>Wildland urban interface</u> – a popular term used to describe an area where various structures (most notably private homes) and human developments meet or are intermingled with forest and other vegetative fuel types.





Annual Fire Safety Checklist

- Thin trees and brush properly within defensible space.
- · Remove trash and debris from defensible space.
- Remove needles and pine cones from window wells.
- Remove trees growing through a porch or other portions of a structure.
- Clear leaves and debris from the roof and gutters of structures.
- Remove branches that overhang a chimney or roof.
- Stack firewood uphill from a home or on a contour away from the home.
- · Use noncombustible roof materials.
- Place shutters, fire curtains or heavy drapes on windows.
- Place screens on foundation and eave vents.
- · Enclose sides of stilt foundations and decks.
- Remove any combustibles from under decks, porches or entrances ways.
- Use a chimney screen or spark arrester in fireplaces.
- Clear vegetation from around fire hydrants, cisterns, propane tanks, etc.
- Place placards on garages if storing flammable materials inside.
- · Make sure that an outdoor water supply is available with a hose, nozzle and pump.
- · Post address signs that are clearly visible from the street or road.
- · Make sure that driveways are wide enough for fire trucks and equipment.
- Check with appropriate highway agencies to make sure load limits are posted on bridges and for the appropriate protocol for posting load limits for bridges on private property.
- · Install and test smoke detectors.
- Practice a family fire drill and evacuation plan.

Evacuation Tips

- If a wildfire is threatening your area, listen to the radio for updated reports and evacuation information.
- Confine pets to one room and make plans to take care of them in the event of evacuation.
- Arrange for temporary housing with a friend or relative whose home is outside the threatened area.
 Leave a note in a prominent place in your home that says where and how you can be contacted.
- If your home is threatened by wildfire, you will be contacted and advised by law enforcement officers
 to evacuate. If you are not contacted or you decide to stay and help defend your home, evacuate
 pets and family members who are not needed to protect your home.
- Remove important documents, mementos, etc. from the possible fire area.
- Choose an evacuation route away from the fire if possible. Watch for changes in the speed and direction of the fire and smoke.

Take a disaster supply kit containing:

- Drinking water.
- A change of clothing and footwear for each family member.
- · Blanket or sleeping bag for each person.
- · First-aid kit and prescription medications.
- Emergency tools including a battery-powered radio, flashlight and extra batteries.
- Extra set of car keys and credit cards, cash or traveler's checks.
- Extra pairs of eyeglasses or other special items for infants, elderly or disabled family members.

Defending Your Home

Whether you choose to stay to defend your home or to evacuate, complete as many of the following preparations as possible.

- DO NOT JEOPARDIZE YOUR LIFE. NO MATERIAL ITEM IS WORTH A LIFE.
- · Wear fire-resistant clothing and protective gear.
- Remove combustible materials from around structures.
- Close or cover outside vents and shutters.
- Position garden hoses to reach the entire house, but do not turn the water on until it is needed.
 Hoses should have an adjustable nozzle.
- Place large, full water containers around the house. Soak burlap sacks, small rugs or large rags in the containers.
- Place a ladder against the roof of the house on the opposite side of the approaching wildfire. Place a
 garden hose near the ladder, prepared as described previously.
- Place portable pumps near available water supplies, such as pools, hot tubs, creeks, etc.
- · Close all windows and doors. Do not lock them.
- Close all inside doors.
- Turn on a light in each room and all outside lights. Leave them on even during daylight hours.
- · Fill tubs, sinks and similar containers with water.
- Shut off gas supplies to structures at outside meters. Shut of propane supplies at the outside meter
 of the tank.
- Remove curtains made of lace, nylon or other light materials. Close blinds, heavy drapes and fire resistant window covers.
- Move overstuffed furniture into the center of the house, away from windows and sliding doors.
- Cars should be parked in the garage, facing out. Close the windows of the vehicle but do not lock the doors. Leave the keys in the ignition.
- Close the garage door but leave it unlocked. Disconnect automatic garage door openers.

For additional copies of these checklists, visit www.colostate.edu and search for wildfire, view the Colorado State Cooperative Extension fact sheet at http://www.ext.colostate.edu/PUBS/NATRES/06304.html, or contact the local Cooperative Extension office usually listed under the county government section of your local phone book.

(Information provided by Colorado State University Cooperative Extension and the Colorado State Forest Service.)

Safety Zone Guidelines

A Safety Zone is an area that in the event of a wildland fire you could survive the passing fire without the aid of a fire shelter. A natural safety zone could be an area already burned clean by the fire (in the black), rock areas where flashy fuels are absent, or large bodies of water. A manmade safety zones could be preconstructed sites such as clear cuts. It should be close enough to your home to consider escape time to reach the safety zone. They should not be located upslope or downwind of the fire or in heavy fuels.

- 1. Avoid locations that are downwind from the fire.
- 2. Avoid locations that are in chimneys, saddles, or narrow canyons.
- 3. Avoid locations that require a steep uphill escape route.
- 4. Take advantage of heat barriers such as lee side of ridges, large rocks, or solid structures.
- 5. Burn out safety zones prior to flame front approach.
- 6. For <u>radiant heat only</u>, the distance separation between you and the flames must be at least four times the maximum flame height. This distance must be maintained on all sides, if the

fire has ability to burn completely around the safety zone. Convective heat from wind and/or terrain influences will increase this distance requirement.

