

**Project:** Summerhill Avenue at South El Monte Ave  
**Project Identifier:** AD\_PA\_1000

**Issue:** Southeast corner of intersection floods during rain, also rocks, debris and other obstructions affect general drainage

**Priority:** Moderate

**Cost:** \$200,000 and \$550 annually

*Plan View*



**Master Plan Improvements:**

1. CCTV to investigate line between CB H2C-216 and H2D-217
2. Construct 2 additional CB inlets at the southeast corner of the intersection on both Summerhill Avenue and South El Monte Avenue. Improvements to consist of ~200 LF of 18" RCP and 2 CB connections



**Project Summary:**

The intersection of El Monte Road and Summerhill Ave has experienced drainage problems during past storms. There is a significant amount of debris and sediment along the roadway and in the drainage system from nearby hills and development.

Additional inlets on the SE corner of the intersection, where the debris is greatest, will improve roadway conditions.

Regular cleaning and maintenance of the system should also be performed to assure the system functions optimally during storm events.



**Project:** Catalina Court  
**Project Identifier:** AD\_PA\_1001

**Issue:** Continually Blocked CB

**Priority:** Low

**Cost:** \$740,000

*Plan View*



**Master Plan Improvements:**

1. Reshape catch basins on Catalina Ct
2. Install a new CB (if needed)
3. Upsize pipe on Catalina Ct to 18-inch RCP
4. Replace bubble system with 18-inch underground system on Catalina



**Project Summary:**

Catalina Court has poor drainage with ponding in front of 110 Catalina Court during rain events. The City has removed debris, including balls, on numerous occasions. Manhole C2D-314 has a 12 inch inlet from the south towards 110 Catalina that appears to be abandoned and no longer in use.

Catch basin C2C-315 was observed to have some debris buildup in the sump of the basin due to a protruding outlet pipe. The outlet pipe causes debris to collect and impedes flow thru the outlet.

Installing a catch basin on the south side of the street will eliminate ponding in front of 110 Catalina and the neighboring homes. Catch basin C2C-315 should also have the outlet pipe re-formed to make a smoother transition from basin to outlet pipe

Pipe improvement costs make up \$710,000 of the total cost, with the remaining \$30,000 for installation of new CB.

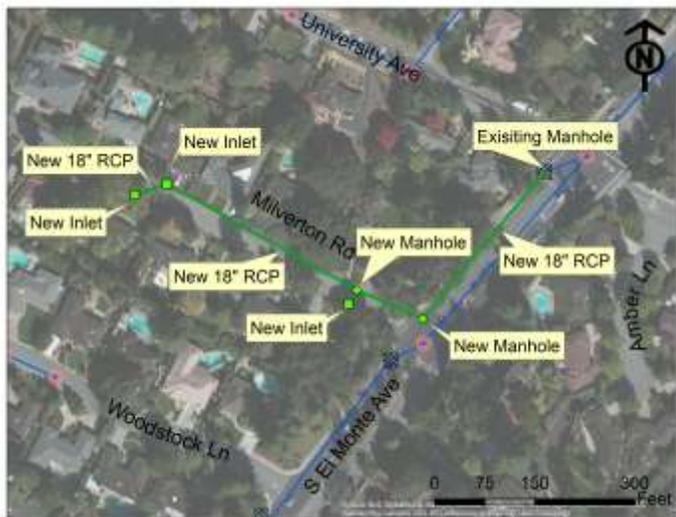


**Project:** Milverton Road  
**Project Identifier:** AD\_PA\_1002  
**Issue:** Poorly functioning drywells cause flooding

