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SUMMARY OF 1993-94 FLOOD PREVENTION
AND
RECOMMENDATIONS FOR 1994-95 RAINY SEASON
Altadena / Kinneloa Fires



USDA








Natural Resources Conservation Service / AmeriCorps



In Cooperation With Antelope Valley Resource Conservation District

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USDA Natural Resources Conservation Service / AmeriCorps

Lancaster Field Office (805) 945-2604

November 11, 1994

- ◆ Report put together by Phillip Sam & April Jurgen, NRCS / AmeriCorps.
- ◆ Summary information on 1993-94 flood prevention measures provided by David Lundin, NRCS.
- ◆ Field survey and recommendations on debris basins & structures done by Laura Lundin, NRCS, and Phillip Sam, AmeriCorps.
- ◆ Field survey and recommendations on Residents flood protection done by Phillip Sam & April Jurgen, AmeriCorps, and Laura Lundin, NRCS.
- ◆ Maps (11" x 17") provided by Steve Champeau, OES.
- ◆ Engineering Advice provided by LA County Department of Public Works.
- ◆ Mitigation information was based on records of SCS and OES.

SUMMARY OF 1993-94 FLOOD PREVENTION MEASURES

On October 27, 1993, the Kinneloa Fire began. Before it was over, 5,700 acres of urban-interface and wildland area had been blackened, and approximately 130 homes in the foothill areas of Altadena, Pasadena and Sierra Madre had been damaged or destroyed. With the denuded watersheds in the mountains, the threat of debris flow and flooding impacting the urbanized areas suddenly became apparent to all.

The USDA Soil Conservation Service (SCS) which is now called Natural Resources Conservation Service (NRCS), USDA Forest Service, Los Angeles County Fire Department, Los Angeles County Department of Public Works, and many others began to tackle the enormous task of protecting residences and people from the mud, debris, and water which would soon be flowing out of the mountains with the winter rains. With the cooperation of the Eaton Canyon Recovery Alliance (ECRA), Los Angeles County Fire Department, the Cities of Pasadena and Sierra Madre, and the community of Altadena, over 62,500 sandbags were installed, as well as the construction of new sediment and erosion control structures and the improvement of existing structures.

Luckily, the winter of 1993-94 did not produce a major storm event in the fire area. For the storms which did occur, the level of protection provided by the efforts of the community and the government agencies proved adequate for homes and residents from the mud, debris and water flowing from the mountain watersheds. Two people did lose their lives due to a debris flow in March of 1994 in a natural area upstream from flood control structures.

The rainy season of 1994-95 officially began on October 15. Although the hills are golden with dry grass, the hydrologic condition of the watersheds has not improved greatly, and the potential for increased runoff and major debris flows still exists. Most of the dry grass is from the mustard family which does not provide adequate soil

stabilization due to its non-fibrous root system. The mustard and other new vegetation has penetrated the hydrophobic layer of the soil, breaking up the crust. This allows for more penetration of the water during light rainfall. However, as the crust is now broken up, increased soil erosion may be experienced after surface saturation. Additionally, dry ravel in the channel bottoms is nearly equivalent to last fall's accumulation. The potential danger of debris and mud slides for this year is expected to be worst than last year.

The level of protection provided during 1993-94 was adequate for the small storms which were experienced. A major storm event and a potentially more severe debris flow may overwhelm residential flood prevention measures. To provide flood protection to the residents of the foothill areas from smaller storm event, damaged or removed sandbags should be repaired or replaced and sediment and debris control structures should be maintained.

At the request of the ECRA and the Governor's Office of Emergency Services (OES), the USDA NRCS / AmeriCorps at the Lancaster field office has completed an inventory of measures needed to bring the level of protection to residences and properties up to that which was provided for the winter of 1993-94. In order to achieve this level of protection for the 1994-95 rainy season, there must be a community and individual effort in putting out sandbags to protect lives and properties.

The following pages are recommendations for debris basins and structures maintenance and for residences flood protection measures. The maps and the inventory indicated on them are based the records of NRCS and OES and field visits by AmeriCorps and NRCS staff, and are as accurate as possible. The approximate location of sandbags and structures is shown on the maps. The map number indicated on each page refers to the map where the addresses or structures could be found.

Debris Basins & Structures Recommendations

DB = Debris Basin

MAP

RECOMMENDATION

- 1 **Fair Oaks DB** - A good deal of standing water and some vegetation exist in the bottom of this basin.
- 1 **Fern DB** - LA County Public Works is presently expanding this basin.
- 1 **West Ravine DB** - The dewatering tower is not standing at this time. There is standing water and vegetation in the bottom of the basin.
- 2 **Devonwood DB** - This basin has 3 feet out of 20 feet capacity presently full.
- 2 **Devonwood, horsetrail to the east** - 6" x 6" waterbars have been removed and should be replaced to prevent erosion and sediment deposits on the road and homes below. The sandbags edging the trail should be repaired.
- 2 **Las Flores DB** - There is some standing water in the basin.
- 2 **Pleasant Ridge East Trash Rack** - There is approximately 1 1/2 feet of debris standing behind the rack and about 1/2 foot of debris on the access road. The foundation for the rack has also been undercut about 1/2 foot. Clearing the debris around the trash rack is recommended.
- 2 **Pleasant Ridge West DB** - The basin is filled within 2" of the bottom rail of the trash rack. Cleaning out the basin is recommended.
- 3 **Rubio Debris Basin** - This basin looked fine.
- 3 **Gooseberry DB** - This basin has debris to within 1/2 foot of the bottom rail of the outlet structure. There is also vegetation in the bottom of the basin.
- 3 **Loma Alta, Zane Grey, Stonehill K-rails** - Looked fine.

Debris Basins & Structures Recommendations

MAP	RECOMMENDATION
5	Tanoble Rail & Timber - Looked fine.
5	Allen DB - Looked fine.
5	Glen Allen K-rails - Dry ravel has built up behind these K-rails. Cleaning out is recommended.
5	Skyview K-rails - Dry ravel has built up behind these K-rails. Cleaning out is recommended.
6	Allen DB - Looked fine.
8	Kinclair Pipe & Timber - The lower structure has one damaged timber; otherwise the structures looked O.K.
10	Kinneloa East DB - The debris in this basin is 1 1/2 feet deep out of 20 feet capacity.
10	Kinneloa Mesa Trash Rack - Looked fine.
10	Kinneloa West DB - Looked fine.
10	Kinneloa West Rail & Timber - This structure failed in last years storms, losing the main middle section. The structure that is left can not provide any storage capacity. The small grade control structure below the Rail & Timber is bowing downstream.
10	Wilcox Canyon Channel - Looked fine.
10	Pasadena Glen Debris Barriers - The barrier adjacent to the Winifred channel has a pole that has been bent. This structure can not be assembled until this pole has been replaced.
10	Pasadena Glen Trash Racks - Upper rack looked fine. The Lower rack is missing one I-beam "tooth"

Debris Basins & Structures Recommendations

MAP

RECOMMENDATION

- 11 **Pasadena Glen Debris Barriers** - The barrier adjacent to the Winifred channel has a pole that has been bent. This structure can not be assembled until this pole has been replaced.
- 11 **Pasadena Glen Trash Racks** - Upper rack looked fine. The Lower rack is missing one I-beam “tooth”.
- 11 **Sierra Madre Villa** - Vegetation is growing in the bottom of this basin, and there is some debris in the bottom of the basin.
- 11 **Ranch Top Rd DB** - This basin looked fine.
- 13 **Ranch Top Rd DB** - This basin looked fine.
- 13 **Ranch Top Inlet** - Looked fine.
- 13 **Carriage House DB** - The debris in this basin is 5 feet deep out of 15 feet capacity. Vegetation is also growing in the bottom of this channel.
- 13 **Sunny Side DB** - The debris in this basin is 3 1/2 feet deep out of 15 feet capacity. There is also a good deal of vegetation in the bottom of the basin.
- 13 **Bailey DB** - The debris in this basin is 3 feet deep out of 30 feet capacity; looked O.K.
- 15 **Bailey DB** - The debris in this basin is 3 feet deep out of 30 feet capacity; looked O.K.
- 15 **Floral DB** - Basin above looked fine; however, the culver at the bottom of the basin is plugged and cleaning out the culver is recommended. There are no K-rails or sandbags around the culver; installing K-rails and sandbags is recommended..
- 15 **Carter Debris Basin** - The debris in this basin is 6 feet deep out of 20 feet capacity. Cleaning out the basin is recommended.



