



Storm Water Management Oversight Committee

Thursday, February 13, 2020

Special Meeting

Meeting Room, Palo Alto Art Center

1:00 PM

Agenda posted in accordance Government Code Section 54954.2(a) or 54956.

PUBLIC COMMENT

Members of the public may speak to agenda items; reasonable time restriction may be imposed at the discretion of the Committee Chair. If you wish to address the Committee on any issue that is on this agenda, please complete a speaker request card and deliver it to staff prior to discussion of the item. You are not required to give your name on the speaker card in order to speak to the Committee, but it is helpful.

Call to Order (5 min)

Oral Communications (5 min)

Members of the public may speak to any item NOT on the agenda. A reasonable time restriction may be imposed at the discretion of the Committee Chair.

Old Business (5 min)

1. Approval of Minutes From the December 12, 2019 Storm Water Management Oversight Committee Meeting

New Business

2. Staff Presentation on the Fiscal Year 2019 Expenditures for the Storm Water Management Fund (5 minutes)
3. Committee Discussion and Report to Council on Findings of the Fiscal Year 2019 Expenditures for the Storm Water Management Fund (10 minutes)
4. Staff Presentation on Capital Improvement Project (20 min)
5. Staff Presentation on progress on Stormwater Compliance Program (30 min)

Committee Member Comments and Announcements (10 min)

Tentative Agenda Items for Future Meetings and Review Action Items (10 min)

Adjournment

AMERICANS WITH DISABILITY ACT (ADA)

Persons with disabilities who require auxiliary aids or services in using City facilities, services or programs or who would like information on the City's compliance with the Americans with Disabilities Act (ADA) of 1990, may contact (650) 329-2550 (Voice) 24 hours in advance.



Storm Water Management Oversight Committee

DRAFT Thursday, December 12, 2019

Special Meeting
Art Center Meeting Room, Palo Alto Art Center
2:00 pm

Committee Members Present:

David Bower, Marilyn Keller, Hal Mickelson, Ron Owes

Committee Members Absent:

Peter Drekmeier, Dena Mossar, Bob Wenzlau

Public Members Present:

David Moss (Parks and Recreation Commission, Liaison)

Staff Present:

Maybo AuYeung, Phil Bobel, Pam Boyle Rodriguez, Michel Jeremias, Karin North, Vicki Thai, Isabel Zacharczuk

Call to Order: 1:03 pm by Chairperson Mickelson

Oral Communications: None

Old Business

1. Meeting minutes from the March 20, 2019 meeting to be updated to correct typo under “Call to Order”.

New Business

2. Presentation of Proclamations
 - David Bower and Hal Mickelson presented with proclamations from the City. Staff acknowledged that Marilyn Keller’s proclamation was previously accepted.
3. Staff Report on Capital Improvement Project
 - Loma Verde Ave Project:
 - i. Jeremias: provided overview of the project. Vicki Thai is preparing design plans and will go out to bid January 2020. Construction for this project will take about 2 – 3 months. The pipe update in this project is key because these downstream updates will allow staff to make additional updates upstream.
 - ii. Keller: what is the reason for increasing the pipe size to a 48-inch pipe?
 1. Jeremias: the Storm Drain Master Plan (SDMP) identified pipes that cannot accommodate a 10-year storm (typical design standard). Loma Verde project identified as a high priority in order to better capture 10-year storms.



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- iii. Keller: there is a potential for current 10-year storms to become future 5-year storms – how is this being addressed?
 - 1. Jeremias: the City’s pump stations will cover potential discrepancies between certain sized storms in the future.
 - 2. North: installing green stormwater infrastructure (GSI) will also help with potential discrepancies in parallel with storm drain upgrades.
- iv. Owes: did the City conduct a flooding analysis?
 - 1. Jeremias: SDMP identified ponding areas as part of the development of the Plan. The Stormwater Management Fee (SWMF) projects were then identified and ranked high, medium, and low based on this analysis.
- Corporation Way and E Bayshore:
 - i. Jeremias: this is the higher priority project from the SWMF. The outfall is gravity-driven, so the water cannot get into the creek if the creek levels are too high.
- Owes: are there any constraints with in-house project management for SWMF projects?
 - i. Jeremias: there are three (3) staff in Public Works Engineering – Storm Drain group (PWE SD). Staff is squeezed thin between the high priority SWMF projects and smaller projects in-between (e.g. box culvert rehabilitation project over Oregon Expressway).
- Bowers: for #11 Louis Road project, why has this project jumped up the priority list?
 - i. Jeremias: the City cannot afford to do all of the Louis Road upgrades within the same project, so the City is splitting these upgrades into two segments. The City is prioritizing the Louis Road segment that is closest to the Pump Station.
- 4. Staff Report on Preliminary Budget for Fiscal Year 2021
 - Boyle-Rodriguez introduced David Moss—current Commissioner on the Parks and Recreation Commission (PRC)
 - i. Moss: main concern is GSI and the impact that it has on parks. What role do parks play in the stormwater system? Also concerned with items like permeable pavement in Mitchell Park parking lots—wants to know more information.
 - AuYeung: budget starts in about six (6) months on July 1st, 2020 through June 30th, 2021
 - Estimating a 2.7% increase for SWMF Revenue (based on CPI). Last year’s increase was 4.5% for reference.
 - Operating Budget:
 - i. Bobel: clarified the term “allocated charges”—each enterprise fund, like storm, pays attorney’s office and IT office.
 - ii. AuYeung: proposing “no change” to maintenance cost
 - 1. Bobel: maintenance cost is proposed to stay the same, but we cannot keep holding maintenance costs at the same level, while true maintenance costs are actually rising
 - iii. Owes: are rebates just stormwater-related?
 - 1. Bobel: yes, we’re only talking about stormwater rebates for now, although the City offers additional rebates through other Departments.