Calculations Assuming No Slope and No Wind

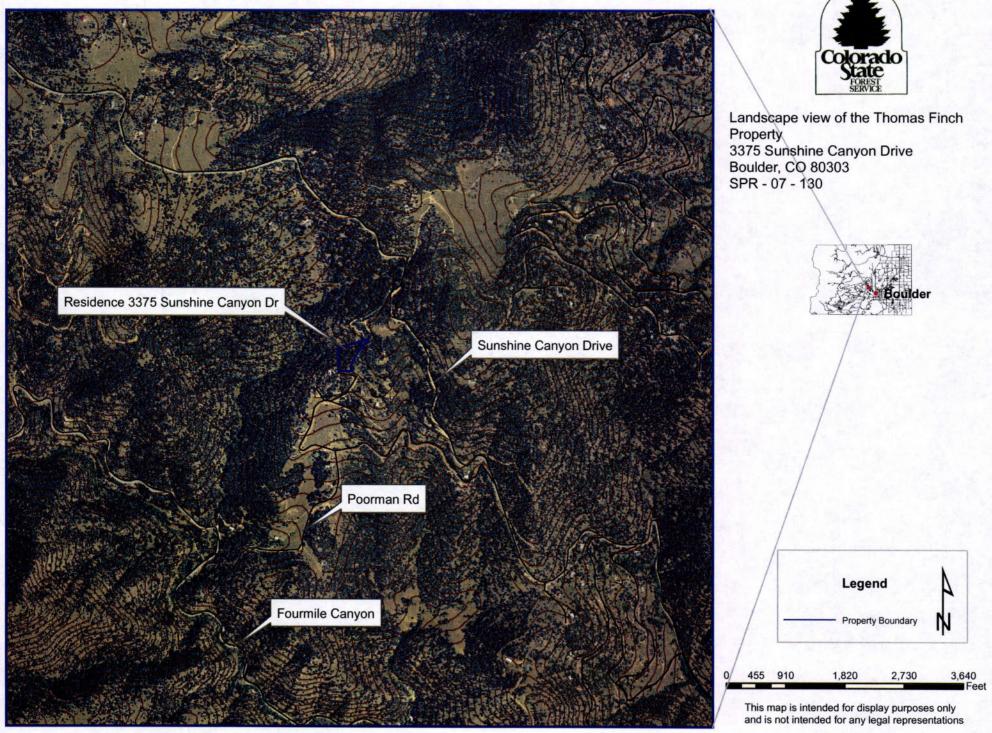
Flame Heights	Distance separation	Area in Acres
10 feet	40 feet	1/10 acre
20 feet	80 feet	1/2 acre
50 feet	200 feet	3 acres
75 feet	300 feet	7 acres
100 feet	400 feet	12 acres
200 feet	800 feet	50 acres

Note: Distance separation is the radius from the center of the safety zone to the nearest fuels. When fuels are present that will allow the fire to burn on all sides of the safety zone this distance must be doubled in order to maintain effective separation in front, to the sides, and behind the person.

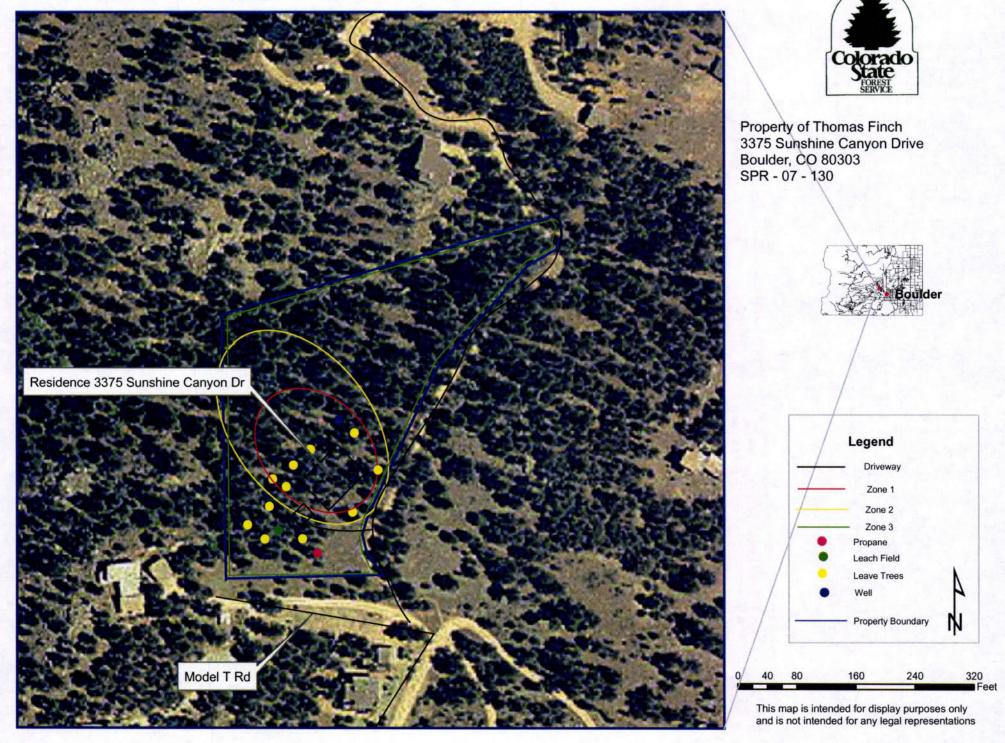
Area in Acres is calculated to allow for distance separation on all sides for a https://example.com/three-person family and a vehicle. One acre is approximately the size of a football field or exactly 208 feet x 208 feet.

Example: Given a fire with 10 foot flame heights (no wind or slope). You would need a minimum of 40 feet between you and the flames. So your total safety zone should be 80 feet x 80 feet. If you are settled into the middle of the safety zone you will have a minimum distance of 40 feet to each edge of the zone.

Boulder County Wildfire Mitigation Plan Map



Boulder County Wildfire Mitigation Plan Map





Sunshine Fire Protection District

311 County Rd. 83 Boulder, CO 80302 303.786.7731 www.sunshine-fpd.org

1/22/08

Thomas Finch 885 Arapahoe Ave. Boulder, CO 80302

Re. Community fire mitigation meeting, 1/29/08

Dear Thomas:

Sunshine Fire Protection District, in cooperation with several of your adjacent fire districts*, has developed a wildfire mitigation project for the Poorman community to be completed in 2008. This project will utilize state and federal grant dollars to remove and trim trees, and establish an additional "escape route" in the

A small neighborhood meeting has been planned for 7:00 PM, January 29th, at the home of Laurie Larsen and Tom Stoner, 121 Leonard's Road. This gathering will give you an opportunity to hear about the plan, ask questions about its impact and tell us how you would like the mitigation carried out. This project includes the cutting of trees on both private and public lands and needs your support to provide the additional fire protection this neighborhood sorely needs.

This is a new cooperative effort among our fire agencies that, hopefully, will provide ongoing support over the next several years to make our community a safer place to live. Your input and involvement is extremely important in making this effort effective.

I would greatly appreciate knowing if you will be able to attend this meeting. Could you please give me a call or email to let me know? I look forward to seeing next Tuesday.