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s = sandbags
s-nylon = nylon sandbags
kr = K-rails

pt = pipe and timber
pt-hvy = heavy pipe and timber
rg = rock gabion

E.A. = Engineering Advice
e = evacuation
w = wall

H = high priority
M = medium priority
L = low priority

MAP 1

Address	Eng. Advice		Type	Length	Height	Depth	Date	Description	Priority	94 -'95	Project
	Temp	Perm	Installed							Recomm	Done
3736 , 3744, 3758 Alzada Dr	s	w	s	176 ft	3 bags	2 bags	12/15/94		H	Replace	
3744 , 3758, 3772 Alzada Dr			s	200 ft	2 bags	2 bags	12/15/94		M	Replace	
3736 Alzada Drive	s	w	s	40 ft	2 bags	2 bags	12/15/94		H	Replace	
	s	w	s	20 ft	2 bags	2 bags	12/15/94		H	Replace	
3772 Alzada Drive			s	15 ft	2 bags	2 bags	12/15/94		M	Replace	
			s	25 ft	2 bags	2 bags	12/15/94		M	Replace	
3796 Alzada Drive	s, pt	w	s	23 ft	2 bags	2 bags	12/15/94		H	Replace	
3808 Alzada Drive	s		s	54 ft	2 bags	2 bags	12/15/94		M	Replace	
3828 Alzada Drive	s, pt		s	18 ft	3 bags	2 bags	12/15/94		H	Replace	
	s, pt		s	26 ft	4 bags	2 bags	12/15/94		H	Replace	
4005 Alzada Drive			s	150 ft	3 bags	1 bag	03/23/94		L	Replace	
4011 Alzada Drive	e, s, pt		s	50 ft	2 bags	1 bag	03/23/94		H	Replace	
3800B Canon Blvd			s	200 ft	4 bags	1 bag			H	Replace	
3608 Canon Blvd.	s		s-nylon	70 ft	4	1	03/11/94		H	repair	
3631 Canon Blvd.	s	w	s	30 ft	3 bags	1 bag	03/11/94		H	Replace	
3641 Canon Blvd.			s	70 ft	2 bags	1 bag	03/11/94		H	Replace	
3676 Canon Blvd.			s	90 ft	2 bags	1 bag	03/11/94		L	repair	
3518 Hollyslope Road	s	pt	s	300 ft	3 bags	2 bags			H	repair	
3552 Hollyslope Road		pt	pt	150 ft	3			Two 8' section board in wald way is out	H	repair	
3554 Hollyslope Road	s		s	150 ft	4 bags	2 bags			M	repair	
3560 Hollyslope Road	s		s	150 ft	3 bags	2 bags			L	Replace	
249 Jaxine Drive	s		s	25 ft	3 bags	2 bags	12/15/94		M	repair	
262 Jaxine Drive	s		s	75 ft	3 bags	3 bags	12/15/94		M	repair	
3611 Skylane Drive	pt	pt	s	12 ft	4 bags	1 bag	03/14/94		M	Replace	
	pt	pt	w	30 ft	4		03/14/94		H	repair	
3613 Skylane Drive	s, pt	pt	s	30 ft	4 bags	3 bags	03/14/94		H	repair	
318 Vinehill Drive	s	pt	s	50 ft	3 bags	2 bags	03/14/94		H	repair	
340 Vinehill Drive	s	pt	s	40 ft	4 bags	2 bags	03/14/94		H	Replace	
	s	pt	s	15 ft	4 bags	2 bags	03/14/94		H	repair	
	s	pt	s	25 ft	2 bags	1 bags	03/14/94		H	repair	
341 W. Loma Alta Drive	s		s	200 ft	1 bag	1 bag	03/25/94		L	Replace	



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MAP 1

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Date	Description	Priority	Recomm	Done
3749 Alzada Rd	s, pt				3 bags	1 bag					
3972 Alzada Rd	pt	pt			3 ft						
4009 Alzada Rd	e,s	w			3 bags	1 bag					
3560 Hollyslope Rd	s				3 bags	1 bag					
356 Vinehill	s				3 bags	1 bag					



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MAP 2

Address	Eng. Advice		Type	Length	Height	Depth	Date	Description	Priority	94-'95	Project
	Temp	Perm	Installed				Installed			Recomm	Done
475 Devonwood Drive	s	pt	s	50 ft	2 bags	1 bag	03/11/94	along horse path behind home	H	repair	
500 Devonwood Drive	s		s	80 ft	3 bags	1 bag	03/11/94		H	repair	
3339 Ellington Villa Drive	s		s	150 ft	3 bags	1 bag			L	Replace	
3379 Ellington Villa Drive	s, pt		s	50 ft	2 bags	1 bag			H	Replace	
3390 Ellington Villa Drive	s	pt	s	50 ft	2 bags	1 bag			H	Replace	
3400 Ellington Villa Drive	pt		pt	50 ft	3				H	Replace	
3435 Ellington Villa Drive	s	pt	s	50 ft	1 bag	1 bag			H	Replace	
506 E. Loma Alta Drive	s		s	75 ft	4 bags	1 bag	03/11/94		M	Replace	
524 E. Loma Alta Drive	s		s	110 ft	4 bags	1 bag	03/11/94		M	Replace	
	s		s	110 ft	2 bags	1 bag	03/11/94		M	Replace	
572 E. Loma Alta Drive	s		s	100 ft	4 bags	1 bag	03/11/94		L	Replace	
600 E. McWilton Place	s		s	50 ft	2 bags	1 bag	03/10/94		M	Replace	
3311 Lake Avenue	s		s	50 ft	2 bags	1 bag	03/10/94		L	repair	
3319 Lake Avenue	s		s	30 ft	1 bags	1 bag	03/10/94		L	repair	
3331 Lake Avenue	s		s	30 ft	2 bags	1 bag	03/10/94		L	repair	
3357 Lake Avenue	s		s	20 ft	5 bags	1 bag	03/10/94		L	repair	
3365 Lake Avenue	s		s	20 ft	5 bags	1 bag	03/10/94		L	repair	
3373 Lake Avenue	s		s	30 ft	3 bags	1 bag	03/10/94		L	repair	
3383 Lake Avenue	s	pt	s	110 ft	3 bags	1 bag	03/10/94		H	repair	
3649 Monterosa Road			s	30 ft	3 bags	1 bag	03/11/94		L	repair	
3652 Monterosa Road			s-nylon	40 ft	1 bags	1 bag	03/11/94	two 8' section of pt removed	L	repair	
3656 Monterosa Road	e, pt	pt	pt	30 ft	5		03/11/94		H	repair	
	e, pt	pt	s-nylon	10 ft	1 bags	1 bag	03/11/94		H	repair	
	e, pt	pt	s-nylon	20 ft	1 bags	1 bag	03/11/94		H	repair	
	e, pt	pt	pt	60 ft	5		03/11/94		H	repair	
	e, pt	pt	s	100 ft	2 bags	2 bags	03/11/94	along horse path above home	H	repair	
	e, pt	pt	pt	30 ft	5		03/11/94		H	repair	
3660 Monterosa Road	s		s	60 ft	3 bags	1 bag	03/11/94		M	Replace	
1296 Pleasantridge Drive			s	30 ft	12 bags	2 bags	03/10/94		M	Replace	
			s	75 ft	10 bags	2 bags	03/10/94		M	Replace	



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MAP 2

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
1310 Pleasantridge Drive	s		s	75 ft	5 bags	1 bags	03/10/94		M	Replace	
1324 Pleasantridge Drive	s		s	75 ft	3 bags	1 bags	03/10/94		M	Replace	
3445 Rubio Crest Drive			s	8 ft	3 bags	1 bags	03/10/94		L	Replace	
3470 Rubio Crest Drive			s	20 ft	5 bags	1 bags	03/10/94		L	Replace	
3515 Rubio Crest Drive			s	20 ft	2 bags	1 bags	03/10/94		L	Replace	
3521 Rubio Crest Drive			s	20 ft	2 bags	1 bags	03/10/94		L	Replace	
3531 Rubio Crest Drive			s	15 ft	5 bags	1 bags	03/10/94		L	Replace	
			s	12 ft	5 bags	1 bags	03/10/94		L	Replace	
1220 Rubio Vista Drive			s	30 ft	2 bags	1 bag	03/10/94		M	Replace	
1244 Rubio Vista Drive	s	pt	s	20 ft	6 bags	1 bag	03/10/94		H	Replace	
1262 Rubio Vista Drive	s, pt		s	6 ft	6 bags	1 bag	03/10/94		H	Replace	
1276 Rubio Vista Drive	s	pt	s	20 ft	4 bags	1 bag			H	Install	
1288 Rubio Vista Drive	s		s	20 ft	4 bags	1 bag			M	Install	
1304 Rubio Vista Drive	s		s	20 ft	4 bags	1 bag			M	Install	
1316 Rubio Vista Drive	s		s	20 ft	4 bags	1 bag			M	Install	
1330 Rubio Vista Drive			s	6 ft	3 bags	3 bags	03/10/94		H	Replace	
1342 Rubio Vista Drive	s		s	10 ft	5 bags	1 bags	03/10/94		H	Replace	
	s		pt	40 ft	3		03/10/94		H	Replace	
	s		s	20 ft	10 bags	2 bags	03/10/94		H	Replace	

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
491 Devonwood	s	w			3 bags	1 bag					
526 Devonwood	s				2 bags	1 bag					
3300 Lake Ave	s				2 bags	1 bag					
327 W. Loma Alta Dr	s				3 bags	1 bag					
341 W. Loma Alta Dr	s				3 bags	1 bag					
500 E. Loma Alta Dr	s				3 bags	1 bag					
540 E. Loma Alta Dr	s				2 bags	1 bag					



