



LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 Las Virgenes Road, Calabasas, CA 91302

AGENDA
REGULAR MEETING

Members of the public wishing to address the Board of Directors are advised that a statement of Public Comment Protocols is available from the Clerk of the Board. Prior to speaking, each speaker is asked to review these protocols and **MUST** complete a speakers' card and hand it to the Clerk of the Board. Speakers will be recognized in the order cards are received.

The **Public Comments** agenda item is presented to allow the public to address the Board on matters not on the agenda. The public may present comments on any agenda item at the time the item is called upon for discussion.

Materials prepared by the District in connection with subject matter on the agenda are available for public inspection at 4232 Las Virgenes Road, Calabasas, CA 91302. Materials prepared by the District and distributed to the Board during this meeting are available for public inspection at the meeting or as soon thereafter as possible. Materials presented to the Board by the public will be maintained as part of the records of these proceedings and are available upon written request to the Clerk of the Board.

5:00 PM

May 22, 2018

PLEDGE OF ALLEGIANCE

- 1 **CALL TO ORDER AND ROLL CALL**
- 2 **APPROVAL OF AGENDA**
- 3 **PUBLIC COMMENTS**

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

CONSENT CALENDAR

- A **List of Demands: May 22, 2018 (Pg. 6)**
Ratify
- B **Minutes: Regular Meeting of April 10, 2018 and Regular Meeting of April 24, 2018 (Pg. 64)**
Approve
- C **Directors' Per Diem: April 2018 (Pg. 84)**
Ratify
- D **Augmentation of Annual Purchase Order Amounts (Pg. 90)**
Authorize the General Manager to increase the annual purchase order amounts for the vendors identified in Table 1.
- E **Tapia and Headquarters Lighting Efficiency Upgrade Project: Final Acceptance (Pg. 93)**
Approve execution of a Notice of Completion by the Secretary of the Board and have the same recorded, and in the absence of claims from subcontractors and others, release the retention, in the amount of \$22,951.80, thirty calendar days after filing the Notice of Completion.
- F **Annual Division of Safety of Dams Fee for Westlake Reservoir Dam (Pg. 97)**
Approve a payment, in the amount of \$36,091, to the California Department of Water Resources for the 2018 fees associated with the Westlake Reservoir Dam.
- G **Claim by Law Office of Jonathan W. Birdt (Pg. 101)**
Deny the claim from the Law Office of Jonathan W. Birdt on behalf of Philip Monina.
- H **Annexation of Parcel No. 4448-026-050: Las Flores Canyon Road (Pg. 104)**
Pass, approve, and adopt the proposed Resolution No. 2534, approving the annexation of APN 4448-026-050 to the District's service area.

RESOLUTION NO. 2534

JOINT RESOLUTION OF THE BOARD OF SUPERVISORS AS THE GOVERNING BODY OF THE COUNTY OF LOS ANGELES, THE COUNTY OF LOS ANGELES WATERWORKS DISTRICT NO. 29, THE CONSOLIDATED FIRE PROTECTION DISTRICT OF LOS ANGELES COUNTY, THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, AND THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT AND THE LOS ANGELES COUNTY WEST VECTOR CONTROL DISTRICT, APPROVING AND ACCEPTING THE NEGOTIATED EXCHANGE OF PROPERTY TAX REVENUE RESULTING FROM REORGANIZATION NO. 2017-04 (DETACHMENT OF TERRITORY FROM COUNTY OF LOS ANGELES WATERWORKS DISTRICT NO. 29, ANNEXATION OF SAID TERRITORY TO THE LAS

VIRGENES MUNICIPAL WATER DISTRICT)

(Reference is hereby made to Resolution No. 2534 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

- A Poster Contest Awards Ceremony**
- B Legislative and Regulatory Updates (Pg. 109)**
- C Water Supply Conditions Update (Pg. 114)**

6 TREASURER

7 FACILITIES AND OPERATIONS

- A Fiscal Year 2017-18 Westlake Pump Station Roof Repair and Improvements Project: Award (Pg. 116)**

Approve an additional appropriation, in the amount of \$3,975; and authorize the General Manager to issue a purchase order to L&L Roofing, in the amount of \$74,000, for the Westlake Pump Station Roof Repair and Improvements Project.
- B Tank Rehabilitation Priority Summary and Request for Proposals for Design of Saddle Peak and Cordillera Tank Rehabilitation Project (Pg. 173)**

Approve the Request for Proposals for design and engineering services during construction for the Saddle Peak and Cordillera Tank Rehabilitation Project.

8 FINANCE AND ADMINISTRATION

- A Proposed Update to Financial Policies: Assignment or Commitment of Reserves (Pg. 184)**

Adopt the proposed update to the Financial Policies, allowing for the assignment or commitment of reserves in excess of target levels; and assign \$15 million in reserves, consisting of \$10 million from the Sanitation Enterprise and \$5 million from the Recycled Water Enterprise, for the Pure Water Project Las Virgenes-Triunfo.
- B Proposed Operating and Capital Improvement Budget Plan for Fiscal Years 2018-20: Approval and Adoption (Pg. 192)**

Approve the Two-Year Budget Plan for Fiscal Year 2018-20 and adopt the Fiscal Year 2018-19 Budget; authorize the General Manager to pre-pay the District's annual required contribution to CalPERS, in the amount of \$1,371,771, for its unfunded accrued liability; authorize the General Manager to contribute \$1,330,305 to reduce the District's OPEB unfunded accrued liability; and authorize the use of penalty revenues of \$1,802,789 for the AMR/AMI Implementation, \$1,002,774 for weather-based irrigation controllers and \$128,309 for rain barrels.
- C Investment Strategy for Other Post Employment Benefits (OPEB) Trust (Pg. 198)**

Authorize the General Manager to transfer existing funds and direct future

contributions to Strategy 3 in the California Employers Retiree Benefits Trust for other post employment benefits.

9 **LEGAL SERVICES**

A **Update to Section 2-6.203 of Las Virgenes Municipal Water District Code (Pg. 207)**

Pass, approve, and adopt Resolution No. 2535, amending Section 2-6.203 of the Las Virgenes Municipal Water District Code as it relates to approval of warrants.

RESOLUTION NO. 2535

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT AMENDING RESOLUTION NO. 2468 (LAS VIRGENES) AS IT RELATES TO APPROVAL OF WARRANTS

(Reference is hereby made to Resolution No. 2535 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

10 **INFORMATION ITEMS**

A **GFOA Certificate of Achievement for Excellence in Financial Reporting (Pg. 211)**

11 **NON-ACTION ITEMS**

A **Organization Reports**

(1) MWD Representative Report

(2) Other

B **Director's Reports on Outside Meetings**

C **General Manager Reports**

(1) General Business

(2) Follow-Up Items

D **Director's Comments**

12 **FUTURE AGENDA ITEMS**

13 **PUBLIC COMMENTS**

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14 **CLOSED SESSION**

A Conference with Labor Negotiator (Government Code Section 54957.6):

Agency Designated Representative: David W. Pedersen, General Manager; Donald Patterson, Director of Finance and Administration; Sherri Paniagua, Human Resources Manager; and Kristi Reccia, Liebert Cassidy Whitmore

Employee Organization(s): Las Virgenes Manager, Supervisor, Professional and Confidential Employees Association

B Public Employee Performance Evaluation (Government Code Section 54957):

Title: General Manager

15 OPEN SESSION AND ADJOURNMENT

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

LAS VIRGENES MUNICIPAL WATER DISTRICT

To: LEE RENGER, TREASURER

Payments for Board Meeting of: May 22, 2018

Deputy Treasurer has verified that all checks and wire transfers were issued in conformance with LVMWD Administrative Code Section 2-6.203.

Wells Fargo Bank A/C No. 4806-994448

Checks Nos. 78705 through 78960 were issued in the total amount of \$ 1,383,883.71

Payments through wire transfers as follows:

4/24/2018	Bank of New York Mellon	Payment for Sani Refunding Revenue Bond Principal & Interest	\$ 271,264.23
4/30/2018	Metropolitan Water District	Payment for water deliveries in the month of February 2018	\$ 1,368,320.53
		Sub-Total Wires	\$ 1,639,584.76
		Total Payments	\$ 3,023,468.47

(Reference is hereby to these demands on file in the District's Check Register and by this reference the same is incorporated herein and made a part hereof.)

**CHECK LISTING FOR BOARD MEETING
05/22/18**

Company Name	Company No.	Check No. 78705 thru 78799 04/24/18	Check No. 78800 thru 78834 05/01/18	Check No. 78835 thru 78897 05/08/18	Check No. 78898 thru 78960 05/15/18	Total
		Amount	Amount	Amount	Amount	
Potable Water Operations	101	21,320.64	16,964.01	22,766.75	78,926.89	139,978.29
Recycled Water Operations	102		173.92		467.01	640.93
Sanitation Operations	130	309.06	170.00	125.27	47,838.12	48,442.45
Potable Water Construction	201	4,163.25	1,899.30			6,062.55
Water Conservation Construction	203					
Sani- Construction	230					
Potable Water Replacement	301			40,298.43	2,299.50	42,597.93
Reclaimed Water Replace	302					
Sanitation Replacement	330					
Internal Service	701	101,030.49	63,840.09	62,048.20	44,070.94	270,989.72
JPA Operations	751	74,763.90	18,363.34	96,785.59	198,537.00	388,449.83
JPA Construction	752					
JPA Replacement	754	241,733.17	30,212.50	49,034.41	168,241.93	489,222.01
Total Printed		443,320.51	131,623.16	271,058.65	540,381.39	1,386,383.71
Voided Checks / payment stopped:						
Check #77741	101	(2,500.00)				(2,500.00)
Total Voids		(2,500.00)				(2,500.00)
Net Total		440,820.51	131,623.16	271,058.65	540,381.39	1,383,883.71

**LAS VIRGENES MUNICIPAL WATER DISTRICT
WIRE TRANSFER REQUEST**

DATE NEEDED: April 24, 2018

REQUESTED BY: Jennifer Chen

FUNDS WIRING TO: LAS VIREGENES MWD 09 BOND PMT FUND A/C


BENEFICIARY BANK NAME: BANK OF NEW YORK MELLON ABA No. 021000018

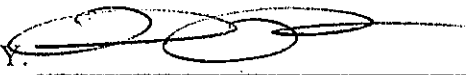
BENEFICIARY BANK A/C NO. 8500248400


FUNDS WIRING FROM: LVMWD's Checking A/C (No. 4806994448) @ Wells Fargo Bank

AMOUNT TO BE WIRED: \$271,264.23

REMARKS: Transfer Fund to A/C No. 8500248400-Las Virgenes Bond Pmt Account for interest
payment of 2009 Sani Refunding Revenue Bond due on 5/1/2018.

REVIEWED BY: 

APPROVED BY: 

APPROVED BY: 

***** ACCOUNTING DEPARTMENT USE ONLY *****

WIRE ENTERED BY: Jennifer Chen DATE: 4-12-18

WIRE VERIFIED/SENT BY: D. Carrasco DATE: 4-12-2018

WIRE EFFECTIVE DATE: 4/24/18

P A I D
wired @ 4/24/18



MWD
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 700 North Alameda Street
 Los Angeles, CA, 90012-2944

INVOICE

Billed To:

Las Virgenes Municipal Water District



Service Address

4232 Las Virgenes Road
 Calabasas, CA 91302

February 2018	Page No. 1 of 1
Mailed: 03/09/2018	Due Date: 04/30/2018
Invoice Number: 9298	Revision: 0

NOTICE

The MWD Administrative Code Section 4507 and 4508 require that payment must be made in "Good Funds" by the due date or the payment will be considered delinquent and an additional charge shall be assessed.

DELIVERIES

	Volume (AF)
Total Water Treated Delivered	1,198.9
Total Water Untreated Delivered	

SALES

	Type	Volume (AF)	Rate (\$ /AF)	Total (\$)
Full Service	Tier 1 Supply Rate	1,198.9	\$209.00	\$250,570.10
	System Access Rate	1,198.9	\$299.00	\$358,471.10
	Water Stewardship Rate	1,198.9	\$55.00	\$65,939.50
	System Power Rate	1,198.9	\$132.00	\$158,254.80
	Treatment Surcharge	1,198.9	\$320.00	\$383,648.00
SUBTOTAL				\$1,216,883.50

OTHER CHARGES AND CREDITS

	Rate (\$ /AF)
Capacity Charge(Payment Schedule: M)	\$33,422.50
Readiness To Serve Charge(Payment Schedule: M)	\$118,014.53
SUBTOTAL	\$151,437.03

ADDITIONAL INFORMATION

	Volume (AF)	Tier1 %	Peak Day	Flow (CFS)
Capacity Charge			5/30/2014	46.1
Purchase Order Firm Delivery To Date (Jan 2015 to Dec 2024)	60,737.2			
Tier 1 Annual Limit (For Current Calendar Year)	24,359.0			
Tier 1 YTD Deliveries (For Current Calendar Year)	2,383.3	9.8		
Tier 1 Current Month Deliveries	1,198.9			
Purchase Order Commitment (Jan 2015 to Dec 2024)	162,390.0			

INVOICE TOTAL

Volume AF
1,198.9

Amount Now Due
\$1,368,320.53

Note: Amount Due is based on highlighted fields

Approved for Payment
[Signature] 3/11/18
 David R. Lippman

P A I D
 Wired @ 4/30/18
 Approved for Payment
[Signature]
 David W. Pedersen, P.E.

Batch Number - 261876
Bank Account - 00146807 Cash-General

Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78705	04/24/18	18965	ePOWER NETWORK, INC.	BLDG 8 BATTERY RPLCT	PV	157623	001	00701	1,893.54	26696
78706	04/24/18	18773	ABOVE & BEYOND TREE SERVICE, INC.	Payment Amount TREE RMVL@CONVYR CHNL	PV	157619	001	00751	425.00	28425
78707	04/24/18	20976	ACC CONSTRUCTION INC.	Payment Amount RFND CR BAL-CLOSED A/C	PV	157635	001	00101	641.48	9999182
78708	04/24/18	2317	ACORN NEWSPAPER	Payment Amount DSPLY ADS-3/1,8,15, 23	PV	157688	001	00101	4,933.44	870105/033118
78709	04/24/18	3077	AIRGAS USA, LLC	Payment Amount APR'18 CYLINDER RENT 30 BX LG LTX GLOVES 90 BX LG DISP GLOVES SFTY GOGGLES & EAR MUFFS	PV	157624	001	00701	1,055.06	9952633703
78710	04/24/18	20977	TODD ALCOTT	Payment Amount RFND CR BAL-CLOSED A/C	PV	157636	001	00101	183.57	071638
78711	04/24/18	5625	ASSOC. OF WATER AGENCIES OF VENTURA CO	Payment Amount CCWUC LUNCHEON 3/28 (7)	PV	157723	001	00701	245.00	06-10727
78712	04/24/18	20695	AT&T	Payment Amount SRV 4/5-5/4/18 SRV 4/5-5/4/18	PV	157692	001	00101	20.01	0051/040518
					PV	157692	002	00101	376.38	0051/040518

Batch Number - 261876

Bank Account - 00146807 Cash-General

Payment Number	Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Itrm	Key Co	Amount	Invoice Number
				SRV 4/5--5/4/18	PV	157692	003	00101	147.39	0051/040518
				SRV 4/5--5/4/18	PV	157692	004	00101	161.67	0051/040518
				SRV 4/5--5/4/18	PV	157692	005	00101	1,582.29	0051/040518
				SRV 4/5--5/4/18	PV	157692	006	00101	3,177.51	0051/040518
				SRV 4/5--5/4/18	PV	157692	007	00101	147.98	0051/040518
				SRV 4/5--5/4/18	PV	157692	008	00101	59.51	0051/040518
				SRV 4/5--5/4/18	PV	157692	009	00101	55.71	0051/040518
				SRV 4/5--5/4/18	PV	157692	010	00101	147.39	0051/040518
				SRV 4/5--5/4/18	PV	157692	011	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	012	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	013	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	014	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	015	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	016	00101	147.39	0051/040518
				SRV 4/5--5/4/18	PV	157692	017	00101	147.39	0051/040518
				SRV 4/5--5/4/18	PV	157692	018	00101	147.39	0051/040518
				SRV 4/5--5/4/18	PV	157692	019	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	020	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	021	00101	147.39	0051/040518
				SRV 4/5--5/4/18	PV	157692	022	00101	358.64-	0051/040518
				SRV 4/5--5/4/18	PV	157692	023	00101	147.39	0051/040518

Batch Number - 261876

Bank Account - 00146807 Cash-General

Payment Number	Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Co	Amount	Invoice Number
				4/5-5/4/18						
				SRV	PV	157692	024	00101	147.39	0051/040518
				4/5-5/4/18						
				SRV	PV	157692	025	00101	358.64	0051/040518
				4/5-5/4/18						
				SRV	PV	157692	026	00101	147.39	0051/040518
				4/5-5/4/18						
				SRV	PV	157692	027	00101	73.69	0051/040518
				4/5-5/4/18						
				SRV	PV	157692	028	00101	73.70	0051/040518
				4/5-5/4/18						
				Payment Amount					3,827.20	
78713	04/24/18	2669	AT&T	SRV 4/5-5/4/18	PV	157647	001	00701	790.12	9065/040518
				SRV	PV	157648	001	00701	791.89	9268/040518
				4/5-5/4/18						
				SRV	PV	157649	001	00101	159.27	9054/040518
				4/5-5/4/18						
				SRV	PV	157650	001	00101	406.76	2043/040718
				4/7-5/6/18						
				SRV	PV	157651	001	00101	201.36	2045/040718
				4/7-5/6/18						
				SRV	PV	157652	001	00101	67.26	0123/040718
				4/7-5/6/18						
				SRV	PV	157653	001	00101	33.12	0124/040718
				4/7-5/6/18						
				Payment Amount					2,449.78	
78714	04/24/18	20424	AT&T	RLV CO-GEN	PV	157734	001	00751	75.31	5778/041018
				DSL						
				4/11-5/10/18						
				Payment Amount					75.31	
78715	04/24/18	18654	AT&T	CONF	PV	157620	001	00701	52.32	804-135587
			TELECONFERENCE SERVICES	CALLS-MARCH '18						
				CONF	PV	157620	002	00701	39.61	804-135587
				CALLS-MARCH '18						
				Payment Amount					91.93	
78716	04/24/18	20958	ATLANTIC PNEUMATICS	DE CONVOY SYS PARTS	PV	157675	001	00701	954.33	2985
				Payment Amount					954.33	
78717	04/24/18	7770	AUTOMATIONDIR	24 VDC POWER	PV	157589	001	00751	134.75	8683004

Batch Number - 261876

Bank Account - 00146807 Cash-General

Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Co	Amount	Invoice Number
			ECTCOM	SUPPLY						
78718	04/24/18	7965	B&B PALLET CO.	Payment Amount 55 YDS WOOD CHIPS	PV	157625	001	00701	583.00	117704
									134.75	
				55 YDS WOOD CHIPS	PV	157626	001	00701	583.00	117740
				55 YDS WOOD CHIPS	PV	157678	001	00701	583.00	117696
				55 YDS WOOD CHIPS	PV	157679	001	00701	583.00	668313
				55 YDS WOOD CHIPS	PV	157680	001	00701	583.00	668315
78719	04/24/18	18893	BILLTRUST	Payment Amount ONLNFISERV PMT-MAR'18	PV	157735	001	00701	3,032.40	180795
78720	04/24/18	18071	BLUE DIAMOND MATERIALS	Payment Amount 3.01 TN PAVG MATL	PV	157716	001	00701	227.41	1151295
78721	04/24/18	2964	CA DEPARTMENT OF TAX&FEE ADMINISTRATIO N	Payment Amount USE/SALES TAX QE 3/31/18	PV	157724	001	00701	3,425.00	97817885/0331 18
78722	04/24/18	18739	CALIFORNIA HAZARDOUS SERVICES, INC.	Payment Amount APR'18 OP SITE VISIT	PV	157608	001	00701	105.00	62551
78723	04/24/18	20655	CANNON CORPORATION	Payment Amount P/E 3/31 DSGN SVC INTRCNT	PV	157676	001	00701	2,973.25	65861
78724	04/24/18	2513	CAPCO ANALYTICAL SERVICES	Payment Amount MAR'18 SAMPLING	PV	157677	001	00701	365.00	180582
78725	04/24/18	7884	CHARLES CASPARY	Payment Amount EXP-WTRUSE CONF 3/25--28	PV	157728	001	00701	344.44	032818
78726	04/24/18	2786	CEDAR VALLEY PLUMBING	Payment Amount 5 RESTROOM FAUCETS	PV	157618	001	00701	718.02	069146

Batch Number - 261876

Bank Account - 00146807 Cash-General

Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key	Amount	Invoice Number
Number	Date	Number				Number	lfm Co		Number
SUPPLY									
78727	04/24/18	16860	CHEMTREAT, INC.	Payment Amount APR'18 WTR TRMNT	PV	157609	001 00701	718.02 607.68	2579455
78728	04/24/18	20978	CHARLIE CHEN	Payment Amount RFND CR BAL-CLOSED A/C	PV	157637	001 00101	607.68 185.56	073290
78729	04/24/18	20624	CONTRACTOR COMPLIANCE & MONITORING, INC.	Payment Amount MAR'18 LABOR COMPLNC SVC	PV	157669	001 00701	185.56 1,190.00	9787
78730	04/24/18	15755	CORE & MAIN LP	Payment Amount 5 EA-6 & 8 HL 6" HYDS	PV	157704	001 00701	1,190.00 13,168.25	1644087
Alt Payee 15948 CORE & MAIN LP P. O. BOX 28330 ST. LOUIS MO 63146									
78731	04/24/18	2547	COUNTY SANITATION DISTRICTS OF LA COUNTY	Payment Amount TAPIA MAR GRIT HAULING	PV	157689	001 00751	13,168.25 635.17	48892/033118
78732	04/24/18	2601	DELL COMPUTER CORP	Payment Amount DELL 4320 PROJ & DNGL	PV	157590	001 00701	635.17 896.78	10233454739
Alt Payee 7819 DELL MARKETING LP P.O. BOX 910916 PASADENA CA 91110-0916									
78733	04/24/18	11330	DIAL SECURITY	Payment Amount 4/18 HQ SECURITY SVC 4/18 WLK PS SEC SVC 4/18 WLK SECURITY SVC 4/18 TAPIA SECURITY SVC 4/18 RLV	PV	157610	001 00701	896.78 230.00 35.00 70.00 45.00 80.00	321206 321211 321210 321207 321208

Batch Number - 261876

Bank Account - 00146807 Cash-General

Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key I/m	Key Co	Amount	Invoice Number
78734	04/24/18	20979	PAM DILBECK	SECURITY SVC 4/18 RLV FARM SEC SVC	PV	157615	001	00701	35.00	321209
				4/18 IT ROOM SEC SVC	PV	157616	001	00701	57.00	321212
				4/18 HQ LBYY SEC SVC	PV	157617	001	00701	50.00	321213
				Payment Amount				602.00		
				RFND CR	PV	157638	001	00101	144.44	071732
				BAL-CLOSED A/C				144.44		
				Payment Amount				260.99		073341
78735	04/24/18	20980	PATRICIA DRISCOLL	RFND CR	PV	157639	001	00101	260.99	
				BAL-CLOSED A/C				260.99		
				Payment Amount				310.00		000000001763
78736	04/24/18	18111	ELECSYS INTERNATIONAL CORPORATION	MAY'18 MTR DVC MAINT	PV	157621	001	00701	310.00	65
				Payment Amount				310.00		
78737	04/24/18	8923	ENVIRONMENTAL EXPRESS, INC.	6 SPE STOPCOCKS	PV	157592	001	00701	301.62	1000502708
				2 COD VIALS	PV	157593	001	00701	286.97	1000502771
				Payment Amount				588.59		
78738	04/24/18	2654	FAMCON PIPE	MTR BOX PARTS & FTINGS	PV	157674	001	00701	14,003.05	204264
				Payment Amount				14,003.05		6-142-39478
78739	04/24/18	2658	FEDERAL EXPRESS CORP	PKG DELIVERED 3/29/18	PV	157690	001	00101	314.78	
				Payment Amount				314.78		297120
78740	04/24/18	19397	FIRST CHOICE SERVICES	HQ COFFEE SUPPLIES-FEB	PV	157654	001	00701	69.19	
				OPS COFFEE SUPPLIES-FEB	PV	157655	001	00701	57.05	297121
				RLV COFFEE SUPPLIES-FEB	PV	157656	001	00701	42.74	297122
				TAPIA COFFEE SUPPLIES-FEB	PV	157657	001	00701	123.55	297123
				WLK COFFEE SUPPLIES-FEB	PV	157658	001	00701	1.29	943024
				HQ COFFEE	PV	157659	001	00701	91.01	300362