Best regards,

Steve Stratton, Chief steve@stevestratton.tv 303-786-8255

*Fire Protection Districts: Boulder Rural, Four Mile, Sunshine, Boulder Mountain



Boulder County Land Use Department | W E Courthouse Annex Building 2045 13th Street • PO Box 471 Boulder, Colorado 80302 NOV 3 0 2007

NOV 3 0 2007

Phone: 303-441-3930 • Fax: 303-441-4856 Email: planner@co.boulder.co.us • http://www.co.boulder.co.us/lu/

BOULDER COUNTY Office Hours: Monday - Friday 8:00 AM to 4:30 PM



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* No Application Deadlin	ne	Application Deadline: First Wednesday of the Month		* Application Deadline: Second Wednesday of the Month				
☐ Limited Impact Special Use ☐ Site Plan Review ☐ Site Plan Review Waiver ☐ Subdivision Exemption ☐ 1041 State Interest Review ☐ Exemption Plat ☐ Other:		First Wednesday of the Month Variance Appeal		Preliminary Plan Location and Extent Resubdivision (Replat) Road/Easement Vacation Final Plat		Sp Sp Sp	Road Name Change Special Use/SSDP Extension of Approval Sketch Plan Rezoning	
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BOULDER ent/Consultant	State Co	st, ste	Zip Code 803	02	Phone 303 - 41 Email Address Phone	3-8556	^{Fax} 303 - 413 - 855 7	
Property Owner required and that I am conject property at any conject property at any conject property of the control of the control of the control of the conject property at any conject property of the conject property of	State St	the Regulations and sation Form as an initted are true are prior to having this gn an Agreement derations which may be condition of an allow the Country in the without obtains.	Zip Code Zip Code Zip Code Application Sowner of record correct to the smatter process of Payment for nay arise in the approval. Staff involved in the province of the smatter process of Payment for nay arise in the approval.	submittal Pace of the proper best of my sed. I under Application processing of this application application this application of the processing of the proces	Phone 303-41 Email Address Phone ckage for complete erty included in the knowledge. I undestand that public hyprocessing fees and this docket. I uncation or their desiration or their desiration or their desiration.	a application appl	Fax on requirements.) ion. I certify that the tall materials required be meetings may be itional fees or materials at the road, school, and other onto and inspect the	
Present/Consultant Presen	State St	the Regulations and action Form as an inited are true are initiated and Agreement derations which man a condition of an allow the County ime, without obtapplication. If a	Zip Code Zip Code Zip Code Application Sowner of record correct to the smatter process of Payment for nay arise in the approval. Staff involved in the province of the smatter process of Payment for nay arise in the approval.	submittal Pace of the proper best of my sed. I under Application processing of this application application this application of the processing of the proces	Phone 303-41 Email Address Phone ckage for complete erty included in the knowledge. I undestand that public hyprocessing fees and this docket. I uncation or their desiration or their desiration or their desiration.	a application appl	Fax on requirements.) ion. I certify that the tall materials required to meetings may be itional fees or materials hat the road, school, and onter onto and inspect the ed and dated.	

shown under the applicable provisions of the Land Use Code.



Boulder County Land Use Department Planning Publications

Site Plan Review Fact Sheet

Each section of this Fact Sheet is required to be completed, even if the information is duplicated elsewhere in the application. Completed Fact Sheets cut application review time, and assist staff in expediting determinations. Please make duplicates of this page if the project involves more than two structures.

(e.g. residence, studio, barn, o TOTAL EXISTING FLOO (Finished + Unfinished sq	RAREA: NI	A sq/ft	DEMOLISH: NIA
Is new floor area pro Yes No If Yes, please be sure	posed in areas w	here demolition	is will occur?
PROPOSED	FLOOR AREA		Height above
Finished	Unfinished	Total	existing grade 29
Basement 1214 sq/ft	292 sq/ft	1506 sq/ft	Exterior wall:
1st Floor 2186 sq/ft	O so/fit	2186 sq/ft	- Material Stucco + st
2nd Floor 1360 sq/ft		1360 sq/ft	- Color DK . Tan B
Garage Minetached Cattached Sattached Say/fit		675 sq/ft	Roofing: - Material Slate
Deck O		18 10 saft	-Color Dk Gree
Total 4760 sq/ft	1777 sq/ft	The second second	

TOTAL EX	ce, studio, barn, et USTING FLOOR Unfinished sq.)	AREA:	sq/ft de garage if a	DEMOLISH: stached)
	PROPOSED F	LOOR AREA		Height above
	Finished	Unfinished	Total	existing grade
Basement	sq/ft	arry sq/ft.	HOST COUNTY	Exterior wall:
1st Floor	· sq/ft	or the saft	sq/ft	- Material
2nd Floor	sq/ft	Any (a)	sq/ft	- Color
Garage ODetached OAttached	sq/ft	h _a di :	Comm	Roofing: - Material
Covered	SUIL	sq/ft	. sq/ft	2 Call Constant
Deck _		sq/ft	sq/ft	- Color
Total	sq/ft	.sq/ft*	sq/ft	

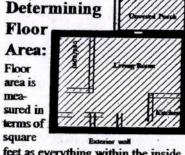
Project Identification

Project Name:

Property Address/Location:

Current Owner:

Size of Property in Acres:



feet as everything within the inside of the outside walls and includes covered porches, garages and basements. The shaded area on the diagram above indicates the area counted as square feet.

Please note: If existing walls and/or roof are removed and new walls/roof are constructed, the associated floor area due to the new walls and/or roof is considered new construction and must be included in the calculation of floor area for Site Plan Review & shown on the Fact Sheet.

If a Limited Impact Special Use Review is required, then call 303-441-3930 and ask for a new Preapplication conference for the Limited Impact Review.

This document prepared by:
Boulder County Land Use Dept.
Courthouse Annex, 13th & Spruce St.
PO Box 471; Boulder, CO 80306
Phone: 303-441-3930
Fax: 303-441-4856
Web Site:
http://www.co.boulder.co.us/lu/
or http://www.boulder.co.us/lu/
or http://www.boulder.co.us/lu/
or http://www.boulder.co.us/lu/
or http://www.boulder.co.us/lu/
or http://www.boulder.co.us/lu/
E-mail: planner@co.boulder.co.us
Office Hours:
Monday through Friday
8:00 AM to 4:30 PM

Earth Work / Grading Total Fill Cut This worksheet is to help you Driveway & accurately determine the **ParkingAreas** amount of grading for the property in accordance with Berms the Boulder County Land Use Code. Please fill in all Other Grading: applicable boxes. Box 1 Note that applicants must Total fill in the shaded boxes even If the total in Box I is more than 500 cubic yards, though foundation work then a Limited Impact Special Review is required does not contribute toward Cut Total the 500 cubic yard trigger requiring Limited Impact Foundation Special Use Review. Also, note that all areas of Material cut from foundation excavation to be removed from earthwork must be reprethe property. Excess material sented on the site plan. will be transported to the following location:

Narrative

Use this space to describe any special circumstances that you feel the Land Use Office should be aware of when reviewing your application. If more room is needed, feel free to attach a separate sheet.