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MAP 2

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
556 E. Loma Alta Dr	s				3 bags	1 bag					
500 E. Loma Alta Dr	s, pt				3 bags	1 bag					
3603 Monterosa Dr	pt				2 ft						
3658 Monterosa Dr	s				2 bags	1 bag					
3660 Monterosa Dr	s				2 bags	1 bag					
600 E. Mc Wilton Pl	s				3 bags	1 bag					
1205 Pleasant Ridge Dr	e	pt			4 ft						
1221 Pleasant Ridge Dr	e	pt			4 ft						
1226 Pleasant Ridge Dr	e	pt			4 ft						
1324 Pleasant Ridge Dr	s				3 bags	1 bag					
3359 Rubio Canyon Rd	e										
3378 Rubio Crest Dr	s				2 bags	1 bag					



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MAP 3

Address	Eng. Advice		Type	Length	Height	Depth	Date	Description	Priority	94-'95	Project
	Temp	Perm	Installed				Installed			Recomm	Done
1353 E. Loma Alta Drive			s-nylon	20 ft	3 bags	1 bag	03/23/94		L	repair	
1415 E. Loma Alta Drive			s-nylon	20 ft	4 bags	1 bags	03/10/94			ok	
			s-nylon	25 ft	4 bags	1 bags	03/10/94			ok	
1450 E. Loma Alta Drive			kr	4 ft			03/10/94	across back alley from residence	M	repair	
			s	10 ft	2 bags	2 bags	03/10/94		M	repair	
1465 E. Loma Alta Drive			s	20 ft	1 bags	1 bags	03/10/94		L	Replace	
1475 E. Loma Alta Drive	s, pt		s	12 ft	3 bags	1 bag	03/10/94		H	Replace	
1560 E. Loma Alta Drive			s	20 ft	3 bags	1 bag	03/08/94		M	repair	
			s	20 ft	8 bags	8 bag	03/08/94		M	repair	
1574 E. Loma Alta Drive			s-nylon	20 ft	3 bags	1 bag	03/08/94		M	repair	
			s-nylon	125 ft	3 bags	1 bag	03/08/94		M	repair	
1696 E. Loma Alta Drive	s	pt	s	30 ft	3 bags	2 bags			H	repair	
1830 E. Loma Alta Drive	s	pt	s-nylon	40 ft	8 bags	2 bags	03/05/94		H	repair	
	s	pt	s-nylon	90 ft	4 bags	1 bag	03/05/94		H	repair	
	s	pt	s-nylon	25 ft	3 bags	1 bags	03/05/94		H	repair	
1835 E. Loma Alta Drive			kr	2 ft			03/05/94	blocking debris channel		ok	
			kr	16 ft			03/05/94	between Skyview & Glen Allen		ok	
1848 E. Loma Alta Drive	pt	pt	s	50 ft	1 bag	1 bag	03/05/94		H	repair	
	pt	pt	s	175 ft	3 bag	1 bag	03/05/94		H	repair	
1905 E. Loma Alta Drive			kr	14 ft			03/05/94	begin north of 1905 driveway			
1906 E. Loma Alta Drive			s	60 ft	1 bag	1 bag	03/05/94		H	repair	
1962 E. Loma Alta Drive	pt	pt	s-nylon	80 ft	5 bags	1 bag	03/05/94			ok	
1976 E. Loma Alta Drive	pt	pt	s	180 ft	4 bags	1 bag	03/05/94		H	repair	
2770 Porter Avenue			s-nylon	30 ft	4 bags	1 bag	03/08/94		L	repair	
2785 Porter Avenue			s-nylon	75 ft	2 bags	1 bag	03/08/94		L	Replace	
			s-nylon	12 ft	4 bags	1 bag	03/08/94		L	Replace	
2828 Stonehill Drive	s	pt	s	25 ft	5 bags	1 bag	03/10/94		H	Replace	
2840 Stonehill Drive	s	pt	s	35 ft	3 bags	1 bag	03/10/94		H	Replace	
2850 Stonehill Drive	s	pt	s	20 ft	5 bags	3 bag	03/10/94		H	Replace	
	s	pt	s	30 ft	2 bags	1 bag	03/10/94		H	Replace	



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MAP 3

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
2858 Stonehill Drive			s	40 ft	3 bags	1 bag	03/10/94		M	Replace	
2870 Stonehill Drive			s	50 ft	2 bags	1 bag	03/10/94		M	Replace	
2880 Stonehill Drive			s	40 ft	2 bags	1 bag	03/10/94		M	Replace	
2885 Stonehill Drive			s	40 ft	2 bags	1 bag	03/10/94		M	Replace	
2902 Stonehill Drive			s	30 ft	2 bags	1 bag	03/10/94		M	Replace	
2820 Stonehill Drive (across from)			s	20 ft	10 bags	1 bag	03/10/94		M	Replace	
2820 Stonehill Drive (across from)			kr	5 ft			03/10/94				
1314 Sunnypoaks Circle	s	pt	s	80 ft	4 bags	1 bag	03/10/94		H	repair	
0 Windfall Avenue (above)			s	75 ft	10 bags	4 bags				Replace	
			s	50 ft	2 bags	1 bag				Replace	
			rg	8 ft			12/15/93	above end of road, below Woodglen Lane		ok	
			rg	8 ft			12/15/93	above end of road, below Woodglen Lane		ok	
			rg	8 ft			12/15/93	above end of road, below Woodglen Lane		ok	
			rg	8 ft			12/15/93	above end of road, below Woodglen Lane		ok	
2855 Zane Grey Terrace			s	100 ft	2 bags	1 bag	03/10/94		L	Replace	
			s	100 ft	2 bags	1 bag	03/10/94		L	Replace	
0 Zane Grey Terrace & Loma Alta Drive			kr	6 ft			03/10/94			ok	
0 Zane Grey Terrace (above)			s	10 ft	2 bags	2 bags	12/15/93	beyond end of road	L	Replace	
			s	20 ft	2 bags	2 bags	12/15/93	beyond end of road	L	Replace	
			s	33 ft	2 bags	2 bags	12/15/93	beyond end of road	L	Replace	
			s	15 ft	2 bags	2 bags	12/15/93	beyond end of road	L	Replace	
			s	25 ft	2 bags	2 bags	12/15/93	beyond end of road	L	Replace	

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
1395 E. Loma Alta Dr	s				2 bags	1 bag					
1463 E. Loma Alta Dr	s				3 bags	1 bag					
1530 E. Loma Alta Dr	s, pt				3 bags	1 bag					



s = sandbags
s-nylon = nylon sandbags
kr = K-rails
pt = pipe and timber
pt-hvy = heavy pipe and timber
rg = rock gabion
E.A. = Engineering Advice
e = evacuation
w = wall
H = high priority
M = medium priority
L = low priority

MAP 3

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
1724 E. Loma Alta Dr	s	pt			3 bags	1 bag					
1933 E. Loma Alta Dr	s				3 bags	1 bag					
1962 E. Loma Alta Dr	pt	pt			3 ft						
3507 N. Marengo	pt	w			2 ft						
2941 Stonehill Dr	s				2 bags	1 bag					
2943 Stonehill Dr	s, pt				2 ft						
1302 Sunny Oaks	s, pt				2 ft						
1308 Sunny Oaks	pt	pt			3 ft						
2876 Windfall Ave		pt			3 ft						
2750 Winrock Ave	s, pt				3 bags	1 bag					
2780 Winrock Ave	s, pt				3 bags	1 bag					
2934 Zane Grey Terrace	s	pt			2 bags	1 bag					
3017 Zane Grey Terrace	s				2 bags	1 bag					



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e = evacuation
w = wall

H = high priority
M = medium priority
L = low priority

MAP 4

Address	Eng. Advice		Type				Date		94-'95	Project
	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recommend

NONE



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E.A. = Engineering Advice
e = evacuation
w = wall

H = high priority
M = medium priority
L = low priority

MAP 5

Address	Eng. Advice		Type	Length	Height	Depth	Date	Description	Priority	94 - '95	Project
	Temp	Perm	Installed				Installed			Recomm	Done
1886 Glen Allen Lane			s	100 ft	2 bags	1 bag	03/05/94		M	Replace	
1910 Glen Allen Lane			s-nylon	130 ft	2 bags	1 bag	03/05/94		M	Replace	
0 Glen Allen Lane (north side)			kr	40 ft			03/05/94	unstable slopes above			clean out
1781 Skyview Drive	pt		pt	100 ft	4			along flow channel behind house	H		repair
1940 Skyview Drive	s		s	12 ft	8 bags	2 bags	03/01/94	across driveway	L		Replace
0 Skyview Lane			kr	15 ft							Clena out
2855, 2859, 2869 Winterhaven			s		3 bags	2 bags			H		Replace
2855 N. Winterhaven Lane			s	12 ft	3 bags	1 bag			H		Replace
			w	15 ft	2			masonry wall	H		
2858 N. Winterhaven Lane			pt	15 ft	2				H		Replace
			s	15 ft	3 bags	1 bag			H		Replace
2869 N. Winterhaven Lane			s	40 ft	2 bags	1 bag			H		Replace
2874 N. Winterhaven Lane			s	20 ft	2 bags	1 bag			H		Replace
0 Woodglen Lane			s	20 ft	2 bags	1 bag	03/29/94				
			s	50 ft	1 bag	1 bag	03/29/94				
			s	50 ft	1 bag	1 bag	03/29/94				
0 Woodglen Lane			s	50 ft	1 bag	1 bag	03/29/94				
			s	50 ft	1 bag	1 bag	03/29/94				
			pt	18 ft	4		03/29/94				
			pt	18 ft	4		03/29/94				
			s	30 ft	3 bags	1 bag	03/29/94				
			s	30 ft	4 bags	2 bags	03/29/94				
1602.5 Woodglen Lane		pt	w	20 ft	2		03/10/94	masonry wall, directs flow to drain	M		repair
1603 Woodglen Lane	pt	w, pt	s	25 ft	6 bags	1 bag	03/10/94		H		Replace
	pt	w, pt	s	20 ft	3 bags	2 bags	03/10/94		H		Replace
	pt	w, pt	pt	12 ft	4		03/29/94		H		Replace
	pt	w, pt	pt	12 ft	4		03/29/94		H		Replace
	pt	w, pt	pt	12 ft	4		03/29/94		H		Replace
	pt	w, pt	pt	12 ft	4		03/29/94		H		Replace
1604 Woodglen Lane			s	20 ft	6 bags	1 bag	03/10/94		M		Replace