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key lfm	Key Co	Amount	Invoice Number
78741	04/24/18	2650	FISHER SCIENTIFIC	SUPPLIES-MAR	PV	157660	001	00701	74.33	300363
				OPS COFFEE						
				SUPPLIES-MAR	PV	157661	001	00701	44.03	300364
				RLV COFFEE						
				SUPPLIES-MAR	PV	157663	001	00701	69.72	300365
				TAPIA COFFEE						
				SUPPLIES-MAR						
				Payment Amount					572.91	
				TUBING	PV	157717	001	00701	124.74	2150123
				SULFIDE KIT	PV	157718	001	00701	170.07	3013229
				SOD	PV	157719	001	00701	166.97	4147769
				NITROFERRICYA						
				NIDE						
				TUBING & PIPETS	PV	157720	001	00701	179.85	9256186
				Payment Amount					641.63	
				RFND CR	PV	157640	001	00101	166.40	070763
				BAL-CLOSED						
				A/C						
				Payment Amount					166.40	
				4/18 ARMORED	PV	157622	001	00701	337.05	10387424
				TRNSP SVC						
				MAR'18 EXCESS	PV	157715	001	00701	5.90	20294695
				USE FEES						
				Payment Amount					342.95	
				50 FILTERS	PV	157500	001	00701	1,085.81	548809
				45MM						
				Payment Amount					1,085.81	
				UTILITY	PV	157591	001	00701	302.59	9736047474
				CART-WAREHOUS						
				E						
				Payment Amount					1,085.81	
				GRAINGER, INC.						
				DEPT 805178142						
				PALATINE IL 60038-0001						

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Firm Co	Amount	Invoice Number
78746	04/24/18	19548	GRM INFORMATION MANAGEMENT SERVICES-CA	Payment Amount APR'18 RECORDS STORAGE	PV	157670	001 00701	116.12	0356155
								302.59	
								432.44	
78747	04/24/18	16809	ICTUS CONSULTING, LLC	Payment Amount MAR'18 REC MGMT	PV	157671	001 00701	316.32	0356156
								3,055.00	LVMWD-201803
78748	04/24/18	2732	INDUSTRIAL METAL SUPPLY	Payment Amount 2" SS PIPE	PV	157683	001 00751	416.10	2069941
78749	04/24/18	10102	INFOSEND INC.	Payment Amount MAR'18 BILL PRINT/MLNG	PV	157713	001 00701	10,513.16	134965
78750	04/24/18	20662	INPLANT SALES, LLC	Payment Amount FLANGE & VIC GROOVE	PV	157505	001 00701	1,923.92	14938
78751	04/24/18	4144	INTERSTATE BATTERY SYSTEMS	Payment Amount MT34 BATTERY-STOCK	PV	157507	001 00701	107.06	51055074
78752	04/24/18	20823	INVOICE CLOUD INC.	Payment Amount ONLN BILL PMT-MAR'18	PV	157439	001 00701	4,704.00	964-2018_3
78753	04/24/18	3083	JCI JONES CHEMICALS, INC	Payment Amount 4,227 GAL BISULFITE	PV	157434	001 00701	5,621.91	751735
								107.06	
								4,704.00	
								5,621.91	
								462.41	070893
								462.41	

All Payee 13647 JCI JONES CHEMICALS, INC
P.O. BOX 12549
NEWARK NJ 07101-3550

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Payment Number	Payment Date	Address Number	Name	Payment Sub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78755	04/24/18	2611	LA DWP	RECTIFIER 3/14-4/12/18	PV	157730	001	00101	42.84	017698/041318
				Payment Amount					42.84	
78756	04/24/18	3038	LARRY WALKER & ASSOC	P/E	PV	157712	001	00701	5,288.75	00532.02-4
				3/31-TAPIA CHL STDY						
				Payment Amount					5,288.75	
78757	04/24/18	19396	JAY LEWITT	EXP-DC LBY RE PWP 4/9-11	PV	157733	001	00701	1,991.91	0411118
				Payment Amount					1,991.91	
78758	04/24/18	2590	LOS ANGELES DAILY NEWS	DSPPLY/ONLN ADS	PV	157686	001	00101	2,251.00	0000374924
				3/11,14,17,21						
				Payment Amount					2,251.00	
78759	04/24/18	20983	FLOYD MARTIN	RFND CR BAL-CLOSED A/C	PV	157642	001	00101	9.55	072069
				Payment Amount					9.55	
78760	04/24/18	2814	MCMMASTER-CARR SUPPLY CO	ELBOW/PIPE FITTING SS NIPPLES-SURGE TNKS PIPE DIES-CUTTINGS THDS SS PIPE CUTTING THREADS SS UNION/REDUCER BSHG SS UNION/VALVE/F TTNG 1" SS PIPE-CROSS CONCTR	PV	157597	001	00751	70.82	59624094
				Payment Amount					70.82	
				Payment Amount					50.89	59699197
				Payment Amount					211.45	59436331
				Payment Amount					590.84	60132106
				Payment Amount					85.91	60145836
				Payment Amount					282.50	59979885
				Payment Amount					103.12	60793602

Alt Payee 3197 MC MASTER-CARR
P. O. BOX 7690

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
CHICAGO IL 60680-7690										
78761	04/24/18	20984	THOMAS/SANDRA MIDGLEY	Payment Amount RFND CR BAL-CLOSED A/C	PV	157643	001	00101	80.04	069091
78762	04/24/18	3605	MITCHELL INSTRUMENT CO.	Payment Amount GLOVE PROTECTOR	PV	157605	001	00701	176.96	040218H08
78763	04/24/18	16754	NATURAL SURROUNDINGS	Payment Amount APR'18 FLORAL MAINT	PV	157664	001	00701	235.00	6943
78764	04/24/18	16372	OLIN CORPORATION - CHLOR ALKALI	Payment Amount 4,908 GAL HYPOCHLORITE	PV	157435	001	00701	3,031.70	24822224
				4,740 GAL HYPOCHLORITE	PV	157582	001	00701	2,927.92	2484341
				4,914 GAL HYPOCHLORITE	PV	157583	001	00701	3,035.40	2487564
				4,944 GAL HYPOCHLORITE	PV	157584	001	00701	3,053.93	2488374
				4,944 GAL HYPOCHLORITE	PV	157714	001	00701	3,163.18	2491288
All Payee 16373 OLIN CORPORATION - CHLOR ALKALI P.O. BOX 402766 ATLANTA GA 30384-2766										
78765	04/24/18	20728	OLIVAREZ MADRUGA LEMIEUX & O'NEILL	Payment Amount RETAINER/LEGA L SRV-3/18	PV	157709	001	00701	8,060.47	140/033118
				RETAINER/LEGA L SRV-3/18	PV	157709	003	00701	1,887.50	140/033118
				RETAINER/LEGA L SRV-3/18	PV	157710	001	00701	522.24	140/033118
				RETAINER/LEGA L SRV-3/18	PV	157710	002	00701	12,527.02	140/033118
78766	04/24/18	18946	PACIFIC	Payment Amount P/E 3/31 RAW	PV	157504	001	00701	720.00	1381

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Key	Key	Amount	Invoice Number
Number	Date	Number			Number	Item	Code		Number
			ADVANCED CIVIL ENGINEERING, INC.	SLDGG WET WELL					
78767	04/24/18	18874	PACIFIC HYDROTECH CORPORATION	P/E 3/31-TAPIA SRG TNK P/E 3/31 TP WRF AER UPG Payment Amount	PV	157627	001 00701	1,280.00	1379
				PMT#2-DIGESTE R1 REHAB	PV	157665	001 00701	30,253.17	1380
				Payment Amount			32,253.17		
				PMT#2-DIGESTE R1 REHAB	PV	157672	001 00701	191,730.00	10565/PMT#2
				RETENTN#2-DGS TR REHAB	PD	157673	001 00754	9,586.50	RTN#2/10565
				Payment Amount			182,143.50		
				RETENTION#2-D GSTR#1	PV	157721	001 00754	9,586.50	10565/RTN#2
				Payment Amount			9,586.50		
				EE BNFT SRV P/E 2/28/18	PV	157433	001 00701	162.00	8188368
				ALT PAYEE					
				PILLSBURY WINTHROP SHAW PITTMAN LLP P. O. BOX 742262 LOS ANGELES CA 90074-2262					
				Payment Amount			162.00		
				EXP-WTRUSE CONF 3/24-27	PV	157726	001 00701	1,150.58	032718
				Payment Amount			1,150.58		
				PTM GENERAL ENGINEERING SERVICES INC.	PV	157644	001 00101	1,017.49	075724
				Payment Amount			1,017.49		
				EXP-WTRUSE CONF 3/24-26	PV	157729	001 00701	395.09	032618
				Payment Amount			395.09		
				26.777 FILL SAND	PV	157630	001 00701	524.74	64921
				MATERIALS & AGGREGATE SALES, INC					

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78774	04/24/18	18973	SOUTHERN COUNTIES OIL	Payment Amount GST/MEROPA/DE 100 OILS MEROPA OIL	PV	157585	001	00701	2,974.74	1113859-IN
				Payment Amount					524.74	
78775	04/24/18	20898	SDI PRESENCE LLC	Payment Amount P/E 2/28 ERP CNSLT SRV	PV	157586	001	00701	946.08	1119212-IN
				Payment Amount					3,920.82	
			Alt Payee	20896 SDI PRESENCE LLC 29290 NETWORK PLACE CHICAGO IL 60673-1292						184
78776	04/24/18	20885	KAREN SHAVER	Payment Amount RFND CR BAL-CLOSED A/C	PV	157645	001	00101	214.20	066508
				Payment Amount					1,006.25	
78777	04/24/18	2948	SMITH PIPE & SUPPLY	Payment Amount 30 GAL ROUNDUP PRO	PV	157594	001	00751	1,401.60	3269253
				Payment Amount					214.20	
78778	04/24/18	2952	SOFTWARE HOUSE INTL	Payment Amount CELL PHONE CASE	PV	157603	001	00701	17.52	S47381790
			Alt Payee	7422 SOFTWARE HOUSE INTERNATIONAL P. O. BOX 952121 DALLAS TX 75395-2121						
78779	04/24/18	16120	SOIL CONTROL LAB	Payment Amount RANCHO COMPOST	PV	157606	001	00751	349.00	8030541
				Payment Amount					17.52	
78780	04/24/18	19093	SOLARCITY - AU SOLAR 1 (GS1)	Payment Amount RW P/S-MAR'18 SOLAR	PV	157668	001	00701	11,853.14	7093691
				Payment Amount					349.00	
78781	04/24/18	16271	SPOK, INC.	Payment Amount PAGER SRV 4/11-5/10/18 PAGER SRV 4/11-5/10/18 PAGER SRV 4/11-5/10/18	PV	157725	001	00701	70.91	B0143084P
				Payment Amount					11,853.14	
				Payment Amount					70.91	
				Payment Amount					.49	
				Payment Amount					42.19	
78782	04/24/18	2969	STATE WATER RESOURCES	Payment Amount PRMT FEE-TWRF 4/18-3/19	PV	157722	001	00751	1,400.00	SW-0150777
				Payment Amount					113.59	

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Co	Amount	Invoice Number
CONTROL BOARD										
78783	04/24/18	14479	STEPHEN'S VIDEO PRODUCTIONS	Payment Amount VIDEO SRV LV MTGS MAR'18	PV	157440	001	00701	1,095.00	3-27-18
									1,400.00	
78784	04/24/18	19681	THE PUN GROUP, LLP	Payment Amount PMT#1-AUDIT/1 NTRM FY17-18	PV	157667	001	00701	15,000.00	111580
									1,642.50	
78785	04/24/18	20971	THOUSAND OAKS PLUMBING INC.	Payment Amount HYDROJET RLV FLR DRAINS REMOVE DEBRIS DRAIN CLNG	PV	157595	001	00751	875.00	16387978
									15,000.00	
78786	04/24/18	9505	TIRE MAN AGOURA	Payment Amount 4 TIRES/INSTALL #816	PV	157502	001	00701	898.23	2069776
									1,400.00	
78787	04/24/18	17645	TORO ENTERPRISES INC.	Payment Amount P/E 3/31 DGSTR#1 CLNG	PV	157682	001	00701	17,750.00	11433
									1,161.03	
78788	04/24/18	18651	TOYOTA-LIFT OF LOS ANGELES	Payment Amount SRV VEH #708	PV	157702	001	00701	12.86	PSI-0064326
									17,750.00	
78789	04/24/18	19135	TRANSUNION RISK & ALTERNATIVE DATA SOLUT	Payment Amount ONLN SRCH BAD DBT 3/18	PV	157604	001	00701	123.00	974571/MAR18
									397.10	
78790	04/24/18	3006	UNDERGROUND SERVICE ALERT	Payment Amount 190 TICKETS MAR'18	PV	157607	001	00101	323.50	320180414
									.323.50	

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78791	04/24/18	2780	VALLEY NEWS GROUP	AD 4/3-RECYL WTR TRAIN	PV	157588	001	00751	120.00	4-5-18
				Payment Amount					120.00	
78792	04/24/18	3026	VENTURA COUNTY STAR	GRDN CLSS ADS-3/11,14,17	PV	157687	001	00101	1,309.00	956860/MAR'18
				Payment Amount					1,309.00	
78793	04/24/18	3034	VORTEX INDUSTRIES	TAPIA CNTRL RM DOOR	PV	157506	001	00701	2,365.72	01-1220591-1
				Payment Amount					2,365.72	
78794	04/24/18	3035	VWR SCIENTIFIC	BROTH,GLOVES, AGAR	PV	157587	001	00701	583.43	8081849038
				Payment Amount					583.43	
			Alt Payee	3216 VWR INTERNATIONAL, INC P. O. BOX 640169 PITTSBURGH PA 15264-0169						
78795	04/24/18	19685	W. LITTEN INC.	SPRYFLD 4/2-4/7/18	PV	157628	001	00701	4,743.56	18021
				Payment Amount					4,743.56	
78796	04/24/18	18914	WECK LABORATORIES, INC.	TRAIL MAINT-TAPIA	PV	157629	001	00701	153.29	18022
				Payment Amount					153.29	
				Payment Amount					4,896.85	
				TAPIA EFFLNT-8C-1603	PV	157436	001	00701	20.40	W8C2145-LV
				Payment Amount					20.40	
				COMPOST-8B210	PV	157437	001	00701	153.00	W8D0172-LV
				Payment Amount					153.00	
				COMPOST-8C061	PV	157438	001	00701	153.00	W8D0173-LV
				Payment Amount					153.00	
				WLK TTHM-8C12092	PV	157509	001	00701	312.40	W8C1784-LV
				Payment Amount					312.40	
				GEN CONNCT PARTS	PV	157578	001	00701	1,863.19	770135
				Payment Amount					1,863.19	
				LED TUBES	PV	157579	001	00701	238.16	773392
				FR DSS NO 2	PV	157580	001	00701	57.81	773747
				Payment Amount					57.81	
				STARTER	PV	157581	001	00701	276.93	774444
				ACCSTRY						
			Alt Payee	6443 WESCO DISTRIBUTION, INC						

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key	Amount	Invoice Number
							Item Co		
PO BOX 31001-0465									
PASADENA CA 91110-0465									
78798	04/24/18	3048	WEST COAST AIR	SRV CNPRSSRS #1 & 2	PV	157508	001 00701	530.33	590778
CONDITIONING									
78799	04/24/18	20987	JEMMA WILDERMUTH	RFND CR BAL-CLOSED A/C	PV	157646	001 00101	6.23	068262
Total Amount of Payments Written 443,320.51									
Total Number of Payments Written 95									

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78800	05/01/18	19269	ACC BUSINESS	INTERNET	PV	157799	001	00701	977.08	181032323
				3/11-4/10/18						
				Payment Amount					977.08	
78801	05/01/18	20389	AIRGAS SPECIALTY PRODUCTS	31,460 LB AMMONIUM HYD	PV	157823	001	00701	3,100.38	131537885
				Payment Amount					3,100.38	
				Payment Amount					3,100.38	
78802	05/01/18	2869	AT&T	SRV	PV	157785	001	00701	147.36	4639/041418
				4/14-5/13/18						
				SRV	PV	157786	001	00751	147.36	4860/041418
				4/14-5/13/18						
				Payment Amount					294.72	
78803	05/01/18	19993	STEVEN BAIRD	REIMB-PHOTOS-EVENT@4/25	PV	157819	001	00701	113.93	811500087475
				Payment Amount					113.93	
78804	05/01/18	2425	BANK OF AMERICA	VISA	PV	157737	001	00701	280.00	6347/040718
				CHG-PATTERSON -MAR'18	PV	157737	002	00701	30.00	6347/040718
				VISA	PV	157737	003	00701	20.00	6347/040718
				CHG-PATTERSON -MAR'18	PV	157738	001	00701	973.62	7651/040718
				VISA	PV	157738	002	00701	699.00	7651/040718
				CHG-CASPARY-M AR'18	PV	157738	002	00701	127.97	9411/040718
				VISA	PV	157739	001	00701	304.54	9411/040718
				CHG-GUZMAN-MA R'18	PV	157739	002	00701	690.70	9411/040718
				VISA	PV	157739	003	00701		

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Payment Number	Date	Address Number	Name	Payment Stub Message	Tr	Document Number	Key Item Co	Amount	Invoice Number
				CHG-GUZMAN-MA					
			R'18		PV	157739	004 00701	321.93	94111/040718
			VISA						
				CHG-GUZMAN-MA					
			R'18		PV	157739	005 00701	55.04	94111/040718
			VISA						
				CHG-GUZMAN-MA					
			R'18		PV	157739	006 00701	527.48	94111/040718
			VISA						
				CHG-GUZMAN-MA					
			R'18		PV	157739	007 00701	920.74	94111/040718
			VISA						
				CHG-GUZMAN-MA					
			R'18		PV	157740	001 00701	332.97	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	002 00701	55.17	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	003 00701	56.02	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	004 00701	10.00	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	005 00701	136.24	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	006 00701	690.70	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	007 00701	39.01	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	008 00701	32.80	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18		PV	157740	009 00701	584.50	1162/040718
			VISA						
				CHG-PEDERSEN-					
			MAR'18						

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Payment Number	Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Nm Co	Amount	Invoice Number
				VISA	PV	157741	001 00701	452.00	7131/040718
				CHG-PETERSON- MAR'18					
				VISA	PV	157742	001 00701	550.00	5664/040718
				CHG-POLAN-MAR '18					
				VISA	PV	157743	001 00701	886.86	6305/040718
				CHG-RENGER-MA R'18					
				VISA CHG-FIN ADMIN-MAR'18	PV	157744	001 00701	88.64	1670/040718
				VISA	PV	157745	001 00701	125.10	7112/040718
				CHG-ALMAGUER- MAR'18					
				VISA	PV	157745	002 00701	131.19	7112/040718
				CHG-ALMAGUER- MAR'18					
				VISA	PV	157745	003 00701	19.70	7112/040718
				CHG-ALMAGUER- MAR'18					
				VISA	PV	157745	004 00701	88.00	7112/040718
				CHG-ALMAGUER- MAR'18					
				VISA	PV	157746	001 00101	81.50	8102/040718
				CHG-BOCKELMAN -MAR'18					
				VISA	PV	157746	002 00101	64.07	8102/040718
				CHG-BOCKELMAN -MAR'18					
				VISA	PV	157746	003 00101	825.00	8102/040718
				CHG-BOCKELMAN -MAR'18					
				VISA	PV	157746	004 00101	120.42	8102/040718
				CHG-BOCKELMAN -MAR'18					
				VISA	PV	157747	001 00101	327.41	1112/040718
				CHG-KREIDER-M AR'18					
				VISA	PV	157748	001 00101	92.63	5151/040718
				CHG-GIL-MAR'1					

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Payment Number	Address Number	Name	Payment Sub Message	Document Number	Key Im Co	Amount	Invoice Number
			VISA	157748	002 00101	249.18	5151/040718
			CHG-GIL-MAR'1 8				
			VISA	157748	003 00101	88.11	5151/040718
			CHG-GIL-MAR'1 8				
			VISA	157748	004 00101	44.96	5151/040718
			CHG-GIL-MAR'1 8				
			VISA	157748	005 00101	39.19	5151/040718
			CHG-GIL-MAR'1 8				
			VISA	157748	006 00101	35.32	5151/040718
			CHG-GIL-MAR'1 8				
			VISA	157748	007 00101	127.82	5151/040718
			CHG-GIL-MAR'1 8				
			VISA	157749	001 00701	59.72	3713/040718
			CHG-JONES-MAR '18				
			VISA	157749	002 00701	116.90	3713/040718
			CHG-JONES-MAR '18				
			VISA	157749	003 00701	78.20	3713/040718
			CHG-JONES-MAR '18				
			VISA	157749	004 00701	40.54	3713/040718
			CHG-JONES-MAR '18				
			VISA	157749	005 00701	77.22	3713/040718
			CHG-JONES-MAR '18				
			VISA	157749	006 00701	151.92	3713/040718
			CHG-JONES-MAR '18				
			VISA	157750	001 00701	50.00	4176/040718
			CHG-PANIAGUA- MAR'18				
			VISA	157750	002 00701	200.00	4176/040718
			CHG-PANIAGUA-				

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Payment Number	Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Co	Amount	Invoice Number
			MAR'18		PV	157750	003	00701	58.47	4176/040718
			VISA							
			CHG-PANIAGUA-							
			MAR'18		PV	157750	004	00701	360.00	4176/040718
			VISA							
			CHG-PANIAGUA-							
			MAR'18		PV	157750	005	00701	77.06	4176/040718
			VISA							
			CHG-PANIAGUA-							
			MAR'18		PV	157750	006	00701	563.86	4176/040718
			VISA							
			CHG-PANIAGUA-							
			MAR'18		PV	157751	001	00701	40.36	3252/040718
			VISA							
			CHG-PETERS-MA							
			R'18		PV	157751	002	00701	261.59	3252/040718
			VISA							
			CHG-PETERS-MA							
			R'18		PV	157751	003	00701	388.60	3252/040718
			VISA							
			CHG-PETERS-MA							
			R'18		PV	157751	004	00701	139.50	3252/040718
			VISA							
			CHG-PETERS-MA							
			R'18		PV	157751	005	00701	283.92	3252/040718
			VISA							
			CHG-PETERS-MA							
			R'18		PV	157751	006	00701	117.96	3252/040718
			VISA							
			CHG-PETERS-MA							
			R'18		PV	157751	007	00701	545.00	3252/040718
			VISA							
			CHG-PETERS-MA							
			R'18		PV	157752	001	00701	185.00	8913/040718
			VISA							
			CHG-ROBINS-MA							
			R'18		PV	157753	001	00701	1,258.16	1595/040718
			VISA-SACCAREC							
			CIA-MAR'18							
			VISA-SACCAREC		PV	157753	002	00701	30.00	1595/040718
			CIA-MAR'18							

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Payment Number	Date	Address Number	Name	Payment Slub Message	Ty	Document Number	Key Item Co	Amount	Invoice Number
				VISA-SACCAREC	PV	157753	003 00701	90.00	1595/040718
			C/A-MAR'18						
			VISA		PV	157754	001 00701	296.19	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	002 00701	60.00	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	003 00701	74.71	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	004 00701	195.91	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	005 00701	14.21	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	006 00701	112.19	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	007 00701	691.32	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	008 00701	402.87	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157754	009 00701	37.96	0615/040718
			CHG-TRIPLETT- MAR'18						
			VISA		PV	157755	001 00701	73.52	0751/040718
			CHG-VOLLMAR-M AR'18						
			VISA		PV	157755	002 00701	1,445.51	0751/040718
			CHG-VOLLMAR-M AR'18						
			VISA		PV	157755	003 00701	47.94	0751/040718
			CHG-VOLLMAR-M AR'18						
			VISA		PV	157756	001 00701	11.12	7926/040718
			CHG-WINK-MAR' 18						

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Payment Number	Date	Address Number	Name	Payment Sub Message	Ty	Document Number	Key Item Co	Amount	Invoice Number
				VISA	PV	157756	002 00701	102.30	7926/040718
			CHG-WINK-MAR' 18						
			VISA		PV	157756	003 00701	250.00	7926/040718
			CHG-WINK-MAR' 18						
			VISA		PV	157756	004 00701	20.61	7926/040718
			CHG-WINK-MAR' 18						
			VISA		PV	157756	005 00701	160.55	7926/040718
			CHG-WINK-MAR' 18						
			VISA		PV	157756	006 00701	48.39	7926/040718
			CHG-WINK-MAR' 18						
			VISA		PV	157757	001 00701	224.00	6218/040718
			CHG-ZHAO-MAR' 18						
			VISA		PV	157757	002 00701	32.10	6218/040718
			CHG-ZHAO-MAR' 18						
			VISA		PV	157757	003 00701	13.75	6218/040718
			CHG-ZHAO-MAR' 18						
			VISA		PV	157758	001 00701	302.00	2372/040718
			CHG-LIPPMAN-M AR'18						
			VISA		PV	157758	002 00701	767.94	2372/040718
			CHG-LIPPMAN-M AR'18						
			VISA		PV	157759	001 00102	173.92	3954/040718
			CHG-GARMAN-MA R'18						
			VISA		PV	157759	002 00102	917.47	3954/040718
			CHG-GARMAN-MA R'18						
			VISA		PV	157759	003 00102	241.98	3954/040718
			CHG-GARMAN-MA R'18						
			VISA		PV	157759	004 00102	27.10	3954/040718
			CHG-GARMAN-MA						