Grading Calculation Note

Cut and fill calculations are necessary to evaluate the disturbance of a project and to verify that a Limited Impact Review (LU) is not required. ALU is required when grading for a project involves more than 500 cubic yards (minus normal cut/fill and backfill contained within the foundation footprint). If grading totals are close to the 500 yard trigger, additional information may be required, such as a grading plan stamped by a Colorado Registered Professional Engineer.

Certification

I certify that the information submitted is complete and correct. I agree to clearly identify the property (if not already addressed) and stake the location of the improvements on the site within four days of submitting this application. I understand that the intent of the Site Plan Review process is to address the impacts of location and type of structures, and that modifications may be required. Site work will not be done prior to issuance of a Grading of Building Permit.

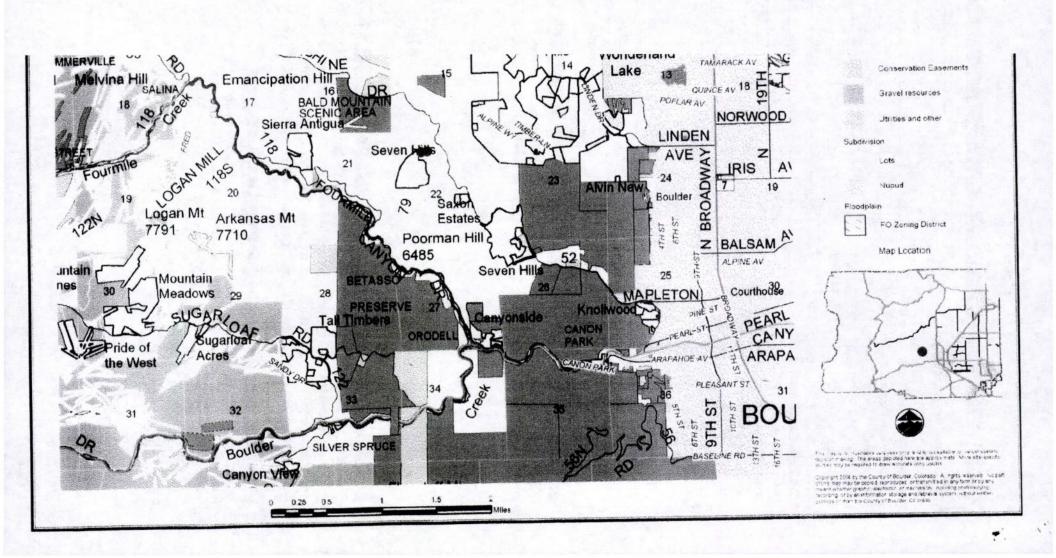
Signature

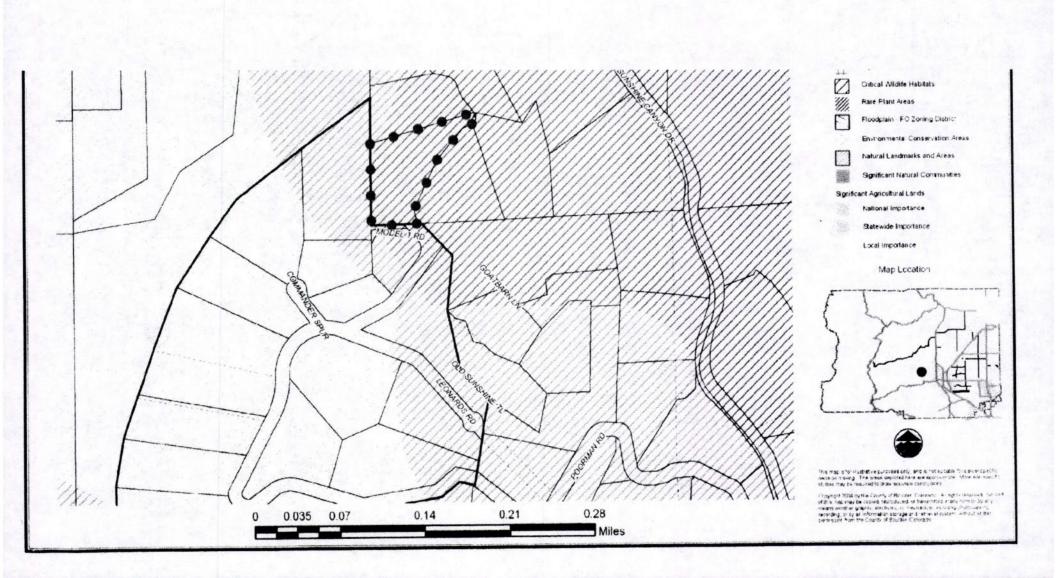
Date 11/15/07

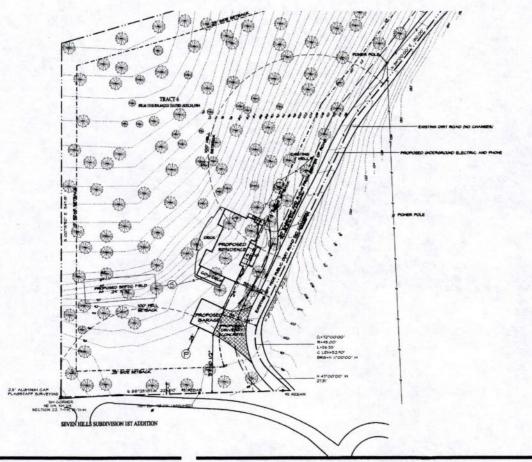
Form: spr_fact Revised: 6/21/06 Is your property gated and locked? If

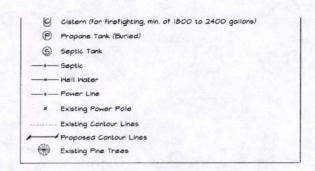
county personnel cannot access the property, then it could cause delays in reviewing your application.

g:\handouts\planning\siteplanreview\spr_fact.pmd Page 2









DECEIVED N JAN 15 2008

BOULDER COUNTY

SITE NOTES:
PROPERTY SIZE:
~2.3 ACRES
INTENDED USE:
SINGLE FAMILY
RESIDENTIAL

SITE MAP

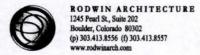
SCALE: 1" = 60"

DATE:

JOB NO: REVISED: 12.19.07
DRAWN: KS 1.11.08
CHECKED: SR

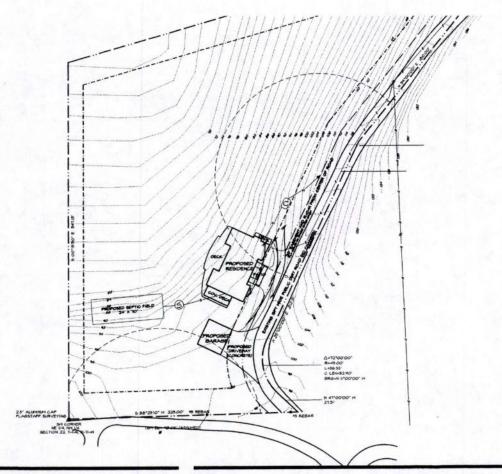
11.15.07

CVR



FINCH RESIDENCE

3375 SUNSHINE CANYON DRIVE BOULDER, CO 80303



EXIDENTIS POR

Cistern (for firefighting, min. of 1800 to 2400 gallons)

Propone Tank (Buried)

Septic Tank

- Septic

Power Pole

Existing Contour Lines

Proposed Contour Lines

Existing Pine Tree

GRADING PLAN SCALE: 1" = 60"

RODWIN ARCHITECTURE 1245 Pearl St., Suite 202 Boulder, Colorado 80302 (p) 303.413.8556 (f) 303.413.8557 www.rodwinarch.com

FINCH RESIDENCE

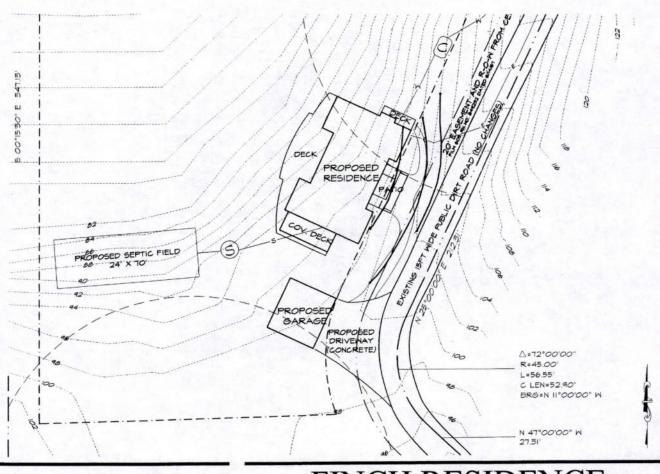
3375 SUNSHINE CANYON DRIVE BOULDER, CO 80303

JOB NO: DRAWN: KS CHECKED:

SR DATE: 11.15.07 REVISED: 12.19.07

1.11.08

GRADING PLAN



- Existing Contour Lines Proposed Contour Lines

Existing Pine Tree

GRADING PLAN (ENLARGED)
SCALE: 1" = 30"



RODWIN ARCHITECTURE 1245 Pearl St., Suite 202 Boulder, Colorado 80302 (p) 303.413.8556 (f) 303.413.8557 www.rodwinarch.com

FINCH RESIDENCE

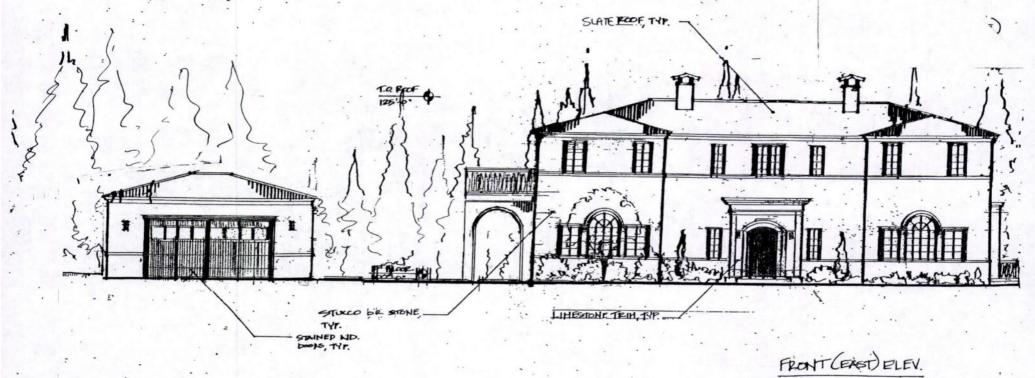
3375 SUNSHINE CANYON DRIVE BOULDER, CO 80303

JOB NO: DRAWN: CHECKED: DATE:

KS SR 11.15.07

12.19.07 REVISED: 1.11.08

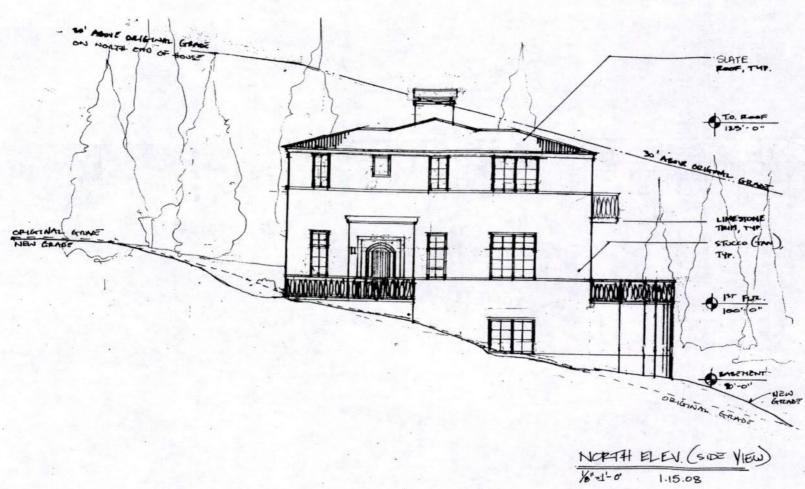
GRADING PLAN

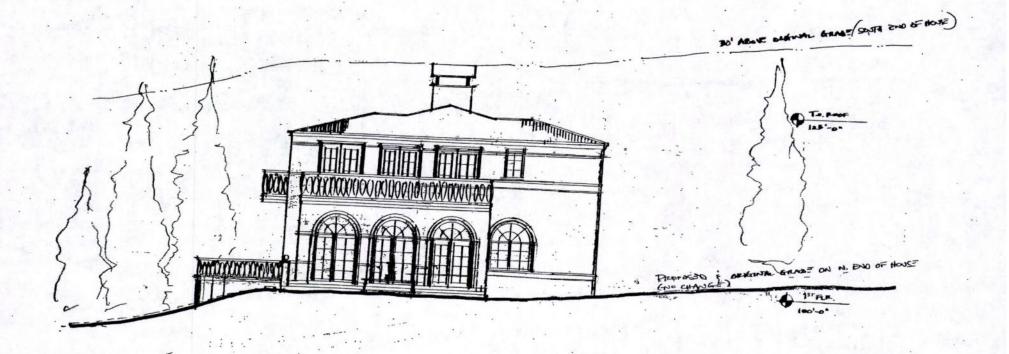


16"=1-0"

