

# Community Funding Request Application

## Organization Information

Name: Coloma Lotus Fire Hydrant Initiative (sponsor – South Fork Arts and Recreation – 501(c)3 non-profit)

Address of Organization: South Fork Arts and Recreation, P.O. Box 157, Coloma, CA 95613

Type:  Non-profit       Public       Community Organization (informal Nonprofit)

Event/Project for which funds are requested: Coloma Lotus Fire Hydrant Initiative project development

Event/Project Location: Coloma / Lotus Valley

Event Date/Project timeline: January 2021 through July 2021

Website: n/a

Name of Contact Person: Bob Hansen – CLFHI Lead

Telephone Number: 530 521-8061

E-mail address: bob.hansen@yahoo.com

Total Amount Requested (Limit: \$5,000): \$5000

## Event/Project Description

1. Describe the purpose of the event/project/organization for which funds are being requested.

Funds will be applied to costs of developing supporting documentation for grant applications, including:

- Acquiring and recording easements required for the installation and maintenance of tank/hydrant sites.
  - Acquisition, surveying, easement documentation, county recording costs
- Engineering services required to complete the tank/hydrant design for EDC Fire Station #74 and Clark Mountain Rd. sites (2 highest priority installations)
  - Soil analysis, hydraulic engineering, mechanical design review

2. How will the event/project support or produce a public benefit to El Dorado County?

This initiative will provide enhanced fire suppression capability for the Coloma / Lotus valley. This area includes >1200 residents and currently has no fire hydrants. This initiative has the support of EDC Fire, Cal Fire, EDC Fire Safe Council and the Coloma Lotus Advisory Council.

# Coloma/Lotus Fire Hydrant Initiative

Rev 2 - Feb 11, 2021

## The Problem

The Lotus valley is a rural residential area of grassland and oak trees spanning about 40 sq. miles in the foothills of El Dorado County. This area is home to more than 500 households with property improvements worth <\$200M. Most neighborhoods are accessed through a single, two lane road. There are no fire hydrants inside this area, including the local Fire Station (EDC Fire #74).

## The Solution

Install a system of hydrants (wet standpipes) at strategic locations in the valley.

- Hydrants will be used to re-fill Fire engines and water tankers.
- 6 key locations have been identified and prioritized.
  - Sites chosen based on population, traffic access pattern and distance from available hydrants.
- The Lotus Fire Station is the first priority and will serve as a prototype for subsequent hydrant installations.

## Design

Eldorado Irrigation District water is available for only one of the proposed hydrant sites. An agricultural irrigation ditch will be used as the water source for all other hydrants. At each hydrant installation:

- The irrigation ditch will supply a 10,000 gal. water tank located next to and below the ditch.
- Water from the tank will be piped to the hydrant located below the tank.
- The location of each hydrant will allow a fire engine or tanker to be refilled without disrupting traffic flow.
- Design details for each site will be reviewed and approved by EDC Fire.

## Cost

Note: this project is scalable – each hydrant installation is a separate project.

- Fixed costs for each site include the water storage tank and the hydrant pipe and valve.
- Site specific costs include site prep, length of pipe, cost of easement, road improvements.
- Ditch reliability and efficiency improvements are included as part of each project.

A first draft cost estimate has been completed (Feb 2021). The hydrant installation at Fire Station #74 is estimated to cost approx. \$60K while the entire project of 6 hydrants will cost approx. \$230K. A final cost estimate will be completed after a funding agency is identified and construction standards are finalized.

## Status

- The Eldorado Fire Safe Council is sponsoring this initiative in partnership with the CL Ditch Users Association
- All local stake holders support this Initiative.
  - EDC Fire, Cal Fire, Fire Safe Council, Coloma Lotus Advisory Committee, District 4 County Supervisor, CLDUA, land owners for 4 sites (others haven't been contacted at this time).
- Grant proposal is under development.

For more information please contact:

Bob Hansen – Coloma Lotus Fire Hydrant Initiative lead  
530 521-8061  
Bob.hansen@yahoo.com