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2. Keller: attended the Stormwater Rebate Workshop hosted the previous weekend by Utilities and Public Works and thought it was done very well.

- Bobel: FY 18 and FY 19 each dedicated \$330k to Charleston-Arastradero since this was the only “shovel-ready” project at the time. Now, we want to use the stormwater fund as more of “seed money”, as opposed to funding an entire “green” portion of only one project. Focus more on leveraging SWMF funding.
 - Bobel: City staff is working on a policy for projects managers to consider implementing GSI into any future projects
 - i. Keller: Canopy is planning to plant a few hundred trees along San Francisquito Creek. The biggest issue is how to water trees once they’re planted – could a stormwater project help with this? Catherine Martineau, Executive Director of Canopy, is the best contact for this project.
 - ii. Moss: the Buckeye Creek Study was recently completed. The total project is about \$9 million – the project is being split into smaller sections, but each piece is still \$3 million. Daren Anderson is the best contact for this project.
 - iii. North: staff is considering GSI for the North Ventura Coordinated Area Plan (NCVAP) as well.
 - iv. Bower: is the Public Safety Building going to have additional GSI that could use these funds?
 - 1. Boyle Rodriguez: staff has been working with PWE to consider additional GSI. The parking garage extends past the footprint of the building and under the sidewalk, which limits the areas for GSI.
 - Bower: Council is concerned about how to fund all of the Storm Drain Master Plan (SDMP) projects (~\$350 million worth of projects)—SWMF is being used to fund 13 priority projects that PWE SD is focusing on.
 - Owes: add a column to the budget chart to indicate “which problem is being solved” for each of the Capital Improvement Projects (CIPs) that the SWMF is paying for.
5. Staff Report on Stormwater Program and Green Stormwater Infrastructure Plan Improvements
- Keller: what is the timeline the Sustainability Climate Action Plan (S/CAP)?
 - i. Bobel: the approval for the S/CAP Framework happened in 2016. The approval for the S/CAP happened in 2018. One of the overall goals is to reduce greenhouse gas (GHG) emissions by 80% by 2030. The GHG emission goal includes transportation.
 - Owes: are there upcoming issues with changes from decreasing setbacks? What happens if we don’t have enough space to implement GSI like bioretention? There are competing issues from different state agencies. Particular concern about SB 50.
 - i. Boyle Rodriguez: monthly talks with the Water Board have included discussion about housing concerns. Properties that are built out “lot line to lot line” will have options to treat land offsite.
 - Owes: is there any kind of goal for percentage of impervious area for the City?
 - i. Boyle Rodriguez and North: staff has an upcoming contract that will help the City model the amount of imperviousness for the City to establish a baseline.



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Committee Member Comments and Announcements

Tentative Agenda Items for Future Meetings

- Staff will send out a Survey Monkey for which groups to hear from at the next meeting, regardless of whether the items are funded by the SWMF (since they're still related to stormwater). Potential topics include:
 - i. PW Storm Drain Engineering regional projects (e.g. Shoreline, SF Creek)
 - ii. PW Storm Drain Operations (including street sweeping)
 - iii. Recycled Water
- Mickelson: Alert the SWMOC when there are other related events going on that are relevant to this SWMOC – members can attend and learn.
- North: will send out regular calendar invites for SWMOC members.
- AuYeung: next meeting on February 13th will focus on finalizing the upcoming budget and discussing past year's actual spending. This meeting will be at least two hours.
- Bower: request that staff send out pre-composed documents (if they're available) ahead of any upcoming meetings so that the documents can be reviewed prior to the meeting.

Adjournment: 3:04 pm by Chairperson Michelson

STORMWATER MANAGEMENT PROGRAM

Fiscal Year 2019 Actual Expenditures

(Amounts in 1000s, as of February 2020)

	Actual Expenses Year 1 2018	Adopted Budget Year 2 2019	Carry Forward Budget from FY 2018	FY2019 Budget (incl. Carry Forward) Year 2 2019	Actual Expenses Year 2 2019
Revenue Collected	7,123	7,379	0	7,379	7,249
Fee Revenue	6,912	7,128	0	7,128	7,195
Interest Earnings	154	130	0	130	2
Development Fees & Violation Fines	57	120	0	120	53
Base Components	4,840	5,194	53	5,247	3,037
Base Program (Incl. Water Quality, Flood Control)	2,555	2,645	39	2,684	1,428
Storm Drainage Maintenance	1,338	1,599	14	1,613	1,350
Debt Service for Past Capital Project	947	949	0	949	259
Project & Infrastructure	5,324	4,299	2,097	6,396	2,079
Capital Improvements Program	4,398	2,200	1,001	3,201	1,058
Loma Verde Ave Trunk Line Improvements (#1/ SD-19000)	0	2,200	0	2,200	45
Matadero Creek Storm Water Pump Station (SD-13003)	4,359	0	1,001	1,001	1,013
Channing Ave / Lincoln (SD-11101)	39	0	0	0	0
Recurring System Repair (SD-06101)	400	1,412	1,048	2,460	462
Capital Program Engineering Support	158	182	0	182	182
Green Stormwater Infrastructure (GSI)	366	380	49	429	376
GSI - CIP Design/Construction	330	330		330	330
GSI - Consulting Services	36	50	49	99	46
GSI - Other unassigned tasks	0	0		0	0
Innovative Project	2	125	0	125	1
Innovative Project - GSI consulting Services	0	100	0	100	0
Innovative Project - Rebates	2	25	0	25	1
Total Expenses	10,164	9,493	2,150	11,643	5,116