1.15.08 Revision #2



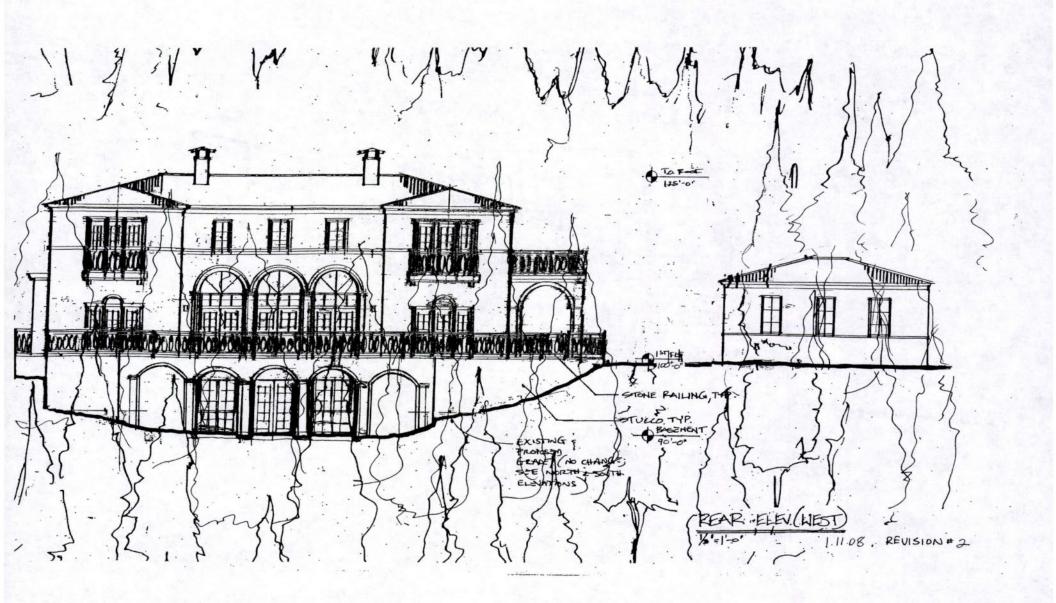


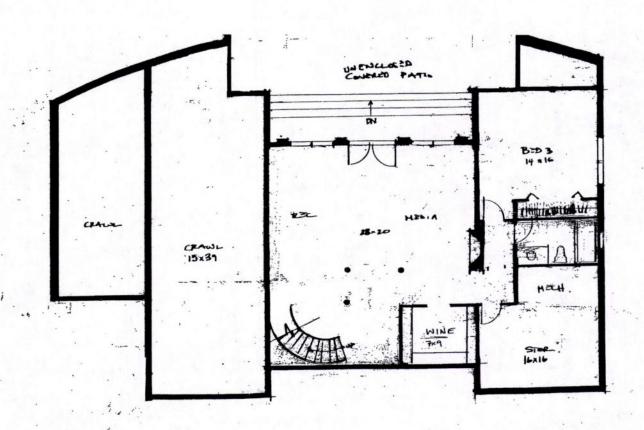


SOUTH ELEV.

