WILDFIRE MITIGATION PLAN

For Mark and Pamela Severance 75 Spring Lane, Boulder, CO 80302 Docket: SPR - 09 - 028 Inspection date: 5/26/2009

Prepared for: Mark and Pamela Severance 75 Spring Lane Boulder, CO 80302 Phone: 303-443-4076 Prepared by: Nicole Palestro Boulder District Phone: (303) 823-5774 E-mail: palestro@lamar.colostate.edu

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 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 <u>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.</u>

SITE LOCATION AND PROPERTY DESCRIPTION

The property is located in Section 3, Township 1N, Range 71W, Boulder County. It is located within the Boulder Mountain Fire Protection District. The lot is 1.4 acres in size and has a modest ~20-30 percent slope with a south aspect. The site is at ~7,000 feet in elevation and located midslope which is relatively dry. Spring Lane to the south will create a small natural barrier that may help slow the spread of a surface fire on the site.

CURRENT AND FUTURE PLANS FOR THE SITE

A 1,406 sq. ft. remodel is proposed for the site. There is one house with a total square footage of 2,671 and a shed located on the site at this time. After construction is complete the total square footage of the structure will be 4,077.

CONSTRUCTION DESIGN AND MATERIALS

The proposed remodel will have a moderately complex design with a moderately complex roofline and will be oriented with a south aspect. Buffer material around the structure will consist of river gravel. 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 with one another creating eddies where 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 Class A asphalt shingles. Soffit material will be of 3/8" cement board. 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 gutters and roofs clear of leaves and needles.

The exterior wall material is to be cement board. The structure will have 26 windows of all sizes. Windows will be double glazed with Low E-coating and tempered glass where required. Frames will be made of aluminum clad wood. Exterior doors are to be fire-rated and made of solid core aluminum clad and insulated steel that is not less than 1-3/4 inches thick. There is one window well located on the west side of the structure 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 uphill faster and will create a great deal of radiant heat.

The deck will be constructed of steel and wood decking material with steel and wood supports. The deck will be enclosed underneath and overhead. The deck will have a buffer material of crushed river gravel on top of a non-combustible polyester weed barrier. Decks must be kept clean and free of combustible materials. Keep debris such as pine needles, wood, and vegetation away from deck. Each year rake pine needles and other combustible material from underneath decks and overhangs.



UTLITIES

The propane tank is located 76 feet to the south of the stucture. Utilities for the property are buried from a pole located ~86 feet to the south of the structure. The septic field is located ~30 feet to the southwest of the structure. A well is located 80 feet to the north of the structure. Propane tanks above ground must not have anything combustible around them (such as firewood, or wooden fencing) or above them (such as overhanging tree limbs). Slash pile and wood piles should be at least 30 feet from the tank. Maintain a 10-foot vegetation free zone around the propane tank.

DIRECTIONS AND EVACUATION ROUTES TO AND FROM PROPERTY

To reach the property from Boulder head west on Lee Hill Road to Deer Trail, left on Brook Road to Spring Lane. Emergency evacuation from this property is dependent on the location of a fire at a given time. Two main evacuation routes could be Lee Hill Road west to Lefthand Canyon or east on Lee Hill Road to the city of Boulder

DRIVEWAY ACCESS FOR EMERGENCY VEHICLES

Construction on the driveway will not create any additional site disturbance of soil compaction. It will not require the removal of any trees. The driveway will be ~12 feet wide with a vertical clearance of 13'6" and a grade that is less than 12 percent. The driveway is ~137 feet in length. A turn-around is located near the structure. However, on longer driveways, pull-outs and turn-arounds are essential for emergency vehicles to be able to turn around or pass safely on any road or driveway.

EMERGENCY WATER SUPPLY FOR FIRE FIGHTING

The emergency water source will be from a community cistern. Contact the Boulder Mountain Fire Protection District (303-440-0235) for more information and specific details.

FUELS REDUCTION

All trees that are to remain within zones 1 and 2 will be unmarked and need to be pruned to a height of 6 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 should be stacked at least 30 feet from the house and at the same elevation when possible. Slash from the harvest will be chipped. 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.