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rg = rock gabion
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e = evacuation
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M = medium priority
L = low priority

MAP 5

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
1605 Woodglen Lane			s	30 ft	3 bags	1 bags	03/10/94		M	Replace	
1608 Woodglen Lane			s	50 ft	2 bags	2 bags	12/15/93	north of road above residences	H	Replace	
			s	40 ft	3 bags	1 bag	03/10/94		H	Replace	
			s	15 ft	4 bags	1 bag	03/10/94		H	Replace	
			pt	8 ft	4		03/29/94		H	Replace	
			s	200 ft	2 bags	1 bag	03/29/94		H	Replace	
1612 Woodglen Lane		pt	s	75 ft	6 bags	2 bags	03/10/94	big bags	H	repair	
1624 Woodglen Lane	pt		s-nylon	50 ft	3 bags	1 bag			H	repair	
	pt		s	50 ft	4 bags	1 bag		large, potato sack sandbags	H	repair	
	pt		s	100 ft	4 bags	1 bag		big, potato sack sandbags	H	repair	
1739 Woodglen Lane	s		s	50 ft	2 bags	2 bags			M	Replace	
0 Woodglen Lane (along)			s	45 ft	2 bags	2 bags	12/15/93	north of road above residences	L	Replace	
			s	52 ft	2 bags	2 bags	12/15/93	north of road above residences	L	Replace	
			s	75 ft	2 bags	2 bags	12/15/93	north of road above residences	L	Replace	
			s	30 ft	3 bags	2 bags	12/15/93	north of road above residences	L	Replace	
			s	40 ft	2 bags	2 bags	12/15/93	north of road above residences	L	Replace	
0 Woodglen Lane (along)			s	25 ft	3 bags	2 bags	12/15/93	north of road above residences	L	Replace	

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
2061 Glen Springs	s, pt	pt			2 bags	1 bag					
2079 E. Skyview	e, s	w			4 bags	1 bag					
2091 Skyview	e										
1611 Woodglen Lane	pt	pt			3 ft						



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MAP 6

Address	Eng. Advice		Type	Length	Height	Depth	Date Installed	Description	Priority	94 -'95	Project
	Temp	Perm	Installed							Recomm	Done
1746 Alta Crest Drive		pt	s	60 ft	4 bags	1 bags			H	repair	
1730 Alta Wood Drive			s	170 ft	4 bags	2 bags			M	Replace	
1747 Alta Wood Drive	s	w	s	50 ft	2 bags	1 bags			H	Replace	
	s	w	s	30 ft	2 bags	1 bags			H	Replace	
1750 Alta Wood Drive	s	pt	s	200 ft	2 bags	1 bags			H	Replace	
	s	pt	s	30 ft	4 bags	1 bags			H	Replace	
1752 Altadena Drive		pt	s	30 ft	4 bags	1 bags	03/08/94		H	Replace	
		pt	s	30 ft	4 bags	2 bags	03/08/94		H	Replace	
		pt	s	30 ft	3 bags	1 bag	03/08/94		H	Replace	
1855 Altadena Drive	s	pt	s	20 ft	3 bags	1 bag	03/01/94	above storm drain	H	Replace	
	s	pt	s	15 ft	3 bags	1 bag	03/01/94		H	Replace	
2646 Bowring Drive	s		s	100 ft	3 bags	1 bag	03/01/94		L	repair	
1910 Brae Burn Road	s		s	40 ft	1 bags	2 bag	03/08/94		L	Replace	
2144 Crescent Drive			s	100 ft	2 bags	1 bag	03/01/94		L	repair	
2161 Crescent Drive			s	100 ft	3 bags	1 bag	03/01/94		L	repair	
2166 Crescent Drive			s	100 ft	2 bags	1 bag	03/01/94		L	repair	
1751 Homewood Drive			s	10 ft	2 bags	1 bags	03/08/94		M	Replace	
1890 Homewood Drive			s	60 ft	2 bags	1 bag	03/08/94		L	Replace	
???? Mendocino Street			s	50 ft	2 bags	1 bags	03/08/94		M	Replace	
			s	60 ft	4 bags	2 bags	03/08/94		M	Replace	
1722 Mendocino Street			s	20 ft	2 bags	2 bags	03/08/94		H	Replace	
1734 Mendocino Street	s		s	60 ft	6 bags	2 bags	03/08/94		H	repair	
1744 Mendocino Street			s	50 ft	4 bags	2 bags	03/08/94		H	Replace	
1774 Mendocino Street			s	40 ft	5 bags	1 bags	03/08/94		H	repair	
1796 Mendocino Street			s	40 ft	3 bags	1 bags	03/08/94		M	Replace	
1810 Mendocino Street			s	50 ft	3 bags	1 bags	03/08/94		M	Replace	
1818 Mendocino Street			s	60 ft	3 bags	1 bags	03/08/94		M	repair	
1930 Mendocino Street	s		s	200 ft	3 bags	1 bag	03/08/94		M	repair	
1860 Pinecrest Drive	s		s	60 ft	4 bags	1 bag	03/01/94		L	Replace	
	s		s	25 ft	5 bags	1 bag	03/01/94		L	Replace	



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MAP 6

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
1860 Pinecrest Drive	s		s	25 ft	4 bags	1 bag	03/01/94		L	Replace	
1884 Pinecrest Drive	s		s	30 ft	4 bags	1 bag	03/01/94		L	Replace	
1910 Pinecrest Drive	s		s	8 ft	3 bags	1 bag	03/01/94	deflecting flow from driveway	L	repair	
	s		w	25 ft	1		03/01/94	planks between permanent masonry columns	L		
1919 Pinecrest Drive			s	25 ft	2 bags	1 bag	03/05/94	northeast corner of Noyes School	L	repair	
			s-nylon	15 ft	3 bags	1 bag	03/05/94	Noyes School- Loma Alta Drive side	L	repair	
			s-nylon	10 ft	4 bags	1 bag	03/05/94	Noyes School- Loma Alta Drive side-northmost gate	L	repair	
			s-nylon	30 ft	4 bags	1 bag	03/05/94	Noyes School- southmost gate on Loma Alta Drive	L	repair	
1942 Pinecrest Drive	s	pt	s	100 ft	4 bags	1 bags	03/01/94		H	Replace	
1962 Pinecrest Drive	pt	pt	s	20 ft	3 bags	1 bags	03/01/94		H	repair	
	pt	pt	s	40 ft	3 bags	1 bags	03/01/94		H	repair	
1968 Pinecrest Drive	pt	pt	s	20 ft	6 bags	1 bags	03/01/94		H	repair	
	pt	pt	s	20 ft	4 bags	1 bags	03/01/94		H	repair	
2000 Pinecrest Drive	pt	pt	s	150 ft	4 bags	1 bags	03/01/94		H	repair	
2016 Pinecrest Drive	s, pt	w, pt	s	90 ft	4 bags	1 bag	03/01/94		H	repair	
2030 Pinecrest Drive	s	pt	s	100 ft	4 bags	1 bag	03/01/94		H	Replace	
2062 Pinecrest Drive	e, s	pt	s	50 ft	3 bags	1 bag	03/01/94		H	repair	
2080 Pinecrest Drive	e, s, pt	pt	s	100 ft	4 bags	1 bag	03/01/94	sandbags on top of low masonry wall	H		
2100 Pinecrest Drive	s		s	100 ft	4 bags	1 bag	03/01/94		M	Replace	
2107 Pinecrest Drive	s, pt		s	50 ft	2 bags	2 bags			H	Replace	
2120 Pinecrest Drive	s	pt	s	120 ft	4 bags	1 bag	03/01/94		H	repair	
2159 Pinecrest Drive	pt		s	40 ft	4 bags	1 bag			H	Replace	
2180 Pinecrest Drive	pt	pt	s	200 ft	6 bags	1 bag	03/01/94		H	Replace	
2480 Tanoble Drive	s		s	50 ft	4 bags	1 bag	03/10/94		M	repair	
	s		s	20 ft	10 bags	2 bag	03/10/94		M	repair	
2542 Tanoble Drive	s		s	60 ft	2 bags	1 bags	03/08/94		M	Replace	
2553 Tanoble Drive	s		s	15 ft	2 bags	1 bags	03/08/94		M	Replace	
2554 Tanoble Drive	s		s	15 ft	4 bags	5 bags	03/08/94		M	Replace	
2555 Tanoble Drive	s		s	60 ft	2 bags	1 bags	03/08/94		M	Replace	
2556 Tanoble Drive	s		s	20 ft	4 bags	1 bag	03/08/94		M	Replace	
	s		s	75 ft	5 bags	1 bag	03/08/94		M	Replace	