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Co	Amount	Invoice Number
				R'18						
				VISA	PV	157759	005	00102	120.58	3954/040718
				CHG-GARMAN-MA						
				R'18						
				Payment Amount				23,365.65		
78805	05/01/18	20491	BEST BEST & KRIEGER LLP	P/E 3/31 FED LOBBYING	PV	157810	001	00701	5,000.00	818866
				P/E 3/31 ST LOBBYING	PV	157811	001	00701	5,000.00	818867
				Payment Amount				10,000.00		
78806	05/01/18	20872	CANDU GRAPHICS	PURE WTR	PV	157822	001	00751	328.50	72198
				NEWLTR				328.50		
				Payment Amount				328.50		
78807	05/01/18	2539	CITY OF SIMI VALLEY	PCH WTR	PV	157768	001	00101	7,546.69	0092664396
				2/8--4/11/18						
				PCH WTR	PV	157769	001	00101	366.55	0092664391
				2/8--4/11/18						
				Payment Amount				7,913.24		
78808	05/01/18	4586	CONSOLIDATED ELECTRICAL DISTRIBUTORS	EXP BOX 3 PC UNIONS	PV	157808	001	00701	278.61	9009-770087
				2 SEL SWITCHES						
				Payment Amount				524.59		
78809	05/01/18	2638	ENVIRONMENTAL RESOURCE ASSOC	LAB STANDARDS	PV	157817	001	00701	1,750.41	862976
				MISC LAB STANDARDS						
				Payment Amount				2,216.88		
78810	05/01/18	2654	FAMCON PIPE	HYD BURRIES & ASSY	PV	157820	001	00701	2,286.36	204722
				Payment Amount				3,967.29		
78811	05/01/18	6770	G.I. INDUSTRIES	4/1--4/15/18	PV	157821	001	00701	952.02	2853725-0283-8
				Payment Amount				2,286.36		
				Alt Payee						
				6771 G.I. INDUSTRIES						
				P. O. BOX 541065						
				LOS ANGELES CA 90054-1065						
78812	05/01/18	2701	GRAINGER,	UTLTY SINK	PV	157760	001	00701	122.11	9739081264
				Payment Amount				952.02		

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Payment Number	Payment Date	Address Number	Name	Payment Sub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
			INC.	METERSHOP	PV	157761	001	00101	56.41	9742901573
				2 VINYL LABEL REFILLS						
				4 VINYL LABEL REFILLS	PV	157762	001	00101	112.83	9743537905
				CHK WRNCH	PV	157763	001	00751	165.28	9740537254
				PCH/CHL SET						
			5453 GRAINGER, INC. DEPT 805178142 PALATINE IL 60038-0001	Payment Amount					456.63	
78813	05/01/18	4525	HARRINGTON INDUSTRIAL PLASTICS INC.	2" UNION	PV	157782	001	00751	55.54	005B8827
				1/4" ST	PV	157783	001	00751	102.08	005B8854
				ELBW/1" UNION						
			7132 HARRINGTON INDUSTRIAL PLASTICS LLC P. O. BOX 5128 CHINO CA 91708-5128	Payment Amount					157.62	
78814	05/01/18	2581	JOHN CRANE, INC.	RPLCMNT SEAL KIT-CORNELL	PV	157804	001	00701	3,147.18	3476928
				RPLCMNT SEAL KIT-CORNELL	PV	157804	002	00701	95.42	3476928
			3350 JOHN CRANE INC. 24929 NETWORK PLC CHICAGO IL 60673-1249	Payment Amount					3,242.60	
78815	05/01/18	5230	KENNEDY/JENKS CONSULTANTS	P/E 3/30 TWN LKS PS DSGN	PV	157800	001	00701	1,899.30	122060
				P/E 3/30 MGT SRV CNTRT	PV	157801	001	00701	1,950.00	120658
				Payment Amount					3,849.30	
78816	05/01/18	2611	LADWP	RECTIFIER	PV	157767	001	00101	38.08	503850/041618
				3/15-4/13/18						
				Payment Amount					38.08	
78817	05/01/18	3352	LAS VIRGENES MUNICIPAL WATER DISTRICT	JED SMITH P/S	PV	157770	001	00101	44.30	0254/041118
				3/6-4/5/18						

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Co	Amount	Invoice Number
				BLDG#2	PV	157771	001	00701	311.68	2658/041818
				3/8-4/11/18						
				BLDG#7	PV	157772	001	00701	638.07	2656/041818
				3/8-4/11/18						
				FIRE	PV	157773	001	00701	7.50	2654/041818
				PROCTN#7						
				3/8-4/11						
				FIRE PROCTN	PV	157774	001	00701	7.50	2650/041818
				3/8-4/11						
				HO BD#8	PV	157775	001	00701	275.38	2647/041818
				3/8-4/11/18						
				HQ BD#1	PV	157776	001	00101	263.72	2620/041818
				3/8-4/11/18						
				RLV	PV	157777	001	00751	291.50	2090/041818
				3/8-4/11/18						
				TAPIA	PV	157778	001	00751	499.23	1760/041818
				3/8-4/11/18						
				RLV FARM	PV	157816	001	00751	128.26	2080/041818
				3/8-4/11/18						
				Payment Amount					2,467.14	
78818	05/01/18	3483	DAVID LIPPMAN	CELL PHN	PV	157765	001	00701	100.00	7898/040318
				EXP-3/4-4/3/1						
				8						
				Payment Amount					100.00	
78819	05/01/18	17295	MAILFINANCE	MAIL MCHN PMT	PV	157807	001	00701	325.50	N7089764
				4/9-5/8/18						
				Payment Amount					325.50	
78820	05/01/18	18874	PACIFIC HYDROTECH CORPORATION	PMT#3 RAW SLG	PV	157813	001	00701	12,150.00	10537/#3
				WW-FINAL						
				PMT#3-RTN SLG	PD	157814	001	00754	607.50-	10537/RTN#3
				WW						
				Payment Amount					11,542.50	
78821	05/01/18	19164	DONALD PATTERSON	MLG-IUP CHNG	PV	157764	001	00701	79.68	041818
				WRKSH 4/18						
				Payment Amount					79.68	
78822	05/01/18	18821	LEONARD POLAN	EXP-CASAWTRU	PV	157787	001	00701	508.02	041118
				SE FRM 4/11						
				Payment Amount					508.02	
78823	05/01/18	8464	PRAXAIR DISTRIBUTION,	(9) AIR BOTTLES	PV	157781	001	00101	440.29	82421360

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
			INC							
		All Payee	8898 PRAXAIR DISTRIBUTION INC. DEPT. LA 21511 PASADENA CA 91185-1511							
78824	05/01/18	18505	RAFTELIS FINANCIAL CONSULTANTS, INC.	Payment Amount P/E 3/31/-2018 MISC FEE STDY	PV	157805	001	00701	3,496.25	LVCA1803-01
									440.29	
78825	05/01/18	15800	SAFE AND BEAUTIFUL TREE CO., INC.	Payment Amount TRIM TREES SEMINOLE P/S	PV	157780	001	00101	1,000.00	040718
									3,496.25	
78826	05/01/18	2926	SCAP	Payment Amount MEMBRSHF FY 18-19	PV	157766	001	00701	7,587.00	18/19-51
									1,000.00	
78827	05/01/18	20898	SDI PRESENCE LLC	Payment Amount P/E 3/31 ERP CONSLT SRV	PV	157802	001	00701	9,038.84	312
			All Payee	20936 SDI PRESENCE LLC 29290 NETWORK PLACE CHICAGO IL 60673-1292						
									7,587.00	
78828	05/01/18	2952	SOFTWARE HOUSE INTL.	Payment Amount MERAKI SWITCH/5 YR LIC MERAKI SWITCH/5 YR LIC	PV	157806	001	00701	5,033.42	B08056960
									9,038.84	
			All Payee	7422 SOFTWARE HOUSE INTERNATIONAL P. O. BOX 952121 DALLAS TX 75395-2121						
									788.57	B08056960
78829	05/01/18	15923	TOTAL-WESTERN, INC.	Payment Amount ANLN MAINT PRKR BOILER	PV	157784	001	00751	1,750.00	774.014-1
									5,821.99	
78830	05/01/18	20860	TPX COMMUNICATION	Payment Amount SRV 4/16-5/15/18	PV	157815	001	00701	1,925.27	102450046-0
									1,750.00	

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Payment Number	Payment Date	Address Number	Name	Payment Sub Message	Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78831	05/01/18	20572	TRUSSELL TECHNOLOGIES, INC.	P/E 3/31-MDLG LV RES	PV	157812	001	00701	16,720.00	5061
									1,925.27	
78832	05/01/18	3429	UNITED PARCEL SERVICE	PKG DELVRD 3/7 & 2/20	PV	157779	001	00701	71.21	000025W020158 /2018
78833	05/01/18	16542	VISION INTERNET PROVIDERS	REDESIGN PRJ-PMT#4	PV	157803	001	00701	5,850.00	36502
									71.21	
78834	05/01/18	3048	WEST COAST AIR CONDITIONING	REPLC FAN BELTS-RLV	PV	157788	001	00701	71.48	S91665
									5,850.00	
									450.00	S91327
									30.00	S91216
									265.00	S91269
									115.00	S91227
									50.00	S91229
									62.00	S91233
									108.00	S91232
									45.00	S91228
									135.00	S91230
									1,331.48	
Total Amount of Payments Written									131,623.16	
Total Number of Payments Written									35	

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78835	05/08/18	19071	A BEE MAN	BEE REMOVAL 8/20/17	PV	157888	001	00701	650.00	20756
78836	05/08/18	8560	ADVANCED UTILITY SYSTEMS	Payment Amount PMT#3-CIS V4 UPGRADE	PV	157912	001	00701	18,637.50	XT00137264
78837	05/08/18	18647	AMTECH ELEVATOR SERVICES	Payment Amount 5/1-7/31/18 ELEV MTN	PV	157851	001	00701	910.29	DVA009741518
78838	05/08/18	2397	AQUATIC BIOASSAY & CONSULTING	Payment Amount 4/18 CHRONIC NPDES BIOASSYS 4/18 SELENASTRUM-N PDES	PV	157858	001	00701	885.00	LVS0418.0333
78839	05/08/18	5625	ASSOC. OF WATER AGENCIES OF VENTURA CO	Payment Amount REG-OP TECH WRKSHP 4/19	PV	157938	001	00701	1,190.00	06-10804
78840	05/08/18	2869	AT&T	Payment Amount SRV 4/23-5/22/18 SRV 4/23-5/22/18 SRV 4/23-5/22/18 SRV 4/23-5/22/18 SRV 4/20-5/19/18 SRV 4/22-5/21/18	PV	157832	001	00101	228.37	0210/042318
78841	05/08/18	2407	ATLAS TOWING	Payment Amount TOW SRV-VEH#868 4/16/18	PV	157887	001	00701	367.00	1984/042318
78842	05/08/18	20655	CANNON	Payment Amount P/E 3/31	PV	157857	001	00701	40.18	7426/042318
									152.63	2430/042318
									147.34	2150/042018
									753.51	0119/042218
									1,588.39	57486

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
CORPORATION										
78843	05/08/18	18107	CAROLLO ENGINEERING, INC	SCADA EVAL P/E 3/31	PV	157857	002	00701	40.18	66011
				SCADA EVAL P/E 3/31	PV	157857	003	00701	40.18	66011
				SCADA EVAL P/E 3/31 TWRF	PV	157859	001	00701	2,552.25	65961
				REHAB Payment Amount					2,672.79	
78843	05/08/18	18107	CAROLLO ENGINEERING, INC	P/E 3/31 PURE WTR DEMO	PV	157855	001	00701	9,884.66	0166011
				REPAIR TIRE-VEH #864	PV	157843	001	00701	258.75	506483
78844	05/08/18	20797	CHRIS MOBILE TIRE SERVICE	Payment Amount					9,884.66	
				Payment Amount					258.75	
78845	05/08/18	3882	CH2M HILL, ENGINEERS, INC.	STRM/WTR CAP STDY P/E	PV	157916	001	00701	1,091.40	381142957
				033018 Payment Amount					1,091.40	
78846	05/08/18	2541	CITY OF WESTLAKE VILLAGE	PERMIT-32363 LK PLSNT	PV	157844	001	00101	230.00	17718-085
				Payment Amount					230.00	
78847	05/08/18	2557	COMBAT FIRE PROTECTION	ANL FIRE EXT INSP&SRV	PV	157948	001	00701	493.31	37419
				ANL FIRE EXT INSP&SRV	PV	157948	002	00701	621.80	37419
				ANL FIRE EXT INSP&SRV	PV	157948	003	00701	322.86	37419
				ANL FIRE EXT INSP&SRV	PV	157948	004	00701	660.71	37419
				ANL FIRE EXT INSP&SRV	PV	157948	005	00701	1,044.88	37419
				ANL FIRE EXT INSP&SRV	PV	157948	006	00701	1,055.34	37419
				ANL FIRE EXT INSP&SRV	PV	157948	007	00701	541.18	37419
				ANL FIRE EXT INSP&SRV	PV	157948	008	00701	23.92	37419
				Payment Amount					4,764.00	
78848	05/08/18	19270	COMMUNICATION	MAY'18 SITE	PV	157936	001	00101	955.09	57070

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Ifm Co	Amount	Invoice Number
			S RELAY, LLC	RENT SCADA					
				Payment Amount				955.09	
78849	05/08/18	4586	CONSOLIDATED ELECTRICAL DISTRIBUTORS	MISC PARTS @ TWRF	PV	157945	001 00701	2,264.35	9009-770919
				CONTACT BLOCK	PV	157946	001 00701	383.40	9009-770430
				DISCNT	PD	157947	001 00751	41.20	9009-770919
				INV#9009-770919					
				Payment Amount				2,606.55	
78850	05/08/18	15755	CORE & MAIN LP	HEAD BOLTS	PV	157949	001 00701	279.19	1721515
				BALL VALVE, TEE & SWVL	PV	157950	001 00701	238.86	1721532
				Payment Amount				518.05	
			Alt Payee 15948 CORE & MAIN LP P. O. BOX 28330 ST. LOUIS MO 63146	3/24-4/23/18	PV	157852	001 00701	94.41	54040
78851	05/08/18	20685	DOCUMENT SYSTEMS INC	CANON MNT-C/S				94.41	
				Payment Amount				977.32	053232
78852	05/08/18	21000	MARGARET DOELLSTEDT	RFND CR	PV	157852	001 00101	977.32	
				BAL-OPEN A/C					
				Payment Amount				3,911.19	204930
78853	05/08/18	2654	FAMCON PIPE	ADAPTORS, BALL VALVES	PV	157951	001 00701	3,911.19	
				Payment Amount				3,911.19	
78854	05/08/18	2658	FEDERAL EXPRESS CORP	PACKAGE DEL 4/12/18	PV	157885	001 00101	278.02	6-157-82468
				PACKAGE DEL 4/2/18	PV	157886	001 00701	17.45	6-150-36517
				Payment Amount				295.47	
78855	05/08/18	4971	FUGRO USA LAND, INC.	P/E 4/19/18	PV	157853	001 00701	2,356.25	04.62150074-1
				QTRLY MNTG LRNZO					6
				Payment Amount				2,356.25	

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78856	05/08/18	6770	G.I. INDUSTRIES	5/1 HQ & SHOP DISP	PV	157838	001	00701	651.18	2853813-0283-2
				5/18 TAPIA GRIT DISP	PV	157913	001	00701	703.04	2529658-0283-5
				5/18 TAPIA DISP	PV	157914	001	00701	917.58	2529655-0283-1
				5/18 WLK DISP	PV	157915	001	00701	292.54	2448848-0283-0
<p>Alt Payee 6771 G.I. INDUSTRIES P. O. BOX 541065 LOS ANGELES CA 90054-1065</p>										
78857	05/08/18	2701	GRAINGER, INC.	RESCUE POLE	PV	157839	001	00701	433.41	9749406279
<p>Payment Amount 2,564.34</p>										
				CUTTING & IR COMP OIL	PV	157840	001	00751	122.60	9745087172
				3 PH PEN BATTERIES	PV	157841	001	00751	14.81	9745542093
				WAREHOUSE UTILITY CART	PV	157842	001	00701	273.76	9746481721
<p>Alt Payee 5453 GRAINGER, INC. DEPT 805178142 PALATINE IL 60038-0001</p>										
78858	05/08/18	20972	HAAKER EQUIPMENT COMPANY	RPR SEWER CAMERA	PV	157827	001	00751	2,025.29	W50544
<p>Payment Amount 844.58</p>										
78859	05/08/18	2705	HACH COMPANY	PH STRIPS/CHEMKE	PV	157908	001	00701	1,104.56	10905119
<p>Payment Amount 2,025.29</p>										
				(3) CHEMKEY REPAIR	PV	157909	001	00701	531.48	10910195
				TURBIDMETER REPAIR	PV	157910	001	00701	409.25	10923770
				TURBIDMETER REPAIR	PV	157911	001	00701	361.00	10923771
<p>Alt Payee 6442 HACH COMPANY 2207 COLLECTIONS CENTER DR CHICAGO IL 60693</p>										
										2,406.29
<p>Payment Amount</p>										

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78860	05/08/18	10102	INFOSEND INC.	PRNT/MAIL PROP218 NOTE	PV	157884	001 00701	6,988.23	132860
				Payment Amount				6,988.23	
78861	05/08/18	20823	INVOICE CLOUD INC.	ONLN BILL PMT-APR'18	PV	157865	001 00701	4,446.21	964-2018_4
				Payment Amount				4,446.21	
78862	05/08/18	2997	J G TUCKER & SONS	(4) KNEE PADS	PV	157829	001 00701	137.02	7998
				Payment Amount				137.02	
78863	05/08/18	20594	KAMBRIAN CORPORATION	DELL PWR EDG R740 SRVR	PV	157878	001 00701	15,106.08	18123
				Payment Amount				15,106.08	
78864	05/08/18	5230	KENNEDY/JENKS CONSULTANTS	P/E 3/30-TITLE XVI STDY	PV	157877	001 00701	18,727.50	120785
				Payment Amount				18,727.50	
78865	05/08/18	2611	LA DWP	RECTIFIER 3/27-4/24/18	PV	157862	001 00101	38.08	851260/042518
				Payment Amount				38.08	
78866	05/08/18	20502	LABWORKS	LBWRKS MAINT 9/1/17-8/31/18	PV	157943	001 00701	5,967.00	LW-1625
				Payment Amount				5,967.00	
78867	05/08/18	3352	LAS VIRGENES MUNICIPAL WATER DISTRICT	L/S#2 3/13-4/16/18	PV	157880	001 00130	41.25	0570/042518
				Payment Amount				41.25	
78868	05/08/18	3514	LOS ANGELES COUNTY REGISTRAR-REC ORDER	L/S#1 3/13-4/16/18 NOE FEE-TWRP REHAB	PV	157881	001 00130	43.84	1775/042518
				Payment Amount				43.84	
78869	05/08/18	2614	MCMMASTER-CARR SUPPLY CO	SS PIPE & NIPPLE LOCKWASHERS PIPE NIPPLS/GRSE GUN	PV	157824	001 00751	386.66	61206958
				Payment Amount				386.66	
								156.39	60855798
								80.63	62344047

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		3197	MC MASTER-CARR P. O. BOX 7690 CHICAGO IL 60680-7690							
				Payment Amount					623.68	
78870	05/08/18	20954	MICHAEL MCNUTT	EXP-DC LBY 4/9--4/12/18	PV	157941	001	00701	98.61	041218
				Payment Amount					98.61	
78871	05/08/18	20973	MERRIMAC ENERGY GROUP	8,407 GAL REG GAS	PV	157868	001	00701	25,548.74	2181345
				Payment Amount					25,548.74	
78872	05/08/18	14322	MILES CHEMICAL COMPANY, INC	1T FERRIC CHLORIDE	PV	157861	001	00701	5,075.92	522153
				Payment Amount					5,075.92	
78873	05/08/18	5736	MISCO WATER	PUMP SEALS	PV	157825	001	00751	176.89	12682SW
				Payment Amount					176.89	
78874	05/08/18	3605	MITCHELL INSTRUMENT CO.	CLASS O GLOVE PRTCTRS	PV	157828	001	00701	116.77	041818V01
				Payment Amount					116.77	
78875	05/08/18	20950	MONTROSE AIR QUALITY SERVICES, LLC	2017 ANNL EMSSN RPT	PV	157848	001	00701	1,000.00	INV1104539
				Payment Amount					1,000.00	
78876	05/08/18	2839	MOTION INDUSTRIES, INC.	HC V BELT	PV	157849	001	00701	50.74	CAZ22-829740
				Payment Amount					50.74	
				Payment Amount					50.74	
78877	05/08/18	2302	OFFICE DEPOT	PAPER/MISC OFF SUPPLIES TONER/MISC OFF SUPPLIES MESH SORTER STENO PADS TONER/MISC OFF SUPPLIES LETTER TRAY	PV	157927	001	00701	533.09	122413864001
				Payment Amount					533.09	
				Payment Amount					314.02	125005462001
				Payment Amount					5.46	125007722001
				Payment Amount					13.01	130848927001
				Payment Amount					1,319.56	130780963001
				Payment Amount					2.80	130780962001

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78878	05/08/18	16372	OLIN CORPORATION - CHLORALKALI	TONER	PV	157933	001	00701		412.26	130780965001	
				LANYRDSVSTR	PV	157934	001	00701		167.81	130780336001	
				BOOK/TPMSUR								
				Payment Amount					2,768.01			
				4,918 GAL	PV	157862	001	00701		3,037.87	2490607	
				HYPOCHLORITE								
				4,920 GAL	PV	157863	001	00701		3,039.11	2493903	
				HYPOCHLORITE								
				4,920 GAL	PV	157864	001	00701		3,042.81	2495255	
				HYPOCHLORITE								
				All Payee 16373 OLIN CORPORATION - CHLORALKALI P.O. BOX 402766 ATLANTA GA 30384-2766								
				Payment Amount					9,119.79			
78879	05/08/18	18874	PACIFIC HYDROTECH CORPORATION	RTN	PV	157889	001	00754		17,795.00	10537/RTN RLS	
				RELEASE-RAW								
				SLG VW								
				Payment Amount					17,795.00			
78880	05/08/18	19164	DONALD PATTERSON	EXP-CMTA CONF	PV	157846	001	00701		645.51	042718	
				4/25-27								
				Payment Amount					645.51			
78881	05/08/18	19140	POTABLE DIVERS INC.	RES FLR	PV	157860	001	00701		16,000.00	18019	
				CLNG/TREE								
				RMVL								
				Payment Amount					16,000.00			
78882	05/08/18	13645	PSOMAS	SRV-STNDBY	PV	157866	001	00701		322.50	140318	
				CHG FY17-18								
				SRV-STNDBY								
				CHG FY8-19								
				Payment Amount					1,129.85			
78883	05/08/18	20656	ANGELA SACCARECCIA	MLG-CMTA CONF	PV	157845	001	00701		34.17	042718	
				4/24-27								
				MLG-GFOA TRNG								
				4/18								
				Payment Amount					69.27			
78884	05/08/18	18973	SOUTHERN COUNTIES OIL	MEROPA ULTRA	PV	157850	001	00701		252.32	1125145-IN	
				220 OIL								
				Payment Amount					252.32			
78885	05/08/18	2952	SOFTWARE	MERAKI	PV	157831	001	00701		1,309.16	S47458792	

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Co	Amount	Invoice Number
			HOUSE INTL	CMR/ALIC & SPPT						
			7422 SOFTWARE HOUSE INTERNATIONAL P. O. BOX 952121 DALLAS TX 75395-2121							
78886	05/08/18	17853	SWRCB-POLLUTI ON CLEANUP&ABATE MENT	Payment Amount STLMNT TWRF 2018-0011	PV	157939	001	00751	21,000.00	AL-0001355 CAA
78887	05/08/18	20493	TERRAVERDE RENEWABLE PARTNERS, LLC	Payment Amount SLR PRJY FSBLTY STDY	PV	157944	001	00701	5,000.00	603
78888	05/08/18	15427	THE GATEKEEPER	Payment Amount SRV-HQ YRD GATE 4/12/18	PV	157937	001	00701	135.00	8309
78889	05/08/18	7454	THE GRADALL RENTAL CO.	Payment Amount MEDIA RPLCTMNT ZONE 1-4	PV	157854	001	00701	12,950.00	1318
78890	05/08/18	18604	VENTURA PEST CONTROL	Payment Amount APR'18 PEST CNTRL APR'18 PEST CNTRL APR'18 PEST CNTRL	PV	157847	001	00701	110.00	618104
78891	05/08/18	2436	VINCE BARNES AUTOMOTIVE	Payment Amount OIL/FLTRS VEH#326 INSTL LGT BAR/DRV #203 OIL/FLTRS VEH#923	PV	157693	001	00701	82.16	023168
78892	05/08/18	3035	VWR SCIENTIFIC	Payment Amount 2ML PIPET	PV	157694	001	00701	604.02	023179
				Payment Amount 2ML PIPET	PV	157695	001	00701	90.94	023182
				Payment Amount 2ML PIPET	PV	157826	001	00701	777.12	8082061206