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 9. Fuel Model 9 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.

There were no significant signs of insect or disease noted on the property at the time of the inspection.

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) and the area immediately adjacent to and surrounding the structure(s) on all sides. A five-foot wide, non-flammable strip must be created using over a polyester 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 to 10 feet from the structure. **In this zone, all highly flammable vegetation such as ground juniper should be removed**. Ground juniper contains a high oil content. This in combination with the dead material that builds up underneath the shrub produces very flammable vegetation. Any large dead woody material on the ground must 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 structure. All understory trees (ladder fuels) must 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 must 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 must 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 retaining the larger, healthier trees. Snags, 2 to 4 per acre, can be retained for wildlife. Slash in this zone can be lopped and scattered and/or piled for wildlife use. Large amounts of slash should be disposed of by chipping, hauling to an approved site, or burning. Burn permits can be obtained from Boulder County.

OTHER DEFENSIBLE SPACE 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.

- · Keep firewood at least 30 feet away from buildings; clear weeds and grass from around wood piles
- When possible, create and maintain an irrigated green space in zone 1 and/or 2; keep grasses mowed at least 6" to 8" in height
- Place and maintain screens and spark arresters on chimneys
- Place and maintain screens on soffit vents, roof vents, and attic openings
- Place shutters, fire curtains or heavy drapes on windows.
- Enclose sides of stilt foundations and decks.
- Place placards on garages if storing flammable materials inside.
- Install and test smoke detectors.
- Remove unnecessary accumulations of debris and trash from yards
- Connect, and have available, a minimum of 50 feet of garden hose with an adjustable nozzle
- Keep tools such as shovels, rakes, ladders, and axes available and ready for use
- Create reflective easy to see signs for driveways and property addresses
- · Avoid storing combustibles under decks such as wood piles, scrap lumber, and fuels
- Maintain your defensible space yearly; contact your local forester for a 5-year maintenance inspection
- 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 <u>www.crh.noaa.gov/bou</u>
- Establish an escape route and safety zone with the aid of your local fire protection district
- 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.





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.
- 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 at least 30 feet away from structures.
- Clear weeds and grass from around wood piles.
- · Check and maintain screens on soffit vents, roof vents, and attic openings.
- Remove any combustibles from under decks, porches or entrances ways.
- · Clear vegetation from around fire hydrants, cisterns, propane tanks, etc.
- Make sure that an outdoor water supply is available with a hose, nozzle and pump.
- Make sure address signs are still clearly visible from the street or road.
- Make sure that driveways are wide enough for fire trucks and equipment.
- 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 <u>www.colostate.edu</u> and search for wildfire, view the Colorado State Cooperative Extension fact sheet at <u>http://www.ext.colostate.edu/PUBS/NATRES/06304.html</u>, 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 pre-constructed 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

<u>Note</u>: 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 <u>three person family and a vehicle</u>. 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.

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.

Duff - a layer of accumulated dead organic matter (pine needles).

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

Fuel Model – 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.

Forest health - 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.

Ladder fuels - 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.

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.

Property of Mark and Pamela Severance 75 Spring Lane SPR - 09 - 028

380 Feet



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COPIES TO:

MESSAGE:

Nicole,

It was a pleasure to meet you today.

I have attached the Wildfire Mitigation Plan Data Form. Please send me a copy of your completed report, my email is david@dfswoboda.com.

Sincercly,

David F. Swoboda

If you received this transmission in error, if pages are missing or are illegible, please call 303 938-9978.

Colorado

Boulder District

(303) 823-5774 FAX: (303) 823-5768

5625 Ute Highway Longmont, CO 80503

Colorado State Forest Service

Wildfire Mitigation Plan Data Form

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 Nicole Palestro at palestro@lamar.colostate.cdu 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 Nicole Palestro at 303-823-5774.

