WATER RESOURCES AND WATERSHED COMMITTEE MEETING

Wednesday, November 9, 2022
Meeting Begins at 5:30 PM

Members of the public may attend by the following options:

In Person	By Phone	Virtually
Santa Clarita Valley Water Agency Engineering Services Section Boardroom 26521 Summit Circle Santa Clarita, CA 91350	Toll Free: 1-(833)-568-8864 Webinar ID: 161 829 6295	Please join the meeting from your computer, tablet or smartphone: https://scvwa.zoomgov.com/j/1618296295

Have a Public Comment?

Members of the public unable to attend this meeting may submit comments either in writing to ekang@scvwa.org or by mail to Eunie Kang, Executive Assistant, Santa Clarita Valley Water Agency, 26501 Summit Circle, Santa Clarita, CA 91350. All written comments received before 4:00 PM the day of the meeting will be distributed to the Committee members and posted on the Santa Clarita Valley Water Agency website prior to the start of the meeting. Anything received after 4:00 PM the day of the meeting will be made available at the meeting, if practicable, and will be posted on the SCV Water website the following day. All correspondence with comments, including letters or emails, will be posted in their entirety.
(Public comments take place during Item 2 of the Agenda and before each Item is considered. Please see the Agenda for details.)

This meeting will be recorded and the audio recording for all Committee meetings will be posted to yourscvwater.com within 3 business days from the date of the Committee meeting.

Disclaimer: Attendees should be aware that while the Agency is following all applicable requirements and guidelines regarding COVID-19, the Agency cannot ensure the health of anyone attending a Board meeting. Attendees should therefore use their own judgment with respect to protecting themselves from exposure to COVID-19.

Santa Clarita Valley Water Agency
Rio Vista Water Treatment Plant
27234 Bouquet Canyon Road
Santa Clarita, CA 91350
(661) 297-1600

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Date: November 2, 2022

To: **Water Resources and Watershed Committee**
Jeff Ford, Chair
Kathye Armitage
Ed Colley
Bill Cooper
Maria Gutzeit

From: Steve Cole, Assistant General Manager

The **Water Resources and Watershed Committee** is scheduled to meet on **Wednesday, November 9, 2022** at **5:30 PM** at **26521 Summit Circle, Santa Clarita, CA 91350 in the Engineering Services Section (ESS) Boardroom.** Members of the public may attend in person or virtually. To attend this meeting virtually, please see below.

IMPORTANT NOTICES

This meeting will be conducted in person at the address listed above. As a convenience to the public, members of the public may also participate virtually by using the **Agency's Call-In Number 1-833-568-8864, Webinar ID: 161 829 6295 or Zoom Webinar by clicking on the link https://scvwa.zoomgov.com/j/1618296295**. Any member of the public may listen to the meeting or make comments to the Committee using the call-in number or Zoom Webinar link above. However, in the event there is a disruption of service which prevents the Agency from broadcasting the meeting to members of the public using either the call-in option or internet-based service, this meeting will not be postponed or rescheduled but will continue without remote participation. The remote participation option is being provided as a convenience to the public and is not required. Members of the public are welcome to attend the meeting in person.

Attendees should be aware that while the Agency is following all applicable requirements and guidelines regarding COVID-19, the Agency cannot ensure the health of anyone attending a Committee meeting. Attendees should therefore use their own judgment with respect to protecting themselves from exposure to COVID-19.

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MEETING AGENDA

ITEM			PAGE
1.		**PLEDGE OF ALLEGIANCE**	
2.		**PUBLIC COMMENTS** – Members of the public may comment as to items within the subject matter jurisdiction of the Agency that are not on the Agenda at this time. Members of the public wishing to comment on items covered in this Agenda may do so at the time each item is considered. (Comments may, at the discretion of the Committee Chair, be limited to three minutes for each speaker.)	
3.		Introduction of New Water Resources Director	
4.	*	Recommend Authorizing the General Manager to Execute a Construction Contract for Bridgeport Pocket Park	1
5.	*	Recommend Adoption of a Resolution Authorizing SCV Water Agency to Apply for and Execute a Grant Agreement on Behalf of the SCV-GSA with the California Department of Water Resources for a Sustainable Groundwater Management Grant	17
6.		Water Resources Director's Report	
		6.1 Staff Activities	
7.		Sustainability Manager's Report	
		7.1 Status of Drought Response and Performance	
		7.2 Update on Conservation Activities and Performance	
8.	*	Committee Planning Calendar	27
9.		Adjournment	

* Indicates Attachment
• Indicates Handout

NOTICES:

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Eunie Kang, Executive Assistant, at (661) 297-1600, or in writing to ekang@scvwa.org or by mail to Eunie Kang, Executive Assistant, Santa Clarita Valley Water Agency, 26501 Summit Circle, Santa Clarita, CA 91350. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that Agency staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the Agency to provide the requested accommodation.

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Committee less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Santa Clarita Valley Water Agency, located at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Website, accessible at http://www.yourscvwater.com.

Posted on November 2, 2022.

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ITEM NO. 4

COMMITTEE MEMORANDUM

DATE: November 9, 2022

TO: Water Resources and Watershed Committee

FROM: Matthew S. Dickens, MPA
Sustainability Manager

SUBJECT: Recommend Authorizing the General Manager to Execute a Construction Contract for Bridgeport Pocket Park

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SUMMARY

This is an updated staff report to the version submitted to the SCV Water - Water Resources and Watershed Committee in September 2022. During the meeting, members of the committee posited questions pertaining to the cost, scope, and added value of the Bridgeport Pocket Park project. Additionally, staff has prepared a presentation which expands on the project's various components as well as the inquiries provided by the committee during its regularly scheduled meeting on September 14, 2022.

Consistent with the 2019 SCV Water Strategic Plan and in support of the Agency's water conservation engagement, education, and programmatic efforts, staff have developed plans for a water efficient demonstration garden at Bridgeport Pocket Park. Following the Request for Proposal (RFP) process, staff received four (4) proposals for park construction and staff have recognized the lowest-cost bid.

DISCUSSION

Following the launch of SCV Water, the Agency directed conservation staff to evaluate refurbishment of the Conservatory Garden and determine ways and means to enhance all landscape assets to improve public awareness, education, and engagement in various conservation programs. Additionally, during the Agency's evaluation of the Lawn Replacement Program, staff conducted a customer survey and received ~1,500 responses identifying resource needs including demonstration gardens and assistance with landscape design. With this guidance, conservation staff led a cross-organizational effort to better understand the Agency's landscape assets, conservation program needs, and potential collaborative partnerships. The three-pronged strategy included the transformation of the Conservatory Garden at Rio Vista to enhance the education experience, building "pocket parks" throughout the community to demonstrate smart landscape design and irrigation practices, and to partner with other local agencies to incorporate such facilities in high-traffic areas to increase public consumption. In 2019, after a review of available locations, SCV Water and the City of Santa Clarita (City) entered a Memorandum of Understanding (MOU) to, among other items, construct a demonstration garden at Bridgeport Park. Bridgeport Pocket Park (BPP) would utilize an area within the larger park where the City had turned off irrigation during the 2011-2017 drought. BPP is located at 23521 Bridgeport Lane and is ~16,200 square feet. A picture of the BPP location is provided on the following page (see Figure 1).

Figure 1. Bridgeport Pocket Park Location

During the design phase, the design team incorporated a collaborative process that included SCV Water staff (Conservation, Engineering, GIS), City staff, local landscape designers, an engineering firm, and an irrigation system consultant. The goal of the collaborative design process was to provide visitors with a range of landscape designs, sustainability features (rain gardens, mulching), plant pallets (California natives, low water-using plants), and high-efficiency irrigation (HE nozzles, drip irrigation) technologies that are commonly available to residents in the valley. Additionally, BPP will include site and plant signage, an information kiosk, walking paths, park benches, and a permeable concrete pad for maintenance vehicles and to support additional programming capabilities (EV, Tiny Home, Vendors). The design process was completed in 2021 and the BPP plans are included as an attachment.

In August 2022, the Conservation Team, with support from Engineering, submitted the completed design plan for RFP using PlanetBids. On September 2, 2022, SCV Water received proposals from four (4) firms for BPP construction. The following table notes the firms that responded to the RFP and their cost proposals respectively.

Table 1. SCV Water – Bridgeport Pocket Park Construction RFP Responses

Firm	C.S. Legacy Construction, Inc.	United Construction & Landscape, Inc.	R.C. Beker and Son, Inc.	Marina Landscape, Inc.
Cost Proposal	$373,147.60	$389,428.36	$390,111.97	$426,395.00
Cost per SF	$23.32	$24.34	$24.38	$26.65

During the Water Resources and Watershed Committee's September 14, 2022, meeting, staff provided a staff report and presentation detailing the Bridgeport Pocket Park project including the proposals and cost estimates received through the RFP process. Members of the committee requested information pertaining to the design process, size of the project area, scope of work, and project costs. Following the meeting, staff provided project materials and responses to specific inquiries including details of the design scope, design process, bid documents, and has updated the presentation slide deck for the committee's review at its November 9, 2022, meeting.

FINANCIAL CONSIDERATIONS

BPP funding for Fiscal Year 2022/2023 was estimated at $230,000. The lowest bid for BPP construction is $373,147.60, which is $143,147.60 above the current budgeted amount. Expenses beyond the budgeted amount will require a transfer of available funds from another project. Budget from the Conservatory Garden and Education Experience for FY 2022/2023 would be available for the BPP.

STATEGIC PLAN OBJECTIVE(S)

Goal A. Customer/Community: Implement policies supporting social, quality of life, and environmental values of the community.

Strategy A.2 Proactively communicate with and engage our community on water matters of importance to the region positioning SCV Water as a leading resource and reliable authority on water issues.

A.2.6 Raise awareness of and demand for conservation programs (e.g. water conservation campaign(s) and related media buys, public and school education programs, participation at public events, SCV Water website, e-newsletter and social media, self-guided landscape tour, conservatory garden, etc.)

Goal C. Water Supply and Resource Sustainability: Implement programs to ensure the service area has reliable and sustainable supplies of water.

Strategy C.4 Advance demand management and achieve State mandated water use efficiency targets.

C.4.9 Promote drought tolerant and water efficient landscapes out into the community
C.4.10 Communicate with customers the message that "conservation is a way of life"

CEQ CONSIDERATION

The Project, aka the whole of the action, qualifies for an exemption under CEQA Guidelines Section 15301 (c) Class 1 - Existing Facilities because it is a minor alteration of an existing public facility as it concerns the modification of an existing sidewalk and bicycle path involving negligible or no expansion of use. The project also qualifies for an exemption under Section 13504(b) Class 4 - Minor Alterations to Land as the Project consists of new landscaping which is replacing existing conventional landscape with water efficient landscape.

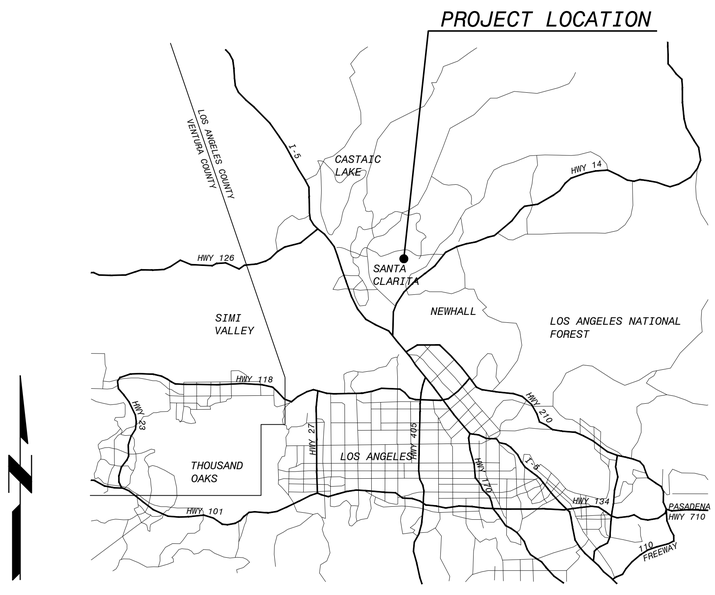
RECOMMENDATION

That the Water Resources and Watershed Committee recommends that the Board of Directors authorize the General Manager to execute a construction contract for Bridgeport Pocket Park.