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Payment Number	Payment Date	Address Number	Name	Payment Sub Message	Ty	Document Number	Key	Amount	Invoice Number
Number	Date	Number	Name	Message		Number	Item Co	Amount	Number
PITTSBURGH PA 15264-0169									
78893	05/08/18	19685	W. LITTE INC.	Payment Amount SPRYFLD 4/9--4/13/18	PV	157873	001 00701	5,058.94	18023
								291.30	
				SPRYFLD 4/16--4/20/18	PV	157874	001 00701	5,502.05	18025
				Payment Amount PURCH WTR 3/20--4/17/18	PV	157883	001 00101	13,374.13	1604757
78894	05/08/18	3025	WATER & SANITATION SRV/VENTURA COUNTY	Payment Amount RLV GRNDWTR-8C061 11	PV	157696	001 00701	556.92	W8D0001-LV
				RLV CROP-8C06132	PV	157697	001 00701	189.28	W8D00434-LV
				WLK-8C12089	PV	157698	001 00701	39.78	W8D00488-LV
				RANCHO-8C2808 0	PV	157699	001 00701	660.96	W8D00667-LV
				DIONIZED WTR-8D03089	PV	157700	001 00701	25.50	W8D00865-LV
				TAPIA GRNDWTR-8D030	PV	157701	001 00701	7.14	W8D1235-LV
				91 TAPIA	PV	157869	001 00701	279.48	W8D1587-LV
				EFFLT-8D03095 TAPIA	PV	157870	001 00701	66.30	W8D1598-LV
				INFLT-8D03088 TAPIA	PV	157871	001 00701	151.98	W8D1744-LV
				INFLT-8D03086 MALIBU	PV	157872	001 00701	304.50	W8D2134-LV
				CRK-8D25068 Payment Amount				2,281.84	
78896	05/08/18	3047	WESCO DISTRIBUTION, INC.	(3) LED LIGHT FIXTURES	PV	157876	001 00701	1,609.65	775553
				(3) LED LIGHT FIXTURES	PV	157876	002 00701	48.54	775553

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Payment Number	Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key	Item	Co	Amount	Invoice Number
			PO BOX 31001-0465 PASADENA CA 91110-0465								
				Payment Amount						1,658.19	
78897	05/08/18	3048	WEST COAST AIR CONDITIONING	VETLTN FOR SRVR RM	PV	157875	001	00701		5,425.00	S91682
				Payment Amount						5,425.00	
				Total Amount of Payments Written						271,058.65	
				Total Number of Payments Written						63	

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Number	Key Item	Key Co	Amount	Invoice Number
78898	05/15/18	19269	ACC BUSINESS	SCADA MPLS	PV 157968	001	00701	1,507.20	181046193
				3/11-4/10/18					
				SCADA MPLS	PV 157968	002	00701	831.93	181046193
				3/11-4/10/18					
				SCADA MPLS	PV 157968	003	00701	3,994.98	181046193
				3/11-4/10/18					
				SCADA MPLS	PV 157968	004	00701	156.42	181046193
				3/11-4/10/18					
				Payment Amount			6,490.53		
78899	05/15/18	8680	ADS, LLC	APR'18 FLW	PV 157917	001	00701	725.00	22085.22-0418
				MTR MAINT					
				APR'18 FLW	PV 157917	002	00701	2,175.00	22085.22-0418
				MTR MAINT					
				Payment Amount			2,900.00		
78900	05/15/18	20389	AIRGAS SPECIALTY PRODUCTS	4/23-5/22/18	PV 157966	001	00701	164.25	131539350
				TOTE RENT					
				Payment Amount			164.25		
				VEH#203	PV 158035	001	00701	1,213.75	4025
				REPAIRS					
				Payment Amount			1,213.75		
78901	05/15/18	18941	AMERICAN COLLISION CENTER	REG-WTR	PV 158042	001	00701	205.00	06-10833
				SYMPSPM (2)					
				4/19					
				Payment Amount			205.00		
78902	05/15/18	5625	ASSOC. OF WATER AGENCIES OF VENTURA CO	REG-WTR	PV 158042	002	00701	205.00	06-10833
				SYMPSPM (2)					
				4/19					
				Payment Amount			410.00		
78903	05/15/18	16253	AT&T MOBILITY	WIRELESS SRV	PV 158092	001	00701	126.01	9332/050318
				4/4-5/31/8					
				WIRELESS SRV	PV 158092	002	00701	19.64	9332/050318
				4/4-5/31/8					
				WIRELESS SRV	PV 158092	003	00701	42.50	9332/050318
				4/4-5/31/8					
				WIRELESS SRV	PV 158092	004	00701	309.30	9332/050318
				4/4-5/31/8					

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	005	00701	31.98	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	006	00701	83.40	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	007	00701	42.50	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	008	00701	13.61	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	009	00701	5.83	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	010	00701	83.40	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	011	00701	347.16	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	012	00701	31.98	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	013	00701	85.00	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	014	00701	480.40	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	015	00701	38.44	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	016	00701	25.44	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	017	00701	149.13	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	019	00701	148.65	9332/050318
				4/4-5/31/8						
				WIRELESS SRV	PV	158092	020	00701	91.54	9332/050318
				4/4-5/31/8						
				Payment Amount				2,155.91		
78904	05/15/18	18654	AT&T	CONF	PV	158088	001	00701	41.68	805-013254
			TELECONFERENC	CALLS-APRIL'1						
			E SERVICES	8						
				CONF	PV	158088	002	00701	36.06	805-013254
				CALLS-APRIL'1						
				8						
				CONF	PV	158088	003	00701	131.31	805-013254
				CALLS-APRIL'1						
				8						

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78905	05/15/18	7770	AUTOMATIONDIR ECT.COM	CONF	PV	158088	004 00701	1.20	805-013254
				CALLS-APRIL'18					
				Payment Amount				210.25	
				PWR SUP, PNL	PV	157891	001 00101	238.75	8761793
				MTR & FUSES					
				Payment Amount				238.75	
78906	05/15/18	7965	B&B PALLET CO.	55 YDS WOOD	PV	158045	001 00701	583.00	117742
				CHIPS	PV	158046	001 00701	583.00	117743
				55 YDS WOOD	PV	158047	001 00701	583.00	117744
				CHIPS	PV	158048	001 00701	583.00	117745
				55 YDS WOOD	PV	158049	001 00701	583.00	117746
				CHIPS	PV	158050	001 00701	583.00	117747
				55 YDS WOOD	PV	158051	001 00701	583.00	117748
				CHIPS	PV	158052	001 00701	583.00	117749
				55 YDS WOOD	PV	158053	001 00701	583.00	668346
				CHIPS	PV	158054	001 00701	583.00	117750
				55 YDS WOOD	PV	158055	001 00701	583.00	117751
				CHIPS	PV	158056	001 00701	583.00	117752
				Payment Amount				6,996.00	
78907	05/15/18	20923	B&H PHOTE VIDEO	2 CANON	PV	157920	001 00701	7,103.56	141523778
				CAMERAS & ACS					
				Payment Amount				7,103.56	
78908	05/15/18	21001	SHERRYLL BAGGA	RFND CR	PV	158025	001 00101	47.80	065352
				BAL-CLOSED					
				A/C					
				Payment Amount				47.80	
78909	05/15/18	20626	BDR INC.	RFND CR	PV	158024	001 00101	1,066.93	9999157
				BAL-CLOSED					

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	TY	Document Number	Key Item	Co	Amount	Invoice Number
78910	05/15/18	4669	BIOVIR LABORATORIES, INC	Payment Amount CRYPTO TESTING 4/11	PV	157991	001	00101	350.00	180679
				A/C					1,066.93	
				CRYPTO TESTING 3/14	PV	157992	001	00101	350.00	180480
				CRYPTO TESTING 3/28	PV	157993	001	00101	350.00	180567
				Payment Amount					1,050.00	
78911	05/15/18	21002	BRIAN CAMPBELL	RFND CR BAL-CLOSED	PV	158026	001	00101	54.40	068473
				A/C						
				Payment Amount					54.40	
78912	05/15/18	21003	MICHAEL CHACHULA	RFND CR BAL-CLOSED	PV	158027	001	00101	150.00	065537
				A/C						
				Payment Amount					150.00	
78913	05/15/18	2536	CITY OF LOS ANGELES	ASSSC FY16-17 RECON	PV	157898	001	00130	21,855.00	74WP180000080
				ASSSC FY16-17 RECON	PV	157899	001	00130	18,365.00	74WP180000081
				Payment Amount					40,220.00	
78914	05/15/18	18933	DAVIS WHOLESAL ELECTRIC, INC.	MCC STARTR@HQ CMP CTR	PV	157892	001	00301	2,299.50	1021-432901
				Payment Amount					2,299.50	
78915	05/15/18	21004	YANG DENG	RFND CR BAL-CLOSED	PV	158028	001	00101	97.47	070252
				A/C						
				Payment Amount					97.47	
78916	05/15/18	17281	DOCTOR DIESEL	DIESEL FUEL MAINT	PV	157926	001	00701	560.21	18-166
				DIESEL FUEL MAINT	PV	157926	002	00701	560.21	18-166
				DIESEL FUEL MAINT	PV	157926	003	00701	1,680.63	18-166
				DIESEL FUEL MAINT	PV	157926	006	00701	560.20	18-166
				Payment Amount					3,361.25	

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Doc. Number	Key Ifm Co	Amount	Invoice Number
78917	05/15/18	9578	MICHAEL DUBIN	RFND CR BAL-CLOSED A/C	158034	001 00101	1,090.21	9998982
78918	05/15/18	5378	EMERSON PROCESS MANAGEMENT	Payment Amount OV210 TRNG-GLASSON	157918	001 00701	3,729.00	9070721
All Payee				EPM POWER & WTR SOLUTIONS 22737 NETWORK PLAGE CHICAGO IL 60673-1227		3,729.00		
78919	05/15/18	8923	ENVIRONMENTAL EXPRESS, INC.	Payment Amount (5) PTFE VALVES	157895	001 00701	587.74	1000505770
All Payee				ENVIRONMENTAL RESOURCE ASSOC		587.74		864722
78920	05/15/18	.2638	ENVIRONMENTAL RESOURCE ASSOC	Payment Amount LAB STANDARDS	157896	001 00701	147.53	
All Payee				LAB STANDARDS		2,342.81		863643
78921	05/15/18	18815	FASTENAL COMPANY	Payment Amount WTR HOSE & FITTINGS	157961	001 00751	944.47	CACHA29513
All Payee				APRIL BIN STOCK		1,196.81		CHCHA29411
All Payee				APRIL BIN STOCK		155.89		CHCHA29411
All Payee				APRIL BIN STOCK		840.57		CHCHA29411
All Payee				FASTENAL COMPANY P. O. BOX 1286 WINONA MN 55987-1286		3,137.74		F16883-18V079
78922	05/15/18	2661	FLO-SYSTEMS INC	Payment Amount BARE PUMP@TWRF	158095	001 00701	21,274.76	
All Payee				G.I. INDUSTRIES		21,274.76		2853812-0283-4
78923	05/15/18	6770	G.I. INDUSTRIES	Payment Amount 5/18 RLV-FARM DISP	158059	001 00751	88.38	2853811-0283-4
All Payee				5/18 RLV DISP		88.38		2853811-0283-6

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Payment Number	Payment Date	Address Number	Name	Payment Sub Message	Ty	Document Number	Key Item Co	Amount	Invoice Number
LOS ANGELES CA 90054-1065									
78924	05/15/18	20318	ROBERT GLASSON	Payment Amount EXP-OV210 TRNG 4/22--27	PV	158058	001 00701	176.76 2,071.13	042718
78925	05/15/18	7251	GENERAL PAVEMENT MANAGEMENT	Payment Amount RFND CR BAL-CLOSED A/C	PV	158022	001 00101	2,071.13 625.50	9999252
78926	05/15/18	2701	GRAINGER, INC.	Payment Amount AIR COMPRESSOR@RL V	PV	157893	001 00751	625.50 1,767.07	9759376461
All Payee 5453 GRAINGER, INC. DEPT 805178142 PALATINE IL 60038-0001									
78927	05/15/18	18594	HAROLD BECK & SONS, INC	Payment Amount ACTUATOR HARDWARE	PV	157965	001 00701	1,767.07 2,132.75	315078
78928	05/15/18	3083	JCI JONES CHEMICALS, INC	Payment Amount 4,127 GAL BISULFITE	PV	157925	001 00701	2,132.75 5,488.91	754209
All Payee 13647 JCI JONES CHEMICALS, INC P.O. BOX 12549 NEWARK NJ 07101-3550									
78929	05/15/18	19199	VERA KLEYBERG	Payment Amount RFND CR BAL-CLOSED A/C	PV	158023	001 00101	5,488.91 178.69	0693999
78930	05/15/18	21005	ROSS LAMB	Payment Amount RFND CR BAL-CLOSED A/C	PV	158029	001 00101	178.69 94.65	066516
78931	05/15/18	3352	LAS VIRGENES MUNICIPAL WATER DISTRICT	Payment Amount RWPS 3/26--4/24/18	PV	158012	001 00701	94.65 142.40	2645/050218
BD#/RECL 158013 001 00701 155.34 3/26--4/24/18 2646/050218									

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Payment Number	Payment Date	Address Number	Name	Payment-Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78932	05/15/18	19396	JAY LEWITT	BD#8/RW 3/26-4/24/18	PV	158014	001	00701	216.95	2652/050218
				EQS TNK 3/27-4/24/18	PV	158016	001	00101	249.15	0896/050218
				IND HILLS 3/27-4/26/18	PV	158017	001	00751	19.08	0558/050218
				MORRSN P/S 3/27-4/26/18	PV	158018	001	00751	29.06	0331/050218
				WLK FLT 3/30-4/27/18	PV	158019	001	00101	141.54	0907/050218
				WLK FLT 3/30-4/27/18	PV	158020	001	00101	275.66	0909/050218
				BD#7/RW 3/26-4/24/18	PV	158021	001	00701	157.34	2655/050218
				Payment Amount					1,386.52	
				MLG-WTR	PV	158057	001	00701	29.43	041918
				SYMP/SM 4/19						
				1/25/18 HTL	PV	158094	001	00701	209.31	012518
				CHG-CASA CONF						
				Payment Amount					238.74	
				REG-LAW CONF	PV	158093	001	00701	525.00	022818/LAW
				2/26-28						CONF
				Payment Amount					525.00	
				RFND CR	PV	158030	001	00101	14.32	069600
				BAL-CLOSED						
				A/C						
				Payment Amount					14.32	
				GRSE FTTG	PV	158043	001	00751	270.90	61805397
				ADPTR/HDLGHT						
				GRSE FTTG	PV	158043	002	00751	65.80	61805397
				ADPTR/HDLGHT						
				O RNGS/BALL	PV	158044	001	00751	39.55	61860512
				VALVES						
				O RNGS/BALL	PV	158044	002	00751	306.03	61860512
				VALVES						
				HOSES &	PV	158091	001	00751	475.10	62773752
				VALVES						

Alt Payee 3197 MC MASTER-CARR
P. O. BOX 7690

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Payment Number	Payment Date	Address Number	Name	Payment Sub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
CHICAGO IL 60680-7690										
78936	05/15/18	20606	OFFBEAT PRODUCTIONS, INC.	500 RETRO LNCH BOXES	PV	157923	001	00701	4,451.18	1293718
				Payment Amount					1,157.38	
78937	05/15/18	2302	OFFICE DEPOT	24 PADFOLIOS W/LOGO	PV	158040	001	00701	451.55	113557684001
				Payment Amount					4,801.19	
78938	05/15/18	21007	KARYN OLSON	RFND CR BAL-CLOSED	PV	158031	001	00101	8.25	040956
				Payment Amount					451.55	
78939	05/15/18	18874	PACIFIC HYDROTECH CORPORATION	PMT#3-DIGESTE R 1 REHAB	PV	158089	001	00701	158,834.43	10565/PMT#3
				Payment Amount					8.25	
78940	05/15/18	18181	PACIFIC WESTERN BANK	RETENTN#3-DGS TR#1 REHAB	PV	158041	001	00754	7,941.72	10565/RTN#3
				Payment Amount					150,892.71	
78941	05/15/18	21008	KAREN PAVONE	RFND CR BAL-CLOSED	PV	158032	001	00101	137.13	070656
				Payment Amount					7,941.72	
78942	05/15/18	20002	PETTY CASH - SUSAN BROWN	CASH EXP-121817-04	PV	158063	001	00701	27.69	041918
				Payment Amount					137.13	
				CASH EXP-121817-04	PV	158063	002	00701	38.53	041918
				CASH EXP-121817-04	PV	158063	003	00701	16.00	041918
				CASH EXP-121817-04	PV	158063	004	00701	25.00	041918
				CASH EXP-121817-04	PV	158063	005	00701	13.01	041918

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
				EXP-121817-04						
				1918						
				CASH	PV	158063	006	00701	24.09	041918
				EXP-121817-04						
				1918						
				CASH	PV	158063	007	00701	8.93	041918
				EXP-121817-04						
				1918						
				CASH	PV	158063	008	00701	23.00	041918
				EXP-121817-04						
				1918						
				CASH	PV	158063	009	00701	26.81	041918
				EXP-121817-04						
				1918						
				CASH	PV	158063	010	00701	33.56	041918
				EXP-121817-04						
				1918						
				CASH	PV	158063	011	00701	18.45	041918
				EXP-121817-04						
				1918						
				CASH	PV	158063	012	00701	14.28	041918
				EXP-121817-04						
				1918						
				Payment Amount					269.35	
78943	05/15/18	8484	PRAXAIR DISTRIBUTION, INC	CYLNDR RNT 3/20-4/20/18	PV	158037	001	00101	171.65	82565399
			Alt Payee							
			8898 PRAXAIR DISTRIBUTION INC.							
			DEPT. LA 21511							
			PASADENA CA 91185-1511							
			Payment Amount						171.65	
78944	05/15/18	19058	PROTECTOR FENCE	RFR GATE-KIMBRLY P/S	PV	158036	001	00101	400.00	1235
			Payment Amount						400.00	
78945	05/15/18	20334	PRUDENTIAL OVERALL SUPPLY	4/18 UNFRMS/IMATST WLS	PV	157996	001	00701	61.10	170827005
			Payment Amount						61.10	
			4/18 UNFRMS/IMATST							
			WLS							
			4/18 UNFRMS/IMATST							
			Payment Amount						60.07	

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Payment Number	Address Number	Name	Payment Stub Message	Document Number	Key Item	Key Co	Amount	Invoice Number
			WLS					
			4/18	PV	157997	001 00701	61.10	170828516
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	157997	002 00701	60.07	170828516
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	157998	001 00701	61.80	170830056
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	157998	002 00701	60.07	170830056
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	157999	001 00701	61.10	170831575
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	157999	002 00701	60.07	170831575
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158000	001 00701	9.60	170827000
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158000	002 00701	21.44	170827000
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158001	001 00701	9.60	170828511
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158001	002 00701	21.44	170828511
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158002	001 00701	9.60	170830051
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158002	002 00701	21.44	170830051
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158003	001 00701	9.60	170831570
			UNFRMS/MATS/T					
			WLS					
			4/18	PV	158003	002 00701	21.44	170831570

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158004	001	00701	239.53	170827003
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158005	001	00701	235.53	170828514
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158006	001	00701	236.43	170830054
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158007	001	00701	233.23	170831573
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158008	001	00701	32.80	170827004
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158008	002	00701	30.83	170827004
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158009	001	00701	32.80	170828515
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158009	002	00701	30.83	170828515
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158010	001	00701	34.20	170830055
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158010	002	00701	30.83	170830055
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158011	001	00701	32.80	170831574
				UNFRMS/MATS/T						
				WLS						
				4/18	PV	158011	002	00701	30.83	170831574
				UNFRMS/MATS/T						
				WLS						
				Payment Amount					1,810.18	
				RFND CR	PV	158033	001	00101	169.00	068196
				BAL-CLOSED						

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Ty	Document Number	Key	Lim	Co	Amount	Invoice Number
78947	05/15/18	6243	SENIOR CONCERNS	Payment Amount	PV	158062	001 00751			1,000.00	LOVE RUN-2018
				RUN 6/3/18							
78948	05/15/18	20412	SHRED-IT USA LLC	Payment Amount	PV	157967	001 00701			190.27	8124614499
				APR'18 DOC							
				SHRDNG SRV							
78949	05/15/18	2956	SOUTH COAST AIR QUALITY MGMT DIST	Payment Amount	PV	157900	001 00751			128.61	3269183
				HOT SPOTS							
				FEE@TWRF							
				HOT SPOT						128.61	3269327
				FEE@OPS							
				HOT SPOT						128.61	3269622
				FEE@L/S1							
				HOT SPOT						128.61	3269670
				FEE@L/S2							
				HOT SPOT						128.61	3270391
				FEE@RLV							
				HOT SPOT						128.61	3269552
				FEE@WFP							
				HOT SPOT						128.61	3270520
				FEE@WL PS							
78950	05/15/18	2957	SOUTHERN CALIFORNIA EDISON	Payment Amount	PV	157954	001 00751			25,765.25	5165-46/05031
				RLV CMPST							8
				PLNT							
				4/2-5/1/18							
78951	05/15/18	2957	SOUTHERN CALIFORNIA EDISON	Payment Amount	PV	157955	001 00751			37,257.11	4500-42/05021
				RW PIS							8
				4/2-5/1 NEM							
78952	05/15/18	2957	SOUTHERN CALIFORNIA EDISON	Payment Amount	PV	157995	001 00101			2,760.16	2869/050318
				ENERGY							
				CHGS-APR'18							
				ENERGY						24.49	2869/050318
				CHGS-APR'18							
				ENERGY						332.61	2869/050318
				CHGS-APR'18							
				ENERGY						23.37	2869/050318
				CHGS-APR'18							

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Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Number	Key	Key	Amount	Invoice Number
Number	Date	Number			Number	Item	Co		Number
				ENERGY	157995	005	00101	72.00	2869/050318
				CHGS-APR'18					
				ENERGY	157995	006	00101	19.72	2869/050318
				CHGS-APR'18					
				ENERGY	157995	007	00101	15.07	2869/050318
				CHGS-APR'18					
				ENERGY	157995	008	00101	10.04	2869/050318
				CHGS-APR'18					
				ENERGY	157995	009	00101	23.37	2869/050318
				CHGS-APR'18					
				ENERGY	157995	010	00101	25.25	2869/050318
				CHGS-APR'18					
				ENERGY	157995	011	00101	28.78	2869/050318
				CHGS-APR'18					
				ENERGY	157995	012	00101	27.15	2869/050318
				CHGS-APR'18					
				ENERGY	157995	013	00101	28.90	2869/050318
				CHGS-APR'18					
				ENERGY	157995	014	00101	26.20	2869/050318
				CHGS-APR'18					
				ENERGY	157995	015	00101	24.63	2869/050318
				CHGS-APR'18					
				ENERGY	157995	016	00101	2,488.09	2869/050318
				CHGS-APR'18					
				ENERGY	157995	017	00101	6,573.50	2869/050318
				CHGS-APR'18					
				ENERGY	157995	018	00101	49.00	2869/050318
				CHGS-APR'18					
				ENERGY	157995	019	00101	421.06	2869/050318
				CHGS-APR'18					
				ENERGY	157995	020	00101	4,874.98	2869/050318
				CHGS-APR'18					
				ENERGY	157995	021	00101	26.35	2869/050318
				CHGS-APR'18					
				ENERGY	157995	022	00101	172.02	2869/050318
				CHGS-APR'18					
				ENERGY	157995	023	00101	3,288.56	2869/050318
				CHGS-APR'18					
				ENERGY	157995	024	00101	15,741.14	2869/050318
				CHGS-APR'18					
				ENERGY	157995	025	00101	62,964.56	2869/050318
				CHGS-APR'18					

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Payment Number	Date	Address Number	Name	Payment Stub Message	Ty	Document . . . Number	Key Item	Co	Amount	Invoice Number
CHGS-APR'18										
ENERGY					PV	157995	026	00101	25.36	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	027	00101	629.50	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	028	00101	1,043.30	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	029	00101	4,648.70	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	030	00101	500.67	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	031	00101	836.41	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	032	00101	703.14	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	033	00101	2,458.75	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	034	00101	26.91	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	035	00101	1,022.83	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	036	00101	27.74	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	037	00101	310.39	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	038	00101	25.63	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	039	00101	5,841.17	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	040	00101	1,371.60	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	041	00101	9,904.96	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	042	00101	1,334.52	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	043	00101	2,755.67	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	044	00101	9,285.50	2869/050318
CHGS-APR'18										
ENERGY					PV	157995	045	00101	3,874.11	2869/050318
CHGS-APR'18										

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Payment Number	Date	Address Number	Name	Payment Stub Message	Document Number	Key Item	Co	Amount	Invoice Number
				ENERGY	157995	046	00101	4,073.46	2869/050318
				CHGS-APR'18					
				ENERGY	157995	047	00101	234.62	2869/050318
				CHGS-APR'18					
				ENERGY	157995	048	00101	455.94	2869/050318
				CHGS-APR'18					
				ENERGY	157995	049	00101	27.05	2869/050318
				CHGS-APR'18					
				ENERGY	157995	050	00101	67.46	2869/050318
				CHGS-APR'18					
				ENERGY	157995	051	00101	690.11	2869/050318
				CHGS-APR'18					
				ENERGY	157995	052	00101	1,486.27	2869/050318
				CHGS-APR'18					
				ENERGY	157995	053	00101	3,186.77	2869/050318
				CHGS-APR'18					
				ENERGY	157995	054	00101	23.37	2869/050318
				CHGS-APR'18					
				ENERGY	157995	055	00101	26.91	2869/050318
				CHGS-APR'18					
				ENERGY	157995	056	00101	26.04	2869/050318
				CHGS-APR'18					
				ENERGY	157995	057	00101	76.10	2869/050318
				CHGS-APR'18					
				ENERGY	157995	058	00101	27.09	2869/050318
				CHGS-APR'18					
				ENERGY	157995	059	00101	769.80	2869/050318
				CHGS-APR'18					
				ENERGY	157995	060	00101	26.44	2869/050318
				CHGS-APR'18					
				ENERGY	157995	061	00101	467.01	2869/050318
				CHGS-APR'18					
				ENERGY	157995	062	00101	31.14	2869/050318
				CHGS-APR'18					
				ENERGY	157995	063	00101	383.44	2869/050318
				CHGS-APR'18					
				ENERGY	157995	064	00101	2,158.75	2869/050318
				CHGS-APR'18					
				ENERGY	157995	065	00101	2,130.44	2869/050318
				CHGS-APR'18					
				Payment Amount				163,036.07	