CITY OF PALO ALTO

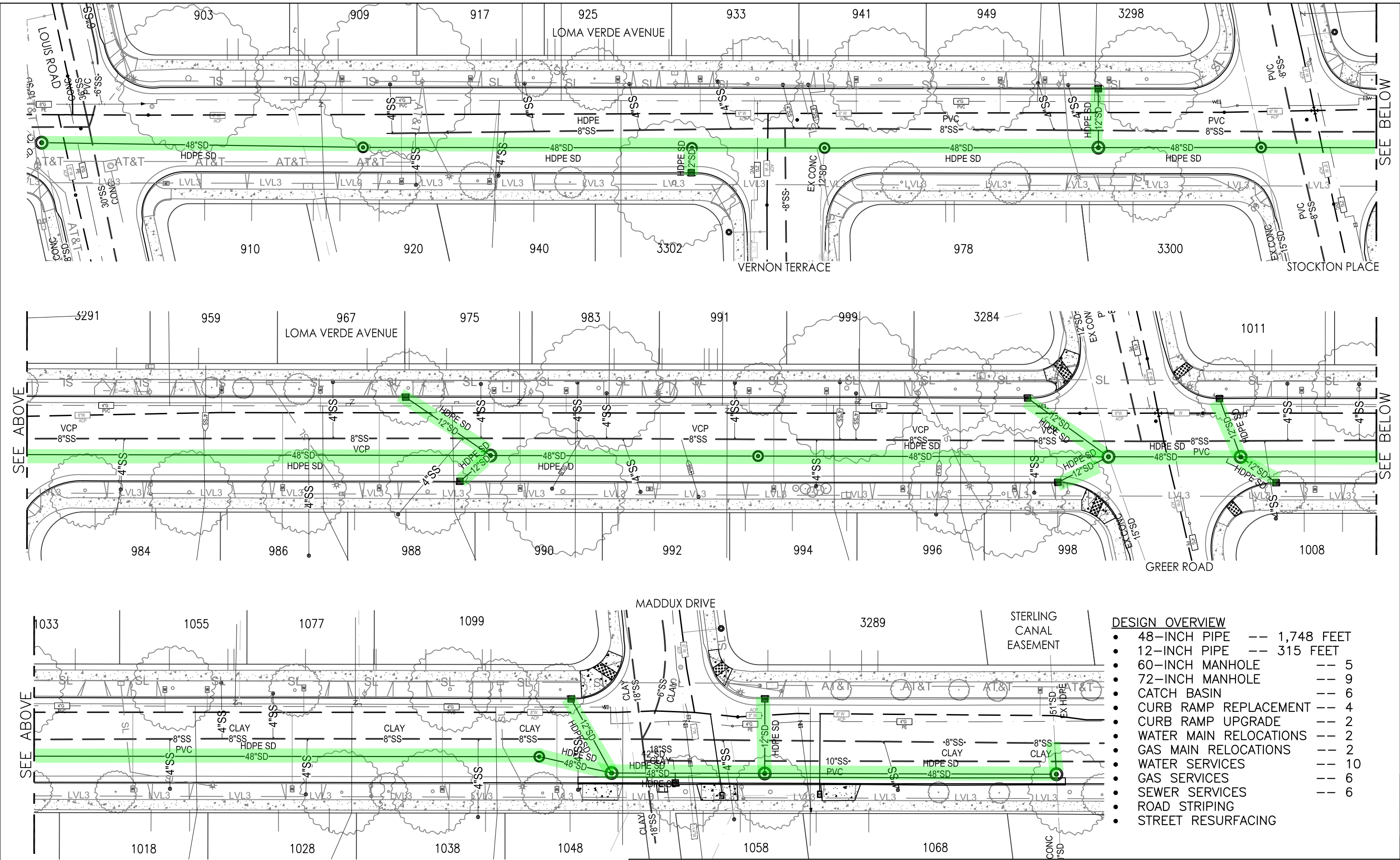
STORM DRAIN CAPITAL IMPROVEMENT PROJECTS LIST

STORMWATER MANAGEMENT OVERSIGHT COMMITTEE MEETING - FEBRUARY 2020

Ballot Measure	SD Master Plan #	Project Names (Blue Ribbon Committee's Recommended List Names)	Priority	Program	Budget Book #	Design	Construction	Notes
1	11	Loma Verde Ave Capacity Upgrade	High	Yes	SD-19000	In-house	Out to bid April 2020	
2	1	Corporation Way & E Bayshore Road Pump Station to Adobe Creek	Highest	Yes	SD-21000	Outside consultant	FY 2021-2023	1
3	3	W Bayshore Road to Adobe Creek Capacity Upgrade	High	Yes	SD-23000	Outside consultant	FY 2023-2024	1
4	4	W Bayshore Road Pump Station to Adobe Creek	High	Yes	SD-20000	Outside consultant	FY 2021-2023	1
5	5	E Charleston Rd & Adobe Creek Capacity Upgrades	High			In-house	FY 2030*	3
6	6	E Meadow Circle Connect to Adobe Creek Pump Station	High	Yes	SD-22000	In-house	FY 2024	2
7	7	E Meadow Drive Capacity Upgrades	High			In-house	FY 2029*	3
8	8	Fabian Way Capacity Upgrades	High			In-house	FY 2031*	3
9	9	Hamilton Avenue (Center to Rhodes) Capacity Upgrades	High			In-house	FY 2027*	3