Attachment

SANTA CLARITA VALLEY WATER AGENCY
LOS ANGELES COUNTY, CALIFORNIA
BRIDGEPORT POCKET PARK

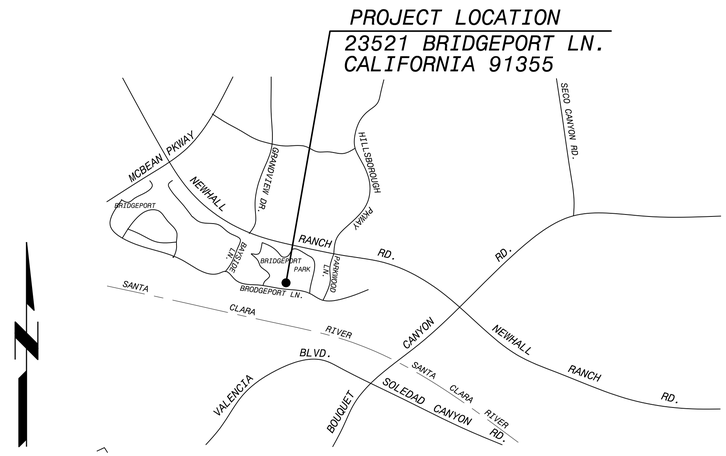
PROJECT NO. 200701
August 2020



VICINITY MAP
SCALE: 1" = 20 MILES

SH	DWG	DESCRIPTION
1	G-01	TITLE SHEET, SHEET INDEX, VICINITY MAP AND LOCATION MAP
2	C-01	EXISTING SITE PLAN
3	C-02	GARDEN AREA PLAN
4	C-03	LANDSCAPE PLAN, GARDEN AREA No.1
5	C-04	LANDSCAPE PLAN, GARDEN AREA No.2
6	C-05	LANDSCAPE PLAN, GARDEN AREA No.3
7	C-06	LANDSCAPE PLAN, GARDEN AREA No.4
8	L1-1	IRRIGATION SCHEDULE AND NOTES
9	L1-2	IRRIGATION PLAN
10	L1-3	IRRIGATION DETAILS
11	L1-4	IRRIGATION SPECIFICATIONS

DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG
DIGALERT
UNDERGROUND SERVICE ALERT(USA) OF SOUTHERN CALIFORNIA



LOCATION MAP
NOT TO SCALE

REVIEWED BY

DATE

APPROVED FOR CONSTRUCTION

DIRECTOR OF PUBLIC WORKS
CITY OF SANTA CLARITA

DATE

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT (USA)
OF SOUTHERN CALIFORNIA

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IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

SCV WATER

SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 297-1600

BRIDGEPORT POCKET PARK

TITLE SHEET, SHEET INDEX, VICINITY MAP AND LOCATION MAP

DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: G-01
1 OF 11

CONSTRUCTION NOTES:

(1.) *REMOVE EXIST. GRASS AND INSTALL KURAPIA (12-18" PLUGS), PER SPECIFICATION SECTION xxxxx*

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SCV WATER

SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 297-1600

BRIDGEPORT POCKET PARK

EXISTING SITE PLAN

DATE: AUGUST 2020

PROJECT NO. 200701

SHEET: C-01
2 OF 11

12"-36" Yosemite Granite Boulders

School Fence

Hunter MP Rotors 800

This area to be slightly rounded

The area along fence may need a French Drain and/or graded appropriately for drainage.

Create slight berm on designer's border.

Existing Quercus

Existing Concrete

Existing Lamp Post

Existing Trash Recepticle

BENCH

BENCH

BENCH

Sitting Stones

I've redrawn the path that circles around allowing for planting in layered height with a more meandering feel.

DG WALKWAYS

ROUND ABOUT

Plant Cercis on berm

Mod-Low Water

Very Low Water

Rain Garden Rock Feature

Rain Garden Rock Feature

SITTING AREA

EXISTING WALKWAY

UTILITY VERICLE PARKING

ADJUST WALKWAY

ADJUST DG PATHWAY

Mich seating area for Tete a'tete Bench

ex-Ash

NTS

REVISIONS			
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SCV WATER

SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION

26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 297-1600

BRIDGEPORT POCKET PARK

GARDEN AREA PLAN

DATE: AUGUST 2020

PROJECT NO. 200701

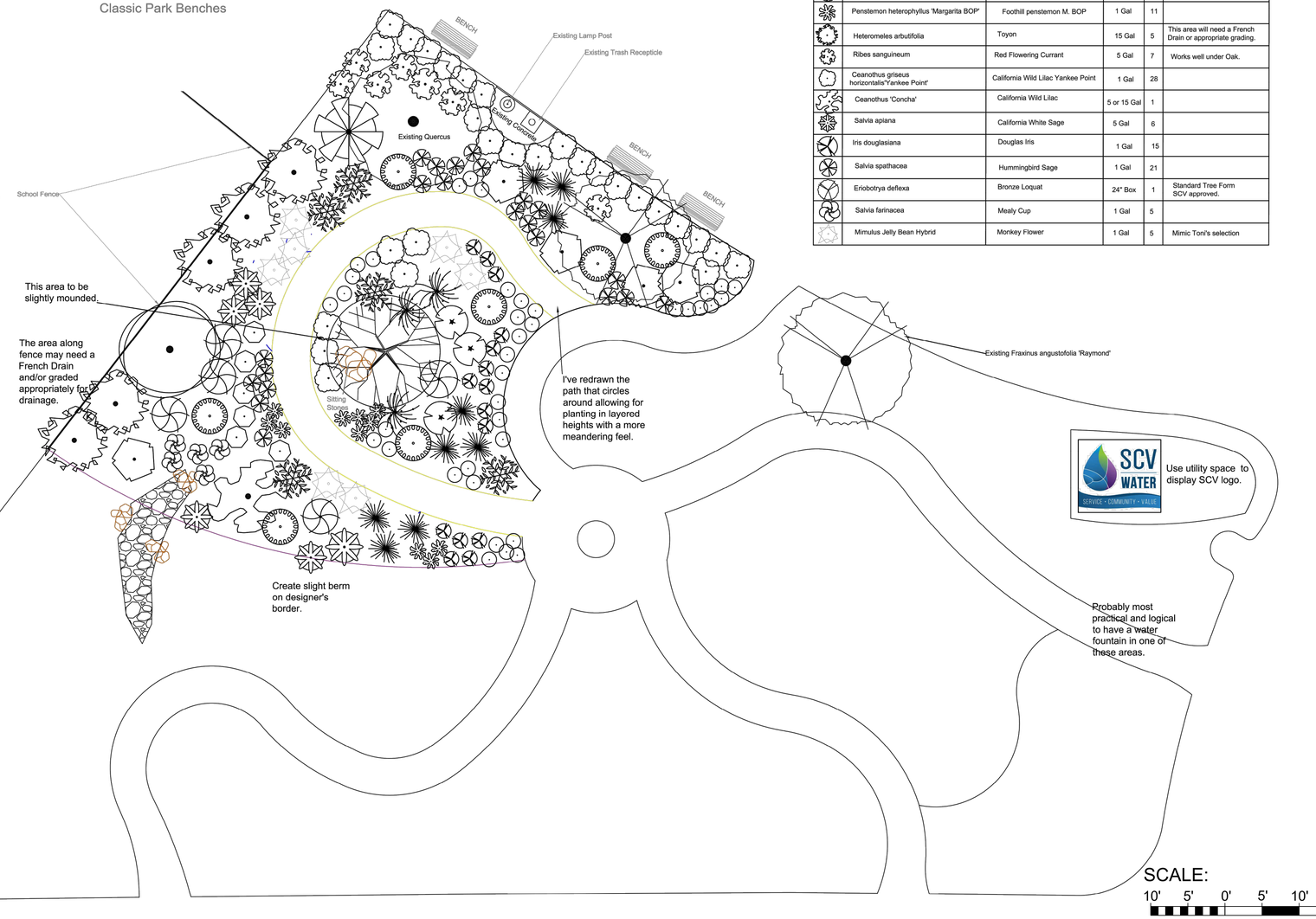
SHEET: C-02
3 OF 11

GARDEN NO. 1

12"-36" Yosemite Granite Boulders

Classic Park Benches

Hunter MP Rotors 800



PLANT LEGEND

	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	NOTES
	Calylophus hartwegii	Sundrops	1 Gal	38	Low growing border plants Western native.
	Dendromecon	Bush Poppy	15 Gal	1	Low growing border plants Western native.
	Rhus ovata	Sugarbush	15 Gal	1	
	Verbena lilacina	Cedros Island Verbena	1 Gal	6	
	Galvezia speciosa	Island Snapdragon	5 Gal	5	
	Trichostema lanatun	Blue Whooly Curls	5 Gal	3	Needs Excellent Drainage. Prep each planting hole with gravel base.
	Muhlenbergia rigens	Deer Grass	5 Gal	9	
	Zauschneria californica	Californica fuchsia	5 Gal	4	
	Encelia californica	Coast Sunflower	5 Gal	9	
	Salvia clevelandii	California Blue Sage	5 Gal	4	
	Hesperaloe parviflora	Red Yucca	5 Gal	3	
	Parkinsonia 'Desert Museum'	Palo Verde Desert Museum	24" Box	1	
	Penstemon heterophyllus 'Margarita BOP'	Foothill penstemon M. BOP	1 Gal	11	
	Heteromeles arbutifolia	Toyon	15 Gal	5	This area will need a French Drain or appropriate grading.
	Ribes sanguineum	Red Flowering Currant	5 Gal	7	Works well under Oak.
	Ceanothus griseus horizontalis'Yankee Point'	California Wild Lilac Yankee Point	1 Gal	28	
	Ceanothus 'Concha'	California Wild Lilac	5 or 15 Gal	1	
	Salvia apiana	California White Sage	5 Gal	6	
	Iris douglasiana	Douglas Iris	1 Gal	15	
	Salvia spathacea	Hummingbird Sage	1 Gal	21	
	Eriobotrya deflexa	Bronze Loquat	24" Box	1	Standard Tree Form SCV approved.
	Salvia farinacea	Mealy Cup	1 Gal	5	
	Mimulus Jelly Bean Hybrid	Monkey Flower	1 Gal	5	Mimic Toni's selection

REVISIONS	BY
December 10, 2019 - Draft	MBJ
January 16, 2020	MBJ

SCV
Bridgeport Pocket Park
Santa Clarita, CA

Songbird Garden Design
Mary Elizabeth - Landscape Designer
Newhall, CA
Tel: 818-854-5562

NORTH

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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1" = [redacted]
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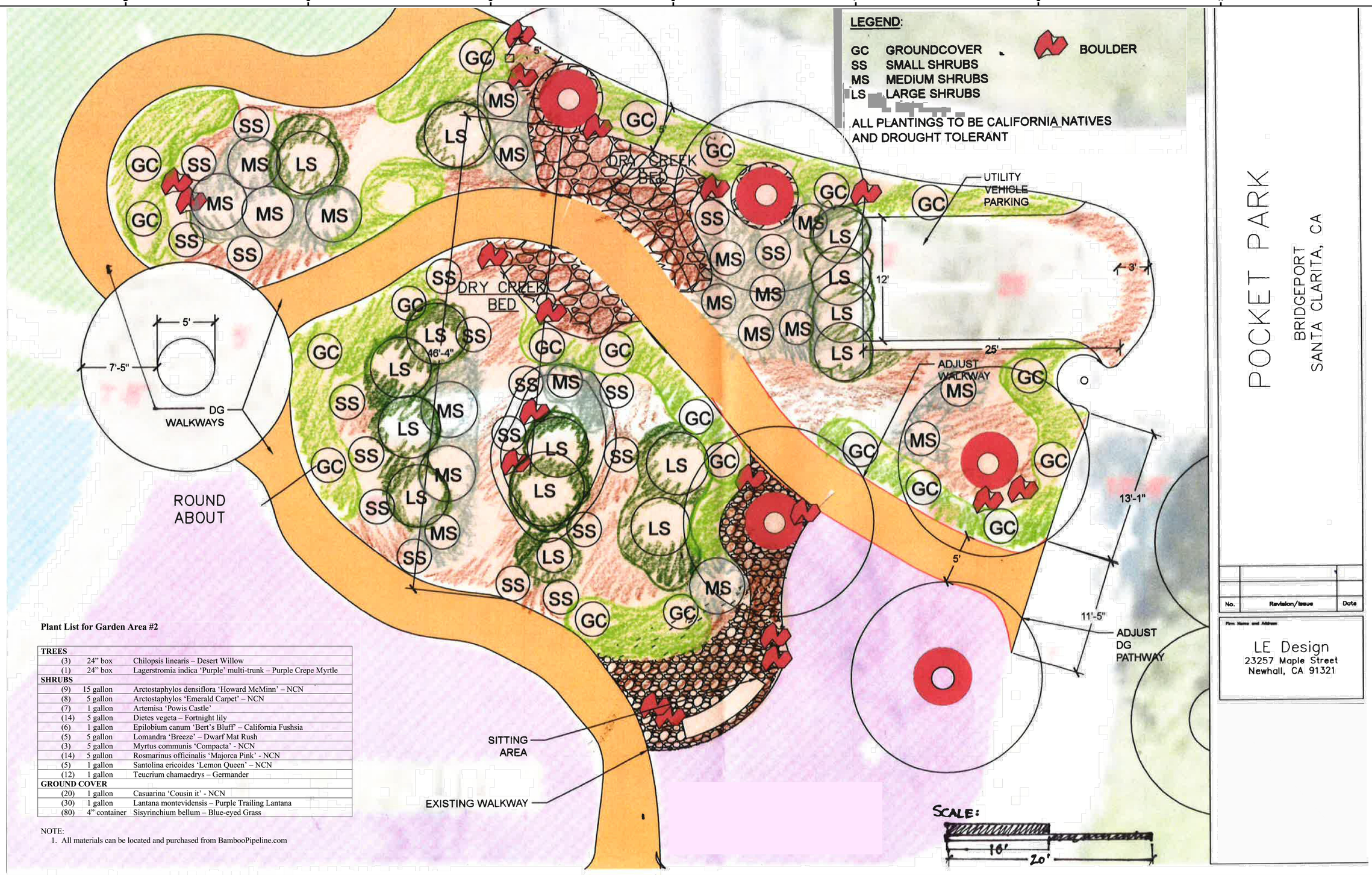
SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 297-1600

BRIDGEPORT POCKET PARK

LANDSCAPE PLAN
GARDEN AREA No. 1

DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: C-03
4 OF 11



Plant List for Garden Area #2

TREES		
(3)	24" box	Chilopsis linearis – Desert Willow
(1)	24" box	Lagerstromia indica 'Purple' multi-trunk – Purple Crepe Myrtle
SHRUBS		
(9)	15 gallon	Arctostaphylos densiflora 'Howard McMinn' – NCN
(8)	5 gallon	Arctostaphylos 'Emerald Carpet' – NCN
(7)	1 gallon	Artemisa 'Powis Castle'
(14)	5 gallon	Dietes vegeta – Fortnight lily
(6)	1 gallon	Epilobium canum 'Bert's Bluff' – California Fushsia
(5)	5 gallon	Lomandra 'Breeze' – Dwarf Mat Rush
(3)	5 gallon	Myrtus communis 'Compacta' - NCN
(14)	5 gallon	Rosmarinus officinalis 'Majorca Pink' - NCN
(5)	1 gallon	Santolina ericoides 'Lemon Queen' – NCN
(12)	1 gallon	Teucrium chamaedrys – Germander
GROUND COVER		
(20)	1 gallon	Casuarina 'Cousin it' - NCN
(30)	1 gallon	Lantana montevidensis – Purple Trailing Lantana
(80)	4" container	Sisyrinchium bellum – Blue-eyed Grass