**Priority:** Moderate

**Cost:** \$410,000

*Plan View*



**Project Summary:**

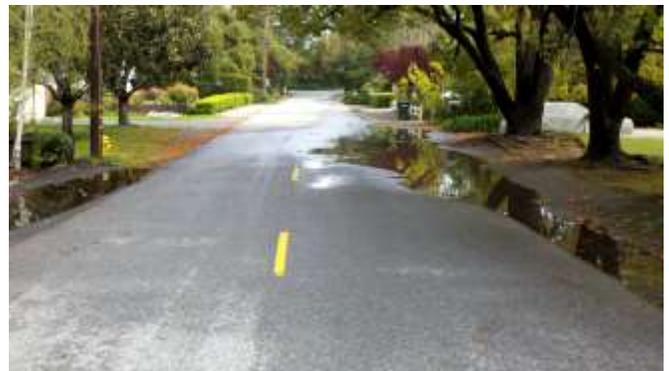
Milverton Rd, approximately 515 feet NW of S El Monte Rd, has experienced drainage problems. Drywells exist, but function poorly.

New inlets at the low point in Milverton Rd will improve roadway conditions by draining the street and carrying the runoff to the existing city SD system.

The proposed improvements were added to the city's SD model to determine impacts. It appears the El Monte system has capacity for the proposed improvements. The peak flow in the most downstream pipe in the El Monte system increases from 3.9 cfs to 7.1 cfs, however, the system has capacity for this addition flow.

**Master Plan Improvements:**

1. Add new 18" RCP line along Milverton Rd. Top of system is approximately half way between S El Monte Ave and the bend in Milverton Rd. Tie into existing system at MH G2D-608 (S El Monte Ave at University Ave).
2. Construct 3 new inlets on Milverton Rd at the low point where flooding occurs. Drywells should be removed. Improvements consist of 772 LF of 18" RCP, 2 new MH connections, and 1 MH connection to an existing line.



**Project:** S. Springer Rd near Rosita Ave

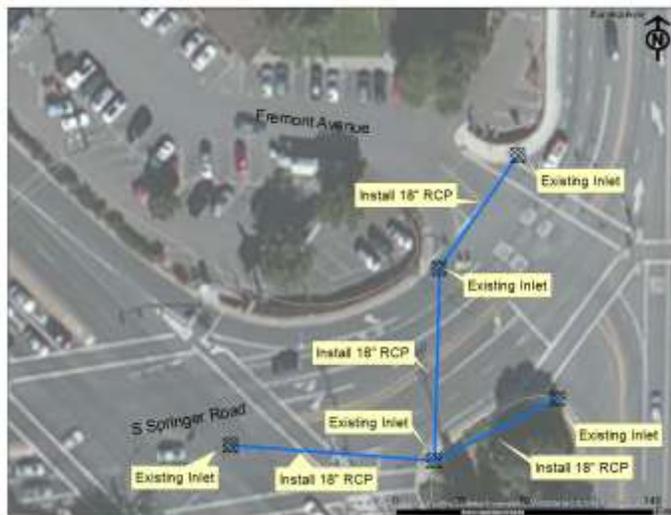
**Project Identifier:** HA\_PA\_1000

**Issue:** Water pooling

**Priority:** Moderate

**Cost:** \$230,000

*Plan View*



**Master Plan Improvements:**

1. Replace 370 ft. 18” RCP line along Marilyn Drive and tie into existing system
2. Replace 5 MH along S Springer Rd. This includes MH I4F-118, I4F-401, I4F-402, I4F-403, and I4F-404.

**Project Summary:**

Springer Rd is connected to Fremont Avenue. Not much information is known about this problem area, but it was brought to attention by the City of Los Altos and O&M staff for pooling of water.

The proposed improvements were analyzed with the City’s hydraulic model to determine impacts. This project is determined as a moderate priority due to ponding between 6” and 12” from a 10 year storm.