Batch Number - 262479

Bank Account - 00146807 Cash-General

Payment Number	Payment Date	Address Number	Name	Payment Sub Message	Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
78953	05/15/18	2958	SOUTHERN CALIFORNIA GAS CO	JBR P/S 4/2-5/1/18	PV	158038	001	00101	15.13	1200/050318
				WLK P/S 4/1-5/1/18	PV	158039	001	00101	15.61	9400/050118
				Payment Amount					30.74	
78954	05/15/18	20648	STANTEC CONSULTING SERVICES INC.	P/E 3/30-TWRF WASTE STDY	PV	157924	001	00701	9,407.50	1346786
				Payment Amount					9,407.50	
78955	05/15/18	14479	STEPHEN'S VIDEO PRODUCTIONS	VIDEO SRV JPA MTGS APR'18	PV	157921	001	00701	1,095.00	4-23-18
				VIDEO SRV LV MTGS APR'18	PV	157922	001	00701	1,095.00	4-24-18
				Payment Amount					2,190.00	
78956	05/15/18	19135	TRANSUNION RISK & ALTERNATIVE DATA SOLUT	ONLN SRCH BAD DBT 4/18	PV	157894	001	00701	123.00	974571/APR18
				Payment Amount					123.00	
78957	05/15/18	3003	U.S. POSTAL SERVICE (HASLER)	PRE-PD POSTAGE #239643	PV	158061	001	00701	5,000.00	239643/051518
				Payment Amount					5,000.00	
78958	05/15/18	2780	VALLEY NEWS GROUP	AD 'EARTH DAY" 4/19/18	PV	157956	001	00101	400.00	4-19
				Payment Amount					400.00	
78959	05/15/18	3034	VORTEX INDUSTRIES	RPR SRV DOOR-RLV#15	PV	157963	001	00701	660.00	01-1238550-1
				Payment Amount					660.00	
78960	05/15/18	3067	XEROX CORPORATION	3/18 LEASE-HQ & TAPIA	PV	157890	001	00701	399.92	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	002	00701	86.32	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	003	00701	46.19	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	004	00701	88.93	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	005	00701	506.03	702186215

Batch Number - 262479
Bank Account - 00146807 Cash-General

Payment Number	Payment Date	Address Number	Name	Payment Stub Message	Document Ty	Document Number	Key Item	Key Co	Amount	Invoice Number
				3/18 LEASE-HQ & TAPIA	PV	157890	006	00701	109.21	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	007	00701	58.45	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	008	00701	4.48	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	009	00701	129.29	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	010	00701	64.52	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	011	00701	18.41	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	012	00701	8.05	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	013	00701	534.97	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	014	00701	115.46	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	015	00701	61.79	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	016	00701	395.23	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	017	00701	113.51	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	018	00701	24.50	702186215
				3/18 LEASE-HQ & TAPIA	PV	157890	019	00701	13.12	702186215
				LEASE-4/18	PV	157960	001	00701	192.51	093109815
				5945APT-OPS						
				Payment Amount					2,970.89	
				Total Amount of Payments Written					540,381.39	
				Total Number of Payments Written						63



LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 Las Virgenes Road, Calabasas CA 91302

MINUTES
REGULAR MEETING

5:00 PM

April 10, 2018

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Jason Wilson.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Vice President Caspary in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. Mary Capps, Acting Clerk of the Board, conducted the roll call.

Present: Directors Charles Caspary, Len Polan, and Lee Renger.
Absent: Directors Jay Lewitt, Glen Peterson
Staff Present: David Lippman, Director of Facilities and Operations
Don Patterson, Director of Finance and Administration
Dave Roberts, Resource Conservation Manager
Mary Capps, Acting Clerk of the Board
Keith Lemieux, District Counsel

2. APPROVAL OF AGENDA

Director Renger moved to approve the agenda. Motion seconded by Director Polan. Motion carried by the following vote:

AYES: Caspary, Polan, Renger
NOES: None
ABSTAIN: None
ABSENT: Lewitt, Peterson

3. PUBLIC COMMENTS

David Lippman, Director of Facilities and Operations, introduced the following new employees: Spencer Lee, Water Worker I; Justin Walden, Water Worker I; and Starr Hendricks, Water Worker I.

Don Patterson, Director of Finance and Administration, introduced the following new employees: Jason Wilson, Storekeeper, and Maria Orozco, Human Resources Analyst I.

4. CONSENT CALENDAR

A List of Demands: April 10, 2018: Ratify

B Minutes: Regular Meeting of March 13, 2018 and Special Meeting of March 20, 2018: Approve

C Directors' Per Diem – March 2018: Ratify

D Monthly Cash and Investment Report: February 2018

Receive and file the Monthly Cash and Investment Report for February 2018.

E Unleaded and Diesel Fuel Petroleum Products: Award

Accept the bid from Merrimac Energy Group and authorize the General Manager to issue a one-year purchase order, in the amount of \$103,150.39, with four one-year renewal options.

Director Renger moved to approve the Consent Calendar. Motion seconded by Director Polan. Motion carried by the following vote:

AYES: Caspary, Polan, Renger

NOES: None

ABSTAIN: None

ABSENT: Lewitt, Peterson

5. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A Legislative and Regulatory Updates

Dave Roberts, Resource Conservation Manager, provided the following updates:

AB 1876, Delta Stewardship Council, which seeks to abolish the Delta Stewardship Council and replace it with the Delta Protection Commission. The opposition to AB 1876 is an ACWA-led effort that has the support of many agencies, along with Las Virgenes Municipal Water District. The concern that ACWA and others have is that the Delta

Protection Commission is dominated by Delta agencies and interests, so there would be a perceived bias by making that change. There is also concern with abolishing the Delta Stewardship Council.

Director Polan inquired if there has been any conversations with the Assembly. Dave Roberts stated that there is plenty of opposition to AB 1876 as it stands, and he pointed out that the board packet contained a litany of agencies that have signed onto the opposition letter.

Director Caspary noted that he rarely sees a letter to a legislator that is as forthright as the one in the agenda packet, and he gave applause to the opposition.

Dave Roberts continued the legislative update:

SB 998 - Discontinuation of Residential Water Service: urban and community water systems. A copy of the letter in opposition from ACWA was included in the board packet. This piece of legislation seeks to place unreasonable burdens on water purveyors for service shut-offs, which could result in extended periods of times that accounts remain delinquent while continuing to receive water. This legislation could also require the involvement of the health department and State Attorney General in connection with shut-downs, and require that water purveyors collect sensitive information that otherwise would not be collected.

SB 1489 - An amendment brought forward by Senator Stern based upon the District's request. This bill would remove language prohibiting funding of indirect potable water projects from receiving potential funding from Proposition 68, in the event that it passes on the June ballot. The language has been modified to allow funding for indirect potable water projects based upon the District's request and Senator Stern's amendment to the legislation.

David Lippman, Director of Facilities and Operations commented that the District applied for a planning grant for the Pure Water Project from the State Water Resource Control Board and they denied the application based upon existing language in the legislature that prohibits using that funding for surface water augmentation projects. He noted that the amendment to AB 1489 would modify this language and the District appreciated Senator Stern for bringing it forward.

Director Caspary inquired as to when the amendment would be scheduled to go before the committee and the chances of its success. Dave Roberts responded that he was not aware when SB 1489 would be presented to the committee, and that in speaking with Joe McDermott, Director of Resource Conservation and Public Outreach, he seemed very optimistic about it and staff would have additional information to share soon.

B Water Supply Conditions Update

Dave Roberts, Resource Conservation Manager, reported on current rain and snow conditions. He noted that despite it being a very disappointing rain year in Southern California, it is encouraging to see that the water supply conditions are very favorable.

He also noted that most of the reservoirs are at or above where they would normally be at this time of year, more than likely a legacy of the good rainwater year from last year. However, in Southern California there is a range from moderate to severe drought conditions depending on locations. He noted that Northern California experienced a fairly large storm last week that threatened use of the Oroville Dam spillway for the first time this year. Fortunately it did not reach high levels. Snow pack conditions are not as good as the water supply conditions and they are approximately 50 percent statewide, which means that those reservoirs are likely going to be drawn down more rapidly than they would be because they are not being augmented by snow melt in the spring and summer.

Director Caspary asked if Lake Mead is still anticipating a shortage this calendar year. Dave Roberts responded that the snow pack conditions for the upper Colorado River are not terrible. While snow pack conditions are not up to the average level, it is close to average and not near as low as it has been over the last few years. Hopefully enough snow has been received in the Colorado River Basin so that Lake Mead may avoid any shortage this year.

6. TREASURER

Director Renger stated that the Treasurer's report was in order.

7. BOARD OF DIRECTORS

A General District Election on November 6, 2018: Resolution No. 2533

Pass, approve, and adopt proposed Resolution No. 2533, pertaining to a General District Election to be held in the District on Tuesday, November 6, 2018; and authorize the Board Secretary to submit certified copies of said resolution, completed Roster of Officeholders for Local Jurisdictions, and District Boundary and Divisions Map to the Board of Supervisors and the Registrar-Recorder/County Clerk of the County of Los Angeles

RESOLUTION NO. 2533

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT REQUESTING THE BOARD OF SUPERVISORS OF THE COUNTY OF LOS ANGELES TO PERMIT THE REGISTRAR-RECORDER/COUNTY CLERK TO RENDER ELECTION SERVICES FOR A GENERAL DISTRICT ELECTION TO BE HELD ON NOVEMBER 6, 2018.

(Reference is hereby made to Resolution No. 2533 in the District's Resolution Book and by this reference the same is incorporated and made a part thereof.)

David Lippman, Director of Facilities and Operations, presented the report.

Director Polan inquired if the District would have to pay the election services fees if an incumbent runs unopposed. David Lippman responded that the fee may be reduced in

that case; however, the District would need to pay the majority of the fee for the work that the County conducts to prepare the ballots, count the ballots, etc. Keith Lemieux, District Counsel, added that if all incumbents run unopposed then the District would not need hold an election.

Director Polan moved to approve Item 7A. Motion seconded by Director Renger. Motion carried by the following vote:

AYES: Caspary, Polan, Renger

NOES: None

ABSTAIN: None

ABSENT: Lewitt, Peterson

8. FACILITIES AND OPERATIONS

A Agoura Landmark Project at 29621 Agoura Road: Easement Modifications and Encroachments

Authorize the General Manager to execute the necessary easement documents and agreements to accept a new easement for an existing 24-inch water main, modify an existing easement for a 12-inch sanitary sewer main, and authorize surface encroachments that would not interfere with operation and maintenance of the facilities and subject to indemnification by the property owner for 29621 Agoura Road.

John Zhao, Principal Engineer, presented the report.

Director Polan requested that the easement be modified to exclude all trees. A discussion took place and it was agreed that staff would work with the developer, and if it becomes necessary to include trees, staff would work to mitigate the potential negative impacts.

Director Polan moved to approve Item 8A. Motion seconded by Director Renger. Motion carried by the following vote:

AYES: Caspary, Polan, Renger

NOES: None

ABSTAIN: None

ABSENT: Lewitt, Peterson

B Barrymore Pressure Reducing Station Rehabilitation Project: Construction Award

Award a construction contract to Toro Enterprises, Inc., in the amount of \$167,550; and approve an additional appropriation, in the amount of \$64,305, for the Barrymore Pressure Reducing Station Rehabilitation Project.

David Lippman, Director of Facilities and Operations presented the report.

Director Caspary pointed out that the contractor selected was the low bidder by over \$70,000. David Lippman stated that the difference is that Toro Enterprises is familiar with the area.

Director Caspary questioned whether or not this rehabilitation would facilitate energy regeneration capabilities. David Lippman stated that the District had a study performed several years ago and none of the District's pressure reducing facilities provided a cost savings in energy regeneration efforts due the limited capability to produce energy.

Director Renger moved to approve Item 8B. Motion seconded by Director Polan. Motion carried by the following vote:

AYES: Caspary, Polan, Renger

NOES: None

ABSTAIN: None

ABSENT: Lewitt, Peterson

C Infrastructure Investment Plan: Fiscal Years 2018-19 through 2022-23

Receive and file the Infrastructure Investment Plan for Fiscal Years 2018-19 through 2022-23

David Lippman, Director of Facilities and Operations presented the report.

Director Renger inquired regarding the status of identifying a viable vendor for the AMI project. Dave Roberts responded that viable vendors would be identified during the planning process, which is currently pending.

Director Caspary requested clarification and details of the proposed valve turning truck. David Lippman explained that the current truck, which was outfitted for that purpose many years ago, has seen better days and explained in detail the capabilities of the new truck.

Director Renger moved to approve Item 8C. Motion seconded by Director Polan. Motion carried by the following vote:

AYES: Caspary, Polan, Renger

NOES: None

ABSTAIN: None

ABSENT: Lewitt, Peterson

9. FINANCE AND ADMINISTRATION

A Claim from Craig C. Konjoyan

Deny the claim from Craig G. Konjoyan.

David Lippman, Director of Facilities and Operations presented the report.

Director Polan commented that he would like to see the information submitted by the claimant on the Water Budget Questionnaire. Dave Roberts responded that the claimant submitted the original questionnaire and it accurately reflected the irrigated area and residency reported by the claimant. He offered to review the questionnaire after the meeting if the Board desired. David Lippman also stated that staff offered a free water audit to the claimant; however, the claimant has not responded.

Director Caspary moved to deny the claim. Motion seconded by Director Polan. Motion carried by the following vote:

AYES: Caspary, Polan, Renger

NOES: None

ABSTAIN: None

ABSENT: Lewitt, Peterson

10. LEGAL SERVICES

A Olivarez Madruga Lemieux O'Neill, LLP: Contract Amendment

Approve an amendment to the professional services agreement with Olivarez Madruga Lemieux O'Neill, LLP, Attorneys at Law, to increase the fixed monthly fee for transactional services to \$7,350 per month, effective July 1, 2018.

Keith Lemieux, District Counsel, presented the report.

David Lippman, Director of Facilities and Operations pointed out that since the two firms have merged, the District now has access to areas of expertise that it previously did not have, which has been an added benefit.

Director Renger moved to approve Item 10A. Motion seconded by Director Polan. Motion carried by the following vote:

AYES: Caspary, Polan, Renger

NOES: None

ABSTAIN: None

ABSENT: Lewitt, Peterson

11. NON-ACTION ITEMS

A Organization Reports

- (1) MWD Representative Report/Agenda(s)

David Lippman, Director of Facilities and Operations, reported that MWD's agenda contained an item to either support the one tunnel, or the two tunnels, for the California WaterFix, or to take no action at all. He noted that Board President Peterson participated in the MWD Board meeting via telephone from Washington DC. He also noted that the

MWD Board voted to support the two tunnels for the California WaterFix. He stated that this vote authorizes MWD to finance its share of the California WaterFix as a state water project contractor and to fully fund the unsubscribed share of the project up to 64.6 percent of the total cost, which is estimated at \$10.8 billion. In addition, the MWD Board voted to appropriate some additional gap funding that is needed for pre-construction expenses, including study, review, planning, and engineering at a cost of \$86 million. The gap funding will be reimbursed with interest upon issuance of the first series of bonds, which is currently estimated to be funded within 12 months.

(2) Other

None.

B Director's Reports on Outside Meetings

Director Renger reported that he attended the WateReuse Conference in Monterey. He noted that Monterey has encountered challenges due to some court decisions and would be running out of drinking water. He stated that Monterey devised a plan to use several uncommon sources of water. He also stated that some of the water would be advanced treated and put back into the aquifer to act as a saline barrier; however, it would also end up in the drinking water. He noted that there was a discussion on contaminants of emerging concern and synergy. He also noted that some of the takeaways from the conference were to anticipate issues before they occur, focus on technology and science, and stress nature's cycle because water is reused in nature.

Director Polan reported that he attended the WateReuse Conference in Monterey as well. He noted that bioactivity of nanoparticles in bottled water was a topic of discussion. He also noted that he attended a session on building a demonstration plant and why it should be done. He pointed out that this is a vital process to demonstrate to the public.

Director Caspary reported that he attended the WateReuse Conference in Monterey as well, and noted that they stressed that the public outreach component of a Pure Water Project as being vitally important.

C General Manager Reports

(1) General Business

David Lippman, Director of Facilities and Operations, reminded the Board that the Pure Water Demonstration Project Workshop would be held on Tuesday April 17, 2018, at 5:00 p.m. He noted that the creek avoidance period would begin its twenty-first year on April 15, 2018.

(2) Follow-Up Items

None.

D Directors' Comments

Director Polan commented that he feels strongly that the District needs to focus on outreach for the Pure Water Project.

12. FUTURE AGENDA ITEMS

None.

13. PUBLIC COMMENTS

None.

14. CLOSED SESSION

None.

15. OPEN SESSION AND ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned in memory of Alice C. Stelle at **6:05 p.m.**

GLEN PETERSON, President
Board of Directors
Las Virgenes Municipal Water District

ATTEST:

JAY LEWITT, Secretary
Board of Directors
Las Virgenes Municipal Water District

(SEAL)



LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 Las Virgenes Road, Calabasas CA 91302

MINUTES
REGULAR MEETING

5:00 PM

April 24, 2018

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Pat Madrugo.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Board President Peterson in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Directors Charles Caspary, Jay Lewitt, Len Polan, and Glen Peterson.
Absent: Director Renger
Staff Present: David Pedersen, General Manager
Don Patterson, Director of Finance and Administration
Joe McDermott, Director of Resource Conservation and Public Outreach
John Zhao, Principal Engineer
Josie Guzman, Clerk of the Board
Keith Lemieux, District Counsel

2. APPROVAL OF AGENDA

Director Polan moved to approve the agenda. Motion seconded by Director Caspary. Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson
NOES: None
ABSTAIN: None

ABSENT: Renger

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR

A List of Demands: April 24, 2018: Ratify

B Monthly Investment Report for March 2018

Receive and file the Monthly Investment Report for March 2018.

Director Caspary moved to approve the Consent Calendar. Motion seconded by Director Lewitt. Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson

NOES: None

ABSTAIN: None

ABSENT: Renger

5. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A 60th Anniversary Recognition of Partner in Service, Los Angeles County Sheriff's Department

Board President Peterson recognized the Los Angeles County Sheriff's Department – Malibu/Lost Hills Station as the District's Partner in Service. Captain Joshua Thai expressed his appreciation and stated that it was an honor to accept the recognition on behalf of the Malibu/Lost Hills Station.

B Legislative and Regulatory Updates

Joe McDermott, Director of Resource Conservation and Public Outreach, reported that he and Director Polan attended the California Association of Sanitation Agencies (CASA) and WateReuse Public Policy Forum in Sacramento where they met with Senator Henry Stern and with staff from Assemblymember Richard Bloom's office. He stated that CASA and WateReuse are monitoring SB 1215 (Hertzberg) Septic to Sewer Consolidations, AB 2072 (Quirk) State Water Resources Control Board Constituents of Emerging Concern Program, AB 2379 (Bloom) Waste Management Polyester Microfiber, and SB 1263 (Portantino) Ocean Protection Council Statewide Microplastics Strategy. He noted that the District sent a letter in opposition to SB 831 (Wieckowski) Accessory Dwelling Units, which would prohibit local governments from assessing fees for construction of accessory dwelling units. He also noted that staff continues to monitor the State Water Resources Control Board's proposal to restrict irrigating turf in street medians and parkways. He stated that irrigation systems installed in street medians and parkways prior to January 1,

2019, would be grandfathered in. He also stated that many agencies oppose this regulation due to concerns that it is overreaching and takes away water rights.

General Manager David Pedersen provided an update regarding SB 1489 (Stern) California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access for All Act of 2018: Water Recycling. He stated that SB 1489 proposes to amend a legacy statute that was adopted by a voter initiative in 2000 that prevents water recycling funds channeled through the State Water Board's Water Recycling Account from being used for reservoir augmentation, which affects the Pure Water Project. He noted that the bill was set for hearing by the Senate Natural Resources and Water Committee; however, Committee Chair Hertzberg pulled this item from the agenda due to his concerns with constitutionality issues and concerns that a voter initiative would be required to amend the statute. He stated that staff reviewed the statute from a legal standpoint and was confident that amending the statute by a Senate Bill would adhere to Constitutional requirements. He also stated that the bill needed to have been signed by the Governor before the voters vote on Proposition 68 at the June 5th Primary Election. He stated that staff would seek an Assembly Bill that could be amended to include this language and consider seeking creative administrative approaches that might allow the District to apply for these funds for a portion of the project.

C Water Supply Conditions Update

Joe McDermott, Director of Resource Conservation and Public Outreach, presented the report.

D Preliminary Fiscal Years 2018-20 Two-Year Budget Plan

Angela Saccareccia, Finance Manager, provided a PowerPoint presentation.

A discussion ensued regarding the possibility of using a portion of the penalty revenue collected to reduce the Other Post-Employment Benefits (OPEB) unfunded liability and for new water conservation programs such as a Weather-based Irrigation Controller Program and a Rain Barrel Program.

The Board expressed support for using penalty revenue for the two water conservation programs and for the AMR/AMI Project.

Director Caspary requested information on the number of rain barrels installed for customers and asking these customers if they are still interested in keeping the rain barrels because the rain barrels could be repurposed and provided to other customers.

Dave Roberts, Resource Conservation Manager, continued the PowerPoint presentation and discussed the proposed Rain Barrel Program and Weather-based Irrigation Controller Program. He noted that staff would also be launching a landscape initiative and one-on-one consultations with the highest water users.

Director Lewitt requested that staff promote having customers review their sprinklers to ensure that water is not spraying onto the sidewalk or the street.

Don Patterson, Director of Finance and Administration, stated that staff would bring back the draft revised financial policies at the next Board meeting to reflect the changes discussed at the Strategic Planning Workshop.

6. TREASURER

There was no Treasurer's report.

7. FACILITIES AND OPERATIONS

A Conrad N. Hilton Foundation: Update on Campus Expansion and Special Permit to Discharge Groundwater to Sanitary Sewer

Receive and file an update on the Conrad N. Hilton Foundation Campus Expansion Project and authorize the General Manager to develop and issue a special permit for the discharge of pumped groundwater to the sanitary sewer system pursuant to Section 5-4.203 of the Las Virgenes Municipal Water District Code.

General Manager David Pedersen introduced Frans Bigelow from BD Associates, Pat Madruga and Katherine Miller from the Conrad N. Hilton Foundation, and Metra Mimori from ZGF Architects.

Frans Bigelow provided a PowerPoint presentation with an overview of the Conrad N. Hilton Foundation Campus Expansion Project.

General Manager David Pedersen presented the staff report. He discussed the Hilton Foundation's goal moving toward net-zero water consumption and request to pump a small volume of groundwater discharge from the parking garage into the District's sanitary sewer system.

Director Lewitt moved to approve Item 7A. Motion seconded by Director Caspary. Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson

NOES: None

ABSTAIN: None

ABSENT: Renger

Pat Madrugo, Vice President and Chief Financial Officer of the Conrad N. Hilton Foundation, congratulated the District on its 60th anniversary and invited the Board to tour the facilities.

B Westlake Filtration Plant Landscaping Improvements Project: Call for Bids

Authorize a Call for Bids for the Westlake Filtration Plant Landscaping Improvements Project.

General Manager David Pedersen presented the report.

Director Polan moved to approve Item 7B. Motion seconded by Director Lewitt.

John Zhao, Principal Engineer, discussed postponing the bid date if needed resulting from any comments or suggestions received from the City of Westlake for the proposed landscape improvements.

General Manager David Pedersen discussed the status of landscaping following installation of Verizon's proposed cell tower and the Gas Company seeking alternatives to lower and screen its pole.

Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson

NOES: None

ABSTAIN: None

ABSENT: Renger

C Tract No. 53138 Deerlake Ranch, Chatsworth: Acceptance of Off-site Waterline Dedication

Approve the dedication of property by Forestar Chatsworth, LLC; and authorize the General Manager to execute an acceptance of the dedication of property for Tract No. 53138 Deerlake Ranch, Chatsworth.

Director Caspary moved to approve Item 7C. Motion seconded by Director Lewitt. Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson

NOES: None

ABSTAIN: None

ABSENT: Renger

8. FINANCE AND ADMINISTRATION

A Update on Employee Total Compensation Study and Discussion of Compensation Philosophy

Receive and file an update on the Employee Total Compensation Study and provide direction, if any, on the District's compensation philosophy.

General Manager David Pedersen presented the report.

A discussion ensued regarding the District's compensation philosophy and the Board's previous direction for a non-prescriptive philosophy.