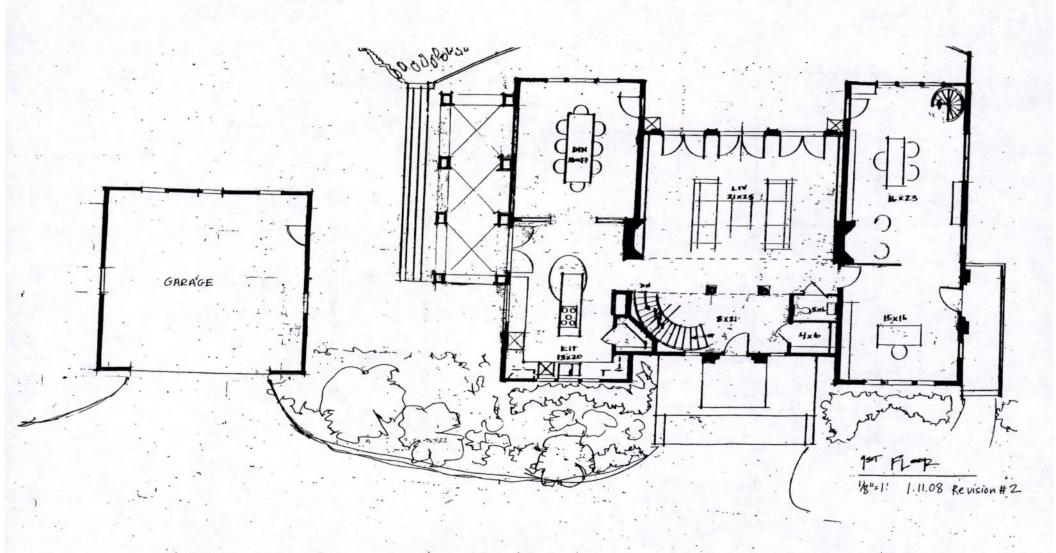
16"=10

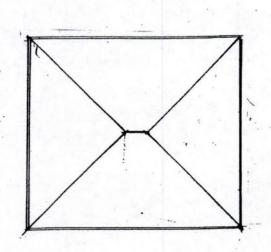
1.11.08 Revision # 2

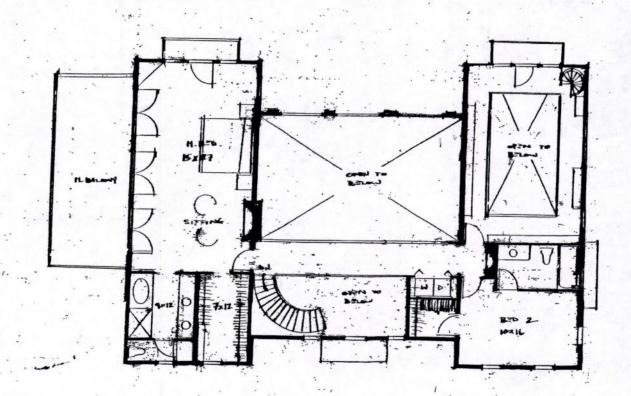




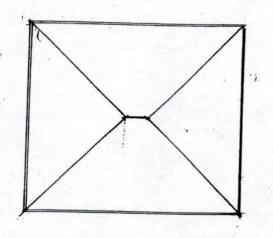
BASEMENT 1.11.08 PAISION = 2

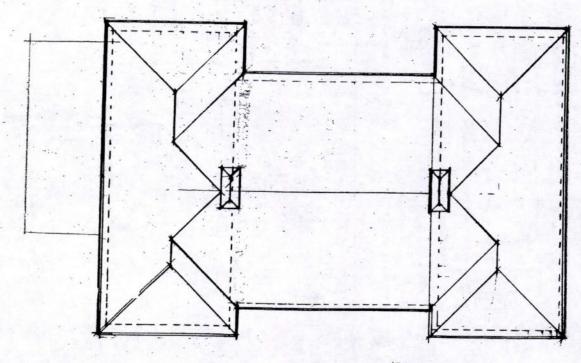




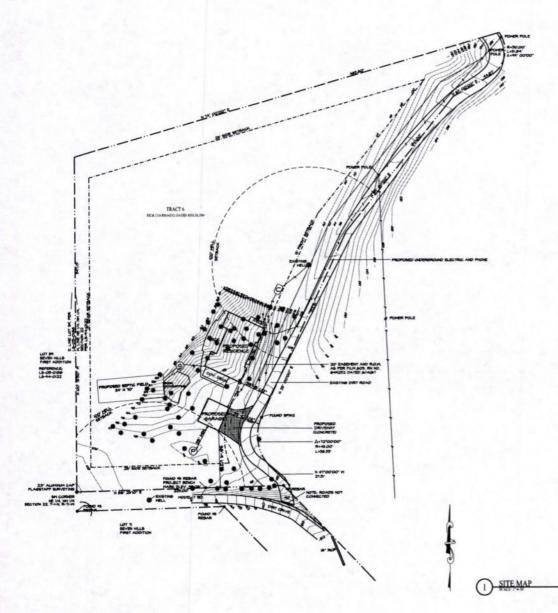


2" P-P 1.11.08 Revision #2





ROOF PLAN 1/8"=1'-0" 1.11.08 Revision #2



SITE PLAN KEY:

- Cistern (for firefighting, min. of 1800 to 2400 gallons)

- - Existing Pine Trees





RODWIN ARCHITECTURE 1367 Puel St. Sein: 392 Breider, Colondo: 99302 gel 300413,8350: 163 303413,835 www.colonaech.com

FINCH RESIDENCE

3375 SUNSHINE CANYON DRIVE BOULDER, CO 80303

RIB NO DRAWN CHECKED DATE: BEYTERD



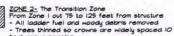
SITE NOTES:
PROPERTY SIZE:
~2.5 ACRES
INTENDED USE:
SINGLE FAMILY
RESIDENTIAL

WILDFIRE DEFENSIBLE ZONES

LEGEND:

ZONE 1- The Safety Zone- 15 to 30 ft Around Structure

- IA- 3 to 5 ft from structure All flammable vegetation removed Need Barrier covered with crushed rock or gravel
- IB- Green Space Grasses moved 4 to 6 Inches
- IG- Remaining Area
 Mature trees pruned up to 10 feet



feet crown spacing - Limb trees 6 to 8 feet from ground



ZONE 3- The Management Zone From Zone 2 to edge of property - Thin trees for forest health - Remove diseased or weakened trees

SITE PLAN KEY:

- Existing Well
- Cistern (for firefighting, min. of 1800 to 2400 gallons)
- Propone Tank (Buried)

- Existing Contour Lines
- Proposed Contour Lines
- Save Existing Pine Tree



X Remove Pine Tree

SITE NOTES: PROPERTY SIZE: ~2.3 ACRES INTENDED USE: SINGLE FAMILY RESIDENTIAL





RODWIN ARCHITECTURE 1345 Poul St. Sein 200 Booklet Celerate MISSI (p) 303-413.855n d) 303-413.85 nww.collectureth.com

FINCH RESIDENCE

3375 SUNSHINE CANYON DRIVE BOULDER, CO 80303





Matt Jedra

From: Kirsten Snobeck [Kirsten@rodwinarch.com]

Sent: Tuesday, February 19, 2008 10:57 AM

To: mjedra@lamar.colostate.edu

Cc: Scott Rodwin

Subject: Finch- 3375 Sunshine Canyon Drive- Emails + site meeting

Hi Matt,

Hopefully you just received my two previous emails. The County has been very specific about preserving screening on the west side of the house as laid out in the Conditions for Approval.

The property can be accessed via Goatbarn Ln (going north on Sunshine Canyon-, it's the left turn after Poorman). There's a locked gate along the road, and the code is 3375. If you'd like one of us on site, please let me know.

After the site visit, how long does it take to prepare drawings for submittal? I think you mentioned two weeks, but I just want to clarify.

Please let me know if you need anything else or if you have any questions.

Thanks for all your help,

Kirsten Snobeck

RODWIN ARCHITECTURE

1245 Pearl Street, Suite 202

Boulder, Colorado 80302

p 303.413.8556 f 303.413.8557

www.rodwinarch.com

Colorado State Forest Service

Wildfire Mitigation Plan Data Form

FOREST SERVICE Boulder District 5625 Ute Highway Longmont, CO 80503 (303) 823-5774 FAX: (303) 823-5768

Please be specific. Fill out the data form as completely and as accurately as possible, **do not** leave any blanks. Leaving blanks can delay the process of your wildfire mitigation plan. You may email it to Matthew Jedra at mijedra@lamar.colostate.edu or fax it to 303-823-5768, or bring it to the scheduled appointment.

The cost of the Wildfire Mitigation Plan is \$300.00. An invoice will be included when you receive the plan. Payment is due within 30 days from the date of the invoice. Any **Bolded** categories will be filled in by the Colorado State Forest Service (CSFS) representative at the time of initial site visit. If you have any questions about this form please contact Matthew Jedra at 303-823-5774.

==,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,	
Inspection Date:	
Landowner name:	THOMAS J. FINCH
Mailing address:	885 ARAPAHOE AVE.
City, State, Zip:	BOULDER, CO 80302
Site address:	3375 SUNSHINE CANYON DRIVE, 80302
Phone number:	303-449-7050
Road access: (Direct	ions from main access road)
Sunshine Ca	nyon Orive North, Left on Goatbarn Ln (1st left
	an), locked gate combo 3375, last lot on right before
dead end	
Docket number:	SPR-07-130 (SPR, SPRW, LU, Etc.)
Section:	_22_
Township:	1N
Range:	71W
Legal Description:	
that portion	of the NEY4 of the NW'4 of Section 22.
Township I N	south, Range 71 West of the 6th P.M.