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MAP 6

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
2857 Tanoble Drive			s	60 ft	4 bags	1 bag	03/10/94		M	repair	
2883 Tanoble Drive			s	110 ft	4 bags	1 bag	03/10/94		M	Replace	

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
1747 E. Alta Crest Dr	s				2 bags	1 bag					
1720 E. Altadena Dr	s	pt			5 bags	1 bag					
1850 E. Altadena Dr	s				3 bags	1 bag					
1880 E. Altadena Dr	s				3 bags	1 bag					
1892 E. Altadena Dr	s				2 bags	1 bag					
1906 E. Altadena Dr	s				2 bags	1 bag					
1751 Homewood Dr	s				2 bags	1 bag					
1752 Homewood Dr	s				3 bags	1 bag					
1890 E. Homewood Dr	s				2 bags	1 bag					
1884 Pinecrest Dr	s				3 bags	1 bag					
1860 Pinecrest Dr	s				3 bags	1 bag					
1942 Pinecrest Dr	s	pt			5 ft						
1962 Pinecrest Dr	pt	pt			2 ft						
1968 Pinecrest Dr	pt	pt			5 ft						
2000 Pinecrest Dr	pt	pt			5 ft						
2016 Pinecrest Dr	s, pt	w, pt			2 ft						
2202 Pinecrest Dr	s				4 bags	1 bag					
2030 Pinecrest Dr	s	pt			4 bags	1 bag					
2052 Pinecrest Dr	s				3 bags	1 bag					
2061 Pinecrest Dr	s, pt				3 ft						
2062 Pinecrest Dr	e, s	pt			3 ft						
2080 Pinecrest Dr	e, s, pt	pt			3 ft						
2115 Pinecrest Dr	e	w									
2127 Pinecrest Dr	pt										
2140 E. Pinecrest Dr	s	pt			3 ft						
2870 Tanoble St	s				2 bags	1 bag					



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MAP 7

Address	Eng. Advice		Type	Length	Height	Depth	Installed	Description	Priority	94-'95	Project
	Temp	Perm	Installed							Recomm	Done
2046 N. Allen Avenue	s,pt	pt	s		3 bags	1 bag	03/08/94	Burbank School	H	Replace	
			w						Burbank School, plywood against low chainlink fen	H	Replace

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
2501 N. Allen Avenue	s				2bags	1bag					
2560 N. Allen Avenue	s				2bags	1 bag					
1910 E. Brae Burn Rd	s				2bags	1 bag					



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MAP 9

Address	Eng. Advice		Type	Length	Height	Depth	Date	Description	Priority	94-'95	Project
	Temp	Perm	Installed				Installed			Recommend	Done
1703 Outpost Lane	e, pt		s	12 ft	5 bags	1 bag	02/26/94		H	Replace	
	e, pt		s	40 ft	3 bags	1 bag	02/26/94		H	Replace	
	e, pt		s	10 ft	2 bags	1 bag	02/26/94		H	Replace	
1707 Outpost Lane	s		s	10 ft	6 bags	1 bag	02/26/94		H	Replace	
1711 Outpost Lane	e, pt	pt	s	12 ft	2 bags	1 bag	02/26/94		H	Replace	
	e, pt	pt	s	12 ft	2 bags	1 bag	02/26/94		H	Replace	
	e, pt	pt	s	12 ft	2 bags	1 bag	02/26/94		H	Replace	
	e, pt	pt	s	12 ft	2 bags	1 bag	02/26/94		H	Replace	
1717 Outpost Lane	e, pt	pt	pt	12 ft	3		02/26/94		H	Replace	
1719 Outpost Lane	e, pt		kr	4 ft			02/26/94		H	Replace	
	e, pt		s	75 ft	4 bags	2 bag	02/26/94		H	Replace	



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L = low priority

MAP 10

Address	Eng. Advice		Type	Length	Height	Depth	Date	Description	Priority	94 -'95	Project
	Temp	Perm	Installed				Installed			Recomm	Done
2256 Brambling Lane	pt		s	50 ft	1 bag	1 bag	02/28/94		H	Replace	
1720 Kinneloa Canyon Road	s		s	120 ft	4 bags	1 bag	02/26/94	High Point Academy	M	repair	
	s		s	30 ft	3 bags	1 bag	02/26/94	High Point Academy	M	repair	
	s		s	30 ft	3 bags	2 bag	02/26/94	High Point Academy	M	repair	
	s		s	100 ft	3 bags	1 bag	02/26/94	High Point Academy	M	repair	
1727 Kinneloa Canyon Road			s-nylon	40 ft	3 bags	1 bag	02/26/94	Church of Christ	L	repair	
1815 Kinneloa Canyon Road			s	16 ft	2 bags	1 bag	02/28/94		L	Replace	
			s	12 ft	2 bags	1 bag	02/28/94		L	Replace	
1875 Kinneloa Canyon Road	s		s	40 ft	1 bag	1 bag	02/28/94		M	Replace	
2064 Kinneloa Canyon Road	s		s-nylon	150 ft	1 bags	1 bag	02/28/94		M	Replace	
	s		s	30 ft	3 bags	1 bag	02/28/94		M	Replace	
2090 Kinneloa Canyon Road			s	40 ft	3 bags	1 bags	02/28/94		M	Replace	
			w	40 ft	3		02/28/94	12 inch planks	M	repair	
2110 Kinneloa Canyon Road	pt	w	s	25 ft	2 bags	1 bags	02/28/94		H	Replace	
2190 Kinneloa Canyon Road			w	25 ft	3 bags	1 bag	02/28/94		L	repair	
2240 Kinneloa Canyon Road			s	30 ft	3 bags	1 bag	02/28/94	2 ft brake wall	L	ok	
			s	60 ft	3 bags	1 bag	02/28/94	2 ft brake wall	L	ok	
2266 Kinneloa Canyon Road			s-nylon	100 ft	2 bags	1 bag	02/28/94		L	Replace	
2292 Kinneloa Canyon Road			s-nylon	50 ft	2 bags	1 bag	02/28/94		L	Replace	
2064 Kinneloa Canyon Road (near)			s-nylon	100 ft	1 bags	1 bag	02/28/94		L	Replace	
			s-nylon	125 ft	2 bags	2 bags	02/28/94		L	Replace	
2247 N. Kinneloa Ranch Road			s	10 ft	2 bags	1 bag	03/05/94		L	Replace	
2300 N. Kinneloa Ranch Road	s		s	50 ft	3 bags	1 bag	03/05/94		L	repair	
2340 N. Kinneloa Ranch Road			s-nylon	100 ft	2 bags	1 bag	03/05/94		L	Replace	
2020 N. Villa Heights Road			w	65 ft	4		03/05/94	plywood panels against chainlink fence	L	Replace	
2030 N. Villa Heights Road			s	75 ft	3 bags	1 bag	03/05/94		L	repair	
2070 N. Villa Heights Road			s	120 ft	2 bags	1 bag	03/05/94		L	Replace	
			s	20 ft	2 bags	2 bags	12/15/93		L	Replace	
			s	40 ft	3 bags	2 bags	12/15/93		L	Replace	
2090 N. Villa Heights Road			s	250 ft	2 bags	1 bag	03/05/94		L	Replace	



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MAP 10

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
2090 N. Villa Heights Road			s-nylon	25 ft	1 bags	1 bag	03/05/94		L	Replace	
2154 N. Villa Heights Road			s	150 ft	2 bags	1 bag	03/05/94		L	Replace	
			s	20 ft	4 bags	2 bags	12/15/93		L	Replace	
2224 N. Villa Heights Road			s	25 ft	2 bags	2 bags	12/15/93		L	Replace	
			s	25 ft	2 bags	2 bags	12/15/93		L	Replace	
			s	158 ft	2 bags	2 bags	12/15/93		L	Replace	
			s	85 ft	2 bags	2 bags	12/15/93		L	Replace	
			s	400 ft	2 bags	1 bag	03/05/94		L	Replace	
			s	50 ft	3 bags	2 bags	12/15/93		L	Replace	
			s	200 ft	2 bags	1 bag	03/05/94		L	Replace	
1848 Sierra Madre Villa Avenue			s-nylon	30 ft	2 bags	2 bags	03/05/94		M	Replace	
1960 Sierra Madre Villa Avenue	s, pt		s	250 ft	4 bags	2 bags	12/15/93		H	Replace	
	s, pt		s	150 ft	3 bags	2 bags	12/15/93		H	Replace	
	s, pt		s	200 ft	3 bags	2 bags	12/15/93		H	Replace	
	s, pt		s	10 ft	3 bags	2 bags	12/15/93		H	Replace	
1960 Sierra Madre Villa Avenue	s, pt		s	75 ft	2 bags	2 bags	12/15/93		H	Replace	
1979 Sierra Madre Villa Avenue			s	10 ft	3 bags	1 bags	03/05/94		M	repair	
			s	15 ft	3 bags	1 bags	03/05/94		M	repair	
1990 Sierra Madre Villa Avenue			s	60 ft	2 bags	2 bags	12/15/93		M	repair	
			s-nylon	12 ft	3 bags	1 bags	03/05/94		M	repair	
1991 Sierra Madre Villa Avenue			s-nylon	175 ft	3 bags	1 bags	03/05/94		M	repair	
2070 Sierra Madre Villa Avenue			s	20 ft	2 bags	2 bags	12/15/93		L	Replace	