10	12	Louis Rd (Embarcadero to Seale-Wooster Canal Easement) Capacity Upgrades	High			In-house	FY 2028*	3
11	13	Louis Rd (Seale-Wooster Canal to Matadero Creek) Capacity Upgrades	High	Yes	SD-24000	In-house	FY 2025*	2
12	32	Colorado Pump Station Removal	Low			In-house	FY 2032*	3
13	15	Center Drive (Hamilton to Channing) Capacity Upgrade	Moderate			In-house	FY 2026*	3

Notes:

- 1 The projects are similar therefore combined into one RFP to obtain a consultant's estimate. The lowest bid for design was 75% higher than originally expected.
- 2 Ballot Measure projects 6 and 11, moved out a year due to limited funding.
- 3 * Current tentative schedule based on available funds and assuming 1 project construction per a year. Project design will need to be done a year in advance.



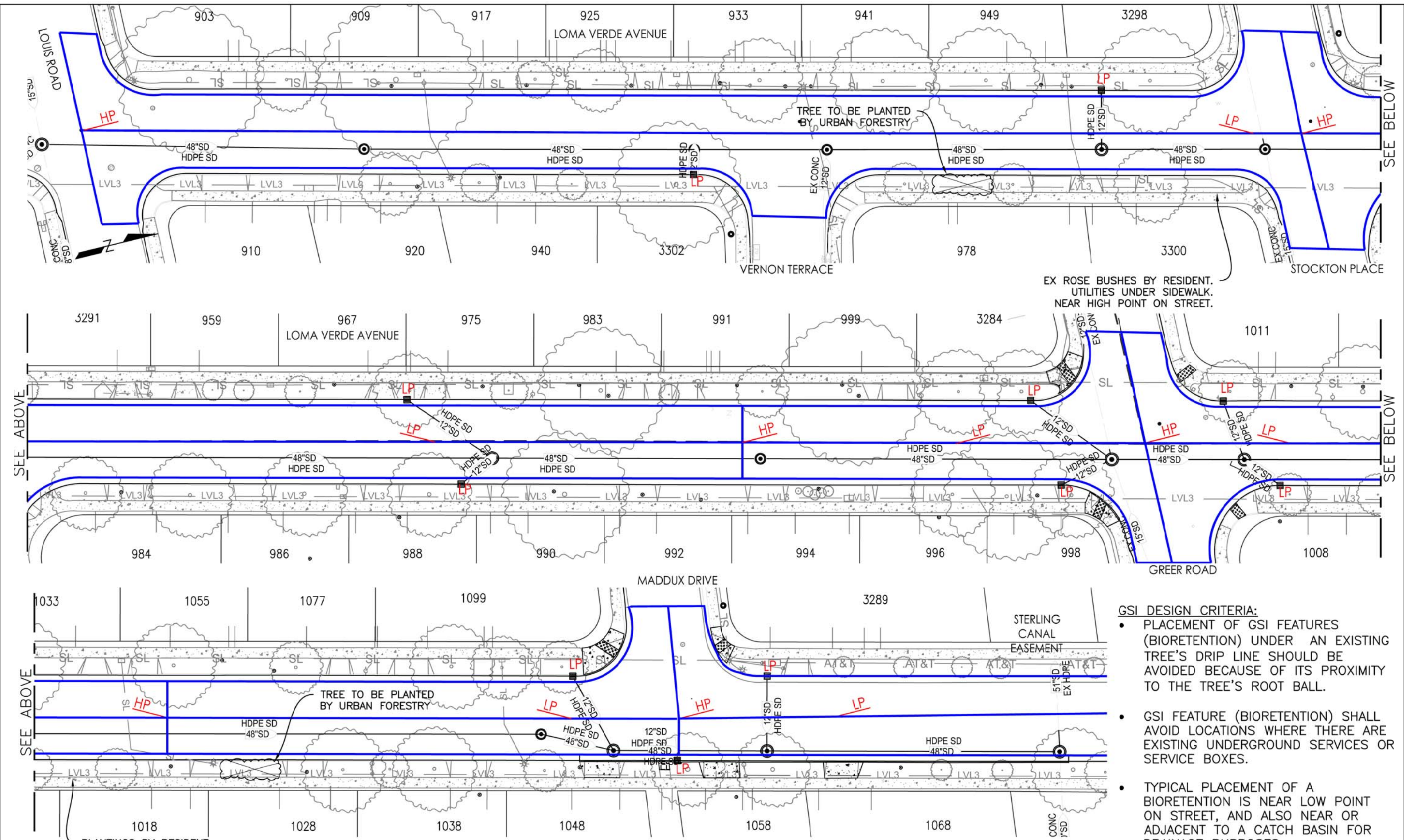
DESIGN OVERVIEW

- 48-INCH PIPE --- 1,748 FEET
- 12-INCH PIPE --- 315 FEET
- 60-INCH MANHOLE --- 5
- 72-INCH MANHOLE --- 9
- CATCH BASIN --- 6
- CURB RAMP REPLACEMENT --- 4
- CURB RAMP UPGRADE --- 2
- WATER MAIN RELOCATIONS --- 2
- GAS MAIN RELOCATIONS --- 2
- WATER SERVICES --- 10
- GAS SERVICES --- 6
- SEWER SERVICES --- 6
- ROAD STRIPING
- STREET RESURFACING