Director Caspary moved to receive and file Item 8A. Motion seconded by Director Polan. Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson
NOES: None
ABSTAIN: None
ABSENT: Renger

B Remote Analog Phone Line Replacement

Accept the proposal from TPx and authorize the General Manager to execute a three-year agreement, in the annual amount of \$48,816, for five analog phone lines and one 1.5 MB Internet connection per phone system.

General Manager David Pedersen presented the report.

Director Polan moved to approve Item 8B. Motion seconded by Director Caspary.

Mike McIntyre, SCADA Systems Analyst, responded to a question regarding connectivity using remote analog phone lines when connectivity is interrupted, installation of 1.5 MB T-1 line for Internet connection per phone system.

Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson
NOES: None
ABSTAIN: None
ABSENT: Renger

C Financial Review: Third Quarter of Fiscal Year 2017-18

Receive and file the financial review for the third quarter of Fiscal Year 2017-18.

Director Caspary moved to receive and file Item 8C. Motion seconded by Director Lewitt. Motion carried by the following vote:

AYES: Caspary, Lewitt, Polan, Peterson
NOES: None
ABSTAIN: None
ABSENT: Renger

9. INFORMATION ITEMS

A Calabasas Feeder Outage Study

B Claim by Benton and Kate Ward

C Claim by Janet Ackerman

10. NON-ACTION ITEMS

A Organization Reports

(1) MWD Representative Report

Board President Peterson stated that he was proud of his vote in support of the California WaterFix earlier this month. He reported that a Design and Construction Joint Powers Authority would be formed and governed by five agencies, including the Metropolitan Water District. He also reported that the Special Committee on the Bay Delta, Executive Committee, and the Audit and Ethics Committee met earlier in the day.

Director Caspary inquired regarding the status of the California Water Commission's decision related to the Water Storage Investment Program to fund Proposition 1 public benefit projects. General Manager David Pedersen noted that the Commission would be meeting on April 25th and 26th, and he would follow-up and provide information to the Board.

(2) Other

Director Caspary reported that he attended the Santa Monica Bay Restoration Commission Governing Board meeting on April 19th where they discussed the Proposition 12 Grant Award Process. He noted that although funds were proposed to be allocated for the Ballona Wetlands Restoration and the Rindge Dam Material Beneficial Removal Projects, neither would be able to take advantage of Proposition 12 funds due to their inability to meet the deadline. He also noted that due to time constraints on Proposition 12 funding, the Governing Board delegated authority of recommending projects to the Governing Board's staff, and the State Coastal Conservancy Board would ultimately award the funds.

Director Caspary also reported that he provided an update regarding the Pure Water Project to Dr. Stephen Bay from the Southern California Coastal Water Research Project (SCCWRP). He stated that Dr. Bay indicated that SCCWRP had studied some of the contaminants of emerging concern and developed a list of four contaminants. He noted that he provided General Manager David Pedersen's contact information to Dr. Bay so that SCCWRP's research could be made available to the District.

B Director's Reports on Outside Meetings

Director Polan reported that he attended the CASA and WaterReuse Public Policy Forum in Sacramento where he met with Senator Henry Stern and with Assemblymember Richard Bloom's staff. He noted that he joined representatives from the Goleta Sanitary District to meet with Senator Hannah-Beth Jackson. He also reported that he attended the Association of Water Agencies of Ventura County's (AWAVC) Water Symposium on April 19th, where a presentation was provided by Jon Christensen on maintaining water

in the future. He noted that Ron Merkling from Casitas Water District provided a presentation on public outreach and the power of social media. He also reported that he attended the Calabasas Mayor's Luncheon for the State of the City Address and the Westlake City Street Fair. He conveyed that Westlake Councilmember Brad Halpern mentioned that he enjoyed attending the MWD Colorado River Aqueduct and Hoover Dam Inspection Trip.

Director Lewitt reported that he also attended the AWAVC Water Symposium where a presentation was provided by Karla Nemeth, Director of the California Department of Water Resources. He also reported that he attended the MWD Colorado River Aqueduct and Hoover Dam Inspection Trip, along with former Senator Fran Pavley, Joe Del Bosque, and Westlake City Councilmembers Brad Halpern and Kelly Honig, who have now expressed support for the Pure Water Demonstration Project. He suggested that City Councilmembers be encouraged to attend these tours.

C General Manager Reports

(1) General Business

General Manager David Pedersen noted that the District would be participating in the annual "Take Your Daughters and Sons to Work Day" on April 25th, and participants would visit the Westlake Filtration Plant and Tapia Water Reclamation Facility. He noted that commemorative 60th Anniversary lunchboxes were provided to the Board, and they would also be provided to the children that attend District tours.

(2) Follow-Up Items

D Directors' Comments

Director Caspary referred to an article indicating that two-thirds of people in California that are served by water systems that fail to meet the State standard are within three miles of a system that is compliant. He expressed concern that the proposed water tax would do nothing regarding governance issues and would only sustain failing systems in perpetuity. He also expressed concern with Senator Hertzberg's proposed bill to give the State Water Resources Control Board the authority to force sewer system conversions from septic tanks into adjoining responsible sewer agencies. He inquired whether the District had conducted outreach regarding the proposed bill. General Manager David Pedersen responded that staff issued a press release, posted several items on social media, and addressed concerns with the District's lobbyist. He noted that there has been much opposition to the water tax and support for AB 2050 Small System Water Authority Act of 2018.

11. FUTURE AGENDA ITEMS

None.

12. PUBLIC COMMENTS

None.

13. CLOSED SESSION

A Conference with Labor Negotiator (Government Code Section 54957.6)

Agency Designated Representative: David W. Pedersen, General Manager; Donald Patterson, Director of Finance and Administration; Sherri Paniagua, Human Resources Director; and Kristi Reccia, Liebert Cassidy Whitmore

Employee Organization(s): Las Virgenes Manager, Supervisor, Professional and Confidential Employees Association

The Board recessed to Closed Session at **7:20 p.m.** and reconvened to Open Session at **7:37 p.m.**

District Counsel Keith Lemieux reported that the Board received a report during the Closed Session and provided direction to staff, and there was no reportable action.

14. OPEN SESSION AND ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **7:38 p.m.**, in memory of former Board Member Hal Helsley.

GLEN PETERSON, President
Board of Directors
Las Virgenes Municipal Water District

ATTEST:

JAY LEWITT, Secretary
Board of Directors
Las Virgenes Municipal Water District

(SEAL)

May 1, 2018

To: Payroll

From: David W. Pedersen
General Manager

RE: Per Diem Request – April 2018

Attached are the Director statements of attendance for meetings, conferences and miscellaneous functions, which are summarized in the table below. If you have any questions, please contact me. Thank you.

On April 25, 2017, the Board adopted Resolution No. 2513, amending the per diem rate to \$220.

<u>Director</u>	<u>No. of Meetings</u>	<u>Rate</u>	<u>Total</u>
Charles Caspary	5	\$220.00	\$1,100.00
Jay Lewitt	10	\$220.00	\$2,200.00
Glen Peterson LVMWD* – 8 MWD** – 6	14	\$220.00	\$3,080.00
Leonard Polan	6	\$220.00	\$1,320.00
Lee Renger	2	\$220.00	\$440.00

*LVMWD Code Section 2-2.106(a): "not exceeding a total of ten (10) days in any calendar month"

**LVMWD Code Section 2-2.106(b): MWD director "not exceeding a total of ten (10) additional days in any calendar month."

LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Clerk of the Board

Director's Name: Charles Caspary



Month of: Apr-18

Division: 1

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

Date(s)	# of Days Claimed		Reimbursible Expenses ² (Y/N)	Check One		Event Title
	Event	Travel ¹		Total	MWD	
4/2/2018	1		1 N		X	LAS VIRGENES - TRIUNFO JPA BOARD MTG.
4/10/2018	1		1 N		X	LAS VIRGENES MWD - REGULAR BOARD MEETING
4/17/2018	1		1 N		X	LAS VIRGENES - TRIUNFO JPA SPECIAL BOARD MTG. - Pure Water Project
4/19/2018	1		1 N		X	SANTA MONICA BAY RESTORATION COMMISSION - Marina Del Rey
4/24/2018	1		1 N		X	LAS VIRGENES MWD - REGULAR BOARD MEETING
TOTAL			5			

NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

Date Submitted: April 27, 2018

Director Signature: Charles Caspary (via email)

LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT



To: Josie Guzman Director's Name: Jay Lewitt
 Month of: April Division: 5

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

Date(s)	# of Days Claimed		Reimbursible Expenses ² (Y/N)	Check One		Event Title
	Event	Travel ¹		Total	MWD	
4.2.18	1		1		x	JPA board meeting
4.9.18	1	1	drive to LAX		x	Lobby in DC
4.10.18	1		1		x	lobby in DC
4.11.18	1		1 drive from LAX		x	Lobby in DC
4.13.18	1		1		x	Met Colorado Aqueduct
4.14.18	1		1		x	Met Colorado Aqueduct
4.15.18	1		1		x	Met Colorado Aqueduct
4.17.18	1		1			LVMWD board meeting Pure Water Demo
4.19.18	1	1	Mileage			AWA water symposium
4.24.18	1		1			LVMWD board Meeting
			TOTAL	10		

Date Submitted: 4.26.18 Director Signature: JL

NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Jose Guzman Clerk of Board Director's Name: Glen Peterson
 Month of: April 2018 Division: 2



The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

Date(s)	# of Days Claimed			Reimbursible Expenses ² (Y/N)	Check One		Event Title
	Event	Travel ¹	Total		MWD	LVMWD	
4/2/18	1		1			1	JPA Meeting
4/3/18	1		1		1		EMWD Per Meeting
4/6/18	1		1		1		Northern Center
4/8-12-18	5		5		1	5	LV Washington DC + 1700 Bono Mtg Necessary
4/13-15-18	3		3		3		CRAJORE
4/17/18	1		1			1	JPA Special ity Special Meeting
4/18/18	1		1		1		Bry Debra Prep mtg
4/24/18	1		1		1		Bono Mtg + Comd. Sec.
						6	
TOTAL				14	0	8	

Date Submitted: 5/1/18
 Director Signature: [Signature]

NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach

LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT

To: Josie Guzman, Clerk of the Board

Director's Name: Leonard Polan

Month of: Apr-18

Division: #4



The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committee Meetings/Conferences I have attended:

Date(s)	# of Days Claimed		Reimbursible Expenses ² (Y/N)	Check One		Event Title
	Event	Travel ¹		Total	MWD	
4/2/18	1	----	1	----	Y	JPA BOARD MTG
4/10/18	1	----	1	----	Y	LVMWD BOARD MTG
4/11/18	1	----	Y	----	Y	Sacramento Public Policy Mtg
4/17/18	1	----	1	----	Y	JPA Board Pure Water Workshop
4/19/18	1	----	Y	----	Y	VCAWA
4/24/18	1	----	1	----	Y	LVMWD BOARD MTG
			TOTAL			
			6			

Date Submitted: 4/27/18

Director Signature: *Leonard E. Polan*

NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed Statement of Account and Claim for Personally Incurred Expenses form.

LAS VIRGENES MUNICIPAL WATER DISTRICT - PER DIEM REPORT



To: Dave Pedersen

Director's Name: Lee Renger

Month of: APRIL 2018

Division: 3

The following are Las Virgenes Municipal Water District Board of Directors Meetings, Committees Meetings/Conferences I have attended:

Table with columns: Date(s), # of Days Claimed, Event, Travel 1, Total, Reimbursible Expenses2 (Y/N), Check One (MWD, LVMWD), Event. Includes entries for 4/2/2018 and 4/10/2018.

TOTAL 2

Date Submitted: 3/29/2018

Director Signature: Lee Renger

NOTES: 1. Travel the day before and/or after an authorized meeting or seminar outside of LA, Ventura and Orange Counties may be paid in accordance with Board Policy. 2. Attach completed Statement of Account and Claim for Personally Incurred Expenses form.



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

Subject : Augmentation of Annual Purchase Order Amounts

SUMMARY:

Staff requests authorization to augment several annual purchase orders that are forecasted to exceed the Board-approved amounts by June 30, 2018. The requested purchase order increases exceed the General Manager's change order authority, allowing up to a 10% increase, and therefore require Board approval.

RECOMMENDATION(S):

Authorize the General Manager to increase the annual purchase order amounts for the vendors identified in Table 1.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The aggregate amount of the purchase order increases is \$37,400. Sufficient funds are available in the adopted Fiscal Year 2017-18 Budget. The increased cost for the identified vendors is offset by cost savings in other areas. The work will only be performed for business units that have remaining budgeted funds.

DISCUSSION:

Annual purchase orders allow staff to immediately select vendors who can respond to unexpected and emergency work throughout the year for maintenance, laboratory testing,

construction and fleet maintenance functions.

On June 27, 2017, the Board approved annual purchase orders for 34 separate vendors with anticipated expenses totaling \$556,000. Based on the actual and forecasted needs for the remainder of this fiscal year, staff requests authority to augment the annual purchase orders for the vendors identified in Table 1, all of which were included in the initial annual purchase order approval. Table 1 also provides the year-to-date activity through May 1, 2018 and justification for the requested increases.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Doug Anders, Administrative Services Coordinator

ATTACHMENTS:

Table 1

Table 1

<u>Vendor</u>	<u>FY17/18 Approved</u>	<u>FY17/18 Actual</u>	<u>Additional Request</u>	<u>Adjusted Total</u>	<u>Justification</u>
Consolidated Electrical Products	\$ 36,300	\$ 35,850	\$ 7,200	\$ 43,500	Unanticipated work included replacing old controls at potable water pump stations.
West Coast Air Conditioning	\$ 38,000	\$ 37,360	\$ 14,000	\$ 52,000	In addition to regular preventative maintenance, additional work included thermostat at laboratory, cavity pump at Tapia, Lift Station #2 air conditioner replacement and air conditioner unit for the Tapia control building.
WESCO Distribution	\$ 16,000	\$ 14,202	\$ 3,200	\$ 19,200	Additional activity included parts for pump station electrical system; repair of swamp cooler at Building 7; electrical wire; purchase of replacement light bulbs.
Motion Industries	\$ 22,000	\$ 11,030	\$ 6,000	\$ 28,000	Additional funding needed for the current and planned purchase of belts, gearing, hydraulic parts for the Rancho and Tapia facilities and the purchase of belts for centrifuge and bearing for other equipment.
Vince Barnes Automotive	\$ 35,000	\$ 33,058	\$ 7,000	\$ 42,000	Higher than anticipated maintenance costs for fleet including work related to light bars and radio systems.



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

Subject : Tapia and Headquarters Lighting Efficiency Upgrade Project: Final Acceptance

The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for portion of the work associated with the Tapia Water Reclamation Facility in the JPA Budget. This recommendation is before the LVMWD Board for action, as Administering Agent of the JPA, as authorized in the JPA Agreement.

SUMMARY:

On November 14, 2017, the Board awarded a service contract to Retro-Tek Energy Services, Inc., in the amount of \$441,616, for the Tapia and Headquarters Lighting Efficiency Upgrade Project. Change Order No. 1, in the amount of \$17,420.04, was administratively approved to account for various changes in fixture types and quantities due to field conditions, and a total of 40 additional fixtures/lamps were installed. The work has been completed, and there are no outstanding issues to prevent final acceptance of the project. As a result, staff recommends filing a Notice of Completion and releasing the retention thirty calendar days after filing the Notice of Completion.

RECOMMENDATION(S):

Approve execution of a Notice of Completion by the Secretary of the Board and have the same recorded, and in the absence of claims from subcontractors and others, release the retention, in the amount of \$22,951.80, thirty calendar days after filing the Notice of Completion.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The final construction costs for the project were as follows:

Tapia

Contract Amount	\$313,545.00
Change Order 1	-\$10,561.22
District labor	\$12,170.93
G & A Allocation	\$28,612.80
Total Tapia Project Cost	\$343,767.51

Headquarters

Contract Amount	\$128,071
Change Order 1	\$27,990.26
District labor	\$10,889.79
G & A Allocation	\$21,924.04
Total Headquarters Project Cost	\$188,875.09

The total approved budgets were \$469,920 and \$307,560 for the Tapia Water Reclamation Facility and Headquarters, respectively. No additional appropriation is required. The cost of the work at Tapia is allocated 70.6% to the District and 29.4% to Triunfo Sanitation District.

DISCUSSION:

A total of 1,348 fixtures or lamps were replaced for the Headquarters facilities, and a total of 988 fixtures or lamps were replaced at the Tapia Water Reclamation Facility. Completion of the Tapia and Headquarters Lighting Efficiency Upgrade Project not only improved the existing aging lighting system, it also reduced the carbon footprint, save on-going energy costs and reducing maintenance costs for decades to come. The payback period for the project is estimated to be 6.3 years. Staff is currently finalizing the Rancho Lighting Efficiency Upgrade Project and planning to solicit proposals in June and perform the construction phase of the project in the summer when Rancho will be temporarily out of service due to construction for replacement of amendment bin.

GOALS:

Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: John Zhao. P. E., Principal Engineer

ATTACHMENTS:

Notice of Completion

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

Name
Street
Address
City &
State
Zip

SPACE ABOVE THIS LINE FOR RECORDER'S USE

T 420 LEGAL (9-94)

Notice of Completion

NOTICE IS HEREBY GIVEN THAT:

1. The undersigned is the owner of the interest or estate stated below in the property hereinafter described.
2. The full name of the undersigned is _____ (NAME).
3. The full address of the undersigned is _____

 (NUMBER AND STREET, CITY, STATE, ZIP).
4. The nature of the title of the undersigned is _____ OWNER IN FEE
 (E.G., owner in fee OR vendee under contract of purchase OR lessee OR OTHER APPROPRIATE DESIGNATION).
5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:

Names	Addresses
_____	_____
_____	_____
6. The names of the predecessors in interest of the undersigned, if the property was transferred subsequent to the commencement of the work of improvement herein referred to are (OR IF NO TRANSFER WAS MADE, INSERT THE WORD "none"):

Names	Addresses
_____	_____
_____	_____
7. A work of improvement on the property hereinafter described was completed on _____ (DATE).
8. The name of the original contractor, if any, for the work of improvement was _____
 (NAME OF CONTRACTOR, OR IF NO CONTRACTOR FOR THE WORK OF IMPROVEMENT AS A WHOLE, INSERT THE WORD "none"). [IF NOTICE COVERS COMPLETION OF CONTRACT FOR ONLY PART OF THE WORK OF IMPROVEMENT, ADD: The kind of work done or material furnished was _____
 (GIVE GENERAL STATEMENT, E.G., furnishing of concrete for sidewalks).
9. The property on which the work of improvement was completed is in the City of _____, County of _____, State of California, and is described as follows: _____

 (set forth description of jobsite sufficient for identification, using legal description if possible).
10. The street address of the said property is _____
 (NUMBER AND STREET, OR, IF THERE IS NO OFFICIAL STREET ADDRESS, INSERT THE WORD "none".)

Dated: _____, _____.

 _____ (SIGNATURE)

 _____ (TYPED NAME)

VERIFICATION

I, the undersigned, say:
I am the person who signed the foregoing notice. I have read the above notice and know its contents, and the facts stated therein are true of my own knowledge.

I declare under penalty of perjury that the foregoing is true and correct.

Executed at _____, California, this _____ day of _____,
 _____ (SIGNATURE)

DO NOT RECORD

Recommended Procedure in the Preparation of a Notice of Completion

A notice of completion must be filed for record *within 10 days* after completion of the work of improvement (to be computed exclusive of the day of completion), as provided in section 3093, Civil Code.

The "owner" who must file for record a notice of completion of a building or other work of improvement means the owner (or his successor in interest at the date of notice is filed) on whose behalf the work was done, though his ownership is less than the fee title. For example, if A is the owner in fee, and B, lessee under a lease, causes a building to be constructed, then B, or whoever has succeeded to his interest at the date the notice is filed, must file the notice.

If the ownership is in *two or more persons as joint tenants or tenants in common*, the notice may be signed by any one of the co-owners (in fact, the foregoing form is designed for giving of the notice by only one co-tenant), but the names and addresses of the other co-owners must be stated in paragraph 5 of the form.

In paragraphs 3 and 5, the full address called for should include street number, city, county and state.

As to paragraph 6, insert the date of completion of the work of improvement as a *whole* if applicable. However, if the notice is to be given only of completion of a particular contract, where work of improvement is made pursuant to two or more original contracts, strike the words "a work of improvement" and insert a general statement of the kind of work done or materials furnished pursuant to such contract (e.g. "The foundations for the improvements").

If the notice is to be given as a notice of completion of the work of improvement as a *whole*, insert the name of the prime contractor, if any, in paragraph 7. No contractor's name need be given if there is no general contractor, e.g., on so-called "owner-builder jobs". However, if the notice is to be given only of completion of a particular contract, where work of improvement is made pursuant to two or more original contracts, insert the name of the contractor who performed that particular contract.

Paragraph 8 should be completed only where the notice is signed by a successor in interest of the owner who caused the improvement to be constructed.

In paragraph 9, insert the *full legal* description, not merely a street address or tax description. Refer to deed or policy of title insurance. If the space provided for description is not sufficient, a rider may be attached.

In paragraph 10, show the street address, if any, assigned to the property by any competent public or governmental authority.

**NOTICE
OF COMPLETION**

CHICAGO TITLE COMPANY



WESTERN DIVISION HEADQUARTERS
245 S. LOS ROBLES AVENUE, SUITE 105
PASADENA, CALIFORNIA 91101-2820
(818) 432-7600

CHICAGO TITLE COMPANY





May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

Subject : Annual Division of Safety of Dams Fee for Westlake Reservoir Dam

SUMMARY:

The California Department of Water Resources, Division of Safety of Dams assesses an annual fee on jurisdictional dams in California to fund its dam safety and inspection program. The District's purchasing policy requires that payments exceeding \$35,000, exclusive of utility service payments, be approved by the Board. As a result, staff recommends approval of a payment, in the amount of \$36,091, to the California Department of Water Resources for the 2018 fees associated with the Westlake Reservoir Dam.

RECOMMENDATION(S):

Approve a payment, in the amount of \$36,091, to the California Department of Water Resources for the 2018 fees associated with the Westlake Reservoir Dam.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funds for this purpose are included in the adopted Fiscal Year 2017-18 Budget.

DISCUSSION:

On April 16, 2018, the District received notification from the California Department of Water Resources, Division of Safety of Dams (DSOD) that its annual fees, beginning on July 1, 2018) were increased to support the enhancements to the State's Dam Safety Program

and emergency preparedness. Attachment 1 provides a copy of the invoice.

The fees are calculated using a base rate per dam plus a dollar amount per foot of dam height. Attachment 2 provides a calculation reflecting the fees for the Westlake Reservoir Dam under both the old and new fee structures for comparison purposes.

The fee increase from Fiscal Year 2017-18 (\$26,732) to Fiscal Year 2018-19 (\$36,091) amounts to a 35% increase (\$9,359). Prior to the fee increase, these invoices were processed administratively under the General Manager's approval authority.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Doug Anders

ATTACHMENTS:

Attachment 1

Attachment 2

INVOICE
STATE OF CALIFORNIA
The Resources Agency
DEPARTMENT OF WATER RESOURCES
P.O. Box 942836
Sacramento, CA 94236-0001

LAS VIRGENES MUNICIPAL WATER DIST
MR. DAVID PEDERSEN, GENERAL MANAGER
4232 LAS VIRGENES ROAD
CALABASAS CA 91302-1994

Invoice No. 1800118693
Date 05/01/2018
Customer No. 1353

Dam Number .	Dam Name	Amount
1073.000	Westlake Reservoir	36,091.00
	Total due:	36,091.00

NOTE
Dam fees based on fixed charges of \$841.00 plus \$235.00 per foot of height.

FEE INFORMATION

Effective June 27, 2017, Senate Bill 92 modified Section 6307 of the California Water Code. In part this section stipulates that: The department shall adopt, by regulation, a schedule of fees to cover the department's reasonable regulatory costs in carrying out the supervision of dam safety.
--

Terms: Payment due by July 1, 2018. Delinquent payments are subject to a 10 percent penalty, plus interest at the rate of one-half of one percent per month (Water Code Section 6428(b)).

1 of 1

Invoice No. 1800118693
Date 05/01/2018
Customer No. 1353

Total due: \$36,091.00

Your Payment:

MAKE CHECK PAYABLE TO:
Department of Water Resources
P.O. Box 942836
Sacramento, CA 94236-0001

Phone No. (916)736-2309

Attachment 2

State of California Department of Water Resources
Westlake Reservoir Dam Fee Calculation

Dam Fee = Fixed Charge + Rate Per foot X Reservoir Height
--

	<u>Fixed Charge</u>	<u>Rate per Foot (height)</u>	<u>Reservoir Height</u>	<u>Total Fee</u>
Fiscal Year 2017-2018	\$ 632.00	\$ 174.00	150 feet	\$ 26,732.00
Fiscal Year 2018-2019	\$ 841.00	\$ 235.00	150 feet	\$ 36,091.00



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Claim by Law Office of Jonathan W. Birdt

SUMMARY:

On April 20, 2018, the District received the attached letter from the Law Office of Jonathan W. Birdt on behalf of Philip Monina. Mr. Monina was involved in a vehicle accident on January 5, 2016 that resulted in damages to District property. The District sought reimbursement for its damages and received payment in full from Mr. Monina on June 14, 2017, thereby releasing Mr. Monina from any further liability to the District stemming from the accident.