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
2250 Brambling Lane	pt				3 ft						
1800 Kinneloa Canyon Rd	e	w									
1805 Kinneloa Canyon Rd	s				2 bags	1 bag					



s = sandbags
s-nylon = nylon sandbags
kr = K-rails
pt = pipe and timber
pt-hvy = heavy pipe and timber
rg = rock gabion
E.A. = Engineering Advice
e = evacuation
w = wall
H = high priority
M = medium priority
L = low priority

MAP 10

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
1840 Kinneloa Canyon Rd	s	w									
1860 Kinneloa Canyon Rd	s										
1885 Kinneloa Canyon Rd	s				2 bags	1 bag					
1915 Kinneloa Canyon Rd	e, s	w			4 bags	1 bag					
2020 Kinneloa Canyon Rd	s	pt			4 ft						
2064 Kinneloa Canyon Rd	pt										
2138 Kinneloa Canyon Rd	e, pt										
2300 Kinneloa Canyon Rd	s, pt				3 bags	1 bag					
1980 Picadilly	s				2 bags	1 bag					
1978 Sierra Madre Villa	s	w			2 bags	1 bag					
1980 Sierra Madre Villa	e, s				3 bags	1 bag					
2007 N. Villa Heights Rd	s				2 bags	1 bag					
2090 N. Villa Heights Rd	s				2 bags	1 bag					
2247 N. Villa Heights Rd	s				2 bags	1 bag					
2254 N. Villa Heights Rd	s										
2256 N. Villa Heights Rd	s, pt	pt			3 ft						



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e = evacuation
w = wall
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M = medium priority
L = low priority

MAP 11

Address	Eng. Advice		Type	Length	Height	Depth	Date	Description	Priority	94-'95 Project	
	Temp	Perm	Installed				Installed			Recom	Done
1623 Hastings Heights Lane			s	20 ft	4 bags	3 bags	02/23/94		L	Replace	
1633 Hastings Heights Lane			s	25 ft	3 bags	1 bag	02/23/94		L	Replace	
			s	40 ft	3 bags	1 bag	02/23/94		L	Replace	
1637 Hastings Heights Lane	s		s	25 ft	3 bags	1 bag	02/23/94	blocking storm drain	L	Replace	
	s		w	25 ft	0.5		02/23/94	blocking storm drain	L	Replace	
1651 Hastings Heights Lane	s		s	75 ft	2 bags	1 bags	02/23/94		L	Replace	
1653 Hastings Heights Lane			s	75 ft	2 bags	1 bags	02/23/94		L	Replace	
1655 Hastings Heights Road	s		s	300 ft	3 bags	2 bags	12/15/93	above road, stabilizing slopes	L	Replace	
1641-1647 Hastings Heights Road	s		s	10 ft	2 bags	1 bags	12/15/93		L	Replace	
	s		s	80 ft	2 bags	1 bags	12/15/93		L	Replace	
0 Hastings Heights Road (above)			s	200 ft	2 bags	2 bags	12/15/93	above or between roads stabilizing slopes	L	Replace	
			s	100 ft	2 bags	2 bags	12/15/93	above or between roads stabilizing slopes	L	Replace	
			s	200 ft	2 bags	2 bags	12/15/93	above or between roads stabilizing slopes	L	Replace	
1600 Hastings Heights Road (near)			s	25 ft	2 bags	1 bag	02/23/94	augmenting wooden planking across storm drain	L	Replace	
			s	25 ft	2 bags	1 bag	02/23/94	augmenting wooden planking across storm drain	L	Replace	
			w	25 ft	0.75		02/23/94	wooden planking across storm drain	L	Replace	
			w	25 ft	0.75		02/23/94	wooden planking across storm drain	L	Replace	
			w	25 ft	0.75		02/23/94	wooden planking across storm drain	L	Replace	
0 Kinneloa Mesa Road (along)			s	25 ft	2 bags	1 bag	02/23/94	augmenting wooden planking across storm drain	L	Replace	
			s-nylon	110 ft	2 bags	2 bags	02/26/94		M	repair	
			s-nylon	400 ft	2 bags	1 bag	02/26/94		M	repair	
3100 Mesaloe Lane			s	12 ft	1 bags	1 bags	03/02/94		M	Replace	
3120 Mesaloe Lane			s	40 ft	2 bags	1 bags	03/02/94		M	Replace	
3136 Mesaloe Lane			s	18 ft	4 bags	1 bags	03/02/94		M	repair	
			s	150 ft	3 bags	1 bags	03/02/94		M	repair	
			s	12 ft	2 bags	1 bags	03/02/94		M	repair	
3036 Meyerloa Lane			s	20 ft	2 bags	2 bags	03/02/94		L	Replace	
1667 Old Grove Road	e, pt	pt	pt	15 ft	2		02/25/94	across driveway	H		
	e, pt	pt	w	40 ft	2		02/25/94		H		
1689 Old Grove Road	e	pt	pt	30 ft	4		02/25/94		H		



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MAP 11

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recom	Done
1689 Old Grove Road	e	pt	pt	20 ft	3		02/25/94		H		
	e	pt	pt	15 ft	2		02/25/94		H		
1700 Old Grove Road	e	pt	s	12 ft	2	2	02/25/94		H		
1736 Old Grove Road	e		w	25 ft	3		02/25/94	doorway blocked with sandbags	H		
1762 Old Grove Road			s	20 ft	3 bags		02/25/94		H		
			pt	20 ft	1.5		02/25/94		H		
1766 Old Grove Road	e	pt	pt	25 ft	4		02/25/94		H		
1776 Old Grove Road			pt	35 ft	3		02/25/94		H		
1780 Old Grove Road	e		s	20 ft	8 bags		02/25/94	on top of low stone wall	H		
1585 Pasadena Glen Road	e, pt	pt	pt	15 ft	4		02/25/94		H		
	e, pt	pt	s	30 ft	12 bags	12 bags	02/25/94		H		
1600 Pasadena Glen Road	e	pt	w	25 ft	3		02/25/94		H		
	e	pt	w	20 ft	3		02/25/94		H		
	e	pt	pt	12 ft	1.5		02/25/94		H		
1601 Pasadena Glen Road	e, pt	pt	pt	20 ft	4		02/25/94		H		
	e, pt	pt	pt	20 ft	1.5		02/25/94		H		
1613 Pasadena Glen Road			pt	50 ft	1.5		02/25/94		H		
			pt	30 ft	3 bags	2	02/25/94		H		
1616 Pasadena Glen Road	e	pt	pt	20 ft	1.5		02/25/94		H		
	e	pt	w	20 ft	3		02/25/94		H		
	e	pt	w	20 ft	3		02/25/94		H		
1617 Pasadena Glen Road	e, pt	pt	pt	40 ft	1.5		02/25/94		H		
1635 Pasadena Glen Road	e, pt	pt	pt	20 ft	3		02/25/94		H		
	e, pt	pt	pt	25 ft	1.5		02/25/94		H		
1640 Pasadena Glen Road	e, pt	pt	pt	15 ft	3		02/25/94	across driveway	H		
	e, pt	pt	pt	20 ft	3		02/25/94	across car port	H		
	e, pt	pt	w	40 ft	2		02/25/94		H		
1653 Pasadena Glen Road	e, s, pt	pt	w	40 ft	2		02/25/94		H		
	e, s, pt	pt	pt	12 ft	1.5		02/25/94	across driveway	H		
1658 Pasadena Glen Road	e, pt	pt	pt	100 ft	3		02/25/94		H		
1661 Pasadena Glen Road	e, pt	pt	pt	50 ft	1.5		02/25/94	next to p/t is permanent stone wall	H		



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E.A. = Engineering Advice
e = evacuation
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M = medium priority
L = low priority