LOMA VERDE AVENUE TRUNK LINE IMPROVEMENT PROJECT: DESIGN OVERVIEW
STORMWATER MANAGEMENT OVERSIGHT COMMITTEE

SCALE: 1" = 40'
 DATE: 2/4/2020





- GSI DESIGN CRITERIA:**
- PLACEMENT OF GSI FEATURES (BIORETENTION) UNDER AN EXISTING TREE'S DRIP LINE SHOULD BE AVOIDED BECAUSE OF ITS PROXIMITY TO THE TREE'S ROOT BALL.
 - GSI FEATURE (BIORETENTION) SHALL AVOID LOCATIONS WHERE THERE ARE EXISTING UNDERGROUND SERVICES OR SERVICE BOXES.
 - TYPICAL PLACEMENT OF A BIORETENTION IS NEAR LOW POINT ON STREET, AND ALSO NEAR OR ADJACENT TO A CATCH BASIN FOR DRAINAGE PURPOSES.

LEGEND
 LP LOW POINT
 HP HIGH POINT
 — DRAINAGE MANAGEMENT AREA (DMA)

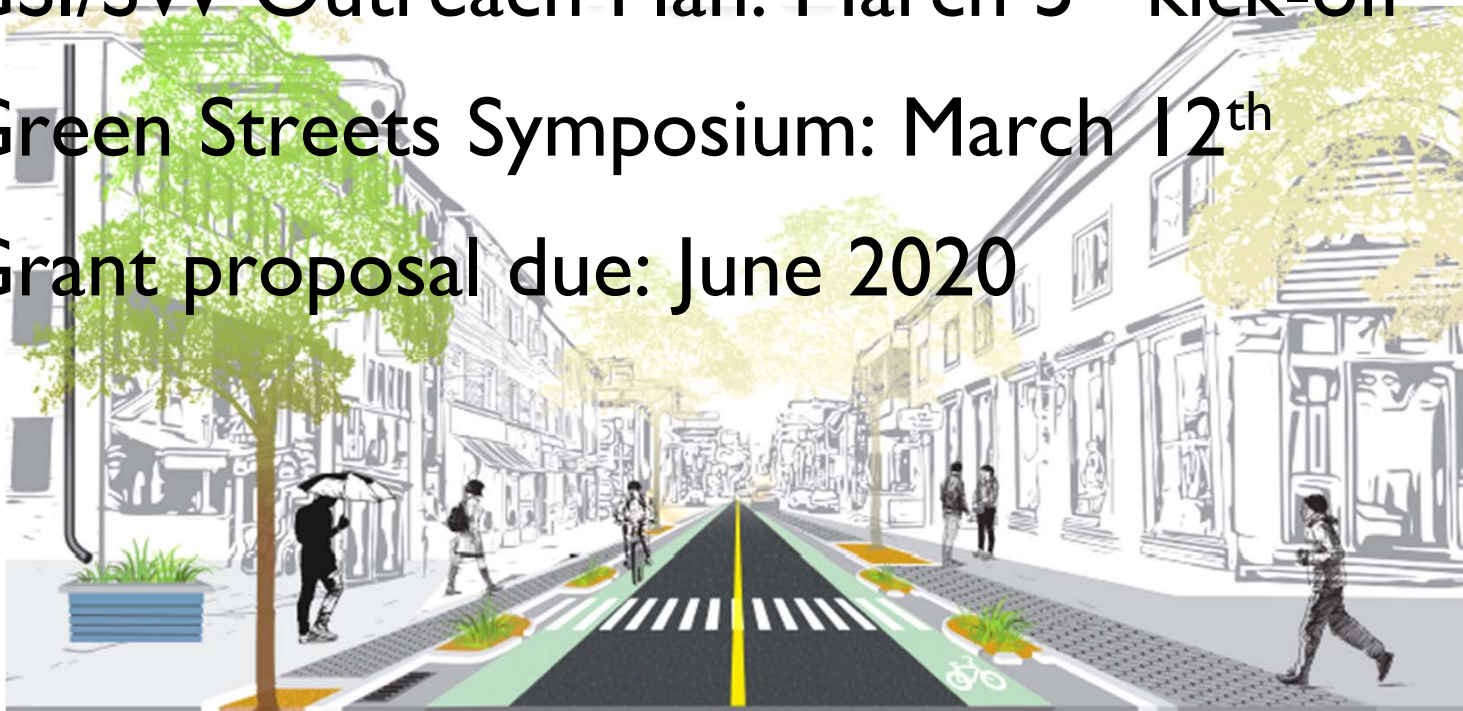
PLANTINGS BY RESIDENT.
 UTILITIES UNDER SIDEWALK.
 NEAR HIGH POINT ON STREET.