Elevation: ~ 6500	_ (feet) * per	Terraserver topo plan 1984
Lot size: 2.3	(Acres)	
Driveway length:	21'	_(Actual length in feet from road to home)
Driveway trees removed:Fe	(few/many/	none) * county also rea's emergency turnaround + pull-off
House design: Sim any shaped with a number of all		rely complex – any shape with a few alcoves or complex – (n)
Home buffer material: Cws stone/crushed gravel/decorative	hed gravel stone)	_(Material that is spread 5 ft. wide around the house -
Roof Design: Sirr	ple (moderately	complex/complex)
Roof material: Slat is not permitted ion Boulder Co	e shingles punty))	(Class A- Asphalt shingles/concrete tiles/metal (wood root
Soffit type and thickness SIP	5 W 518" OSB	(3/4" Plywood or 3/8" hardboard/cement board)
Siding material: Siding is not permitted on high	h hazard sites)	(Cement/hardboard/log/stucco/stone/wood - wood * over ICF walls
Windows (#): 34	(number of win	ndows in the structure)
Window Size: medio	m_(On average: sn	nall - <3x4', medium - 4x5', large <5x6')
Window Frames: Alom.	clad wood	(Wood or aluminum clad wood/ vinyl is not permitted)
Window Aspect: _West		(Dominant viewing direction)
Window Construction: Low	-E coating	(Low E- Coating/Tempered glass/etc)
Window Wells: that site below ground level, us	ually in a basement)	(Number and location if present, these are windows
Sliding Glass Doors:	ø	_(Location and Number)
Door Material: Alom.	clad wood	(Wood/steel/fiberglass/composite)
Deck material: stone -	tile over concrete	e(type of composite materials, wood is not permitted)
Deck Description: 6pen underneath)	deck	(Enclosed deck/open deck/enclosed underneath/open

Deck support type:	Steel + deco	native stone	(Timber posts/lo	gs/steel/concrete/decorative stone)
Deck buffer material stone)	crushed	gravel		(Crushed rock/gravel/decorative
Deck weed barrier:	Fiberglas	4		(Fiberglass/polyester)
Number of Structure	s: ((All structures t	to be present, inc	cluding sheds, garages and out buildings)
Existing Structures:	<u>\$</u>			(House/barn/garage/etc.)
New Structure:	House +	detached	Garage	(House/Barn/garage/new addition/etc)
Structure Square feet the sq.ft that you su	: <u>6537()</u> bmitted for SPR	(Total), if it has char	al sq.ft. of structinged, please spe	are – this must be accurate and match cify)
Structure aspect:	west	(Do	minant facing d	irection/view, N, S, E, W)
Utility Location: E, W/20ft, 30ft, 40ft,	~200'NE ov etc)	~130'E	Pole/buried: Dir	rection and distance from residence – N, S,
Detached Garage (if	applicable):	675		(Total square feet)
Out buildings:	-\$		(Total square	are feet of any and all sheds, cabins, ect)
Leach field: 30ft, 40ft, etc)	~39'W	(Direction and di	istance from residence - N, S, E, W/20ft,
				<2,000 sq.ft – 1,800 gal., >2,000 to 2,500 nterior NFPA 13 D Sprinkler system per
Cistern Location: W/20ft, 30ft, 40ft, etc	~ <u>33′</u>	7	(Direction	n and distance from residence - N, S, E,
Cistern Type:	Five cist	ern (Domestic Cister	m or Fire Cistern)
Making a donation to	community ciste	em : N	(Yes or No)	
Have you talked to the	e local fire depar	tment : Y	(Yes or No)	eft messages + communicated
Are you required to h	ave a sprinkler sy	ystem:	(Yes or No) (If	your house/addition is greater than 3,600 system per Boulder County)

Water supply:	Well (existing)	(Well or main line)
Well (if applicable): 30ft, 40ft, etc)	74' N	_ (Direction and distance from residence - N, S, E, W/20ft,
Propane or natural gas	: Propane (buried	1)
Propane Tank location 30ft, 40ft, etc)	: min. 25'S	_ (Direction and distance from residence - N, S, E, W/20ft,
Slash disposal:	Havled (Chipped/hauled/burned/lop-scatter)
Can you provide a cop	y of a map with locations:	Y (Yes or No) * site plan
Comments:		
	This part will be filled	out by the CSFS inspecting forester
FPD:		
Dominant fuel type:		(Grass/forbs/shrubs/slash/etc)
Dominant overstory:		
Co-dominant oversto	ry:	
Fuel model type:		
Aspect:		(Direction of slope)
Slope:		(Percent)
Building site:		(Chimney/saddle/valley/ridge/mid-slope)
Site moisture:		
Natural fire barrier:		
Insect & Disease Diag	gnosis:	
Comments:		

Matt Jedra

From: Kirsten Snobeck [Kirsten@rodwinarch.com]

Sent: Monday, February 11, 2008 1:07 PM

To: Matt Jedra
Cc: Scott Rodwin

Subject: RE: Finch SPR 07-130- 3375 Sunshine Canyon Drive

Hi Matt,

I met with Robin Kerns this morning about Tree Preservation in conjunction with the Wildfire Mitigation Plan. I wasn't sure if you have read the Conditions of Approval, but the County wants "no less than 4 trees" on the West side of the house for screening. There are two or three mature trees that Robin has flagged with Eric Philips that the County definitely wants to keep. There are some minor trees in this area that they would like to keep for screening as well, but these might be too close to the house.

Please let me know if you have any questions.

Thanks.

Kirsten Snobeck

RODWIN ARCHITECTURE

1245 Pearl Street, Suite 202

Boulder, Colorado 80302

p 303.413.8556 f 303.413.8557

www.rodwinarch.com

From: Matt Jedra [mailto:mjedra@lamar.colostate.edu]

Sent: Friday, February 08, 2008 4:27 PM

To: Kirsten Snobeck

Subject: RE: Finch SPR 07-130- 3375 Sunshine Canyon Drive

Kirsten,

Attached is the proposal for the WMP for the Finch Residence located at 3375 Sunshine Canyon. Let me know if you would like to schedule a date for the WMP. Thank you.

Matthew Jedra
Forester - Boulder District
Colorado State Forest Service
5625 Ute Highway
Longmont, CO 80503
(303) 823-5774
(303) 823-5768 fax
mjedra@lamar.colostate.edu