MAP 11

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recom	Done
1713 Pasadena Glen Road	e, s	pt	pt	20 ft	1.5		02/25/94	across driveway	H		
	e, s	pt	s	20 ft	1		02/25/94	augmenting wood & stone wall	H		
1716 Pasadena Glen Road	e, pt	pt	s	45 ft	6 bags	1 bag	02/25/94		H		
1716 Pasadena Glen Road	e, pt	pt	pt	20 ft	1		02/25/94		H		
1723 Pasadena Glen Road	e, pt	pt	s	30 ft	8 bags	4 bags	02/25/94		H		
	e, pt	pt	pt	20 ft	1.5		02/25/94		H		
	e, pt	pt	s	25 ft	3 bags	2 bags	02/25/94		H		
	e, pt	pt	pt	30 ft	1.5		02/25/94		H		
1734 Pasadena Glen Road	e, pt	pt	pt	25 ft	1.5		02/25/94		H		
	e, pt	pt	s	25 ft	3 bags	1 bag	02/25/94		H		
1746 Pasadena Glen Road			pt	40 ft	1.5		02/25/94		H		
1746 Pasadena Glen Road (near)			pt-hvy	35 ft	4		02/25/94		H		
			s	20 ft	6 bags	3 bags	02/25/94		H		
			s	20 ft	6 bags	3 bags	02/25/94		H		
			pt	50 ft	4		02/25/94		H		
1794 Pasadena Glen Road	e, s	pt	pt-hvy	30 ft	4		02/25/94		H		
	e, s	pt	w	25 ft	5		02/25/94		H		
	e, s	pt	s	30 ft	10 bags		02/25/94		H		
1802 Pasadena Glen Road	s		pt-hvy	150 ft	4		02/25/94		H		
	s		s	150 ft	10 bags	3 bags	02/25/94		H		
1830 Pasadena Glen Road	e, s	pt	w	20 ft	3		02/25/94	vertically & horizontally oriented 10' diameter timbe	H		
1928 Pasadena Glen Road			w	40 ft	3		02/25/94		H		
			s	40 ft	2 bags	1 bag	02/25/94	atop masonry wall	H		
2076 Pasadena Glen Road	e, s		s	50 ft	2 bags	1 bag	02/25/94		H		
2100 Pasadena Glen Road	e	w	s	30 ft	3 bags	1 bag	02/25/94		H		
	e	w	pt	30 ft	1		02/25/94	in conjunction with sandbags	H		
1881 Pasadena Glen Road (near)			pt-hvy	12 ft	4		02/25/94	across road, removeable	H		
			pt-hvy	20 ft	4		02/25/94		H		
2036 Pasadena Glen Road (near)	e, s	pt	pt-hvy	20 ft	4		02/25/94		H		



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MAP 12

Address	Eng. Advice		Type				Date		Description	Priority	94-'95 Recomm	Project Done
	Temp	Perm	Installed	Length	Height	Depth	Installed					
0 New York Drive near Bradley			kr	6 ft			03/02/94	500' west of Bradley Street, center island	H			
3100 New York Drive (near)			kr	200 ft	1-6 bags	1 bag	03/02/94	tapers up to height of 6 bags in the middle, center island	H			



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kr = K-rails	rg = rock gabion	w = wall	L = low priority

M&P 14

Address	Eng. Advice		Type				Date		Description	Priority	94-'95 Recommend	Project Done
	Temp	Perm	Installed	Length	Height	Depth	Installed					

NONE



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e = evacuation
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L = low priority

MAP 15

Address	Eng. Advice		Type			Date		Description	Priority	94-'95	Project
	Temp	Perm	Installed	Length	Height	Depth	Installed			Recomm	Done
520 Sierra Meadow Drive	s		s	75 ft	3 bags	1 bag			H	Install	
540 Sierra Meadow Drive	s	pt	s	45 ft	3 bags	1 bag			H	Install	
	s	pt	s	15 ft	3 bags	1 bag			H	Install	
574 Sierra Meadow Drive	s		s	60 ft	2 bags	1 bag			H	Install	
	s		s	8 ft	3 bags	4 bag			H	Install	
580 Sierra Meadow Drive	s		s	15 ft	3 bags	2 bags			H	Install	
	s		s	120 ft	4 bags	1 bag			H	Install	
581 Sierra Meadow Drive	s		s	60 ft	2 bags	1 bag	03/05/94		H	Replace	
	s		s	40 ft	2 bags	1 bag	03/05/94		H	Replace	
600 Sierra Meadow Drive	s	pt	s	30 ft	3 bags	1 bags			H	Install	
650 Sierra Meadow Drive	s		s	30 ft	2 bags	1 bags			H	Install	
	s		s	40 ft	2 bags	1 bags			H	Install	
655 Sierra Meadow Drive	s		s	50 ft	1 bags	1 bags			H	Install	
	s		s	15 ft	1 bags	1 bags			H	Install	
665 Sierra Meadow Drive	s		s	30 ft	2 bags	1 bags			H	Install	
	s		s	40 ft	2 bags	1 bags			H	Install	
670 Sierra Meadow Drive			s	35 ft	4 bags	1 bags			H	Install	
			s	15 ft	3 bags	1 bags			H	Install	
680 Sierra Meadow Drive (near)			kr	5 ft				8' k-rails	H	Replace	
			kr	5 ft				8' k-rails	H	Replace	
			s	5 ft	6 bags	6 bags			H	Replace	
			s	5 ft	6 bags	6 bags			H	Replace	
300 Wistaria Way	s		s	40 ft	3 bags	1 bags			H	Replace	

Residences With Engineering Advice Not On Mitigation List

Address	Temp	Perm	Installed	Length	Height	Depth	Installed	Description	Priority	Recomm	Done
625 Sierra Meadows	s				2 bags	1 bag					
660 Sierra Meadows	s				3 bags	1 bag					
675 Sierra Meadows	s, pt				3 ft						



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M&P 16

Address	Eng. Advice		Type			Date		Description	Priority	94-'95 Recommend	Project Done
	Temp	Perm	Installed	Length	Height	Depth	Installed				