LOMA VERDE AVENUE TRUNK LINE IMPROVEMENT PROJECT: DRAINAGE AREAS
STORMWATER MANAGEMENT OVERSIGHT COMMITTEE

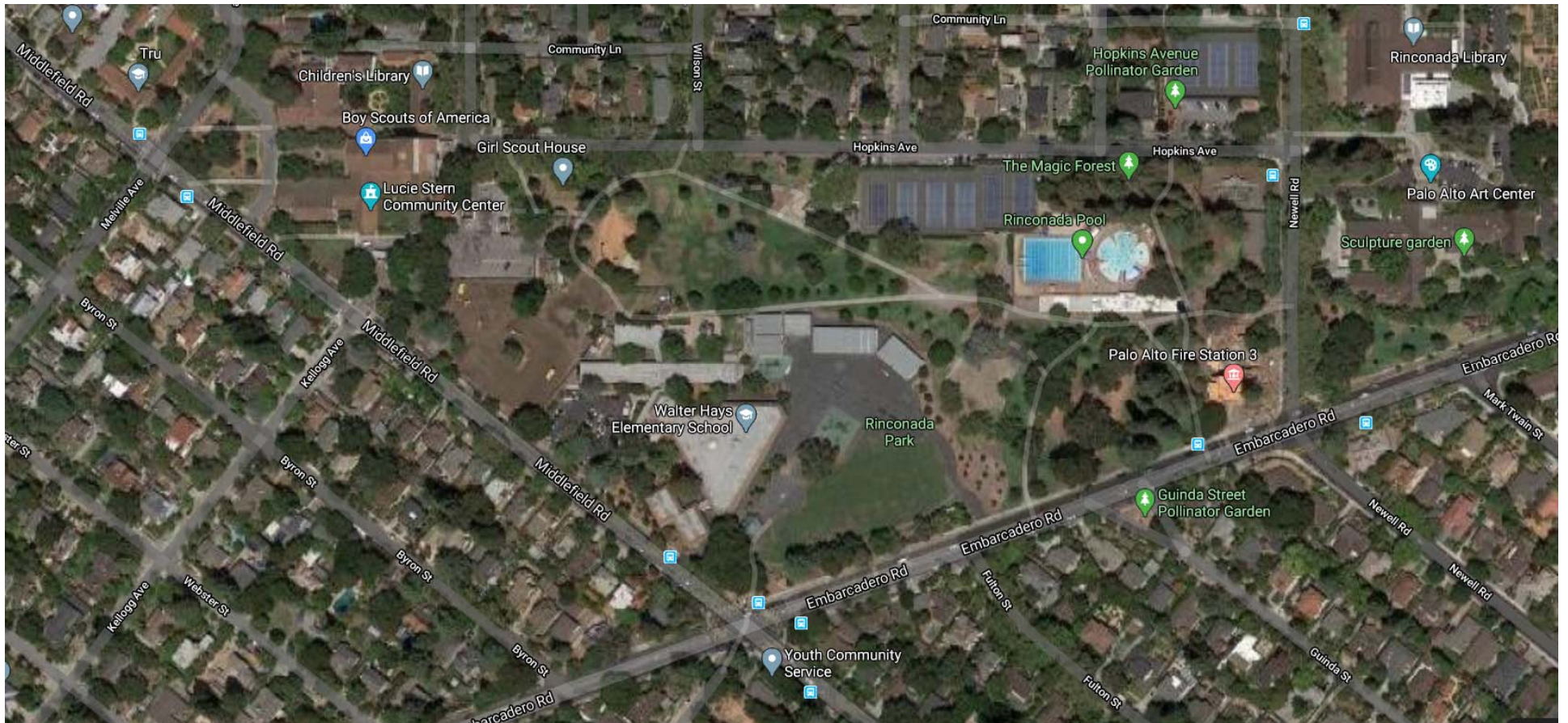
SCALE: 1" = 40'
 DATE: 2/4/2020

GSI Plan Implementation Update

- GSI Plan distribution to Commissions & Council
- GSI/Sustainability implementation policy update
- Funding analysis: Feb. 12th kick-off
- GSI/SW Outreach Plan: March 5th kick-off
- Green Streets Symposium: March 12th
- Grant proposal due: June 2020



Tentative GSI Project: Hopkins @ Rinconada Park



Street GSI Examples



Partnership Pilot Objectives



- Increase community awareness and engagement
- Improve function of bioretention measures
- Reduce demand on City maintenance crews
- Support standardization
- Increase pollinator species
- Beautify the neighborhood