NOTE:
1. All materials can be located and purchased from BambooPipeline.com

POCKET PARK

BRIDGEPORT
SANTA CLARITA, CA

No.	Revision/Issue	Date

Firm Name and Address
LE Design
23257 Maple Street
Newhall, CA 91321

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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SCV WATER

SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 297-1600

BRIDGEPORT POCKET PARK

LANDSCAPE PLAN
GARDEN AREA No. 2

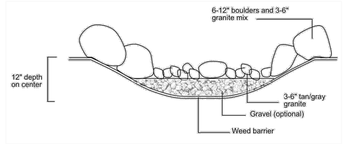
DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: C-04
5 OF 11

	BOTANICAL NAME	COMMON NAME	SIZE	QTY	NOTES
	Aloe striata	Coral Aloe	1g	3	
	Artemisia 'Powis Castle'	Wormwood	1g	4	
	Asclepias speciosa or fascicularis	Showy Milkweed	1g or seed	53	Winter dormant
	Baccharis pilularis 'Pigeon Point'	Dwarf Coyote Brush	5g	2	
	Calandrinia (Cistanthe) grandiflora	Rock Purslane	1g	7	
	Ceanothus 'Concha'	California Lilac	5 or 15g	2	Low summer water in morning only
	Chondropetalum elephantinum	Large Cape Rush	5g	3	
	Encelia californica	Coast Sunflower	1g	6	
	Eriogonum grande var. rubescens	Red Buckwheat	1g	17	
	Gaura lindheimerii	Gaura	1g	7	
	Heuchera 'Wendy'	Coral Bells	1g	22	
	Iris 'Grandma's Purple Flag'	Bearded Iris	1g	28	
	Leonotis leonurus	Lions Tail	5g	3	
	Mimulus 'Jelly Bean Yellow'	Monkeyflower	1g	7	
	Muhlenbergia dubia	Pine Muhly	1g	7	
	Penstemon astonii	Frinoscrator Penstemon	1g	7	
	Penstemon heterophylla 'Margarita BOP'	Purple Penstemon	1g	6	
	Rhamnus (Frangula) californica	Coffeeberry	5 or 15g	3	
	Rhus ovata	Sugarbush	5 or 15g	2	
	Salvia apiana	White Sage	1g	2	
	Salvia chamaedryoides	Germander Sage	1g	6	
	Salvia clevelandii 'Alpona' or 'Winnifred Gilman'	Alpine Cleveland Sage	1g	4	
	Salvia spathacea	Hummingbird Sage	1g	9	
	Symphoricarpos albus laevigatus	Snowberry	5g	3	Winter dormant
	Verbena lilacina 'de la Mina'	Cedros Island Verbena	1g	4	

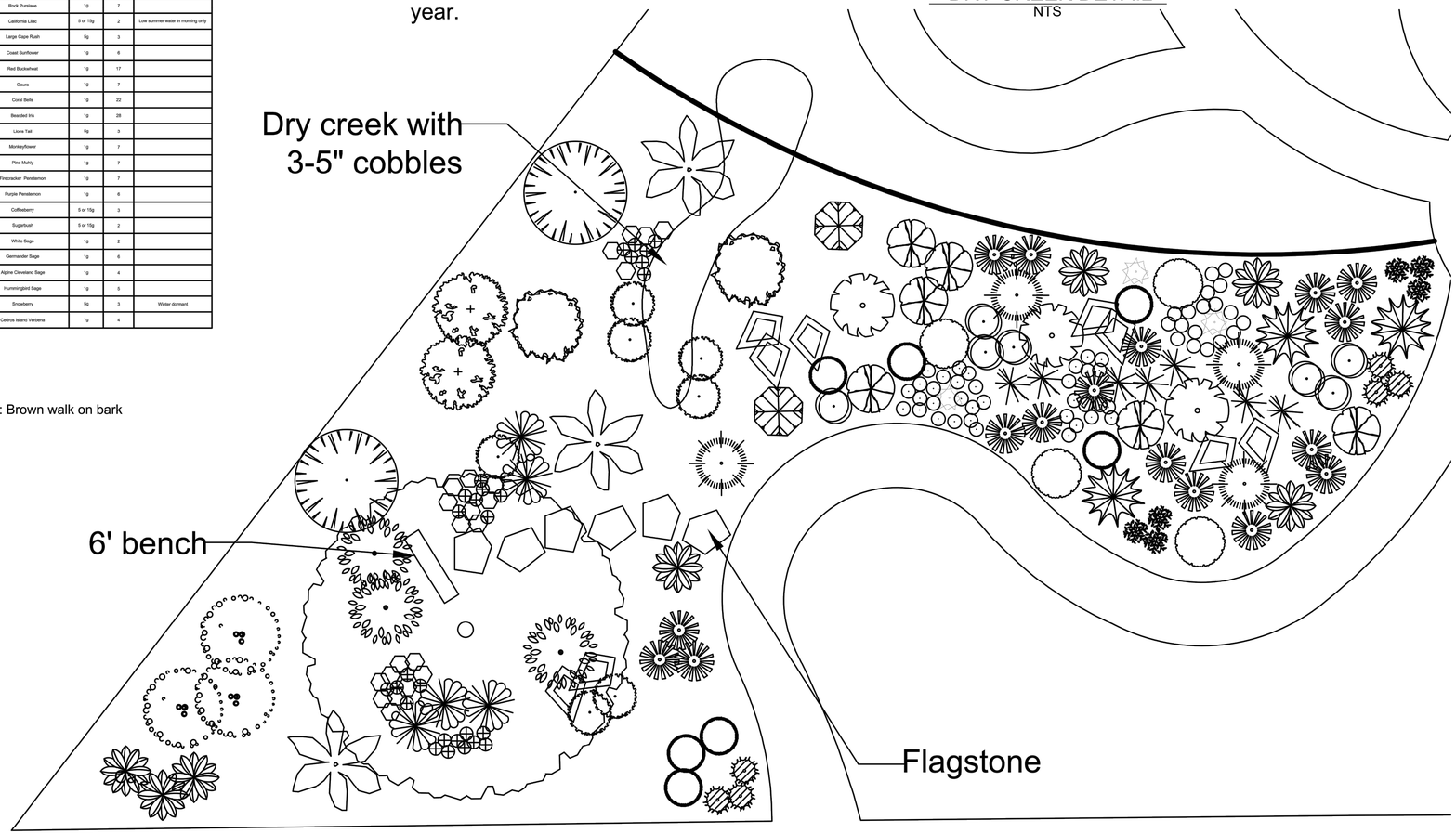
Boulders

Groundcover: Brown walk on bark

All plants are very low or low water. Most are natives and should be watered only occasionally in summer after the first year.



DRY CREEK DETAIL
NTS



Scale:

0 10' 20'

Physis Design
Santa Clarita, CA

Client:
SCV Water
27234 Bouquet Canyon
Sta Clarita, CA 91350

Date: 1/14/2020
Rev:

Designed by:
Toni Poque

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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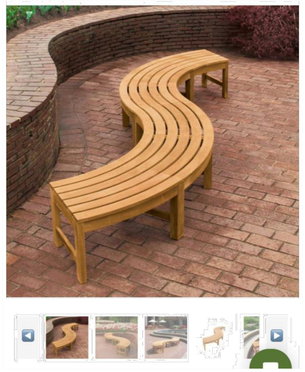
SCV WATER

SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 297-1600

BRIDGEPORT POCKET PARK

LANDSCAPE PLAN
GARDEN AREA No. 3

DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: C-05
6 OF 11



TETE A TETE BENCH DETAIL
NTS

The Grass Is Always Greener Designs
25339 Via Telino
Valencia, Ca. 91355
Julie Molinare
661-917-3521
julie@thegrassisalwaysgreener.net

Bridgeport Pocket Park
Plant List - Garden 4

		Qty	Name	Size	Nursery	Misc:
	TREES:					
1		1	Cercis occidentalis - Multi Multi Trunk Western Redbud	24" Box 15 Gal	Many options Poetlinks, ES, Green Thumb Yard	
	SHRUBS/ PERENNIALS:					
2		12	Achillea millefolium, Achillefolium 'Island Pink' & Achillea millefolium 'Paprika'	1 Gal	Worldwide Exotics	
3		3	Aloe 'Cynthia Giddy' Cynthia Giddy Aloe	5 Gal	151 or San Marcos	
4		1	Aloe variegata or Aloe nobrevidacea Variegated Aloe or Arabian Aloe	5 Gal	WME or San Marcos	
5		5	Aloe striatula Coral Aloe	5 Gal	151 or Green Thumb Yard	
6		12	Bahiana stricta Bahian Flower	1 Gal	Worldwide Exotics	
7	Cala	3	Calandrinia grandiflora Rock Purslane	1 Gal	Worldwide Exotics	
8		10	Calliophia Sun Drops	1 Gal	Green Thumb Yard	
9		9	Epilobium canum California Fuschia	1 Gal	Green Thumb Yard	
10		2	Gaura lindheimeri 'White' White Gaura	5 Gal 1 Gal	Worldwide Exotics	
11		7	Mimulus aurantiacus Sticky Monkeyflower	1 Gal	Green Thumb Yard	
12		17	Penstemon heterophylla 'Margarita BOP' Margarita BOP - Blond Firaxe	1 Gal	Green Thumb Yard	
13		6	Salvia chamaedryoides Germander Sage	5 Gal	Worldwide Exotics	
14		9	Sphaeralcea ambigua Desert Mallow	5 Gal 1 Gal	Worldwide Exotics	
15		4	Tritonia deusta Patchman's Footprints	1 Gal	Worldwide Exotics	
16		6	Verbena lilacina 'de la Mina' De La Mina Verbena	5 Gal	Green Thumb Yard	
	GRASSES/ GRASS-LIKE PLANTS:					
17		14	Bouteloua gracilis 'avalf' or B. gracilis 'Blond Ambition' Platinum Beauty Mat Rush	5 Gal	Green Thumb Yard	
18		12	Carex tumilicola Foothill Sedge	1 Gal	Green Thumb Yard	
19		12	Muhlenbergia capilaris Pink Muhly Grass	5 Gal	Green Thumb Yard	

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SCALES
1" = [redacted]
25MM = [redacted]
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

SCV WATER

SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 297-1600

BRIDGEPORT POCKET PARK

LANDSCAPE PLAN
GARDEN AREA No. 4

DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: C-06
7 OF 11

REVISIONS	BY
1/12/20	jsm

The Grass Is Always Greener Designs
Julie S. Molinare
25339 Via Telino
Valencia, Ca. 91355
ph 661-917-3521
julie@thegrassisalwaysgreener.net

Bridgeport Pocket Parks
Garden #4

PLANTING PLAN

Drawn by jsm
Checked by jsm
Date 12/12/19

IRRIGATION NOTES

1. ALL BASE INFORMATION HAS BEEN TAKEN FROM DRAWINGS PROVIDED BY OAKRIDGE LANDSCAPE AND AS-BUILT DRAWINGS OF THE EXISTING PARK IRRIGATION DRAWINGS.
2. REFER TO PROJECT SPECIFICATIONS FOR INSTALLATION AND MATERIAL REQUIREMENTS AND METHODOLOGY.
3. CONTRACTOR SHALL FIELD VERIFY PRESSURE AT POINT-OF-CONNECTION LOCATIONS FOR EACH TAP PRIOR TO ORDERING MATERIALS OR STARTING ANY IRRIGATION INSTALLATION AND NOTIFY CONSULTANT OF ANY DIFFERENCE OF 10 PSI.
4. SYSTEM HAS BEEN DESIGNED BASED ON THE STATIC WATER PRESSURE NOTED ON THE PLANS. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT OF THE STATIC PSI DIFFERENCE, HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS AS DIRECTED BY THE CONSULTANT.

	PSI	GPM	METER SIZE	TOTAL LANDSCAPED AREA
POC #15	100	xx GPM MAX. DEMAND (demonstration garden only)	3"	(existing irrigated area)

5. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND QUANTITY OF EXISTING STREET SLEEVES INSTALLED UNDER STREET IMPROVEMENT PACKAGE PRIOR TO INSTALLATION OF IRRIGATION SYSTEM , AND NOTIFY CONSULTANT OF ANY DIFFERENCES.
6. INSTALL IRRIGATION SLEEVES UNDER ALL SIDEWALKS PER THE FOLLOWING SCHEDULE:

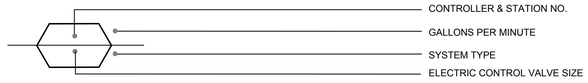
PIPE SIZE OR WIRE QUANTITY	REQUIRED SLEEVE(S)
WIRE SLEEVES	1-2" SDR 35 PVC

ALL OTHER SLEEVE SIZES SHALL BE 2X LARGER THAN PIPE AND SHALL BE SCH 40 PVC.