NONE

STREET INDEX

STREET	MAP	STREET	MAP	STREET	MAP	STREET	MAP	STREET	MAP	STREET	MAP		
A													
2501 N. Allen Ave	7	500 Devonwood Dr	2	1720 Kinneloa Canyon Rd	10	1696 E. Loma Alta Dr	3	P				2115 Pinecrest Dr	6
2560 N. Allen Ave	7	526 Devonwood Dr	2	1800 Kinneloa Canyon Rd	10	1724 E. Loma Alta Dr	3	4077 Park Vista Dr	13	2120 Pinecrest Dr	6		
1746 Alta Crest Dr	6	E		1805 Kinneloa Canyon Rd	10	1830 E. Loma Alta Dr	3	4101 Park Vista Dr	13	2127 Pinecrest Dr	6		
1747 Alta Crest Dr	6	3339 Ellington Villa Dr	2	1815 Kinneloa Canyon Rd	10	1835 E. Loma Alta Dr	3	4104 Park Vista Dr	13	2140 Pinecrest Dr	6		
1720 E. Altadena Dr	6	3379 Ellington Villa Dr	2	1840 Kinneloa Canyon Rd	10	1848 E. Loma Alta Dr	3	4113 Park Vista Dr	13	2159 Pinecrest Dr	6		
1752 E. Altadena Dr	6	3390 Ellington Villa Dr	2	1860 Kinneloa Canyon Rd	10	1905 E. Loma Alta Dr	3	1617 Pasadena Glen Rd	11	2180 Pinecrest Dr	6		
1850 E. Altadena Dr	6	3400 Ellington Villa Dr	2	1875 Kinneloa Canyon Rd	10	1906 E. Loma Alta Dr	3	1630 Pasadena Glen Rd	11	2202 Pinecrest Dr	6		
1855 E. Altadena Dr	6	3435 Ellington Villa Dr	2	1885 Kinneloa Canyon Rd	10	1933 E. Loma Alta Dr	3	1635 Pasadena Glen Rd	11	1205 Pleasant Ridge Dr	2		
1880 E. Altadena Dr	6	F		1915 Kinneloa Canyon Rd	10	1962 E. Loma Alta Dr	3	1640 Pasadena Glen Rd	11	1221 Pleasant Ridge Dr	2		
1892 E. Altadena Dr	6	G		2020 Kinneloa Canyon Rd	10	1976 E. Loma Alta Dr	3	1653 Pasadena Glen Rd	11	1226 Pleasant Ridge Dr	2		
1906 E. Altadena Dr	6	0 Glen Allen Ln	5	2064 Kinneloa Canyon Rd	10	327 W. Loma Alta Dr	2	1658 Pasadena Glen Rd	11	1296 Pleasant Ridge Dr	2		
1747 Alta Wood Dr	6	1886 Glen Allen Ln	5	2090 Kinneloa Canyon Rd	10	341 W. Loma Alta Dr	1	1661 Pasadena Glen Rd	11	1310 Pleasant Ridge Dr	2		
1750 Alta Wood Dr	6	1910 Glen Allen Ln	5	2110 Kinneloa Canyon Rd	10	M		1713 Pasadena Glen Rd	11	1324 Pleasant Ridge Dr	2		
3736 Alzada Dr	1	2061 Glen Springs	5	2138 Kinneloa Canyon Rd	10	3507 N. Marengo	3	1716 Pasadena Glen Rd	11	2770 Porter Ave	3		
3744 Alzada Dr	1	H		2190 Kinneloa Canyon Rd	10	600 E. McWilton Place	2	1723 Pasadena Glen Rd	11	2785 Porter Ave	3		
3749 Alzada Dr	1	0 Hastings Hts. Rd	11	2240 Kinneloa Canyon Rd	10	???? Mendocino St	6	1734 Pasadena Glen Rd	11	Q			
3758 Alzada Dr	1	1600 Hastings Hts. Rd	11	2266 Kinneloa Canyon Rd	10	1722 Mendocino St	6	1746 Pasadena Glen Rd	11	R			
3772 Alzada Dr	1	1623 Hastings Hts. Ln	11	2292 Kinneloa Canyon Rd	10	1734 Mendocino St	6	1794 Pasadena Glen Rd	11	3500 Ranch Top Rd	13		
3796 Alzada Dr	1	1624 Hastings Hts. Ln	11	2300 Kinneloa Canyon Rd	10	1744 Mendocino St	6	1802 Pasadena Glen Rd	11	3503 Ranch Top Rd	13		
3808 Alzada Dr	1	1633 Hastings Hts. Ln	11	0 Kinneloa Mesa Rd	11	1774 Mendocino St	6	1804 Pasadena Glen Rd	11	3526 Ranch Top Rd	13		
3828 Alzada Dr	1	1637 Hastings Hts. Ln	11	2300 N. Kinneloa Ranch R	10	1796 Mendocino St	6	1818 Pasadena Glen Rd	11	3535 Ranch Top Rd	13		
3972 Alzada Dr	1	1651 Hastings Hts. Ln	11	2340 N. Kinneloa Ranch R	10	1810 Mendocino St	6	1820 Pasadena Glen Rd	11	3650 Ranch Top Rd	13		
4005 Alzada Dr	1	1653 Hastings Hts. Ln	11	L		1818 Mendocino St	6	1830 Pasadena Glen Rd	11	3660 Ranch Top Rd	13		
4009 Alzada Dr	1	1655 Hastings Hts. Ln	11	3300 Lake Ave	2	1930 Mendocino St	6	1834 Pasadena Glen Rd	11	1244 Rubio Vista Dr	2		
4011 Alzada Dr	1	1660 Hastings Hts. Ln	11	3311 Lake Ave	2	3036 Meyerloa Ln	11	1881 Pasadena Glen Rd	11	1262 Rubio Vista Dr	2		
B													
2646 Bowring Dr	6	1641-7 Hastings Hts. Ln	11	3319 Lake Ave	2	3100 Mesaloe Ln	11	1928 Pasadena Glen Rd	11	1276 Rubio Vista Dr	2		
1910 Brae Burn Rd	6	3518 Hollyslope Rd	1	3331 Lake Ave	2	3120 Mesaloe Ln	11	1966 Pasadena Glen Rd	11	1288 Rubio Vista Dr	2		
2250 Brambling Ln	10	3552 Hollyslope Rd	1	3357 Lake Ave	2	3136 Mesaloe Ln	11	1976 Pasadena Glen Rd	11	1304 Rubio Vista Dr	2		
2256 Brambling Ln	10	3554 Hollyslope Rd	1	3365 Lake Ave	2	3658 Monterosa Dr	2	2036 Pasadena Glen Rd	11	1316 Rubio Vista Dr	2		
C													
3608 Canon Blvd.	1	1751 Homewood Dr	6	3373 Lake Ave	2	3660 Monterosa Dr	2	2076 Pasadena Glen Rd	11	1330 Rubio Vista Dr	2		
3631 Canon Blvd.	1	1752 Homewood Dr	6	3383 Lake Ave	2	N		2100 Pasadena Glen Rd	11	1342 Rubio Vista Dr	2		
3641 Canon Blvd.	1	1890 Homewood Dr	6	500 E. Loma Alta Dr	2	0 New York Dr near Bradle	12	1980 Picadilly	10	S			
3676 Canon Blvd.	1	I		506 E. Loma Alta Dr	2	3100 New York Dr	12	1860 Pinecrest Dr	6	0 Shaw Ranch Rd	13		
3800B Canon Blvd	1	J		524 E. Loma Alta Dr	2	O		1884 Pinecrest Dr	6	1960 Sierra Madre Villa	10		
1645 Carriage House Rd	13	249 Jaxine Dr	1	540 E. Loma Alta Dr	2	1689 Old Grove Rd	11	1910 Pinecrest Dr	6	1978 Sierra Madre Villa	10		
1655 Carriage House Rd	13	262 Jaxine Dr	1	556 E. Loma Alta Dr	2	1700 Old Grove Rd	11	1919 Pinecrest Dr	6	1979 Sierra Madre Villa	10		
1660 Carriage House Rd	13	K		572 E. Loma Alta Dr	2	1736 Old Grove Rd	11	1942 Pinecrest Dr	6	1980 Sierra Madre Villa	10		
1665 Carriage House Rd	13	1955 Kinclair Dr	8	1353 E. Loma Alta Dr	3	1746 Old Grove Rd	11	1962 Pinecrest Dr	6	1990 Sierra Madre Villa	10		
1680 Carriage House Rd	13	1963 Kinclair Dr	8	1395 E. Loma Alta Dr	3	1762 Old Grove Rd	11	1968 Pinecrest Dr	6	1991 Sierra Madre Villa	10		
2024 Cricklewood Path	8	1985 Kinclair Dr	8	1415 E. Loma Alta Dr	3	1766 Old Grove Rd	11	2000 Pinecrest Dr	6	2070 Sierra Madre Villa	10		
2044 Cricklewood Path	8	1998 Kinclair Dr	8	1450 E. Loma Alta Dr	3	1776 Old Grove Rd	11	2016 Pinecrest Dr	6	520 Sierra Meadow Dr	15		
2064 Cricklewood Path	8	2020 Kinclair Dr	8	1463 E. Loma Alta Dr	3	1780 Old Grove Rd	11	2030 Pinecrest Dr	6	540 Sierra Meadow Dr	15		
D													
475 Devonwood Dr	2	2031 Kinclair Dr	8	1465 E. Loma Alta Dr	3	1786 Old Grove Rd	11	2052 Pinecrest Dr	6	574 Sierra Meadow Dr	15		
491 Devonwood Dr	2	2150 Kinclair Dr	8	1475 E. Loma Alta Dr	3	1703 Outpost Ln	9	2061 Pinecrest Dr	6	580 Sierra Meadow Dr	15		
		2200 Kinclair Dr	8	1530 E. Loma Alta Dr	3	1707 Outpost Ln	9	2062 Pinecrest Dr	6	581 Sierra Meadow Dr	15		
		2211 Kinclair Dr	8	1560 E. Loma Alta Dr	3	1711 Outpost Ln	9	2080 Pinecrest Dr	6	600 Sierra Meadow Dr	15		
		2266 Kinclair Dr	8	1574 E. Loma Alta Dr	3	1717 Outpost Ln	9	2100 Pinecrest Dr	6	625 Sierra Meadows	15		
						1719 Outpost Ln	9	2107 Pinecrest Dr	6	650 Sierra Meadow Dr	15		

STREET INDEX

STREET	MAP	STREET	MAP
655 Sierra Meadow Dr	15	2874 N. Winterhaven Ln	5
660 Sierra Meadows	15	300 Wistaria Way	15
665 Sierra Meadow Dr	15	0 Woodglen Ln	5
670 Sierra Meadow Dr	15	1602.5 Woodglen Ln	5
675 Sierra Meadows	15	1603 Woodglen Ln	5
680 Sierra Meadow Dr	15	1604 Woodglen Ln	5
3880 Startouch Dr	13	1605 Woodglen Ln	5
2820 Stonehill Dr	3	1608 Woodglen Ln	5
2902 Stonehill Dr	3	1611 Woodglen Ln	5
2941 Stonehill Dr	3	1612 Woodglen Ln	3
2943 Stonehill Dr	3	1624 Woodglen Ln	3
1302 Sunny Oaks	3	X	
1308 Sunny Oaks	3	Y	
1314 Sunny Oaks	3	Z	
T		2855 Zane Grey Terrace	3
2480 Tanoble Dr	6	2934 Zane Grey Terrace	3
2542 Tanoble Dr	6	3017 Zane Grey Terrace	3
2553 Tanoble Dr	6		
2554 Tanoble Dr	6		
2555 Tanoble Dr	6		
2556 Tanoble Dr	6		
2857 Tanoble Dr	6		
2870 Tanoble St	6		
2883 Tanoble Dr	6		
U			
V			
2007 N. Villa Hts. Rd	10		
2020 N. Villa Hts. Rd	10		
2030 N. Villa Hts. Rd	10		
2070 N. Villa Hts. Rd	10		
2090 N. Villa Hts. Rd	10		
2154 N. Villa Hts. Rd	10		
2224 N. Villa Hts. Rd	10		
2247 N. Villa Hts. Rd	10		
2254 N. Villa Hts. Rd	10		
2256 N. Villa Hts. Rd	10		
318 Vinehill Dr	1		
340 Vinehill Dr	1		
356 Vinehill	1		
W			
0 Windfall Ave	3		
2750 Winrock Ave	3		
2876 Windfall Ave	3		
2780 Winrock Ave	3		
2855 N. Winterhaven Ln	5		
2858 N. Winterhaven Ln	5		
2859 N. Winterhaven	5		
2869 N. Winterhaven Ln	5		