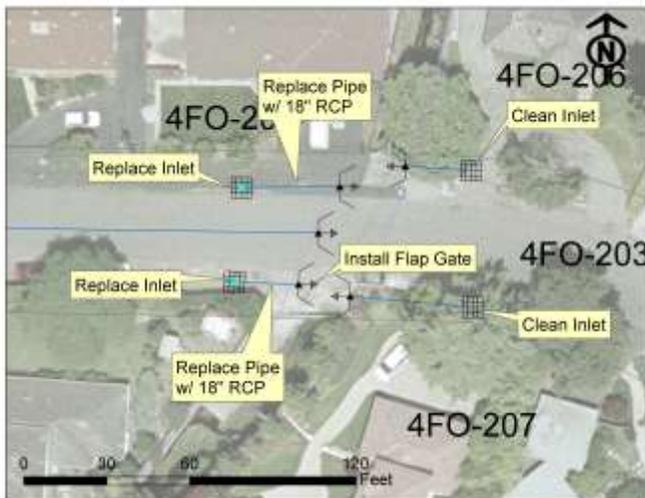
**Project:** Sunshine Drive  
**Project Identifier:** HA\_PA\_1001

**Issue:** CBs plug during rainy season, CBs full of sediment, CBF4F-204 discharges in upstream direction of Hale Creek. CMP protruding into basins

**Priority:** Moderate

**Cost:** \$150,000 + \$550 annually

*Plan View*



**Master Plan Improvements:**

1. Reconstruct CBs F4F-21- and F4F-201 by removing corrugated metal pipe section protruding into basin.
2. Replace CMP pipes as needed.
3. Hydro jet pipes
4. Install flap gate on CB F4F-204
5. Routine maintenance during rainy season

**Project Summary:**

Sunshine Drive has experienced drainage problems during past storm events. CB and outlet pipes have limited conveyance due to debris and pipes in poor condition. There also appears to be a backwater issue from the Hale Creek.

CMP sections in poor condition should be replaced with RCP. Flap gates should be installed to prevent backflows. The system should be cleaned and maintained on a regular basis.



**Project:** Oakwood Ct  
**Project Identifier:** HA\_PA\_1002

**Issue:** Water pooling

**Priority:** Moderate

**Cost:** \$490,000

*Plan View*



**Master Plan Improvements:**

1. Add 50 ft. of new 18” RCP line along Oakwood Ct. Add 433 ft. of new 18” RCP line along Riverside Drive. Add 450 ft. of new 18” RCP line along Covington Road and tie into existing system at inlet H40-221 (Covington Road between Parma Ave and Riverside Dr).
2. Construct 1 new inlet on Oakwood Ct. Improvements consist of 933 LF of 18” RCP, 4 new CB connections, 4 new MH connections, and 1 MH connection to an existing line.

**Project Summary:**

Oakwood Ct is connected to Riverside Drive and Covington Rd. Not much information is known about this problem area, but it was brought to attention by the City of Los Altos and O&M staff for pooling of water.

The proposed improvements were analyzed with the City’s hydraulic model to determine impacts. This project is determined as a moderate priority due to ponding between 6” and 12” from a 10 year storm.



**Project:** Payne Drive  
**Project Identifier:** PM\_PA\_1000  
**Issue:** Low spots without a storm drain system  
**Priority:** High  
**Cost:** \$1,100,000

**Project Summary:**  
 Payne Drive, approximately 270 feet E of Oakhurst Ave, has experienced drainage problems. There is a low spot in the street without a formal drainage system. The corner of McKenzie and Oakhurst is also a low spot that experiences drainage problems.

*Plan View*



New inlets at the low point on Payne Dr and at McKenzie and Oakhurst will improve drainage conditions by conveying runoff to the existing city SD system on Portland Ave.

The proposed improvements were analyzed with the City’s hydraulic model to determine impacts. The drainage area to the Portland system would not be increased; however, the proposed improvements would increase the timing of runoff to the pipe network. The 10-year ponding water level at MH I5D-502 (Portland Ave at Oakhurst Ave) would increase roughly 3 inches from the proposed improvements.

**Master Plan Improvements:**

1. Add new 18” RCP line along Payne Dr and Oakhurst Ave. Upstream inlets are approximately 3-4 lots east of Oakhurst Ave on the north leg of Payne Dr, and on the SW corner of McKenzie Ave and Oakhurst Ave. Tie into existing system at MH I5D-502 (Portland Ave at Oakhurst Ave).
2. Construct 2 new inlets on Payne Dr at the low point where flooding occurs. Construct 1 new inlet on the SW corner of McKenzie Ave and Oakhurst Ave. Improvements consist of 1,370 LF of 18” RCP, 3 new CB connections, 2 new MH connections, and 1 MH connection to an existing line.