	,,,,,,,_,_,_,,,,,,_,
Inspection Date:	5-26-09
Landowner name:	Mark & Pamela Severance
Mailing address:	75 Spring Lane
City, State, Zip:	Boulder, CO BOBOZ
Site address:	- Game-
Phone number:	303-443-4076
Road access: (Direct	ions from main access road)
Lee Hill Dri	ve west from N. Broadway 4.5 miles to beer
trail Rd.	ve west from N. Broadway 4.5 miles to beer Left on Brook Rd. Left on Spring Lane
Docket number:	<u>5PR-09-0028</u> (SPR, SPRW, LU, Etc.)
Section:	03
Township:	IN
Range:	<u>_71W</u>
Legal Description:	
LOT 71	EGG NELY TRI & GE TRI OF LOT 72
BOULDE	2 HEIGHTS T
Elevation:	7,000 (feet)

	Lot size: <u>/.4</u> (Acres)	
	Driveway length:/37	_(Actual length in feet from road to home)
	Driveway trees removed: (few/many/	none)
E	isting Struckeres	
www.	House design: <u><i>DIMDR</i> DOX</u> (moderation any shaped with a number of alcoves complex designed and the statement of alcoves designed and	tely complex – any shape with a few alcoves or complex – gn)
En a	Home buffer material: <u>Viver gvavel</u> stone/crushed gravel/decorative stone)	_ (Material that is spread 5 ft. wide around the house -
4500/	Roof Design: <u>Simple Mable</u> (moderately	v complex/complex)
446	Roof material: <u>class A asphalt shing</u> is not permitted ion Boulder County))	Class A- Asphalt shingles/concrete tiles/metal (wood roof
	Soffit type and thickness: 3/8" Compart board	(3/4" Plywood or 3/8" hardboard/cement board)
	Siding material: <u><i>CAMPIT DOAWA</i></u> siding is not permitted on high hazard sites)	(Cement/hardboard/log/stucco/stonc/wood - wood
	Windows (#): (number of win	ndows in the structure)
	Window Size: <u>Small to large</u> (On average: sr	nall - <3x4', medium - 4x5', large <5x6')
	Window Frames: <u>A/MMMMM clad Withd</u> high hazard sites)	(Wood or aluminum clad wood/ vinyl is not permitted on
5	-Window Aspect: <u>Goutu</u>	(Dominant viewing direction)
	Window Construction: _ HOW - E	(Low E- Coating/Tempered glass/etc)
	Window Wells: / very 6hallow - 1000 that site below ground level, usually in a basement)	Fide (Number and location if present, these are windows
4	Sliding Glass Doors: 1000.00-	(Location and Number)
*	Door Material: <u>aluminum dad \$</u> insulated ste	(Wood/steel/fiberglass/composite)
1	Deck material: NEW: steel grate exist: Wood	(type of composite materials, wood is not permitted)
(.	Deck Description: New: open below with roof. underneath) exist: cloned (at grade) with roo	2
-	Deck support type: New: Steel	(Timber posts/logs/steel/concrete/decorative stone)
	exint: wood	2

