



## STAFF REPORT

### TOWN COUNCIL MEETING OF FEBRUARY 14, 2017

To: Town Council  
From: Public Works Director  
Subject: Drainage in Loomis  
Date: February 14, 2017

#### **RECOMMENDATION**

Hear staff presentation

#### **DISCUSSION:**

The Public Works Department is currently reacting to several drainage issues within the Town. The town has several drainage responsibilities. The Public Works Department feels that it may be time to create a specific line item in the Town's Budget to budget for the specific costs associated with drainage in the Town of Loomis.

#### **CEQA**

There are no CEQA requirements for this report. Proper studies and clearances will be provided when individual projects are pursued.

#### **FINANCIAL IMPLICATIONS**

The Public Works Department will provide a line item in the next proposed budget to fund Drainage infrastructure projects.

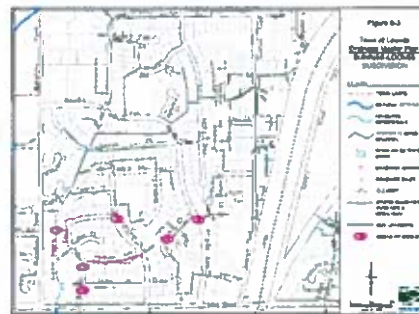


# DRAINAGE IN LOOMIS

## DRAINAGE INFRASTRUCTURE

### Storm Drain System

- Road Side Ditches
- Culverts and Road Crossings
- 340 Inlets
- 56,000 Linear Feet of Stormdrain collection lines (under 26 inches)
- 170 Manholes
- 5,000 Linear Feet of Stormdrain Mains(over 36 inches)
- Several basins and underground storage facilities
- Creeks with Several Bridges



## DRAINAGE INFRASTRUCTURE



### Creeks

- **Antelope Creek**
  - 3 miles in Loomis
  - Crossings at King Rd, Saunders Ave, Sierra College Blvd, Bankhead Rd
- **Sucker Ravine**
  - 3 miles in Loomis
  - Crossings at King Rd, Saunders Ave, Sierra College Blvd, Bankhead Rd
- **Secret Ravine**
  - 2.7 miles in Loomis
  - Crossings at Horseshoe Bar Rd, Brace Rd, and Gade Lane

## RESPONSIBILITIES

- Routine Maintenance of the existing infrastructure
- Lifecycle Replacement
- Current Deficiencies
- Storm response, potholes, sinkholes, flooding, car accidents, fallen trees, etc.
- New Development
- Permit Requirements



## ROUTINE MAINTENANCE OF THE DRAINAGE SYSTEM

Yearly cost to maintain existing infrastructure

Town Crews

Creeks and Channels	\$18,000
Roadside Ditches	\$16,000
Inlets and Pipes	\$18,000
Basins/Underground	\$4,000
Bridges and Culverts	\$3,000
Storm Response	\$16,000
<b>Total</b>	<b>\$75,000</b>



## DRAINAGE INFRASTRUCTURE

Life Cycle Replacement

Yearly Cost

Assuming a 30 year Lifecycle

Stormdrain and Structures	\$318,723
Main line replacement	\$ 32,589
Culverts	\$46,788
Basins/Underground	\$35,000
Bridges	\$100,000
<b>Total</b>	<b>\$533,100</b>



## CURRENT DEFICIENCIES

- Undersized Facilities
- Outdated Inefficient Facilities
- Disconnected Facilities
- Easements and Defined Responsibilities

Swetzer Industrial Park	\$49,400
Sunrise Loomis Subdivision	\$148,200
Taylor Road / Fruitshed Area	\$5,781,700
Magnolia/South Holly	\$185,000
No Name Lane	\$100,000
Racheal Lane	\$980,000



## PERMITS

- State Water Control Board requirements NPDES
  - Development
  - Maintenance
  - Inspections
  - Future Requirements ie the Trash Amendment.
- Fish and Wild Life Permit
  - Routine Maintenance Agreement
  - New Development
- Army Corp Engineers
- FEMA
  - Mapping



## DRAINAGE IN LOOMIS

- Routine Maintenance
- Storm response
- Lifecycle Replacement
- Current Deficiencies
- Development
- Permit Requirements



## PICTURES



Drainage Projects		
Project Name		Cost
<b>Area Of Concern 2009 Drainage Master Plan Update</b>		
Swetzer Industrial Park		\$ 49,400
Sunrise Loomis Subdivision		\$ 148,200
Taylor Road / Fruit Shed Area		\$ 5,781,700
Magnolia / South Holly Area drain		\$ 185,000
No Name Lane		\$ 100,000
PCWA Raw Water Ditches and Canals		
<b>Bridges and Culverts</b>		
Secret Ravine at Brace Road		\$ 252,700
Antelope reek at King Road		\$ 148,200
Secret Ravine at Brace Road		\$ 148,200
Sucker Ravine at Glade Lane		\$ 123,500
<b>Concerns that have been identified since 2009</b>		
Barton Ranch Drainage Improvements		\$ 35,000
Taylor Road Drainage Crossing south of Del Oro HS		\$ 65,000
Lorkinos sinkhole		\$ 120,800
Marta Lane sinkhole		\$ 32,000
Rachel Lane to King Road		\$ 980,000
<b>Additional Areas of concern ( not estimated yet)</b>		
Marta Lane - undersized stormdrain		
Tudor Way		
South Walnut Street		
Hunters Drive		
St Francis Circle		
Silver Ranch Avenue		
<b>Total Capitol Improvement Program</b>		<b>\$ 8,432,500</b>

Life Cycle Replacement Program			
	Linear Feet (LF)	Cost per LF	Total
<b>Stormdrain</b>			
12"	22495	\$ 140	\$ 3,149,300
15"	5820	\$ 153	\$ 887,550
18"	11775	\$ 165	\$ 1,942,875
24"	10030	\$ 178	\$ 1,780,325
30"	5475	\$ 190	\$ 1,040,250
36"	1675	\$ 203	\$ 339,188
48"	610	\$ 215	\$ 131,150
60"	2230	\$ 228	\$ 507,325
Drop Inlets	340	\$ 950	\$ 323,000
Stormdrain Manholes	170	\$ 1,225	\$ 208,250
Inlet/Outfall Structures	263	\$ 875	\$ 230,125
<b>Culverts</b>			
12"	3300	\$ 145	\$ 478,500
18"	3050	\$ 158	\$ 480,375
24"	950	\$ 170	\$ 161,500
36"	300	\$ 183	\$ 54,750
48"	1000	\$ 205	\$ 205,000
60"	100	\$ 235	\$ 23,500
			<b>Total \$ 11,942,963</b>
			<b>Replacement over 30 years \$ 398,099</b>