7. LATERAL PIPING SHALL BE INSTALLED 12" BELOW GRADE USING SCH 40 BE PIPE.
8. UTILIZE EXISTING VALVE LOCATIONS FOR THE NEW VALVES INDICATED. EXISTING VALVES LOCATION ARE APPROXIMATE AND ARE BASED ON THE LOCATIONS INDICATED ON THE AS-BUILT DRAWINGS. UTILIZE EXISTING VALVE WIRING AT EACH OF THESE LOCATIONS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NUMBER	DESCRIPTION	DETAIL No.	PSI	GPM	RADIUS	PRECIP.
a a	HUNTER HUNTER	MP3000 90° NOZ. PROS-12-PRS30-CV	MP ROTATOR NOZZLES ON 12" PRES. REG. POP-UP BODY	4 LI-5.01	40	0.86, 1.93	22-30' per spacing	0.43" / hr
a	HUNTER HUNTER	MP800 360° NOZ. PROS-12-PRS30-CV	MP ROTATOR NOZZLES ON 6" PRES. REG. POP-UP BODY	4 LI-5.01	40	0.23,0.42	6'-10' per spacing	0.83" / hr
b b	HUNTER HUNTER	MP3000 90° NOZ. PROS-12-PRS40-CV	MP ROTATOR NOZZLES ON 12" PRES. REG. POP-UP BODY	4 LI-5.01	40	0.86, 1.93	22-30' per spacing	0.43" / hr
b	HUNTER HUNTER	MP800 360° NOZ. PROS-12-PRS40-CV	MP ROTATOR NOZZLES ON 6" PRES. REG. POP-UP BODY	4 LI-5.01	40	0.23,0.42	6'-10' per spacing	0.83" / hr
c c	HUNTER HUNTER	MP3000 90° NOZ. PROS-12-CV	MP ROTATOR NOZZLES ON 12" PRES. REG. POP-UP BODY	4 LI-5.01	40	0.86, 1.93	22-30' per spacing	0.43" / hr
c	HUNTER HUNTER	MP800 360° NOZ. PROS-12-CV	MP ROTATOR NOZZLES ON 6" PRES. REG. POP-UP BODY	4 LI-5.01	40	0.23,0.42	6'-10' per spacing	0.83" / hr
②	HUNTER	RZWS-18-25	ROOT ZONE WATERING SYSTEM TWO (2) PER TREE	8 ON SHT. LI-6.01	30	0.25 EA. (TWO PER TREE)	0'	
— ·· —	APPROVED	SCH 40 BE - ALL 3/4"	PVC PURPLE TREE LATERAL PIPING TO SUPPLEMENTARY TREE IRRIGATION HEADS	1 - LI-5.01 8 - LI-5.03				
— — —	RAINBIRD	XFS-06-18-XX	IN LINE EMITTER TUBING 18" O.C. EMITTERS 18" O.C. ROW SPACING	5-7 LI-5.01	15	0.6 GPH	0'	0.43
— ⊥ —	RAINBIRD	XFF-TEE, XFF-ELBOW	SURFACE MOUNTED ELL, TEE OR CROSS CONNECTION	5-7 LI-5.01				
	AS DETAILED	AS DETAILED	PVC INTAKE/EXHAUST HEADER W/ XFF-MA-050 ADAPTER FITTINGS	5-7 LI-5.01				
⊕	BUCKNER/SUPERIOR	950 DWIB-100	DRIP VALVE ASSEMBLY	3 - LI-5.01				
◒	BUCKNER/SUPERIOR	950 PRS	CONTROL VALVE SEE PLANS FOR SIZE SET REGULATOR AT 50 PSI	2 - LI-5.01				
▽	PER DETAIL		DRIP LINE FLUSH VALVE	7 LI-5.02				
— — — — —	EXISTING	SCH 40 BE/CL 315	PRESSURE SUPPLY PIPING - SPEARS OR EQUAL			NOTE: ALL FITTINGS, NIPPLES AND UNIONS TO BE LASCO OR EQUAL		
———	APPROVED	SCH 40 BE	PVC LATERAL LINE (SIZE PER PLAN) (SEE NOTE #9) SPEARS OR EQUAL	1 - LI-5.01				
═══	APPROVED		PVC IRRIGATION SLEEVE FOR BELOW PAVING APPLICATIONS (SEE NOTE #4) SPEARS OR EQUAL	REFER TO NOTES				
⌖	RAINBIRD	AVR050	AIR/VACUUM RELIEF VALVE INSTALL AT HIGHEST POINT	29 LI-5.03				



NOTES:

1. *Refer to Sheet LI - 1 for Irrigation Schedule.*
2. *Refer to Sheet LI - 2 for Irrigation Plans.*
3. *Refer to Sheet LI - 3 for Irrigation Details.*
4. *Refer to Sheet LI- 4 for Irrigation Specifications*

ALL IRRIGATION CONTROL VALVES SHALL BE LOCATED IN SHRUB AREAS. SETBACK FROM FRONT EDGE OF EACH VALVE BOX IS TO BE A MINIMUM OF 1'-0" FROM THE EDGE OF PAVING OR TURF AREAS WHERE SPACE ALLOWS.

LATERAL PIPE SIZING IS INDICATED BY THE FOLLOWING SYMBOLS:

3/4" — I	1" — II	1-1/4"— III	1-1/2"— X	2" — V	2-1/2"— VI

ALL BUBBLER SYSTEM PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED AS 1".

Aqua Commercial Irrigation
810 Los Vallecitos Blvd., Suite 204
San Marcos, California 92069
Ph: (760)750-1900 Fax: (760)750-1999

ACI Irrigation Design, Planning & Water Management

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SCALES
0 1"
1 25Mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED BY:
DRAWN BY:
CHECKED BY:

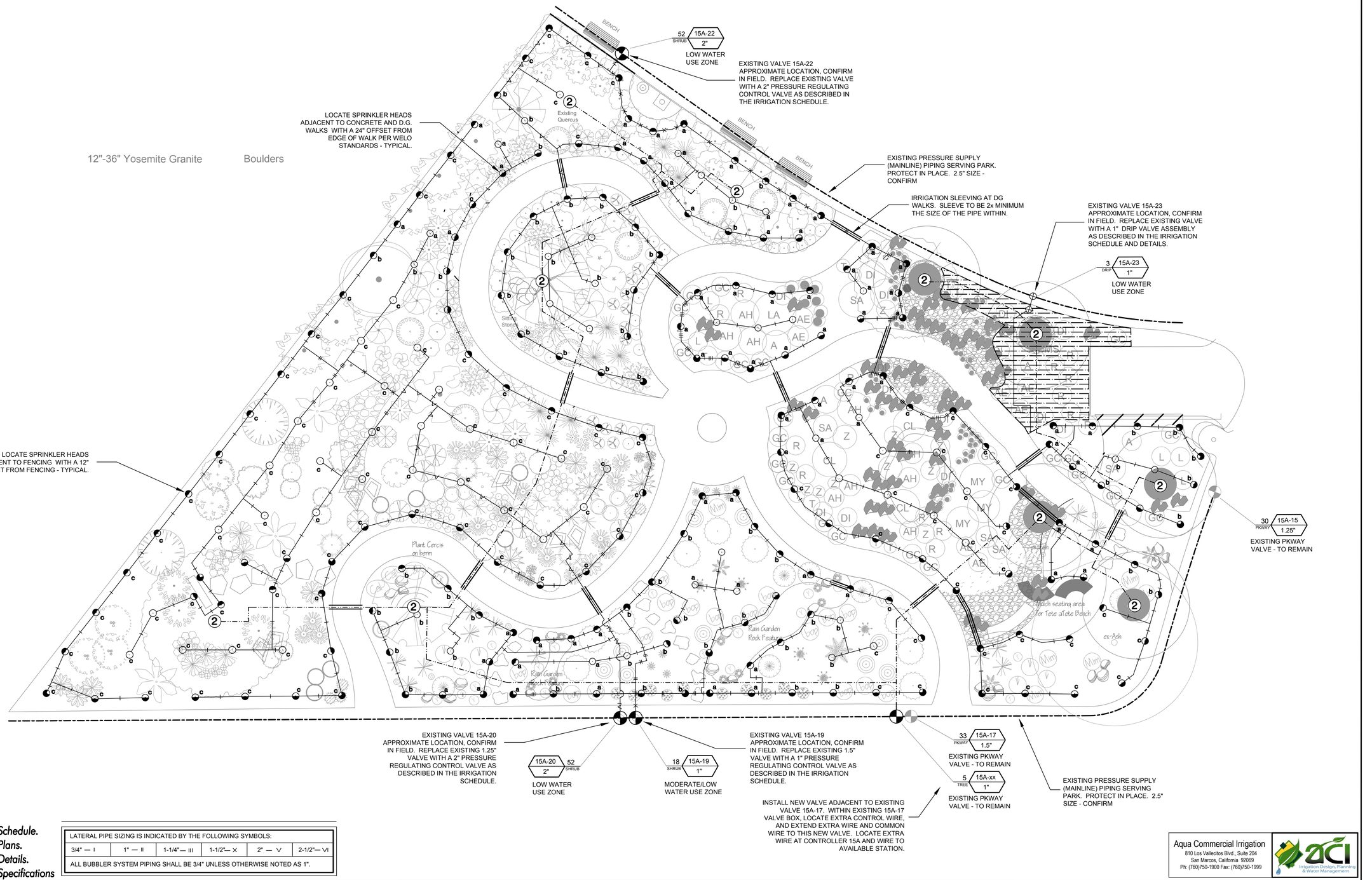
PLANS PREPARED BY:
OAKRIDGE LANDSCAPE

SCV WATER
SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 259-2737

BRIDGEPORT POCKET PARK

IRRIGATION SCHEDULE AND NOTES

DATE: AUGUST 2020
PROJECT NO: 200701
SHEET: LI-1
8 OF 11



NOTES:

1. *Refer to Sheet LI - 1 for Irrigation Schedule.*
2. *Refer to Sheet LI - 2 for Irrigation Plans.*
3. *Refer to Sheet LI - 3 for Irrigation Details.*
4. *Refer to Sheet LI- 4 for Irrigation Specifications*

LATERAL PIPE SIZING IS INDICATED BY THE FOLLOWING SYMBOLS:					
3/4" — I	1" — II	1-1/4" — III	1-1/2"— X	2" — V	2-1/2"— VI
ALL BUBBLER SYSTEM PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED AS 1".					

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San Marcos, California 92069
Ph: (760)750-1900 Fax: (760)750-1999
aci Irrigation Design, Planning & Water Management

REVISIONS

NO.	DESCRIPTION	DATE	BY

SCALES
1" 25MM
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY

DESIGNED BY:
DRAWN BY:
CHECKED BY:

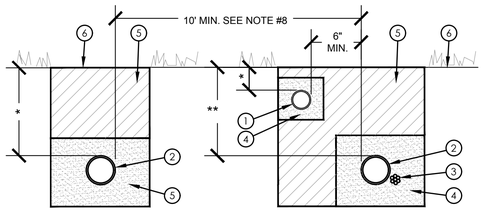
PLANS PREPARED BY:
OAKRIDGE LANDSCAPE

SCV WATER
SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 259-2737

BRIDGEPORT POCKET PARK

IRRIGATION PLAN

DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: LI-2
9 OF 11



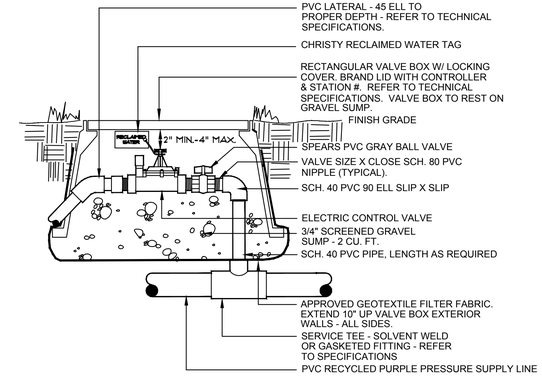
LEGEND

1. NON-PRESSURE LATERAL LINE PIPING.
2. PRESSURE MAINLINE PIPING FOR POTABLE WATER.
3. CONTROL WIRE-BUNDLE AND TAPE EVERY 10 FEET. INSTALL ADJACENT TO PRESSURE MAINLINE.
4. PROVIDE CLEAN BACKFILL 2' UNDER AND 4" AROUND PIPE.
5. SEE IRRIGATION SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS.
6. FINISH GRADE.

* 12" MINIMUM BACKFILL DEPTH FOR NON-PRESSURE LATERAL LINES

** MINIMUM BACKFILL DEPTHS FROM GRADE TO TOP OF MAINLINE:
24" FOR PIPE SIZES 3" AND LARGER.
18" FOR PIPE SIZES 2 1/2" AND SMALLER.

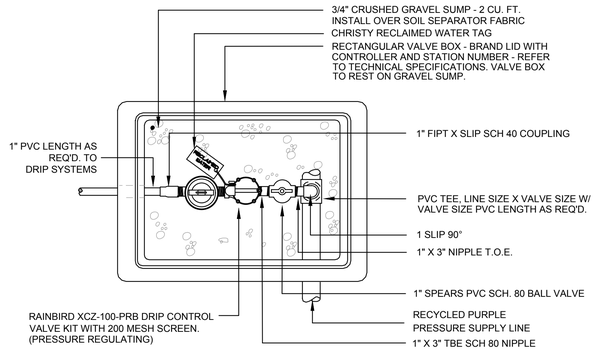
1 TRENCHING
NTS



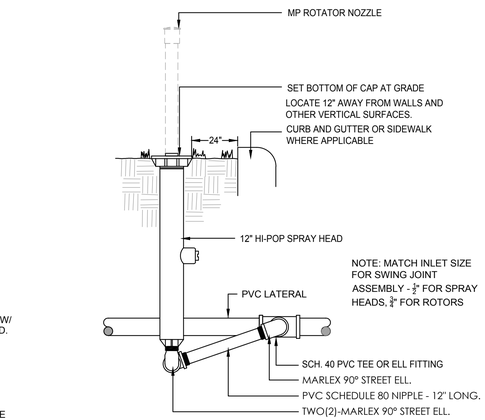
1. NOTE: DIAMETERS OF RISER, FITTINGS, BALL VALVE AND NIPPLE SHALL EQUAL CONTROL VALVE DIAMETER. LOOP 2-WIRE PATH FROM CONTROLLER INSIDE EACH VALVE BOX-24" DIAMETER LOOP (MIN.)
2. ALL WIRING TO BE INSTALLED PER LOCAL CODE.
3. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION W/IN VALVE BOX (WRAP AROUND 1/2" PIPE 15 TIMES, REMOVE PIPE)
4. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. REFER TO DETAIL #19 ON SHEET LI-5.02 FOR VALVE DECODER, WIRING AND GROUNDING REQUIREMENTS.