2 003/005

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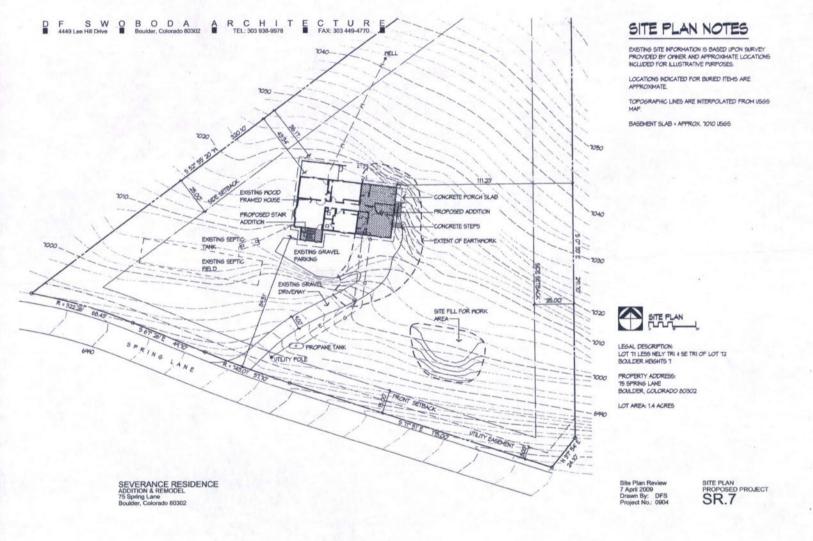
Deck buffer material: stone)	vivor gravol	(Crushed rock/gravel/decorative
Deck weed barrier;	polyester	(Fiberglass/polyester)
Number of Structures:	2 (All struct	nures to be present, including sheds, garages and out buildings)
Existing Structures:	house 2,671 of	(House/barn/garage/etc.)
New Structure:	addition of 1,4	(House/Barn/garage/new addition/etc)
Structure Square feet: the sq.ft that you sub	4,077 mitted for SPR, if it has	(Total sq.ft. of structure – this must be accurate and match changed, please specify)
Structure aspect:	4	(Dominant facing direction/view, N, S, E, W)
Utility Location: E, W/20ft, 30ft, 40ft, e	buried to take Bld to	6. (Pole/buried: Direction and distance from residence – N, S,
Detached Garage (if ap	oplicable): None	(Total square feet)
Out buildings:	100 of Aned	(Total square feet of any and all sheds, cabins, ect)
Leach field:	30' to 5W	(Direction and distance from residence – N, S, E, W/20ft,
Cistern size (if applical sq.ft – 2,400 gal., >2,40 Boulder County)	ble): <u>Lowywunity (1</u> 00 gal. to 3,599 - 3,600 g	(gallons - <2,000 sq.ft – 1,800 gal., >2,000 to 2,500 gal., and >3,600 full interior NFPA 13 D Sprinkler system per
Cistern Location: W/20ft, 30ft, 40ft, etc.	shladi B≱thRi(, s as))	(Direction and distance from residence – N, S, E,
Cistern Type:		(Domestic Cistern or Fire Cistern)
Making a donation to c	community cistern : <u>/</u> 8	<u>(Yes or No)</u>
Have you talked to the	local fire department :	6 (Yes or No)
		Ves or No) (If your house/addition is greater than 3,600 NFPA 13 D Sprinkler system per Boulder County)
Water supply:	well	(Well or main line)

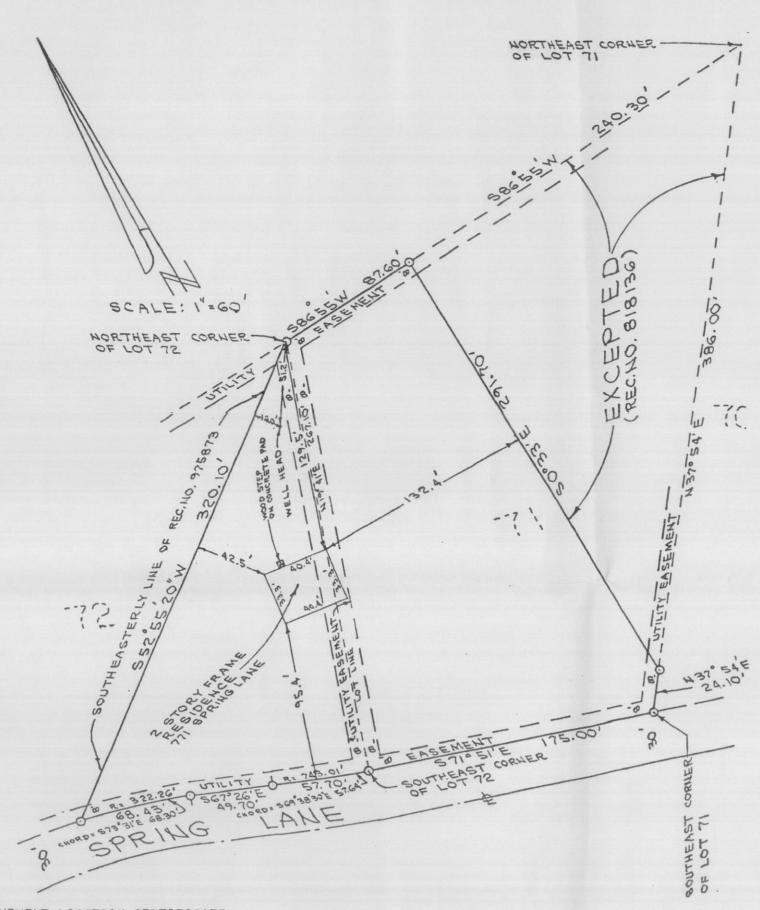
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Well (if applicable): 30ft, 40ft, etc)	80' to N.	(Direction and dista	ance from residence - N, S, E, W/20ft,
Propane or natural gas: _	100 gal. pro	DANE	
Propane Tank location:	76' to G.	(Direction and dista	ance from residence – N, S, E, W/20ft,
Slash disposal:	chipped	(Chipped/hauled/burned	l/lop-scatter)
Can you provide a map or leach field, well, cistern,		r the property : Yela	(e.g. location of propane, tank,
Comments:			