**Project:** Loma Prieta Court  
**Project Identifier:** PM\_PA\_1001

**Issue:** The storm inlet is too high resulting in poor drainage

**Priority:** Moderate

**Cost:** \$30,000

*Plan View*



**Project Summary:**

Loma Prieta Court experiences significant ponding after most storm events. The existing inlet in the court is not at the lowest point. Driveway entrances were graded lower causing standing water.

Lowering the existing CB and minor gutter grading should improve drainage. Alternatively, additional inlets can be added to existing low spots in the court and connected to the existing CB.

**Master Plan Improvements:**

1. Lower inlet grading of CB H5F-404 below the surrounding gutters



**Project:** 1640 Dallas Court  
**Project Identifier:** PS\_PA\_1000  
**Issue:** Slight ponding at the end of the cul-de-sac  
**Priority:** High  
**Cost:** \$200,000

*Plan View*



**Project Summary:**

There have been drainage issues in Dallas Court. The existing drywell percolation rate is not adequate.

Replace the drywell with a CB and connect to the existing system on Fremont Ave. Add additional inlets if needed.

**Master Plan Improvements:**

1. Restore MH . K6F-225
2. Install new CB and connect to MH K6f-226 in Fremont Ave.



**Project:** Woods Lane at Citation Drive

**Project Identifier:** PS\_PA\_1001

**Issue:** The City has indicated that logs and debris are clogging the creek in the area

**Priority:** High

**Cost:** \$220,000 and \$550 annually

*Plan View*



**Master Plan Improvements:**

1. Install 36" trash rack at check dam or inlet to storm water pipe
2. Routine maintenance along creek and pipe junction

**Project Summary:**

There has been past drainage issues near Woods Lane and Citation Drive. Debris from upstream limits the conveyance in the existing 36-inch pipeline. There is an existing drop structure upstream of the culvert inlet.

Installing a trash rack at the check dam or inlet to the 36-inch culvert will reduce debris flowing down stream. This device will need routine inspection and maintenance to assure the system functions optimally during storm events.



**Project:** Trash Rack at 2100 Stonehaven Dr.

**Project Identifier:** PS\_PA\_1002

**Issue:** Trash rack behind residence gets blocked with debris. Gate structure M5D-207 is paved over

**Priority:** High

**Cost:** \$770,000

*Plan View*



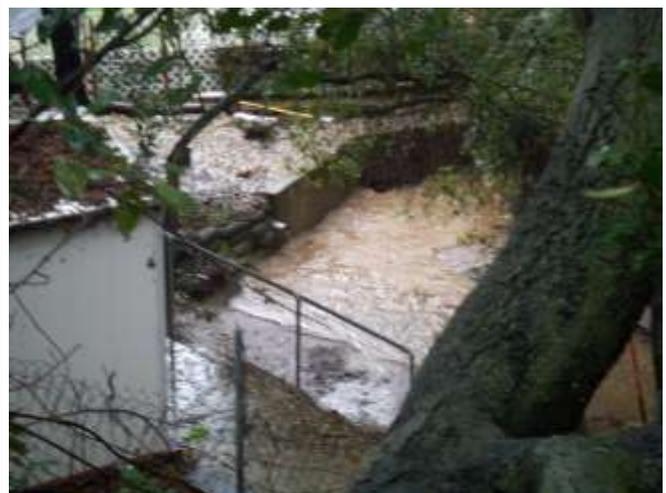
**Project Summary:**

The drainage system along Stonehaven Drive upstream of Sierra Ventura has experienced significant drainage problems during storm events. The existing ditch enters the City drainage pipe network at a concrete headwall. There appears to be significant sediment and debris issues. The adjacent landowner has attempted to provide some additional flood protection.