2 ELECTRIC CONTROL VALVE
NTS

NOTE:
1. INSTALL ASSEMBLY TO REST ON GRAVEL SUMP. SUMP TO BE LINED WITH ONE CONTINUOUS PIECE OF GEOTEXTILE FILTER FABRIC EXTENDING FABRIC 10" UP ALL EXTERIOR SIDES OF VALVE BOX. VALVE BOX TO BE SET FLUSH WITH FINISH GRADE. ENTIRE VALVE ASSEMBLY TO BE CONTAINED AND CENTERED WITHIN VALVE BOX. NO PART OF ASSEMBLY TO CONTACT BOX LID. DO NOT CUT BOX. PROVIDE 12" DIAMETER LOOP (MIN.) OF SPARE WIRES FROM CONTROLLER INSIDE EACH VALVE BOX. VALVE BOXES TO BE SPACED EVENLY FROM WALK OR CURB AND FROM EACH OTHER. BOLT HOLE IN BOX TO FACE CURB OR WALK.
2. REFER TO ADJACENT DETAIL #2 FOR VALVE BOX INSTALLATION AND ADDITIONAL INFORMATION



3 DRIP VALVE
NTS



USE DURA-PLASTICS OR EQUAL FOR THE STREET ELLS INDICATED.

USE TEFLON TAPE ON ALL THREADED CONNECTIONS UNLESS SPECIFICALLY INDICATED BY THE MANUFACTURER OF THE COMPONENT TO NOT USE TEFLON TAPE.

4 12" POP-UP SPRINKLER
NTS

NOTE:
FOR TURF APPLICATION USE NETAFIM CV TUBING DESCRIBED IN THE IRRIGARTION SCHEDULE. NETAFIM TUBING TO BE BURIED 4" BELOW FINISH GRADE

5 DRIP INTAKE HEADER MANIFOLD
NTS

NOTE: TUBING SHALL BE STAPLED TO THE SOIL SURFACE 3' O.C. ALONG EACH TUBING LENGTH WITH 6" LONG SOIL STAPLES OR 6" LONG JUTTE MATT STAKES.

6 IN-LINE EMITTER TUBING IRRIGATION LAYOUT
NTS
SHRUB DRIP CONDITION

NOTE:
FOR TURF APPLICATION NETAFIM TECHLINE TUBING TO BE BURIED 4" BELOW FINISH GRADE

7 DRIP EXHAUST HEADER MANIFOLD - FLUSH VALVE
NTS

NOTES:
1. *Refer to Sheet LI - 1 for Irrigation Schedule.*
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4. *Refer to Sheet LI- 4 for Irrigation Specifications*

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Ph: (760)750-1900 Fax: (760)750-1999
ACI Irrigation Design, Planning & Water Management

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SCALES
1" 1"
1" 20M
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED BY:
DRAWN BY:
CHECKED BY:

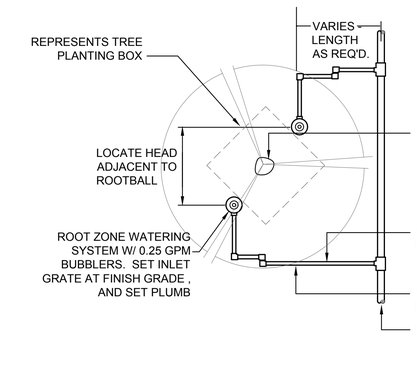
PLANS PREPARED BY:
OAKRIDGE LANDSCAPE

SCV WATER
SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 259-2737

BRIDGEPORT POCKET PARK

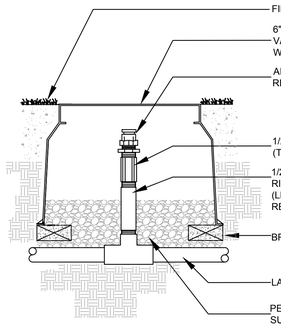
IRRIGATION DETAILS

DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: LI-3
10 OF 11



SUPPLEMENTAL TREE IRRIGATION (24" BOX AND LARGER)

8 **NTS**



NOTE:
LOCATION NOT SHOWN ON PLAN. INSTALL AT HIGHEST POINT IN SUBSURFACE ECO-MAT SYSTEM.

AIR RELIEF VALVE FOR ECO-MAT

9 **NTS**

NOTES:

1. *Refer to Sheet LI - 1 for Irrigation Schedule.*
2. *Refer to Sheet LI - 2 for Irrigation Plans.*
3. *Refer to Sheet LI - 3 for Irrigation Details.*
4. *Refer to Sheet LI- 4 for Irrigation Specifications*

SECTION 02810
IRRIGATION SYSTEM

PART I - GENERAL

1.01 WORK INCLUDED - Work of this Section generally includes provision of an underground irrigation system including the following:

A. Trenching, stockpiling excavation materials, and refilling trenches.
B. Complete system including but not limited to piping, valves, fittings, heads, controller wiring and final adjustments to insure efficient coverage as determined by Consultant.
C. Water Connections.
D. Replacement of unsatisfactory materials.
E. Clean up, inspection, and approval.
F. Tests.

1.02 REFERENCES

A. Perform Work in accordance with requirements of Conditions of the Contract and division 01 - General Requirements as well as provisions of all applicable laws, codes, ordinances, rules, and regulations.
B. Conform to requirements of reference information listed below except where more stringent requirements are shown or specified in Contract Documents.
1. American Society for Testing and Materials (ASTM)-Specifications and Test Methods specifically referenced in this Section.
2. Underwriters Laboratories (UL) - UL Wires and Cables.

1.03 QUALITY ASSURANCE

A. Special Requirements:
1. Tolerances - Specified depths of pressure supply lines and laterals and pitch of pipes are minimums. Settlement of trenches is cause for removal of finish grade treatment, refilling, recompaction, and repair of finish grade treatment.
2. Coordination With Other Contracts - Protect, maintain, and coordinate Work with Work under other Sections.
3. Damage To Other Improvements - Contractor shall replace or repair damage to grading, finish surfaces, soil preparation, seeding, sodding, or planting done under other Sections during work associated with installation of irrigation system at no additional cost to Owner.
4. Work involving substantial plumbing for installation of backflow preventers, copper service and related work shall be executed by licensed and bonded plumber(s), performed in accordance with prevailing codes and regulations.
5. Work involving connection to, installation, or extension of 120 volt or greater electrical service, shall be executed by a licensed and bonded electrician, performed in accordance with prevailing codes and regulations.

1.04 SUBMITTALS - Prepare and make submittals in accordance with conditions of the Contract.

A. Submit all products to Owner for approval.
B. Controller Drawings
1. Provide one controller drawing for each automatic controller installed.
a. Controller drawing may be same size reproduction of record drawing, if scale permits fitting inside controller door without folding drawing. If photo reduction prints are required, keep reduction to maximum size possible to retain full legibility.
b. Controller drawing shall be blueline print of actual "as-built" system, showing area covered by that controller.
c. Identify area of coverage of each remote control valve, using a distinctly different pastel color for each zone. Highlight heads, lateral piping, and control valves.
d. Following review of controller drawings by Consultant, hermetically seal each drawing between two layers of 20 mil thick clear plastic.
e. Controller drawings shall be completed and approved by Consultant prior to final completion walk-through of irrigation system.
f. Attach approved controller drawing to inside of each controller door using self-adhesive Velcro strips.
C. Operation Manual
See Section 01700 Contract Closeout, Paragraph 1.07, for description and timing of Operation Manual submittal. Include the following information:
1. Index sheet stating project name, and listing company, address, phone number and contact person of Owner, Landscape Architect and Contractor, including Primary Subcontractors.
2. Manufacturer Technical Manual for controllers.

1.05 DELIVERY, STORAGE, and HANDLING - Deliver, unload, store, and handle materials, packaging, bundling, products, in dry, weatherproof, waterproof condition in manner to prevent damage, breakage, deterioration, intrusion, ignition, and vandalism. Deliver in original unopened packaging containers prominently displaying manufacturer name, volume, quantity, contents, instructions, and conformance to local, state, and federal law. Remove and replace cracked, broken, or contaminated items or elements prematurely exposed to moisture, inclement weather, snow, ice, temperature extremes, fire, or jobsite damage.

A. Handling of PVC Pipe - Exercise care in handling, loading and storing of PVC pipe. All PVC pipe shall be transported in a vehicle which allows length of pipe to lie flat so as not to subject it to undue bending or concentrated external loads. All sections of pipe that have been dented or damaged shall be discarded, and if installed, shall be removed and replaced with new piping.

1.06 JOB SITE CONDITIONS

A. Protection of Property:
1. Preserve and protect all trees, plants, monuments, structures, and paved areas from damage due to Work of this Section. In the event damage does occur, all damage to inanimate items shall be completely repaired or replaced to satisfaction of Owner. All injury to living plants shall be repaired by Owner, and all costs of such repairs shall be charged to and paid by Contractor.
2. Protect buildings, walks, walls, and other property from damage. Barricade open trenches. Damage caused to asphalt, concrete, or other building material surfaces shall be repaired or replaced at no cost to Owner. Restore disturbed areas to original condition.

B. Existing Trees:
1. All trenching or other Work under limb spread of any and all trees shall be done by hand or by other methods so as to prevent damage to limbs or branches.
2. Where it is necessary to excavate adjacent to existing trees, use all possible care to avoid injury to trees and tree roots. Excavation, in areas where two inch and larger roots occur, shall be done by hand. Roots two inches or larger in diameter, except directly in the path of pipe of conduit, shall be tunneled under and shall be heavily wrapped with burlap to prevent scarring or excessive drying. Where a trenching machine is operated close to trees having roots smaller than two inches in diameter, wall of trench adjacent to tree shall be hand trimmed, making clean cuts through roots. Roots one inch and larger in diameter shall be painted with two coats of "Tree Seal". Trenches adjacent to trees shall be closed within 24 hours, and when this is not possible, side of trench adjacent to tree shall be kept shaded with moistened burlap or canvas.

C Protection and Repair of Underground Lines
1. Request proper utility company to stake exact location (including depth) of all underground electric, gas, or telephone lines. Take whatever precautions are necessary to protect these underground lines from damage. In the event damage does occur, all damage shall be repaired by Contractor, and all costs of such repairs shall be paid by Contractor unless other arrangements have been made.

D. Replacement of Paving and Curbs - Where trenches and lines cross existing roadways, paths, curbing, etc., damage to these shall be kept to a minimum and shall be restored to original condition as deemed acceptable by Owner's Representative.

1.07 WARRANTY/GUARANTY - Contractor shall warrant materials against defects for a period of one year from date of Substantial Completion. Contractor shall guarantee workmanship for similar period. Contractor shall be responsible for coordinating material warranty items with manufacturer/distributor.

A. Settling of backfilled trenches, which may occur during guaranty period, shall be repaired by contractor at no expense to Owner, including complete restoration of damaged property and landscape improvements.
B. Expenses due to vandalism before substantial completion shall be borne by Contractor.
C. Owner or Representative Maintenance Company will maintain turf and planting areas during warranty period, so as not to hamper proper operation of irrigation system.

1.08 MAINTENANCE

A. Furnish the following maintenance items to Owner prior to final Acceptance:
1. 2 Sets of special tools required for removing, disassembling, and adjusting each type of sprinkler head and valve supplied on this Project.
2. Two 6-foot valve keys for operation of gate valves or stop and waste valves (if applicable).
3. 2 keys for each automatic controller.
4. 5 sprinkler bodies of each size/type used.
5. 200' of drip line of the type specified.

PART II - PRODUCTS

2.01 MATERIALS:

A. General Piping:
1. Recycled Water Pressure Supply Lines - Schedule 40BE (1" - 1 1/2"), Class 315BE (2"- 2-1/2"), Class 200 Gasketed (3" and larger).
2. Non-pressure Lines - Schedule 40BE.
3. Drip Tubing (3/4") – Hunter PLD In Line Emitter Tubing.
4. Emitter tubing (1/4") – Hardie EHD 0437- DURA-POL Hose.
5. Blow-Out tubing (1/2") – Salco ½" A/R PVC flex hose
B. Plastic Pipe and Fittings:
1. Identification Markings:
a. All pipe to be identified with following indelible markings:
1) Manufacturer's name.
2) Nominal pipe size.
3) Schedule of class.
4) Pressure rating.
5) NSF (National Sanitation Foundation) seal of approval.
6) Date of extrusion.
7) The words "CAUTION RECLAIMED WATER" printed every 24" on two sides of the pipe. Reclaimed (non-potable) Water Pressure Supply Lines only.
8) Reclaimed (non-potable) Water Pressure Supply Line shall have an integral purple color.
2. Solvent Weld Pipe - Manufactured from virgin polyvinyl chloride (PVC) compound in accordance with ASTM D2241 and ASTM D1784; cell classification 12454-B, Type 1, Grade 1.
a. Fittings - Standard weight, Schedule 40, injection molded PVC; complying with ASTM D1784 and D2466, cell classification 12454-B.
1) Threads - Injection molded type (where required).
2) Tees and ells - Side gated.
b. Threaded Nipples - ASTM D2464, Schedule 80 with molded threads.
c. Joint Cement and Primer - Type as recommended by manufacturer of pipe and fittings.
3. Gasketed End Pipe - Manufactured from virgin polyvinyl chloride compound in accordance with ASTM D2241 and ASTM D1784; cell classification 12454-B, Type 1, Grade 1.
a. Fittings - Ductile iron with push-on joints or mechanical joint.
b. Gaskets - Factory installed in pipe and fittings, having a metal or plastic support within gasket or a plastic retainer ring for gasket.
c. Lubricant - As recommended by manufacturer of pipe fittings.