	This part will be filled	d out by the CSFS inspecting forester
with the references ()	1 April 10 14	Enderten verst ster anderstanden der der State
FPD:	BNFA	
Dominant fuel type: _		(Grass/forbs/shrubs/slash/etc)
Dominant overstory:_	Pondersra	Districtions cross close mean managements skools and a
Co-dominant overstor	y: Dang-Fir	
Fuel model type:		
Aspect:	South	(Direction of slope)
Slope: _	20-3070	(Percent)
Building site:	Midshipe	_ (Chimney/saddle/valley/ridge/mid-slope)
Site moisture:	Bry	- 1
Natural fire barrier: _	Spr. milan	o - 1, and the state of the second
Insect & Disease Diag	nosis: Nove	
Comments:		ik more (six and a michalizer) of
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IMPROVEMENT LOCATION CERTIFICATE

hereby certify that this improvement location certificate was prepared for 1st American Title Majestic Savings , the improvement location being based on previous property survey prepared by myself others, and that it is not to be relied upon for the establishment of fence building or other future improvement lines.

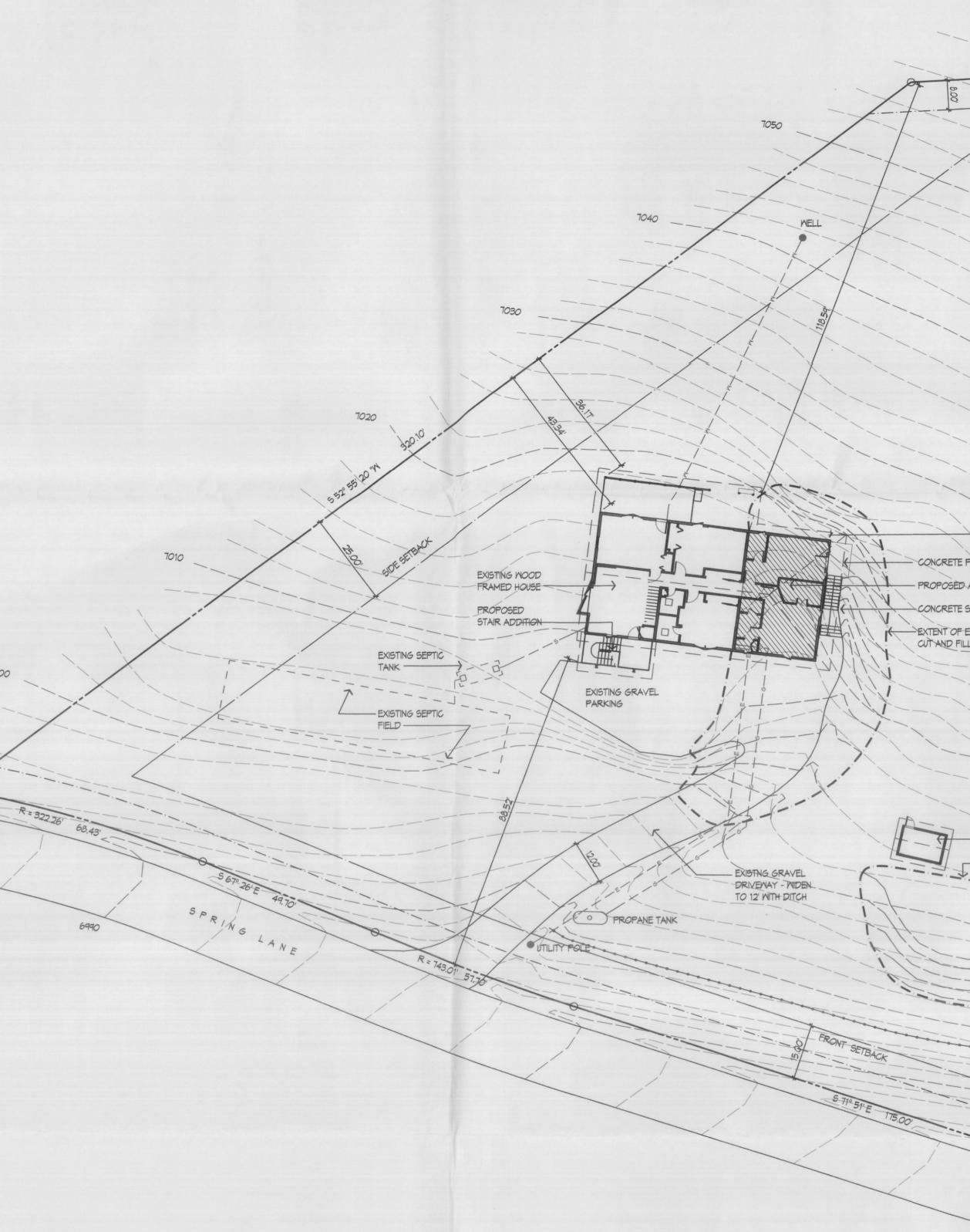
further certify that the improvements on the hereon described parcel on this date (JULY 3, 1979), except utility connections, are entirely within the boundaries of the parcel, except is shown, that there are no encroacnments upon the described premises by improvements on any idjoining premises, except as indicated, and that there is no sign of any easement crossing or burdening any part of said parcel, except as noted.