However, in February 2018, the City of Westlake Village initiated a lawsuit against Mr. Monina to recover damages to City-owned property as a result of the January 5, 2016 accident. The Law Office of Jonathan W. Birdt asserts that Mr. Monina is not required to pay damages to the City of Westlake Village because it is alleged that the District released his client from liability for damages to all parties injured in the accident, not just the District. Mr. Birdt contends that the matter is a "government code claim for damages" based on the injury incurred by the District's "potential misrepresentation".

District Counsel reviewed the letter and recommends the claim be denied.

RECOMMENDATION(S):

Deny the claim from the Law Office of Jonathan W. Birdt on behalf of Philip Monina.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

There is no financial impact associated with denying the claim.

DISCUSSION:

On January 5, 2016, Philip Monina was involved in an accident on Triunfo Canyon Road near Three Springs Drive in the City of Westlake Village. Mr. Monina lost control of his vehicle and it struck a tree, a City-owned concrete monument and a District-owned air and vacuum release valve before coming to rest in the raised center median. Mr. Monina was uninsured at the time of the accident. As a result of the accident, the District incurred damages in the amount of \$1,626.29. On December 5, 2016, the District began collection efforts by sending a demand letter and ultimately offered Mr. Monina a payment plan that concluded with payment in full on June 14, 2017. In a letter dated December 5, 2016, the District agreed to release Mr. Monina from any further liability resulting from the accident.

In February 2018, the City of Westlake Village initiated a lawsuit against Mr. Monina based on damages to City property as a result of the January 5, 2016 accident. On April 20, 2018, the District received the attached letter from the Law Office of Jonathan W. Birdt on behalf of Mr. Monina. Mr. Birdt asserts that Mr. Monina is not required to pay damages to the City of Westlake Village, alleging the District released his client from liability for damages to not just the District but to all parties injured in the accident. Mr. Birdt contends that the matter is a "government code claim for damages" based on the injury incurred by the District's "potential misrepresentation".

District Counsel reviewed the claim and recommends it be denied as the alleged facts do not create liability on the part of the District. The District is a separate entity from the City of Westlake Village and does not have authority to discharge duties owed by Mr. Monina to the City of Westlake Village. The District released Mr. Monina from further liability for damages to District property only, and since the District has not made any additional requests for payment, there was no misrepresentation or breach of contract. Additionally, the claim presented may not satisfy the statutory requirements for timeliness.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Mary Capps, Secretary

ATTACHMENTS:

Letter from Law Office of Jonathan W. Birdt

Law Office of Jonathan W. Birdt

18252 Bermuda St.

Porter Ranch, CA 91326

April 18, 2018

Donald Patterson
Director of Finance & Administration
Las Virgenes Water District
4232 Las Virgenes road
Calabasas, CA 91302

Re: Westalke v. Monia, LASC BC689948

Dear Mr. Patterson,

Following my clients accident as referenced in your letter dated December 5, 2016, my client accepted your offer and considered the matter closed. He was not contacted by anyone else until he was served with a lawsuit in February.

Obviously he was surprised to receive such a lawsuit given your statement that his payment would release him from "any further liability resulting from the accident."

His defense is hereby tendered to you pursuant to CCP section 1021.6 and there is a pending CCP 998 offer for \$30,000.00 that will expire in 28 days. We will waive all accrued fees and costs in exchange for prompt acceptance of this tender.

This matter should also be deemed a government code claim for damages based upon the injury incurred as of the date of service of the complaint, the first time upon which we became aware of your potential misrepresentation.

Respectfully,


Jonathan Birdt

CC: S. Henslee Smith- Via Email

Phone 818-400-4485

Fax 818-428-1384

Email: jon@jonbirdt.com



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Annexation of Parcel No. 4448-026-050: Las Flores Canyon Road

SUMMARY:

On March 28, 2017, the Board conceptually approved the annexation of Assessor Parcel No. 4448-026-050, which consists of approximately two acres of vacant land along the Las Flores Canyon Road within unincorporated Los Angeles County adjacent to the District's eastern boundary (see attached map). The owner of the property requested that the parcel be annexed into the District's service area and provided the attached letter from Los Angeles County Waterworks District No. 29, Malibu (WWD No. 29) agreeing in concept to the detachment.

RECOMMENDATION(S):

Pass, approve, and adopt the proposed Resolution No. 2534, approving the annexation of APN 4448-026-050 to the District's service area.

RESOLUTION NO. 2534

JOINT RESOLUTION OF THE BOARD OF SUPERVISORS AS THE GOVERNING BODY OF THE COUNTY OF LOS ANGELES, THE COUNTY OF LOS ANGELES WATERWORKS DISTRICT NO. 29, THE CONSOLIDATED FIRE PROTECTION DISTRICT OF LOS ANGELES COUNTY, THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, AND THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT AND THE LOS ANGELES COUNTY WEST VECTOR CONTROL DISTRICT, APPROVING AND ACCEPTING THE NEGOTIATED EXCHANGE OF PROPERTY TAX REVENUE RESULTING FROM REORGANIZATION NO. 2017-04 (DETACHMENT OF TERRITORY FROM COUNTY OF LOS ANGELES WATERWORKS DISTRICT NO. 29, ANNEXATION OF SAID TERRITORY TO THE LAS VIRGENES MUNICIPAL WATER DISTRICT)

(Reference is hereby made to Resolution No. 2534 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

FISCAL IMPACT:

Yes

ITEM BUDGETED:

No

FINANCIAL IMPACT:

The annexation would result in additional revenue of approximately \$20 per year in standby charges along with any applicable connection fees and rate revenue.

DISCUSSION:

Assessor Parcel No. 4448-026-050 is located on Las Flores Canyon Road, immediately adjacent to the District. Los Angeles County Waterworks District No. 29, Malibu, has no nearby facilities. The District's nearest water main is an 8-inch pipeline approximately 400 feet away from the property along Las Flores Canyon Road. The 8-inch water main could be extended to serve the property, or a Limited Service Agreement could be executed to serve the property from an existing 6-inch water main along Live Oak Meadows Road. Based on these factors, the subject property is a good candidate for annexation into the District, and on March 28, 2017, the Board conceptually approved the subject annexation.

GOALS:

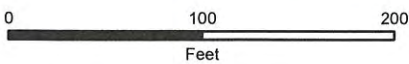
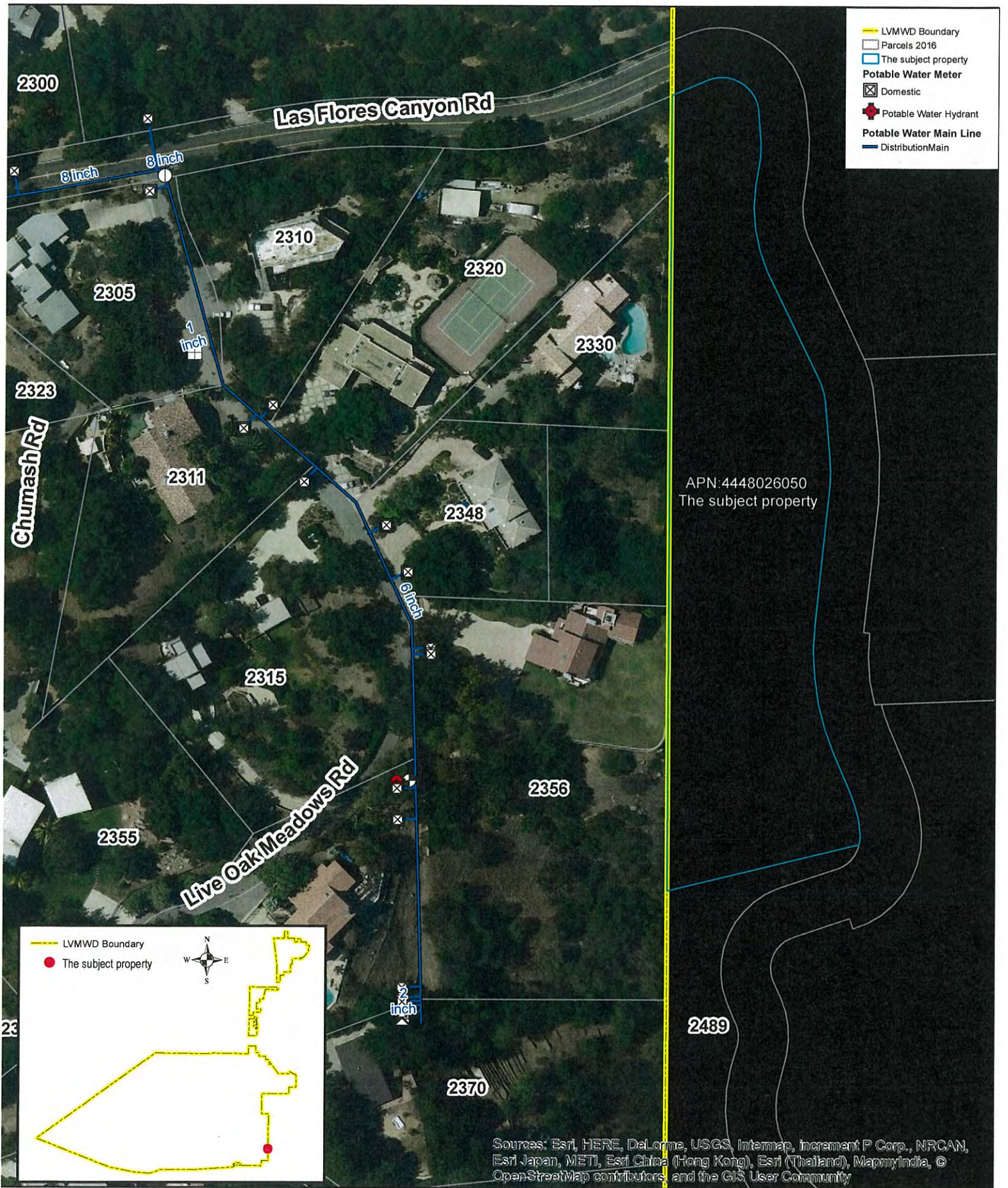
Provide Safe and Quality Water with Reliable Services

Prepared by: Donald Patterson, Director of Finance and Administration

ATTACHMENTS:

Location Map

Proposed Resolution No. 2534



1 inch = 100 feet



ATTACHMENT 1

Las Virgenes Municipal Water District is not responsible for the accuracy of this presentation. This presentation is for illustrative purposes only. Verify the physical location of all property lines, water lines and ancillary information prior to use.

Resolution 2534

JOINT RESOLUTION OF THE BOARD OF SUPERVISORS AS THE GOVERNING BODY OF THE COUNTY OF LOS ANGELES, THE COUNTY OF LOS ANGELES WATERWORKS DISTRICT NO. 29, THE CONSOLIDATED FIRE PROTECTION DISTRICT OF LOS ANGELES COUNTY, THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, AND THE BOARD OF DIRECTORS OF THE LAS VIRGENES MUNICIPAL WATER DISTRICT AND THE LOS ANGELES COUNTY WEST VECTOR CONTROL DISTRICT, APPROVING AND ACCEPTING THE NEGOTIATED EXCHANGE OF PROPERTY TAX REVENUE RESULTING FROM REORGANIZATION NO. 2017-04 (DETACHMENT OF TERRITORY FROM COUNTY OF LOS ANGELES WATERWORKS DISTRICT NO. 29, ANNEXATION OF SAID TERRITORY TO THE LAS VIRGENES MUNICIPAL WATER DISTRICT)

WHEREAS, pursuant to Section 99 of the Revenue and Taxation Code, for specified jurisdictional changes, the governing bodies of affected agencies shall negotiate and determine the amount of property tax revenue to be exchanged between the affected agencies; and

WHEREAS, the Board of Supervisors of the County of Los Angeles, as the governing body of the County, County Waterworks District No. 29, the Consolidated Fire Protection District of Los Angeles County, and the Los Angeles County Flood Control District, and on behalf of the County Public Library and Road District No. 3; and the governing bodies of the Las Virgenes Municipal Water District and the Los Angeles County West Vector Control District, have determined the amount of property tax revenue to be exchanged between their respective agencies as a result of the Las Virgenes Municipal Water District Reorganization No. 2017-04 is as set forth below:

NOW, THEREFORE, BE IT RESOLVED as follows:

1. The negotiated exchange of property tax revenue between the County of Los Angeles, County Waterworks District No. 29, Consolidated Fire Protection District, Flood Control District, County Public Library, County Road District No. 3, the Las Virgenes Municipal Water District, and the Los Angeles County West Vector Control District, as a result of the Las Virgenes Municipal Water District Reorganization No. 2017-04, which proposes the detachment of territory from the County Waterworks District No. 29, and annexation of said territory to the Las Virgenes Municipal Water District, is approved and accepted.

2. For the fiscal year commencing in the year after the filing of the statement of boundary change, for the Las Virgenes Municipal Water District Reorganization No. 2017-04, with the Board of Equalization pursuant to Government Code sections 54902 and 57204, and every fiscal year thereafter, 0.000417262 of the annual property tax growth in Tax Rate Area 08635 shall be transferred from the affected taxing entities as shown in the Attachment, to the Las Virgenes Municipal Water District as a result of Reorganization No. 2017-04 to the District. The other affected taxing entities' shares of property tax growth in Tax Rate Area 08635 shall be adjusted as specified in the Attachment.

3. There shall be no additional transfer of property taxes as a result of Reorganization No. 2017-04.

4. If at any time after the effective date of this resolution, the calculations used herein to determine initial property tax transfers or the data used to perform those calculations are found to be incorrect, thus producing an improper or inaccurate property tax transfer, the property tax transfer shall be recalculated and the corrected transfer shall be implemented for the next fiscal year.

New 2018 Bills and 2nd Year 2017 Bills of Interest

AB 2042 (Steinorth-R)

Residential graywater reuse systems: incentives. Financial incentives for residential graywater reuse systems.

***AB 2050 (Caballero-D)**

Small System Water Authority Act of 2018. Creation of small system water authorities that can absorb non-compliant water systems.

- In Assembly Appropriations Committee, read second time and amended on 5/9/18.

***AB 2072 (Quirk-D)**

State Water Resources Control Board: contaminants of emerging concern. Establishes a program to research contaminants of emerging concern (CECs) that can enter drinking water supplies.

- Referred to Assembly Appropriations suspense file on 4/4/18.

AB 2241 (Rubio-D)

Sustainable water use and demand reduction: legislative findings and declarations. Non-substantive changes to the law, which requires urban water use statewide to be reduced by 20% (20x2020).

AB 2242 (Rubio-D)

Urban water management planning. Non-substantive changes to the law.

AB 2266 (Bigelow-R)

Urban water management planning. Non-substantive changes to the law.

AB 2283 (Holden-D)

Income taxes: exclusion: turf removal water conservation program. Would allow for dollar amounts received in rebates to be excluded from gross income for the purpose of calculating personal income tax.

AB 2341 (Mathis-R)

California Environmental Quality Act: aesthetic impacts. Would establish that under certain conditions, aesthetics do not have impacts on the environment.

AB 2353 (Frazier-D)

Construction defects: actions: statute of limitations. Decreases the timeframe under which action can be brought against a contractor for construction defects from 10 years to 5 years.

AB 2371 (Carillo-D)

Water use sustainability: irrigation. Refinements to the Water Conservation in Landscaping Act, which requires the Department of Water Resources to update its model water-efficient landscape ordinance.

***AB 2379 (Bloom)**

Requires that certain clothing items include warning labels and washing instructions at point of sale to help prevent the introduction of plastic microfibers into the environment when they are washed.

- Ordered to third reading on Assembly Floor on 4/30/18.

AB 2501 (Chu-D)

Drinking water: consolidation and extension of service. Provides a definition for “disadvantaged communities” for the purposes of requiring small public water systems to be consolidated.

AB 2692 (Arambula-D)

Water: infrastructure funding. Would provide a permanent source of water infrastructure funding.

AB 2957 (Gallagher-R)

Safe and reliable water supplies. Offers incentives to encourage innovation to ensure Californians have access to safe a reliable water supplies.

AB 3045 (Gallagher-R)

Natural Resources Agency: Division of Safety of Dams. Would transfer authority and the Division of Safety of Dams from the Department of Water Resources to the Natural Resources Agency.

AB 3056 (Harper-R)

Desalinated water. Supports desalination to bolster California’s water supply.

AB 3155 (Cooper-D)

Expands the meaning of the term “public works” to include warranty work, which would also require the payment of prevailing wages.

***SB 606/AB 1668 (2017)**

Conservation as a California Way of Life. Establishes new criteria for water conservation. Potentially updates/revises criteria associated with the 20% by 2020 water conservation target mandated by SB 7 (Steinberg).

- Assembly Floor, 3rd reading on 5/7/18.

***SB 623 (2017)**

Safe and Affordable Drinking Water Fund. Imposes a water tax on individual water service connections.

- Last amended on 8/21/17 in Assembly Rules Committee. Potential insertion in the Budget Trailer Bill.

SB 952 (Anderson-R)

Water conservation: local water supplies. Gives credit to water agencies for investments made in local water supply projects toward water efficiency and conservation mandates.

***SB 831 (Wieckowski)**

Prevents the ability for utilities to charge connection fees for water and sewer services to accessory dwelling units.

- Related bills are AB 2890 (Ting-D) and SB 1468 (Skinner-D)
- Last amended on 5/1 in the Senate Appropriations Committee. Language prohibiting connections fees has been removed.

***SB 998 (Dodd-D)**

Water shutoffs: urban and community water systems. Imposes strict requirements on water utilities before a water service can be turned off for non-payment.

- Last amended 5/7/18. Scheduled for Senate Appropriations Committee 5/14/18.

***SB 1215 (Hertzberg-D)**

Drinking water systems and sewer systems: consolidation and extension of service. Establishes timelines and performance measures.

- Last amended 5/4. Scheduled for Senate Appropriations Committee 5/14/18.

***SB 1263 (Portantino)**

Calls for studying and making funds available for the study of sources of plastic microfibers in the environment.

- Last amended 5/1/18. In Senate Appropriations Committee.

SB 1301 (Beall-D)

State permitting: environment: processing times. Requires several state agencies to track and disclose permit processing times.

***SB 1498 (Stern-D)**

Modifies language to existing law that would not exclude reservoir augmentation projects from receiving grant funds that are provided under certain bond measures.

- The bill is "dead". Staff is pursuing administrative remedies instead.

Memorandum

To: Las Virgenes Municipal Water District
From: Syrus Devers, Best Best & Krieger
Date: May 10, 2018
Re: State Legislative Report

Legislative Report

In General:

The policy committees have made their first cut at the 2018 bill load. Any bill that is not a 2/3rds vote that hasn't survived an initial policy committee vote is now dead. Since this is the second year of the biennial session, dead means really dead. Surviving bills introduced in 2018 now have until May 25th to make it out of the Appropriations Committees if they're fiscal bills, which 80% are. Assuming they survive that ordeal, they then have until June 1st to make it past a Floor vote and pass over to the other house.

Governor Brown will roll out the all-important May Revise on the 11th. This is where the Budget gets synched up with actual revenues, and it triggers for the last phase of the budget subcommittee process. The subcommittees will try to wrap up their reports to the Budget Committees by the 18th, although there may be stragglers. After that the Budget Committees will take over and unresolved items will be assigned to budget conference committees. The goal is to meet the Budget deadline of June 15th.

Legislation of interest:

SB 2050 (Caballero-Small district consolidation): The water industry's answer to the water tax and the problems faced by disadvantaged water districts. The bill passed the Assembly Environmental Safety and Toxics Committee despite a "NO" vote from the Vice Chair, Assembly Member Melissa Melendes, who represents Eastern Municipal Water District, and opposition from the Howard Jarvis Taxpayers Association. It then made it through Assembly Local Government with a 6-1 vote, again splitting along party lines. It now sits in Appropriations where it will likely get sent to the "suspense file" where it will—probably—sit until the 22nd or 23rd.



BEST BEST & KRIEGER 
ATTORNEYS AT LAW

SB 998 (Dodd-Water shut off prohibitions): Although significantly amended, several objectionable provisions remain. The committee analysis in Senate Energy, Utilities, and Communication excoriated the bill. Although the bill was let out of the policy committees, it was clearly a courtesy pass with the author being put on notice that further work with the opposition was expected. After three policy committee hearings where the author kept saying it's a "work in progress" and being allowed to pass despite significant criticism from the committee, the bill has now been amended to the point that it requires a new analysis. The May 7th amendments removed major conflicts with existing provisions in the Public Utilities Code.

SB 606 (Skinner)/AB 1668 (Friedman-Water efficiency bill package): The recent amendments have been favorably received by significant water agencies and a deal has been brokered by Assembly Member Blanca Rubio. The deal is not in the final form, but enough has been publically agreed to that even arch-opponent Irvine Ranch has flipped to support. The turning point is an as-yet unfinished deal to allow a 15% credit toward a total water budget for recycled potable water for existing projects, and a 10% credit for future projects. The sticking point is how to define an existing project. Rumor has it that it will be written to include Phase 1 of the City of San Diego's Pure Water project, but not much else—which has certain other water agencies feeling a bit surly.

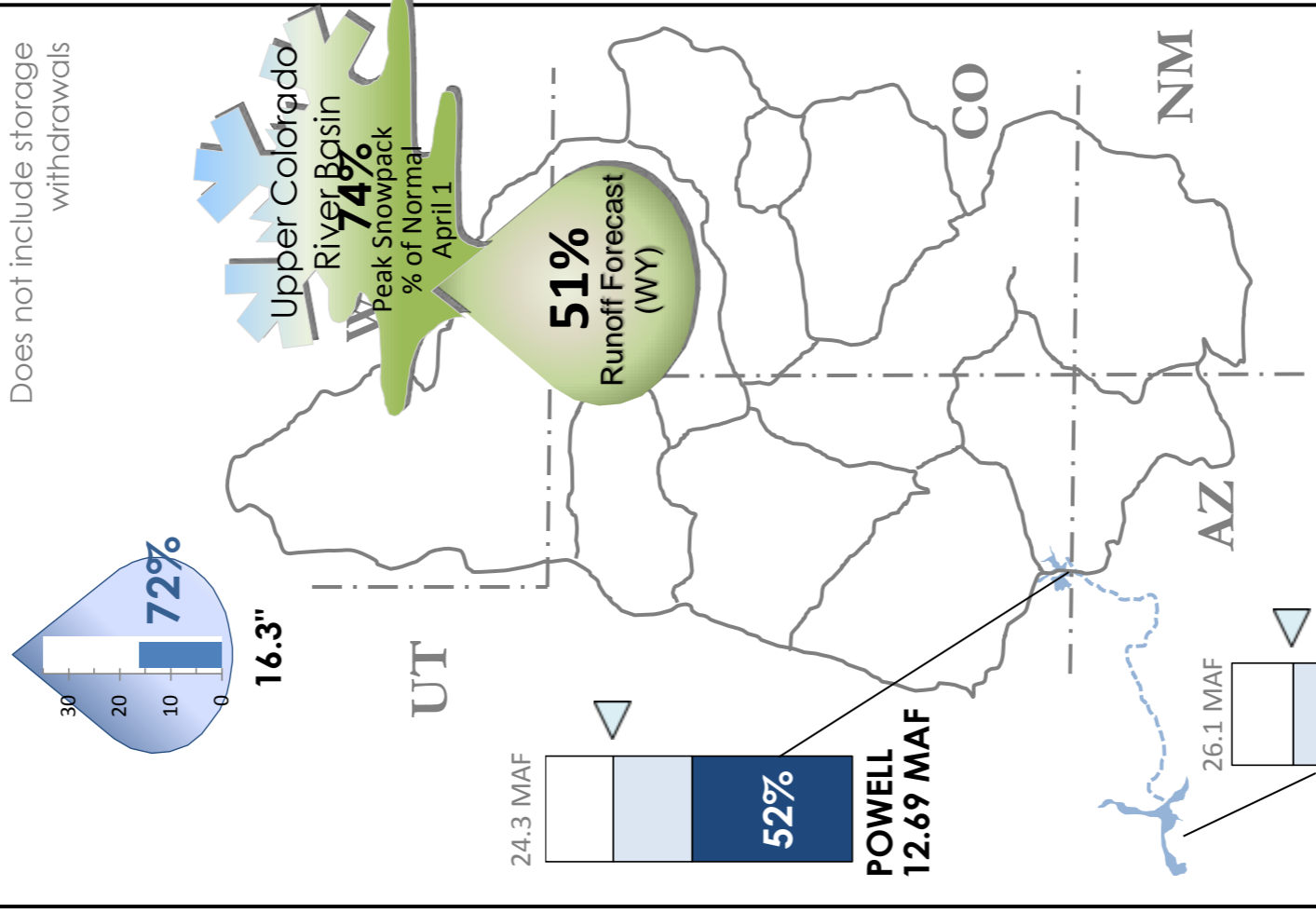
Water Tax / Budget Trailer Bill/ SB 623 (Monning): Although the battlefield is quiet for the moment, both sides are gathering their forces. The bill itself, SB 623, is no longer relevant. Over the next few weeks, the Administration will make a decision about their next move. If they feel that they're in a strong position, they put the water tax language into a Budget Trailer Bill (BTB) in June and try to move it. If not, they'll move shell vehicles out of both the Assembly and Senate budget subcommittees, or try to, and get the issue sent to a conference committee where leadership can control the outcome. If successful, that will put a BTB up for a Floor fight in August. Stayed tuned. As of this moment, the opponents are feeling pretty good about their odds.