C. Low Pressure/Volume Systems:
1. Emitter Tubing as indicated on drawings.
2. Drip Tubing - Manufactured of UV resistant flexible vinyl chloride compound conforming to ASTM D1248, Type 1, Class C, Category 4, P14 and ASTM D3350 for PE 1221110.
3. Fittings - As recommended by tubing manufacturer.
4. Drip Valve Assembly - Type and size shown on drawings.
a. Wye Strainer - Plastic/fiberglass construction with 200-mesh nylon screen, manufactured by Hunter Industries, Inc. Size as noted on drawings.
b. Control Valve - 2 way, solenoid pilot operated type made of synthetic, non-corrosive material; diaphragm activated and slow closing. Include freely pivoted seat seal; installed (mounted) without attachment to diaphragm.
c. Pressure Reducing Valve - Plastic construction with pre-set pressure regulation and sized for zone flow rate.

D. Copper Pipe and Fittings:
1. Copper Pipe - Type 'K' hard tempered.
2. Fittings - Wrought copper, solder joint type.
3. Joints - Soldered with solder, 45% silver, 15% copper, 16% zinc, and 24% cadmium and solidus at 1125° F and liquids at 1145° F.

E. Gate Valves:
1. Gate Valves for 3/4 inch through 2-1/2 Inch Pipe - Brass construction; solid wedge, IPS threads, and non-rising stem with wheel operating handle.
2. Gate Valves for 3 inch and Larger Pipe - Iron body, brass or bronze mounted AWWA gate valves with a clear waterway equal to full nominal diameter of valve; rubber gasket or mechanical joint-type only. Valves shall be able to withstand a continuous working pressure of 150 PSI and be equipped with a square operating nut.

F. Valve Boxes:
1. Gate Valves, Drip Line Blow-out Stubs, and Wire Stub Box - Carson #910-10-4 w/ non-bolt down cover.
2. 3/4 Inch through 2-Inch Control Valves - Carson #1419-12-33B w/ bolt down cover.
3. Drip Valve Assemblies - Carson #1419-12-3B w/ bolt down cover.
4. Control Wiring Splices - Carson #910-12-3B w/ bolt down cover.
4. Master Valve – Rectangular with extension (see construction details).
5. Provide stainless steel bolts for valve box covers where required and indicated above.

G. Electrical Control Wiring:
1. Low Voltage:
a. Electrical Control Wire - AWG UF UL approved No. 14 gauge direct burial copper wire for all control wires, and No. 12 gauge direct burial copper wire for all common wires.
b. Wire Colors:
1) Control Wires - Red.
2) Common Wires – White Controller 'A', White with Black Stripe Controller 'B'.
3) Master Valve Wires - Blue.
4) Spare Wires - Green (labeled at terminations).
5) Future Wires - Same as control and common wire (labeled at terminations).
c. Control wire connections and splices shall be made with 3M direct bury splice, Rain Bird Pentite connectors, or similar dry splice method.
2. High Voltage - Type required by local codes and ordinances, of proper size to accommodate needs of equipment serviced.

H. Electric Control Valves - As indicated on drawings.
I. Sprinkler Heads - As indicated on drawings. Fabricate riser/swing joint units in accordance with details on Drawings - with riser nipples of same size as riser opening in sprinkler body.
J. Controller - As indicated on drawings.
K. Emitters and Emitter Components – As indicated on the Drawings.

PART III - EXECUTION

3.01 INSPECTION - Examine areas and conditions under which Work of this Section is to be performed. Do not proceed with Work until unsatisfactory conditions have been corrected.

A. Grading operations, with the exception of final grading, shall be completed and approved by Owner prior to staking or installation of any portion of irrigation system except sleeving.

3.02 PREPARATION

A. Staking shall Occur as Fellows:
1. Mark with powdered lime or marking paint, routing of pressure supply line and flag heads and control valve locations for first series of zones as directed by Landscape Architect. Contact Landscape Architect 48 hours in advance and request review of staking. Landscape Architect will review staking and direct changes if required. Staking review does not relieve installer from coverage problems due to improper placement of heads after staking.
B. Install sleeving under asphalt paving and concrete walks, prior to concreting and paving operations, to accommodate piping and wiring. Compact backfill around sleeves to 95% Standard Proctor Density within 2% of optimum moisture content in accordance with ASTM D1557.
C. Trenching - Trench excavation shall follow, as much as possible, layout shown on Drawing. Dig trenches straight and support pipe continuously on bottom of trench. Trench bottom shall be clean and smooth with all rock and organic debris removed. Pressure supply line trenches shall be over-excavated as required to allow for bedding material. Trench depth shall be uniform as required to meet minimum depth requirements for type of piping.
1. Clearances:
a. Piping Smaller than 3 Inches - Trenches shall have a minimum width of 7 inches.
b. Line Clearance - Provide not less than 6 inches of clearance between each line and not less than 12 inches of clearance between lines of other trades.
2. Pipe and Wire Depth:
a. Pressure Supply Piping - 18 inches from top of pipe.
b. Non-pressure Piping (drip main laterals) - 12 inches from top of pipe.
c. Non-pressure Piping (drip emitter tubing and side laterals) - 12 inches from top of pipe.
d. Control Wiring - Side and bottom of pressure supply line.
3. Boring will be permitted only where pipe must pass under obstruction(s), which cannot be removed, and must be approved by consultant if not specifically indicated on construction drawings. Final density of backfill shall match that of surrounding soil. Use of sleeves of suitable diameter is acceptable if installed first by jacking or boring, and pipe laid through sleeves. Observe same precautions as though pipe were installed in open trench.
4. Refer to drawings for sleeving schedule and sizing requirements.
5. Install vertical piping as required to reach correct piping depth when sleeving into walled planters.

3.03 INSTALLATION - Locate other equipment as near as possible to locations designated on construction drawings. Deviations shall be approved by Consultant prior to installation.

A. PVC Piping
1. Snake pipe in trench as much as possible to allow for expansion and contraction.
2. When pipe laying is not in progress, or at end of each day, close pipe ends with tight plug or cap. [Perform work in accordance with good practices prevailing in piping trades].
3. Coordinate pressure supply line installation with required bedding operations.
4. Stake all above grade PVC piping per details.
5. Use 45° ells when making perpendicular crossings of above grade PVC piping, to depress bottom pipe.
6. Lay pipe and make all plastic to plastic joints in accordance with manufacturer's recommendations.
7. Gasketed End Pipes:
a. Lay pipe and make pipe to fitting or pipe to pipe joint, following 0R70 recommendations (Johns-Manville Guide for Installation of Ring-Tite Pipe), or pipe manufacturer's recommendations.
b. Construct thrust blocks behind all gasketed fittings, tees, bends, reducers, line valves, and caps in accordance with pipe manufacturer's recommendations. Contact Consultant prior to placing thrust blocks, for observation of thrust block excavation and initial placement. Size thrust blocks based on following table:

THRUST BLOCK SIZING GUIDE:

Divide soil bearing strength by thrust developed for specific fitting size to determine minimum size (Ft./2) of each thrust block. No thrust block shall be smaller than 1 Ft./2.

Thrust developed per 100-PSI pressure (lbs. force) for various fitting configurations.

Pipe Size	Fitting 90 Elbow	Fitting 45 Elbow	Valves, Tees Dead Ends
1 1/2"	300	200	200
2"	500	300	400
3"	1,000	600	800
4"	1,800	1,100	1,300

APPROXIMATE BEARING STRENGTH OF TYPICAL SOILS.

Soil Type	Lbs/Ft.2
Mulch, Peat, etc.	0
Soft Clay	500
Sand	1,000
Sand and Gravel	1,500
Sand and Gravel With Clay	2,000
Sand and Gravel Cemented with Clay	4,000
Hard Pan	5,000

B. Drip Tubing
1. Install fitting connections per manufacturer's recommendations.
2. Install drip tubing on the surface as detailed. Only intake and exhaust manifolds shall be installed below grade at 12" deep, with riser and adapter assemblies extending to grade level.
3. Tubing shall be installed in parallel, evenly spaced rows as indicated on the drawings. Distance between rows shall not doveiate more then 1" from row to row.
4. Staple tubing to soil surface at minimum of 3' on center or as detailed.
5. Install drip line blowout stubs at all dead ends of drip tubing.
6. Any deviations from drip tube routing shown on drawings must be approved by Consultant prior to installation. Any changes exceeding a 5% increase in the length of the drip tubing, or the tie in placement of the pvc/poly adapter indicated on the drawings must be approved by the Consultant prior to installation.

C. Control Wiring
1. Low Voltage Wiring:
a. Bury control wiring between controller and electric valves in pressure supply line trenches, with wires consistently located below and to one side of pipe, on top of initial pipe bedding, or in separate trenches.
b. Bundle all 24 volt wires at 10 foot intervals with electrical or duct tape.
c. Provide an expansion loop at pressure supply line angle fittings, every electric control valve location (in valve box), and at minimum 500 feet intervals. Form expansion loop by wrapping wire at least 8 times around a 3/4 inch pipe and withdrawing pipe.
d. Make splices and electric control valve connections using Rainbird Pentite connectors or similar dry splice method.
e. Install control wire splices not occurring at control valve in a separate splice valve box.
f. Install one control wire for each control valve.
g. Run two spare #14-1 control wires from controller pedestal to last electric control valve operated by controller on each and every leg of pressure supply line. Label spare wires at controller and wire stub box. Loop a minimum of 24" from all spare wires inside every control valve box operated by controller.
h. Run all future control wires from controller pedestal to point indicated on drawings. Coil a minimum of ten (10) feet at termination and install in 10" round valve box. Label all wires at termination.
2. High Voltage Wiring for Automatic Controller
a. Provide 120 volt power connection to automatic controller. 120 volt power connection must be made by a licensed Electrician.

D. Controller
1. Install controller in accordance with manufacturer's instructions as detailed and where shown on Drawings.
2. Connect remote control valves to controller in numerical sequence as shown on Drawings.
3. Final location of controller shall be approved by Consultant prior to installation.
4. Each controller shall be grounded per the NEC.
5. Above ground conduit shall be rigid galvanized with appropriate fittings. Below ground conduit shall be schedule 40 PVC.
6. Run two (2) 14 ga ULUF wire from flow sensor terminal to each flow sensor indicated, and connect as detailed.

E. Electric Control Valves
1. Install cross handle 2 inches below finished grade where shown on Drawings and as detailed.
2. When grouped together, allow at least 12 inches between valve box sides.
3. Install each remote control valve in a separate valve box.
4. Install individual valve box flush with grade.
5. When parallel to roadway, sidewalk, or other permanent element or structure, control valve and box to be installed perpendicular to element or structure, spaced equally.

F. Drip Valve Assemblies - Install drip valve assembly as detailed and as described above in the section titled "Electric Control Valves".

G. Sprinkler Heads
1. Install sprinkler heads where designated on Drawings or where staked. Spacing of heads shall not exceed the maximum indicated on Drawing unless re-staked as directed by Consultant. In no case shall the spacing exceed maximum recommended by manufacturer.
2. Set plumb to finish grade as detailed. Install heads on double swing-joint risers of schedule as detailed on 4" and 6" pop-up bodies. Install flexible swing joint as detailed on 12" pop-up bodies. Angled nipple relative to non-pressure line shall be no more than 45 degrees or less than 10 degrees. Adjust heads to correct height after sod is installed.
3. Adjust part circle heads for proper coverage. Plant placement shall not interfere with intended sprinkler head coverage, piping, or other equipment. Consultant may request nozzle changes or adjustments without additional cost to the Owner.
4. Install sprinkler heads 3" from curbs and sidewalks, 12" from vertical surfaces such as walls and fences.

H. Valve Boxes:
1. Install one valve box for each type of valve installed as detailed flush with grade for all sodded areas, and 1/2" above grade for all seeded areas.
2. Valve box extensions are not acceptable except for master valve.
3. Install gravel sump after compaction of all trenches. Valve box to rest on gravel sump. Place final portion of gravel inside valve box after valve box is backfilled and compacted.

I. Gate Valves - Install where shown on Drawings as detailed.

J. Emitters – Install as detailed at the quantities indicated on the drawings for each tree within drip zones as supplemental watering.

K. Control Wiring:
1. 1. All control wiring to be laid to bottom and side of pressure supply line trench. Separate wire trenches will not be allowed unless approved by Consultant prior to installation.

L. Backfilling - Do not begin backfilling operations until required system tests have been completed. Backfill shall not be done in freezing weather except with prior approval by Consultant. Leave trenches slightly mounded to allow for settlement after backfilling is completed. Trenches shall be finish graded prior to walk-through of system by Consultant.
1. All pressure supply lines shall be bedded with construction grade sand 4" below invert of pipe, to 6" above top of pipe and width of trench.
2. Materials - Excavated material is generally considered satisfactory for backfill purposes after completing bedding requirements. Backfill material shall be free of rubbish, vegetable matter, frozen materials, and stones larger than 2 inches in maximum dimension. Do not mix subsoil with topsoil. Material not suitable for backfill shall be hauled away. Contractor shall be responsible for providing suitable backfill if excavated material is unacceptable or not sufficient to meet backfill, compaction, and final grade requirements.
3. Do not leave trenches open for a period of more than 48 hours. Open excavations shall be protected in accordance with OSHA regulations.
4. Compact backfill to 90% maximum density in 6" lifts, determined in accordance with ASTM D155-7 utilizing the following methods:
a. Mechanical tamping.
b. Puddling or ponding. Puddling or ponding and /or jetting is prohibited within 10'- 0" of building or foundation walls.