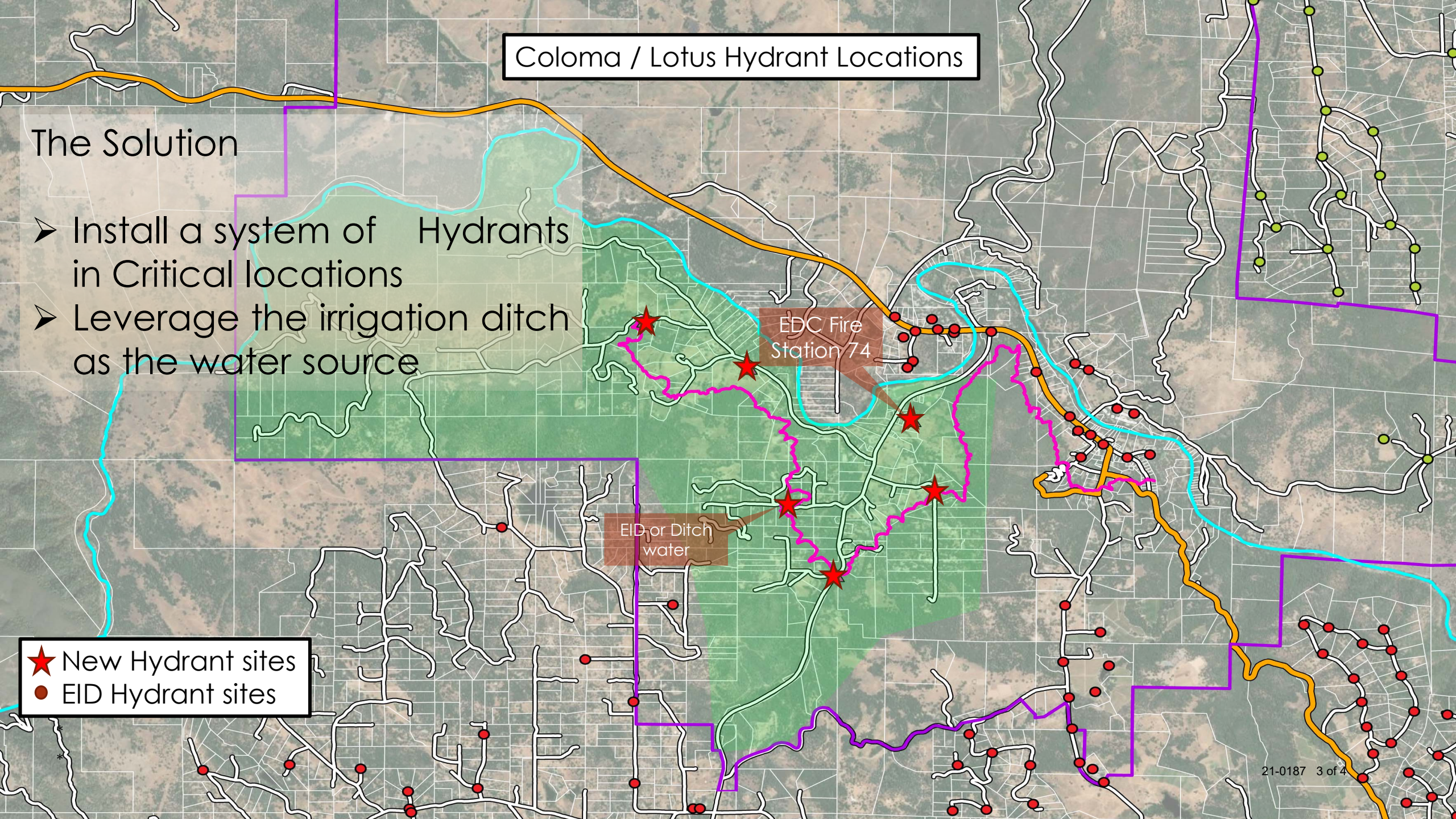


# Coloma / Lotus Hydrant Locations

## The Solution

- Install a system of Hydrants in Critical locations
- Leverage the irrigation ditch as the water source

★ New Hydrant sites  
● EID Hydrant sites





# Hydrant Initiative Cost estimate

Bob Hansen, 4 Feb 2021

## Cost Summary

Priority >>		1	2	3	4	5	6
		EDC Fire House #74	Clark Mountain Rd.	Mountain View Rd.	Granite Creek Rd.	Bassi Rd	* Heavens Gate Rd (EID)
<b>Pre-Install</b>							
	Survey/easement	800	800	800	800	800	
	Easement cost	0	0	0	0	0	
	Engineering/drafting	2000	500	500	500	500	
	Permit	200	200	200	200	200	
	<b>Ditch Reliability</b>	3000	3000	3000	3000	3000	
<b>Hydrant system install</b>							
	Construction	41878	26518	26518	26518	30478	
	Inspection fees	1200	800	800	800	800	
	legal fees	600	400	400	400	400	
	Acceptance test	250	250	250	250	250	
	Operations	2150	2150	2150	2150	2150	
				0	0	0	
	<b>Subtotal</b>	49928	32468	32468	32468	36428	
	<b>Contingency</b>	10%	4993	3247	3247	3643	
				0	0	0	
	<b>Installation cost</b>	54921	35715	35715	35715	40071	15000
	<b>Management</b>	6%	3295	2143	2143	2404	900
	<b>Grant Proposal Ask</b>	<b>\$58,216</b>	\$37,858	\$37,858	\$37,858	\$42,475	* \$15,900
	1 site total	\$58,216					
	2 site total		\$96,074				
	3 site total			\$133,931			
	4 site total				\$171,789		
	5 site total					\$214,264	
	6 site total						<b>\$230,164</b>

\* Note: Heaven's Gate installation supplied by EID pipeline