AY A. MELVIN Date July 9, 1979

EGAL DESCRIPTION: \S DESCRIBED ON SHEET 2 HEREOF.

MELVIN S	URVEYING
P. O. BOX 2112	# 37166-P
BOULDER, COLORADO	SHEETIOF2
444-3035 80306	F.A. 8019

7000

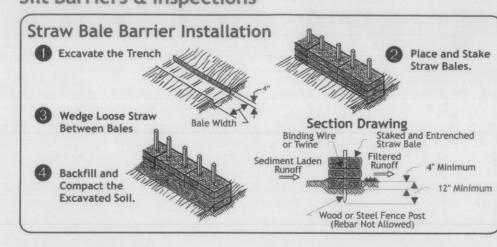


Silt Barriers

Silt barriers are a type of construction fence installed downhill of earthwork. They act as course filters, allowing the free-flow of water while trapping sediment and are utilized to minimize the siltation of nearby drainage ways, wetlands, waterways, and neighboring properties.

Installation

Below are installation diagrams of the two principal types of silt barriers: Straw bales and Silt fencing. Follow the steps illustrated in the diagrams for proper installation of the barrier. The barriers must be in place before commencement of any earthwork and remain until vegetation has established over the accumulated sediment. Diligent maintenance of the barrier until removal is needed for them to remain effective. **Silt Barriers & Inspections**



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SITE CLEARING NOTES

VERIFY WITH OWNER ALL LANDSCAPE ITEMS, TREES AND PLANTS TO BE REMOVED BEFORE PROCEEDING. COORDINATE TRANSPLANTING OF ANY ITEMS REQUESTED BY OWNER.

PROTECT TREES, LANDSCAPING, SITE IMPROVEMENTS, AND OTHER ITEMS NOT SCHEDULED FOR CLEARING, OR THAT MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.