M. Piping Under Paving:
1. Provide for a minimum cover of 24 inches between the top of the pipe and the bottom of the aggregate base for all pressure and non-pressure piping installed under asphaltic concrete or concrete paving.
2. Piping shall be bedded with construction grade sand or squeegee - 6 inches below pipe to 6 inches above pipe and width of excavation.
3. Compact backfill material in 6-inch lifts at 95% maximum density determined in accordance with ASTM D1557 using manual or mechanical tamping devices.

4. Set in place, cap, and pressure test all piping under paving, in presence of consultant or Owner prior to backfilling and paving operations.
5. Piping under existing walks or concrete pavement shall be done by jacking, boring, or hydraulic driving, but where cutting or breaking of walks and/or concrete is necessary, it shall be done and replaced at no cost to Owner. Obtain permission and prior approval to cut or break walks and/or concrete from Owner.

N. Water Supply and Point of Connection - Water supply shall be extended as shown from water supply lines.

3.04 FIELD QUALITY CONTROL

A. Owner to be notified to observe all testing and before anything is backfilled.
B. Flushing - After piping, risers, and valves are in place and connected, but prior to installation of emitters, quick coupling valves, and air release valves, thoroughly flush piping system under full head of water pressure from dead end fittings. Maintain flushing for 5 minutes through furthermost valves. Cap risers after flushing.
C. Testing - Conduct tests in presence of Consultant. Arrange for presence of Consultant a minimum of 48 hours in advance of testing. Supply force pump and all other test equipment.
1. After backfilling, and installation of all control valves, quick coupling valves, drain valves, and air release valves, fill pressure supply line with water, and pressurize to 150 PSI over the designated static pressure of 150 PSI, whichever is greater, for a period of 3 hours.
2. Leakage, Pressure Loss - Test is acceptable if no leakage or loss of pressure is evident during test period.
3. Leaks - Detect and repair leaks.
4. Retest system until test pressure can be maintained for duration of test.
5. Before final acceptance, pressure supply line shall remain under pressure for a period of 48 hours.

D. Walk Through for Substantial Completion:
1. Arrange for Consultant's presence a minimum of 48 hours in advance of walkthrough.
2. Entire system shall be completely installed and operational prior to scheduling of walk-through. All sodded areas are to be complete with head height and valve boxes adjusted accordingly.
3. Operate each zone in its entirety for Consultant at time of walk through and open all valve boxes.
4. Consultant shall generate a list of items to be corrected prior to Final Completion.
5. Furnish all materials and perform all Work required to correct all inadequacies due to deviations from Contract Documents, and as directed by Consultant.
6. During walk-through, expose all drip emitters under operations for observation by Consultant to demonstrate that they are performing and installed as designed; prior to placing of all mulch material. Schedule separate walk-through if necessary.

E. Walk-Through for Final Completion:
1. Arrange for Consultant's presence a minimum of 48 hours in advance of walk through.
2. Operate each zone identified as deficient at substantial completion walk through for Consultant at time of final completion walk through to insure correction of all incomplete items.
4. Items deemed not acceptable by Consultant shall be reworked to complete satisfaction of Consultant.
5. If after request to Consultant for walk-through for Final Completion of irrigation system, Consultant finds items during walk through which have not been properly adjusted, reworked, or replaced as indicated on list of incomplete items from substantial completion walk-through, Contractor shall be charged for all subsequent walkthroughs. Funds will be withheld from final payment and/or retainage to Contractor, in amount equal to additional time and expenses required by Consultant to conduct and document further walk-throughs as deemed necessary to insure compliance with Contract Documents.

3.05 ADJUSTING - Upon substantial completion of installation, "fine-tune" entire system by regulating valves, adjusting patterns and break-up arms/screws, and setting pressure reducing valves or throttling control valve flow controls at proper pressure to provide optimum and efficient coverage. Flush and adjust all sprinkler heads for optimum performance and to prevent overspray onto walks, roadways, and buildings as much as possible. Heads of same type shall be operating at same pressure +/- 7%.

A. If it is determined that irrigation adjustments will provide proper and more adequate coverage, make such adjustments prior to Final Acceptance, as directed, at no additional cost to Owner. Adjustments may also include changes in emitter spacing and sizes, and control valve throttling.
B. Areas which do not conform to designated operation requirements due to unauthorized changes or poor installation practices shall be immediately corrected at no additional cost to the Owner.

3.06 CONTROL SYSTEM SET UP – Contractor shall program the following features into the controller and shall be operating the controller using these features within one month of the termination of the maintenance period.

A. Controllers shall be set to operate 'By Capacity' at the flow rate indicated on the Irrigation Drawings.
B. The flows of all valves shall be learned by the controller.
C. The Contractor shall demonstrate to the City that the Controller is communicating with the Cities Central Control System.
D. The Contractor shall coordinate with the Controller Manufacturer to achieve these settings and requirements.

3.07 CLEANING - Maintain continuous cleaning operation throughout the duration of Work. Dispose of, off-site at a legal dumpsite and at no additional cost to Owner, all trash or debris generated by installation of irrigation system.

END OF SECTION 02810

Aqua Commercial Irrigation
810 Los Vallecitos Blvd., Suite 204
San Marcos, California 92069
Ph: (760)750-1900 Fax: (760)750-1999

Irrigation Design, Planning & Water Management

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SCALES
1" 2MM
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DRAWN BY:
CHECKED BY:

PLANS PREPARED BY:
OAKRIDGE LANDSCAPE

SCV WATER
SANTA CLARITA VALLEY WATER AGENCY
WATER RESOURCES SECTION
26501 SUMMIT CIRCLE
SANTA CLARITA, CA. 91350
(661) 259-2737

BRIDGEPORT POCKET PARK

IRRIGATION SPECIFICATIONS

DATE: AUGUST 2020
PROJECT NO. 200701
SHEET: LI-4
11 OF 11

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COMMITTEE MEMORANDUM

ITEM NO. 5

DATE: November 9, 2022

TO: Water Resources and Watershed Committee

FROM: Steve Cole
Assistant General Manager

SUBJECT: Recommend Adoption of a Resolution Authorizing SCV Water Agency to Apply for and Execute a Grant Agreement on Behalf of the SCV-GSA with the California Department of Water Resources for a Sustainable Groundwater Management Grant

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SUMMARY

To offset costs of developing the GSP on behalf of SCV-GSA, SCV Water previously submitted two grant applications to the Department Water Resources (DWR) and was awarded grant funding of approximately $1.3M.

A Round 2 funding opportunity is now available under California's Budget Act of 2021 providing $180 million in General Funds for Sustainable Groundwater Management Act Implementation projects (SGM Grant). The application for Round 2 of the SGM Grant makes available a minimum grant award per GSA Basin of $1,000,000. The grant application under this opportunity is due on or before November 30, 2022.

DISCUSSION

With GSP implementation now under way, the DWR has issued a grant opportunity to fund GSP implementation tasks. Conditions of the grant application include that only one application per basin be submitted, the application may be submitted by the GSA or a member agency upon approval of the GSA, the minimum funding request per basin is $1M, no match is required, and grant funded work is to be completed by April 30, 2026, with final reporting due by June 30, 2026. Preferences for grant awards will be made to basins that have not yet received grant awards.

The range of projects that can be funded under this grant are broad. Many project ideas have been considered by the SCV-GSA team and most recently the GSA Board in October 2022. At its October 2022 meeting, the SCV-GSA Board adopted the attached Resolution authorizing SCV Water to apply for a SGM Grant on its behalf. If an application is made, and award granted, SCV Water would execute the grant agreement and funding for these new projects (approximately $5.3M) will be included in the SCV-GSA's and SCV Water's FY2023-2024 through FY2025-2026 budgets.

To develop a list of potential projects for this grant application, SCV Water reached out to other SCV-GSA member agency staff (County Waterworks, County Regional Planning, and the City of Santa Clarita). Member agencies expressed interest in ongoing support of Bouquet Canyon Restoration, filling data gaps regarding private wells, the need for monitoring wells, and match

funding for stormwater projects. The ideas considered and recommended for the grant application are included in the attached table previously shared with the SCV-GSA Board.

Staff is recommending SCV Water submit a grant application on behalf of the GSA to fund:

1) Existing GSP Implementation Contracts: The GSP includes consultant contracts for GSP Implementation including filling data gaps that may ultimately lead to revisions, updates, or modifications to future versions of the GSP. Contracts also include preparation of annual report.

2) Additional Scope for Filing Data Gaps Regarding Private Wells: Additional efforts to carefully review past well records basin wide, not just in canyons, can be useful to member agencies for planning purposes. This additional effort would include consultant support to review all available DWR well records in the basin for private wells, it would include looking at the location description on the well record, and then viewing the parcel aerial photo(s) in a mapping program to locate the well. Such work includes a data scientist or similar professional experienced in what wells look like to look for features such as power lines, concrete well pads, sheds, wellheads, etc. to find that feature on the ground if feasible and then place a point in GIS that identifies the well location and its associated well record. This work sometimes includes looking at older aerial photos taken closer to the time the well was installed. This well-locating effort will provide information for future follow-up, including contact with the landowner, if needed. The work can also identify if no indication of a well exists, suggesting the well log may not be sufficiently detailed to locate the well, or the well may be abandoned. Generally, if wells were destroyed under permit, a well record of the destruction would exist. The work would also include making observations about surrounding land uses that may be indicators of water well use, such as de minimis use or agricultural use. A summary report of the work would be provided to the SCV GSA and is expected to include information about expected groundwater use from private wells and status of wells. Information would be used to further refine the GSP's discussion of private wells and the water budget.

3) Additional Scope for Filing Data Gaps with the Saugus Aquifer: The GSP identifies the general need for ongoing water level and water quality monitoring to help improve our understanding of the basin and continue to fill data gaps overtime. Because the Saugus Aquifer has so many layers and is so deep with multiple aquifers, installation of monitoring wells is time consuming and expensive. Further, in an urban environment, it can be challenging to find sites that are available for well installation and long-term monitoring.

   This new effort would include a well siting study that reviews the basin geology and environmental data at a high level to initially identify a "preliminary list" of monitoring well locations that would provide good data for groundwater basin management, including aquifer tests, model calibration, and water quality monitoring.

   Following preliminary site selection, detailed review of site constraints would be made and final candidate sites for monitoring well installation selected. Selection of candidate sites includes reviewing the sites for land ownership, access and access agreements, and easements and permitting. Following the well siting study and site agreements, specific monitoring well design would be prepared for each site along with a cost

estimate per well. Saugus Aquifer Monitoring Well installation would follow. The SGM Application would include separate cost estimates for the well siting study, monitoring well design, and well installation.

FINANCIAL CONSIDERATIONS

SCV Water's FY 2022/2023 budget includes $20,000 for a grant application. Staff currently estimates a minimum grant request of $5,300,000; however, our consultant team is developing the final scope, schedule and budget for projects to be included in the grant application. Staff will insert the final application's project cost in the resolution presented for SCV Water Board approval at its December 6, 2022.

Although not required under the SGM Grant Proposal Solicitation Package, staff recommends contributing a 5% local cost share. At the estimated $5.3M application level, the cost share would be $265,000.

Following submittal of a grant application, if the grant is awarded, the SCV-GSA Budget will be updated to include costs associated with the projects in the grant for budget years FY2023-2024 to FY2025-2026. Consistent with the Administrative Services Agreement between the SCV GSA and SCV Water, grant revenues received by SCV Water will be used to offset SCV Water's costs to implement these grant funded projects.

ADMINISTRATIVE TIMING

The consultant team is developing scope, schedule and budget for the above-described project components with completion in mid-November 2022. Upon completion of final project cost estimate, an updated project budget will be included in the grant application (to be submitted on or before November 30, 2022). Due to timing, the grant application will be submitted with a draft resolution and an updated resolution will be presented for Board consideration at the December 6, 2022 SCV Water Board meeting. Subsequently, the adopted Resolution will be transmitted to DWR to support the SGM Grant application.

RECOMMENDATION

That the Water Resources and Watershed Committee recommend that the Board of Directors adopt a resolution authorizing SCV Water's General Manager to apply for a SGM Grant on behalf of the SCV-GSA identifying SCV Water as the Agency responsible for local cost share, and to execute an agreement with the Department of Water Resources for a SGM Grant.