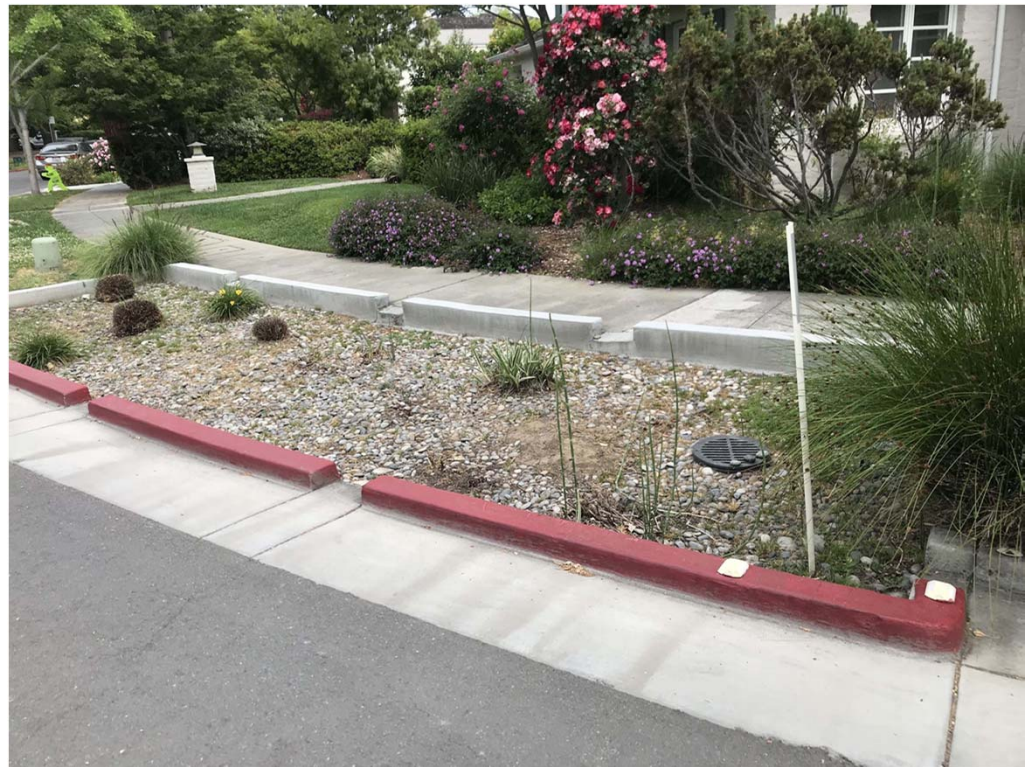
Pilot Location: March 2015

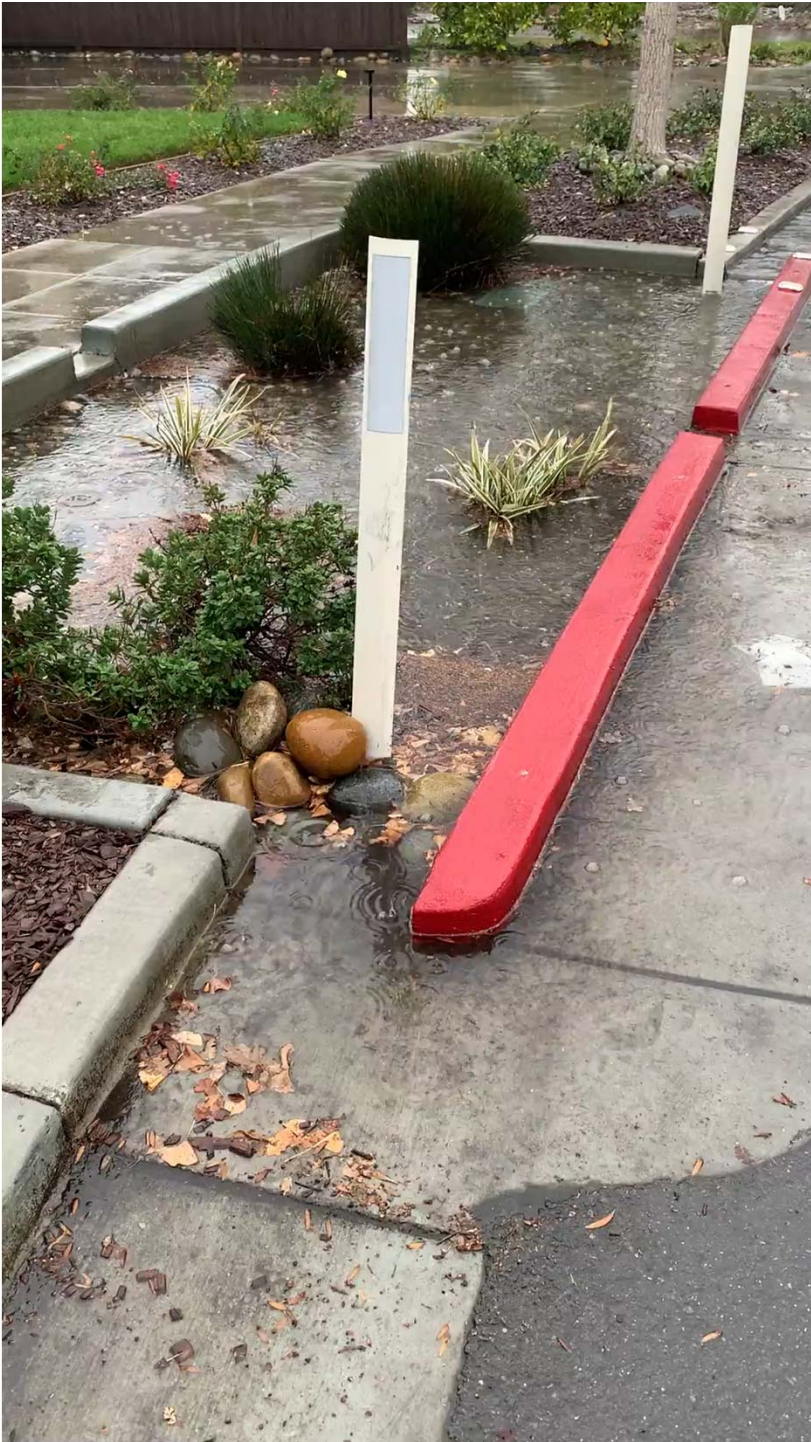


Pilot Location: Nov 2017



Pilot Location: Sept. 2019





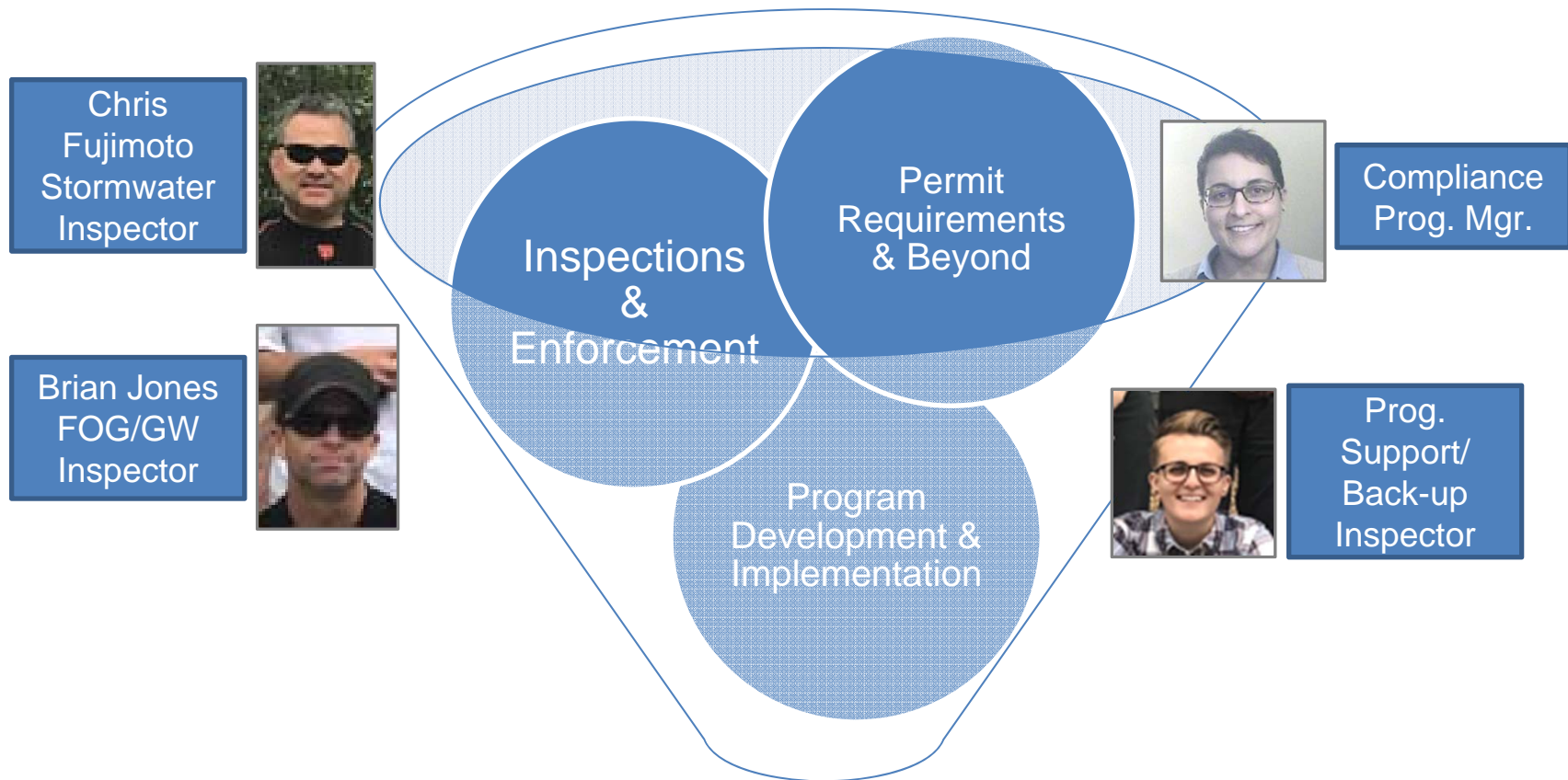


Grassroots Ecology Partnership Pilot

- Site prep
 - Rock removal
 - Soil amendment (testing)
 - Mulch
 - Plants
 - Irrigation
- Neighborhood engagement
- Signage
- Workdays
 - Staff w/ GrE: site prep
 - **Community: planting & education, 4/18**



Stormwater Compliance Program



**Regulatory Compliance &
Healthy Creeks and Bay**

Stormwater Compliance Program Update

- Ordinance update (stormwater & food facilities)
- Establishment of compliance software
- Update of Enforcement Response Plan
- Current inspections: Construction, stormwater measure, food facilities, groundwater dewatering
- NVCAP participation
- BASMAA Participation
- Green Streets Symposium planning committee
- Negotiations for upcoming MRP (tentatively effective summer 2021)

Boom Cleanup: 12/19/19



Valley Water's Volunteer Recognition Award (12/11/19)