We recommend replacing the headwall and culvert. A 36-inch RCP line to the existing junction box in Stonehaven is required. The new headwall should be higher and include an engineered trash rack. The ditch channel should be improved to prevent erosion.

**Master Plan Improvements:**

1. Improve creek channel approach to SD headwall and inlet
2. Remove asphalt over gate structure and bring hatch to grade
3. Continue routine maintenance and cleaning of trash racks behind home and exercise gate structure



**Project:** Ditch between Windimer and Sierra Ventura Drive

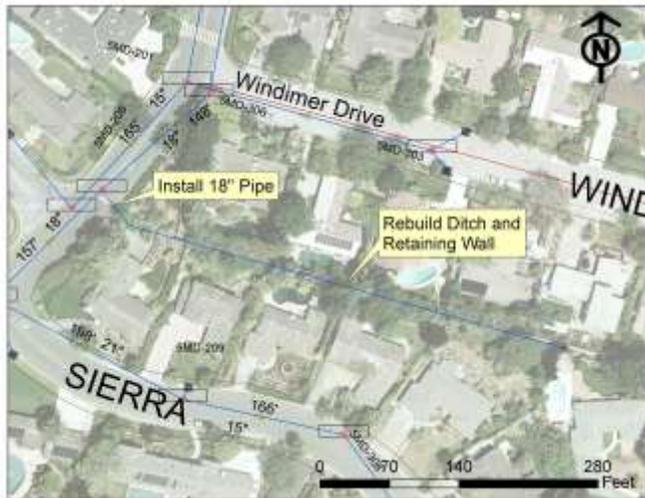
**Project Identifier:** PS\_PA\_1003

**Issue:** Drainage ditch in easement fills with debris causing overflow into adjacent properties

**Priority:** High

**Cost:** \$460,000

*Plan View*



**Master Plan Improvements:**

1. Install gabion rock wall throughout the entire length of the ditch
2. Rebuild ditch with constant slope
3. Repair fence
4. Replace pipe between ditch and MH with 18" RCP.

**Project Summary:**

The ditch between Windimer and Sierra Ventura Drive fills with debris causing flooding and overflow into the backyards of adjacent properties.

The upstream portion of the ditch has a cage-wrapped retaining wall that provides adequate conveyance in the ditch. The downstream portion of the ditch contains some home-made retaining walls that are collapsing into the ditch causing blockage.

We suggest lining the entire ditch with a gabion rock wall. This will help stabilize the neighboring properties and will limit debris from the surrounding hill.

The existing concrete channel should be repaired and reshaped as needed. A constant pitched slope will help reduce standing water and overflows.

The pipe from the ditch to the manhole in Stovehaven should be replaced with an 18-inch RCP line. The inlet structure should include a trash rack to prevent large debris from entering the storm drain network.

**Project:** Ranchita Drive at Julie Lane

**Project Identifier:** PS\_PA\_1004

**Issue:** No sump in CB. Flooding east of Julie and Ranchita, drainage issues due to a crowned road

**Priority:** Moderate

**Cost:** \$110,000

*Plan View*



**Project Summary:**

The area near Ranchita Drive and Julie Lane has experienced drainage problems. There is one existing inlet on the SE corner that regularly clogs with debris. The roadway grading limits drainage to the inlet.

Replace the existing inlet with a CB that includes a sump to collect debris. Regular cleaning of CB should be conducted. Adding an additional CB east of the existing inlet could also improve drainage.



**Master Plan Improvements:**

1. Replace inlet CB J6C-225



**Project:** Foothill Expressway at Homestead Rd

**Project Identifier:** ST\_PA\_1000

**Issue:** Poor drainage on offramp.

**Priority:** Moderate

**Cost:** \$150,000

*Plan View*



**Project Summary:**

The offramp from northbound Foothill Expressway to Homestead Road routinely floods. There is a significant sag in the roadway and no storm drain system.

Install an inlet and catch basin at the sag point in the roadway. Connect to undocumented system at corner on Homestead Road.



**Master Plan Improvements:**

1. Install a new catch basin alongside the Foothill Expressway offramp, near the Chevron station.