Attachments

RDV

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Recommendations for SGM grant application

Ideas Considered	Findings	Include in SGM Grant Application?
Bouquet Canyon	This large project is in the early stages of planning and specific implementation steps which would result from the planning study have not been developed. It's too early to identify specific projects for the SGM Grant.	No
Groundwater Recharge	Pilot projects are still underway. Following completion of pilot projects, design for full scale projects will be considered. It is too early to identify specific projects for the SGM Grant.	No
Stormwater Recharge	The City's Via Princessa recharge project is already being drafted to seek a State Integrated Regional Water Management (IRWM) Plan grant. With the anticipated IRWM funding, the project would not also be eligible for SGM funding (SGM is not eligible to provide match funding).	No
Stormwater Recharge	The Newhall Memorial Park project is undergoing a new approach with design and engineering. This process will take some time and no specific project is identified and so it's too early to identify a specific project for the SGM grant.	No
Invasive Species Removal	Significant effort on this joint project underway between the City and Santa Clara River Conservancy, and the project is partially funded by an IRWM Grant. No new Invasive Species Removal Projects are under consideration.	No
Groundwater Remediation	SCV Water is pursuing grants for wellhead treatment systems on many fronts. SGM funding is considered better applied to filling data gaps (as opposed to wellhead treatment). However, the approach to install Saugus monitoring wells (below) can improve basin understanding of water quality and remediation strategies.	No
Existing GSP Implementation Contracts	Existing GSP implementation contracts contain components that are listed in the GSP and eligible for grant reimbursement and are already under way. Consultant services are currently estimated at $200,000.	Yes
Additional Scope for Filing Data Gaps Regarding Private Wells	This additional scope is consistent with the GSP as it will lead to better data for future GSP revisions, updates, and modifications. It will help improve GSA understanding of well status and well use. Data may be used to refine the water budget and groundwater flowmodel. It may identify wells that may be useful for monitoring. Consultant services are estimated at $75,000.	Yes
Additional Scope for Filing Data Gaps with the Saugus Aquifer.	This additional scope is consistent with the GSP. Data from these new wells can be used for routine water level monitoring, specialized monitoring during aquifer tests, flowmodel calibration, and updating basin geology, all of which can be used to improve the basin flowmodel. Data would be used to improve the GSA's understanding of regional groundwater quality, can inform approaches for cleanup of contamination and planning for water treatment. We are currently estimating the cost of the well siting study at $75,000 and well design and installation for 3 to 4 wells at $5,000,000.	Yes

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RESOLUTION NO. SCV-

RESOLUTION OF THE BOARD OF DIRECTORS OF THE SANTA CLARITA VALLEY WATER AGENCY AUTHORIZING AND DIRECTING THE GENERAL MANAGER TO PREPARE THE NECESSARY DATA, CONDUCT INVESTIGATIONS, FILE A SUSTAINABLE GROUNDWATER MANAGEMENT GRANT PROGRAM APPLICATION, EXECUTE A FUNDING AGREEEMENT AND ANY FUTURE AMENDEMENTS THERETO, SUBMIT INVOICES, AND SUBMIT ANY REPORTING REQUIREMENTS WITH THE DEPARTMENT OF WATER RESOURCES

WHEREAS, the Santa Clarita Valley Water Agency (SCVWA) is a member agency of the Santa Clarita Valley Groundwater Sustainability Agency (SCV-GSA); and

WHEREAS, on October 4, 2018, SCV Water and SCV-GSA entered into an Administrative Services Agreement requiring the Santa Clarita Valley Water Agency (SCV Water) administer the SCV-GSA and provide the majority of funding to develop the state-required Groundwater Sustainability Plan (GSP); and

WHEREAS, on October 3, 2022 the SCV-GSA adopted Resolution GSA 2022-03 authorizing SCV Water to submit a the subject grant application for the Expanded Monitoring in the Upper Santa Clara River Basin GSA; and

WHEREAS, the minimum grant request under the SGM Grant is $1,000,000 per the GSA groundwater basin and only one application per basin is allowed; and

WHEREAS, SCV Water has evaluated projects and prepared and submitted the required grant application; and

WHEREAS, the total project cost in the application is $XXX; and

WHEREAS, SCVWA will provide a 5% ($XXX) match of the total project cost; and

WHEREAS, consistent with the Administrative Services Agreement, if a SGM Grant is awarded, grant revenues will be used to offset SCVWA's costs to carry out SGM grant funded work.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors, the governing body of the Santa Clarita Valley Water Agency, authorizes the General Manager to:

1. Submit an application to the Department of Water Resources to obtain a grant under the 2021 Sustainable Groundwater Management (SGM) Grant Program SGMA Implementation Grant pursuant to the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Pub. Resources Code, Section 80000, et seq.) and the Budget Acts of 2021 and 2022.

2. Execute a grant agreement, and any future amendments thereto, with the Department of Water Resources to receive a grant funding for the Expanded Monitoring in the Upper Santa Clara River Basin GSA.

3. If a grant award is made by the Department of Water Resources, SCVWA commits, pending Board compliance with the California Environmental Quality Act (CEQA) and approval of the project, to providing a minimum of five percent (5%) matching funds ($XXX) and up to the balance of funds needed to complete the construction of the project.

4. Prepare the necessary data, conduct investigations, submit invoices, and submit any reporting requirements with the Department of Water Resources.

RESOLUTION NO. GSA 2022-03

RESOLUTION OF THE BOARD OF DIRECTORS OF THE SANTA CLARITA VALLEY GROUNDWATER SUSTAINABILITY AGENCY AUTHORIZING THE SANTA CLARITA VALLEY WATER AGENCY TO APPLY FOR AND EXECUTE A GRANT AGREEMENT ON BEHALF OF THE SCV-GSA WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES FOR A SUSTAINABLE GROUNDWATER MANAGEMENT GRANT

WHEREAS, the Department of Water Resources (DWR) has issued the Final SGM Proposal Solicitation Package (PSP) for Sustainable Groundwater Management Planning Grants for implementation of GSPs; and

WHEREAS, the SGM application period is anticipated to begin in early October 2022 and close by November 30, 2022; and

WHEREAS, the Santa Clarita Valley Water Agency (SCV Water) is a member agency of the Santa Clarita Valley Groundwater Sustainability Agency (SCV-GSA); and

WHEREAS, on October 4, 2018, SCV Water and SCV-GSA entered into an Administrative Services Agreement requiring the Santa Clarita Valley Water Agency (SCV Water) to administer the SCV-GSA and provide the majority of funding to develop the state-required Groundwater Sustainability Plan (GSP); and

WHEREAS, prior to SCV Water making the SGM application to the Department of Water Resources it will adopt a resolution affirming it will provide required cost share, and apply for and execute the SGM grant agreement on behalf of the SCV-GSA if the SCV-GSA requests SCV Water perform this task; and

WHEREAS the SCV-GSA is committed to effectively implementing its adopted GSP including seeking funding to fill data gaps; and

WHEREAS, the minimum grant request under the SGM Grant is $1,000,000 per the GSA groundwater basin and only one application per basin is allowed; and

WHEREAS, SCV Water is evaluating projects and requested grant amounts and anticipates a minimum grant request of $5,300,000, but may request more grant funds if other eligible costs are identified; and

WHEREAS, consistent with the Administrative Services Agreement, if a SGM Grant is awarded, grant revenues will be used to offset SCV Water's costs to carry out SGM grant funded work; and

WHEREAS, the application process includes a requirement that the SCV-GSA adopt a resolution affirming it desires SCV Water to submit a grant application on its behalf.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors, the governing body of the Santa Clarita Valley Water Groundwater Sustainability Agency, resolves and orders as follows:

That SCV Water's General Manager, or designee, is authorized to:

a. Submit an application, on behalf of the SCV GSA, to the California Department of Water Resources to obtain a grant under the 2021 Sustainable Groundwater Management (SGM) Grant Program SGMA Implementation Round 2 Grant pursuant to the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Proposition 68) (Pub. Resource Code, § 80000 et seq.) and the California Budget Act of 2021 (Stats. 2021, ch. 240, § 80);

b. Enter into an agreement to receive a grant funding for the: Expanded Monitoring in the Upper Santa Clara River Basin GSA; and

c. Prepare the necessary data, conduct investigations, file such application, and execute a grant agreement and any future amendments (if required), submit invoices, and submit any reporting requirements with the California Department of Water Resources.

DocuSigned by:
Maria Gutzeit
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President

I, the undersigned, hereby certify: That I am the Secretary of the Santa Clarita Valley Groundwater Sustainability Agency, and that at a regular meeting of the Board of Directors of said Agency held on October 3, 2022, the foregoing Resolution No. GSA 2022-03 was duly and regularly adopted by said Board, and that said resolution has not been rescinded or amended since the date of its adoption, and that it is now in full force and effect.

DATED: October 3, 2022

DocuSigned by:
Ennie Kang
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July 5, 2022 Regular Board Meeting

1. Recommend Adoption of a Resolution Approving the SB 610 Water Supply Assessment for the Wiley Canyon Mixed-Use Development

July 13, 2022 Committee Meeting

1. Recommend Authorizing the General Manager to Enter into an Agreement with GSI Water Solutions, Inc. for the First Year of Groundwater Sustainability Plan Implementation
2. Water Resources Director Report:
    - Status of Upper Santa Clara River Salt and Nutrient Management Plan
3. Sustainability Manager Report:
    - Status of Drought Response and Performance

July 19, 2022 Regular Board Meeting

1. Status of Recycled Water Program

August 2, 2022 Regular Board Meeting

1. Recommend Authorizing the General Manager to Enter into an Agreement with GSI Water Solutions, Inc. for the First Year of Groundwater Sustainability Plan Implementation

August 10, 2022 Committee Meeting

1. Recommend Adoption of a Resolution Authorizing the General Manager to Apply for Grant Funding Under the WaterSmart Water Energy Efficiency Grant Program and Execute a Grant Agreement with the Federal Bureau of Reclamation
2. Water Resources Director Report:
    - Status of Groundwater Recharge Feasibility Studies
    - Devil's Den Semi-Annual Report
3. Sustainability Manager Report:
    - Update on Conservation Activities and Performance
    - Status of Drought Response and Performance

August 16, 2022 Regular Board Meeting

1. Recommend Adoption of a Resolution Authorizing the General Manager to Apply for Grant Funding Under the WaterSmart Water Energy Efficiency Grant Program and Execute a Grant Agreement with the

September 14, 2022 Committee Meeting

1. Recommend Adoption of a Resolution Approving the SB 610 Water Supply Assessment for the Shadowbox Studios Development
2. Recommend Authorizing the General Manager to Execute a Construction Contract for Bridgeport Pocket Park
3. Update on Water Operating Plan and Water Conservation Response Actions
4. Water Resources Director Report:
    - Update on Water Resiliency Plan Initiative Activities
    - Status of Water Supply and Water Banking Programs
5. Sustainability Manager Report:
    - Update on Conservation Activities and Performance

October 12, 2022 Committee Meeting

1. Recommend Adoption of a Resolution Approving the SB 610 Water Supply Assessment for the Shadowbox Studios Development
2. Water Resources Director Report:
    - Status of Water Supply and Water Banking Programs
3. Sustainability Manager Report:

- Status of Drought Response and Performance
- Update on Conservation Activities and Performance

October 18, 2022 Regular Board Meeting

1. Recommend Adoption of a Resolution Approving the SB 610 Water Supply Assessment for the Shadowbox Studios Development
2. Update on Water Operating Plan and Water Conservation Response Actions

November 9, 2022 Committee Meeting

1. Introduction of New Water Resources Director
2. Recommend Authorizing the General Manager to Execute a Construction Contract for Bridgeport Pocket Park
3. Recommend Adoption of a Resolution Authorizing SCV Water Agency to Apply for and Execute a Grant Agreement on Behalf of the SCV-GSA with the California Department of Water Resources for a Sustainable Groundwater Management Grant
4. Water Resources Manager Report:
    - Staff Activities
5. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance

November 15, 2022 Regular Board Meeting

1. Recommend Authorizing the General Manager to Execute a Construction Contract for Bridgeport Pocket Park

December 6, 2022 Regular Board Meeting

1. Recommend Adoption of a Resolution Authorizing SCV Water Agency to Apply for and Execute a Grant Agreement on Behalf of the SCV-GSA with the California Department of Water Resources for a Sustainable Groundwater Management Grant

December 14, 2022 Committee Meeting

1. Recommend Approval of a Resolution Adopting Recycled Water Rules and Regulations
2. Recommend that the Board Authorize the General Manager to Enter into a Long-Term Water Exchange Agreement with Irvine Ranch Water District
3. Authorize the General Manager to Enter into a MOU with Antelope Valley-East Kern Water District to Fund Planning Costs for a Portion of the Proposed Phase 2 Proposed High Desert Water Bank
4. Recommend Approval of Adoption of a Resolution Authorizing the General Manager to Apply for Grant Funding under the Proposition 1, Integrated Regional Water Management Round 2 Grant for USCR and Execute a Grant Agreement with the Department of Water Resources for the Sand Canyon Sewer Line Relocation Project and T&U Wells PFAS Treatment and Disinfection Facility.
5. Recommend Adoption of Sustainability Action Plan
6. Water Resources Manager Report:
    - Status of Water Supplies
7. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance

January 3, 2023 Regular Board Meeting

1. Recommend Approval of a Resolution Adopting Recycled Water Rules and Regulations
2. Recommend Approval of Adoption of a Resolution Authorizing the General Manager to Apply for Grant Funding under the Proposition 1, Integrated Regional Water Management Round 2 Grant for USCR and Execute a Grant Agreement with the Department of Water Resources for the Sand Canyon Sewer Line Relocation Project and T&U Wells PFAS Treatment and Disinfection Facility.

January 11, 2023 Committee Meeting

1. Water Resources Manager Report:
    - Status of Water Supplies
2. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance

January 17, 2023 Regular Board Meeting

1. Recommend Adoption of Sustainability Action Plan

February 8, 2023 Committee Meeting

1. Water Resources Manager Report:
    - Status of Recycled Water Program
    - Devil's Den Semi-Annual Report
    - Status of Water Supplies
2. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance

March 7, 2023 Regular Board Meeting

1. No item planned at this time

March 8, 2023 Committee Meeting

1. Water Resources Manager Report:
    - Status Update on Urban Water Management Plan (UWMP)
    - Status of Sustainable Groundwater Management Act Implementation
    - Status of Water Supply and Water Banking Program
2. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance

April 4, 2023 Regular Board Meeting

1. No item planned at this time

April 12, 2023 Committee Meeting

1. Review and Discussion of FY 2023/24 and FY 2024/25 Water Resources Operating Budget and Minor and Major Capital
2. Water Resources Manager Report:
    - Status of Water Supplies
3. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance

May 2, 2023 Regular Board Meeting

1. No item planned at this time

May 17, 2023 Committee Meeting (Rescheduled)

1. Recommend Adopting a Resolution Authorizing Creation of a Standby Charge for the Tesoro Del Val Annexation Area
2. Water Resources Manager Report:
    - Status of Water Supplies
3. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance

June 6, 2023 Regular Board Meeting

1. Recommend Adopting a Resolution Authorizing Creation of a Standby Charge for the Tesoro Del Val Annexation Area

June 14, 2023 Committee Meeting

1. Water Resources Manager Report:
    - Status of Water Supplies
2. Sustainability Manager Report:
    - Status of Drought Response and Performance
    - Update on Conservation Activities and Performance`