STRIP TOPSOIL AND STOCKPILE AT DESIGNATED LOCATION ON-SITE.

ALL WILDFIRE MITIGATION WORK SHALL BE ACCORDING TO THE WILDFIRE MITIGATION PLAN APPROVED BY BOULDER COUNTY.

SITE PLAN NOTES

VERIFY LOCATIONS OF ALL EXISTING CONDITIONS BEFORE PROCEEDING.

EXISTING SITE INFORMATION IS BASED UPON SURVEY PROVIDED BY OWNER AND APPROXIMATE LOCATIONS INCLUDED FOR ILLUSTRATIVE PURPOSES.

LOCATIONS INDICATED FOR BURIED ITEMS ARE APPROXIMATE.

TOPOGRAPHIC LINES ARE INTERPOLATED FROM USGS MAP.

ANY STAKES LAID OUT BY OWNER OR ARCHITECT ARE FOR PRELIMINARY PLANNING ONLY AND ARE NOT FOR CONSTRUCTION.

GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SURVEYING AND VERIFICATION OF LOCATIONS OF LOT LINES, SETBACKS AND BURIED UTILITIES.

GENERAL CONTRACTOR SHALL LOCATE BUILDING CORNERS AND ELEVATION CONTROL POINTS.

BURIED CABLE LOCATION SERVICE: 1-800-922-1987 CALL TWO WORK DAYS IN ADVANCE BEFORE YOU DIG.

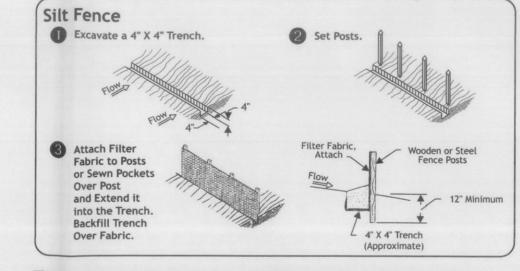
ALL REVEGETATION WORK SHALL BE ACCORDING TO THE REVEGETATION PLAN APPROVED BY BOULDER COUNTY.



LEGAL DESCRIPTION: LOT 71 LESS NELY TRI & SE TRI OF LOT 72 BOULDER HEIGHTS 7

PROPERTY ADDRESS: 75 SPRING LANE BOULDER, COLORADO 80302

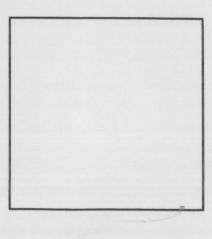
LOT AREA: 1.4 ACRES



Barriers must be in place before scheduling your first Building Inspection.
 Inspectors will not only verify that the barrier is installed properly, but will also verify that it covers the entire area needed.
 Remember, the barrier must be maintained and remain until vegetation has established. Delays to your project may occur if the County must cancel

 Remember, the barrier must be maintained and remain until vegetation has established. Delays to your project may occur if the County must cancel inspections or withhold Certificates of Occupancy due to insufficient maintenance or premature removal of the barrier.
 Excerpted from Boulder County Land Use Department publication

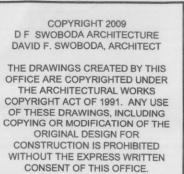
Form: P/14 • Rev. 08.15.07 • g:/handouts/planning/pdf/14_silt_barriers.pdf



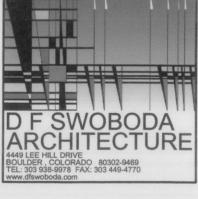
THESE ARE PRELIMINARY DRAWINGS SHOWING THE SCOPE AND GENERAL DESIGN INTENT OF THE PROPOSED BUILDING PROJECT AND ARE NOT TO BE USED FOR CONSTRUCTION. DETAILED CONTRACT DOCUMENTS MUST BE CREATED FOR THE PURPOSE OF BIDDING, PERMITTING AND CONSTRUCTING THE PROJECT.

PRELIMINARY DESIGN DRAWINGS NOT FOR

CONSTRUCTION









PROJECT NUMBER: 0904 PERMIT SITE PLAN REVEGETATION PLAN SHEET NUMBER: A2.1