Water Supply Conditions Report

As of: 05/15/2018

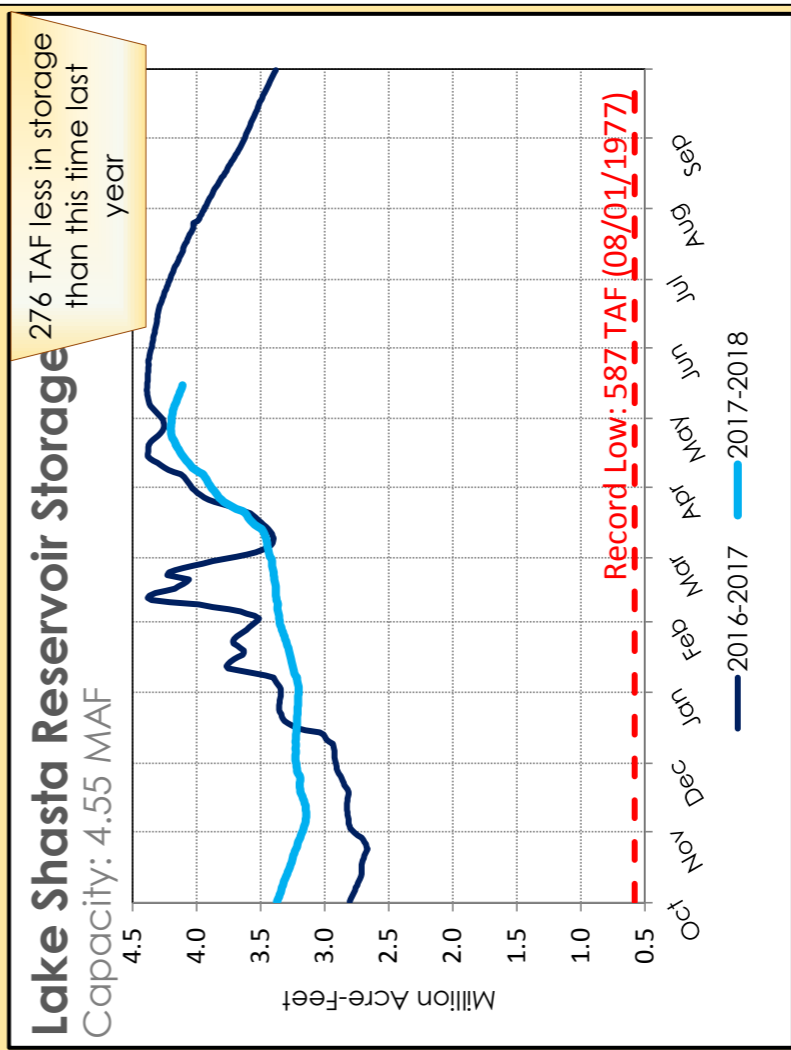
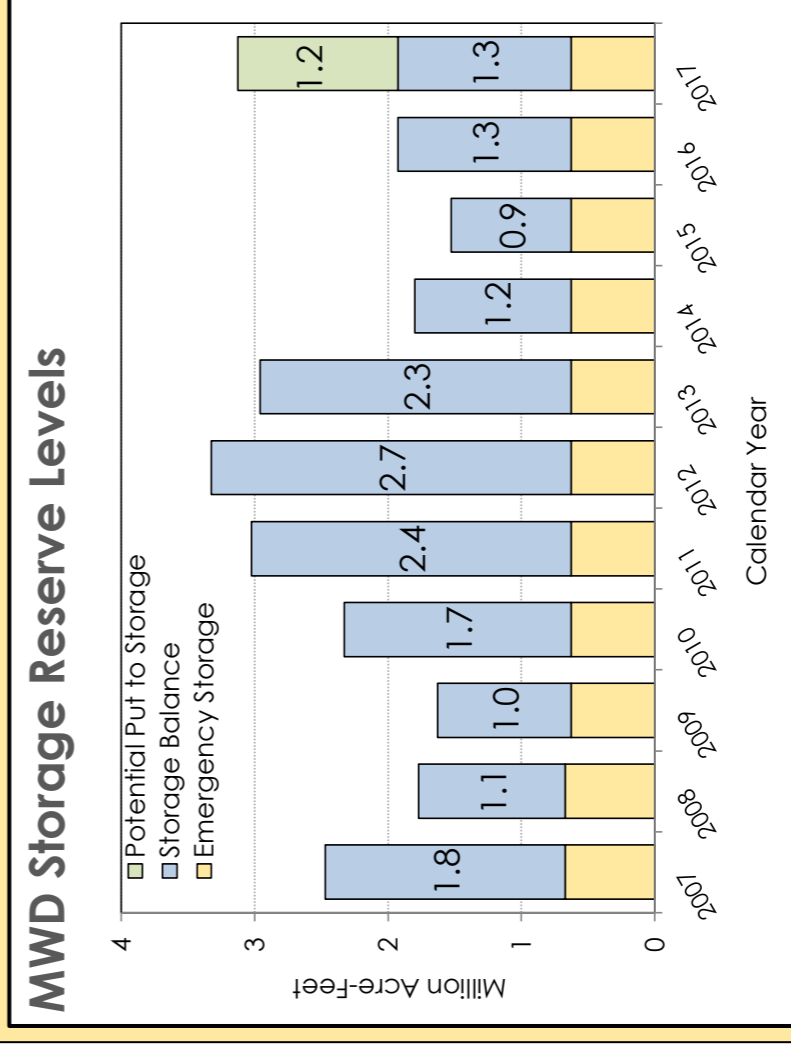
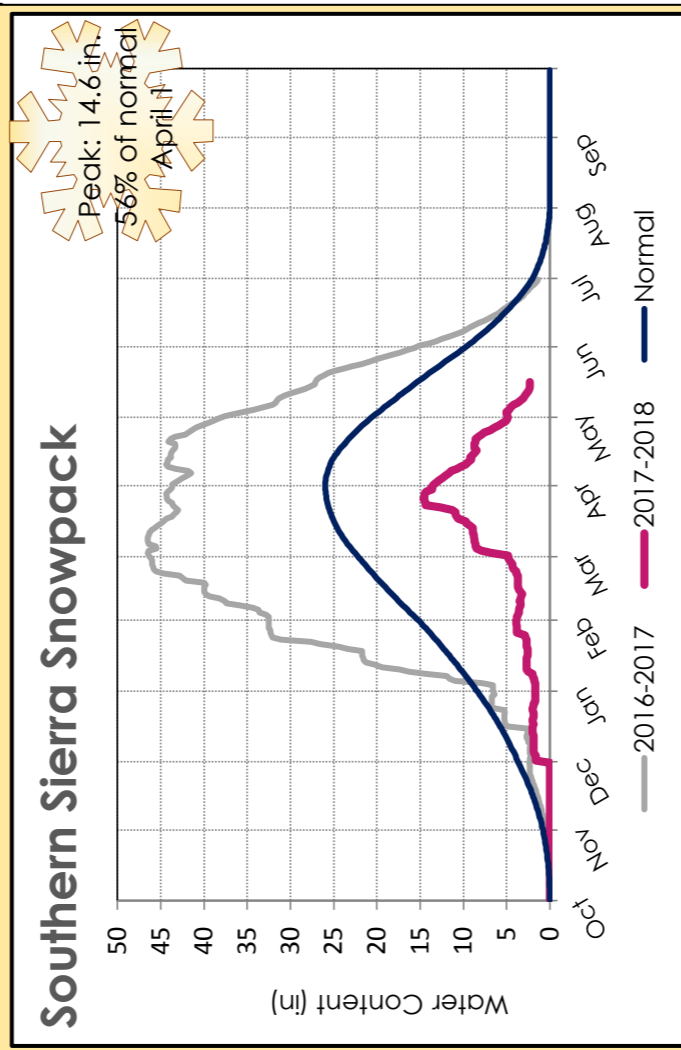
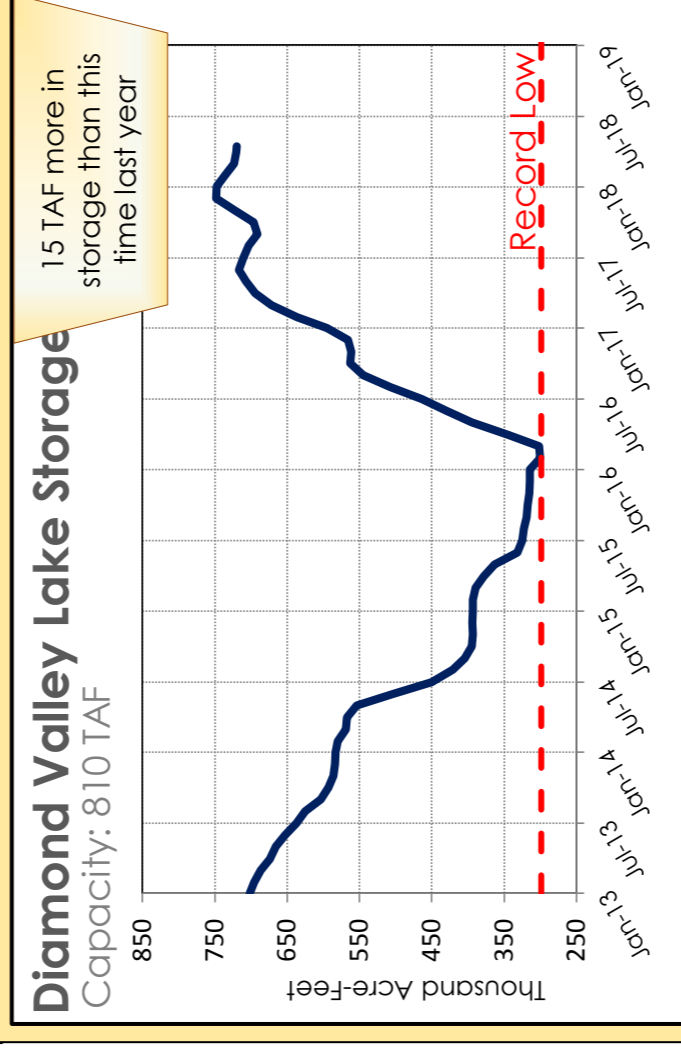
2018 Colorado River

876,765 AF
70% of full CRA
Does not include storage withdrawals



Highlights

- Statewide snowpack peaked at 58% of April 1 normal
- Sacramento River Runoff forecast is 72% of normal
- Snowpack in the Upper Colorado River Basin peaked at 74% of normal
- Lake Powell inflow forecast is at 51% of normal

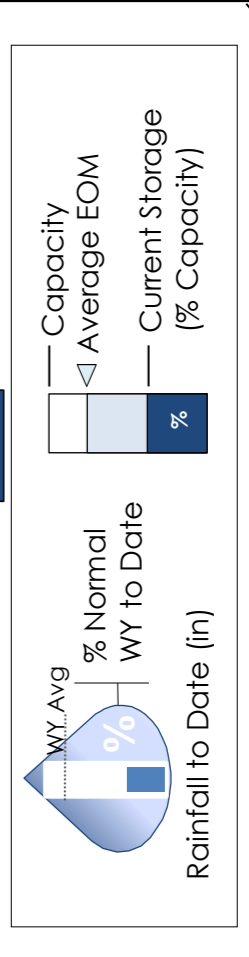
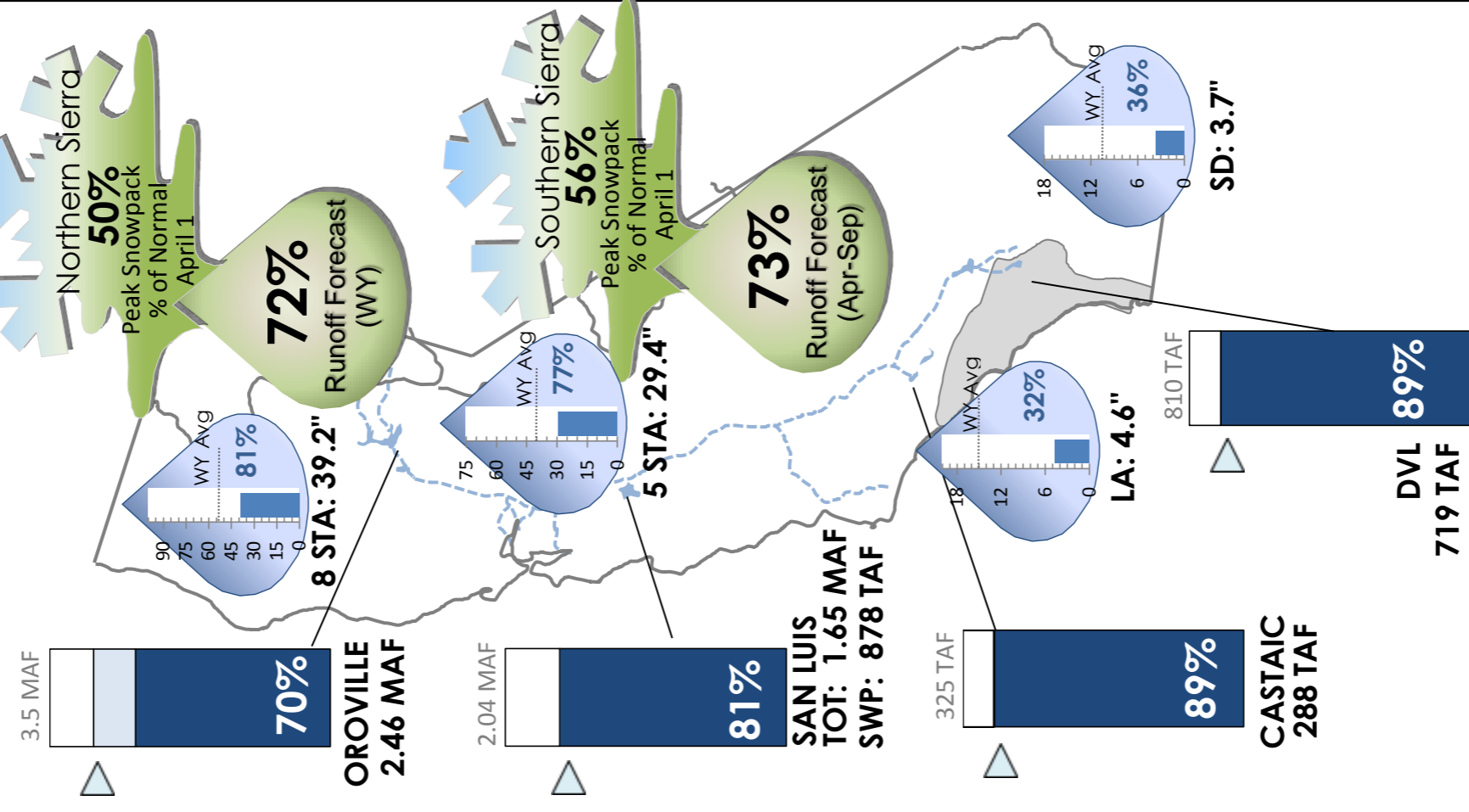


Water Supply Conditions Report

As of: 05/15/2018

2018 SWP Allocation

573,450 AF
30% of Table A



This report is produced by the Water Resource Management and contains information from various federal, state, and local agencies. The Metropolitan Water District of Southern California cannot guarantee the accuracy or completeness of this information. Readers should refer to the relevant state, federal, and local agencies for additional or the most up to date water supply information. Reservoirs, lakes, aqueducts, maps, watersheds, and all other visual representations on this report are not drawn to scale.

<http://www.mwdh2o.com/WSCR>

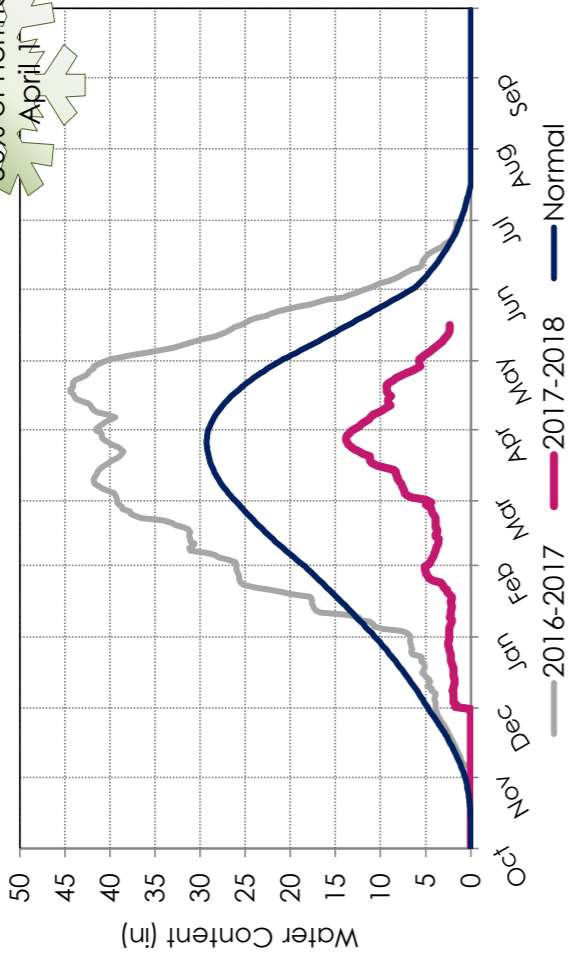
This report is best printed double sided on legal size paper (8.5" x 14") and folded in quarters

State Water Project Resources

As of: 05/15/2018

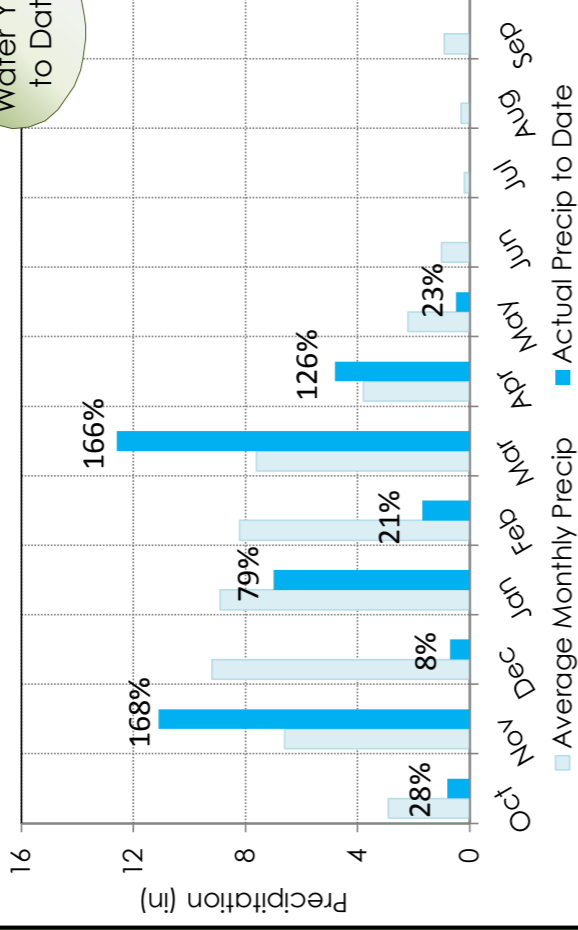
Northern Sierra Snowpack

Peak: 13.8 in.
50% of normal
April 11



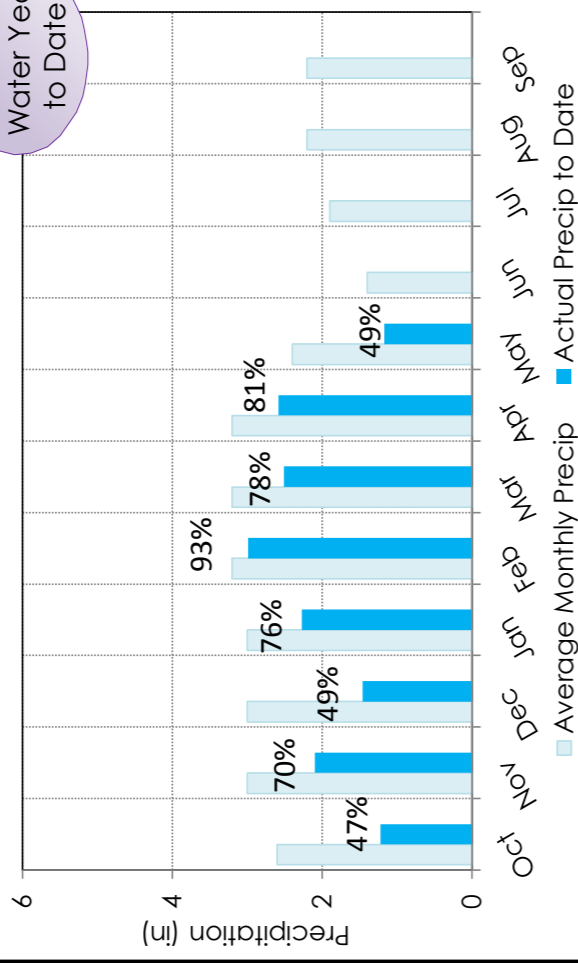
8 Station Index Precip

39.2 in.
Water Year
to Date



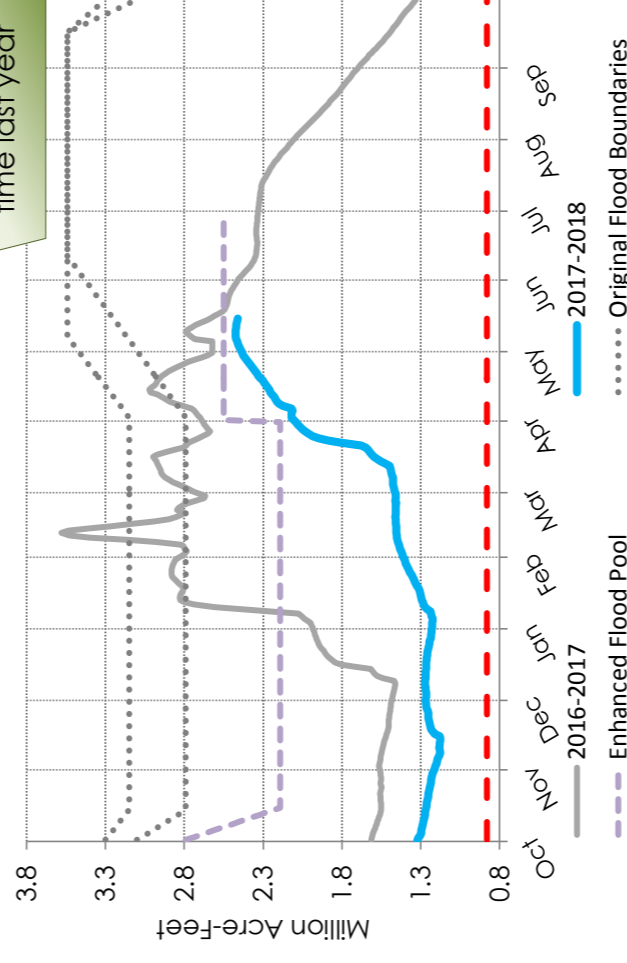
Upper Colorado Basin Precip

16.3 in.
Water Year
to Date



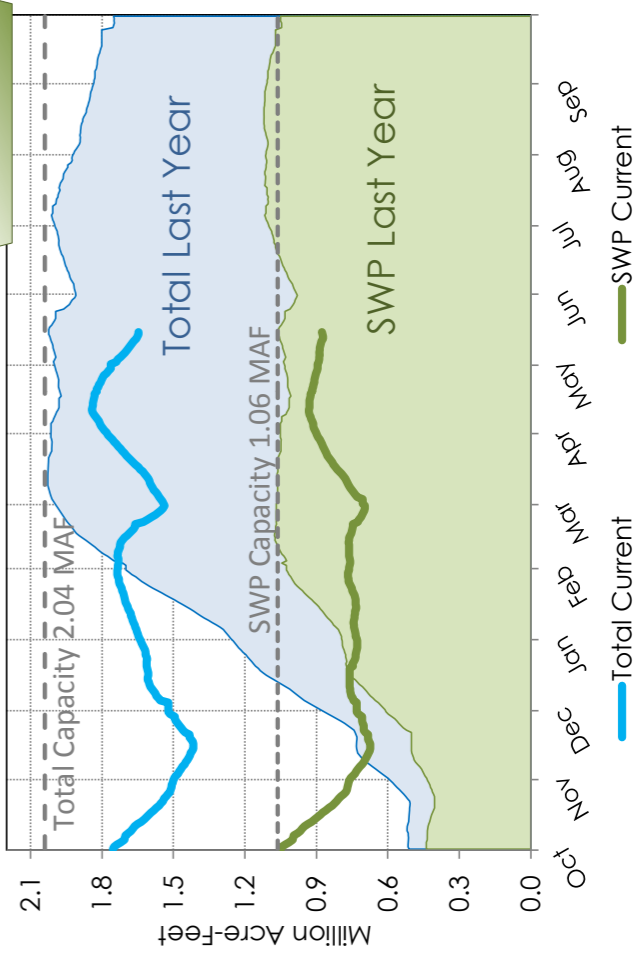
Oroville Reservoir Storage

175 TAF less in
storage than this
time last year



San Luis Reservoir Storage

182 TAF less in SWP
storage than this
time last year

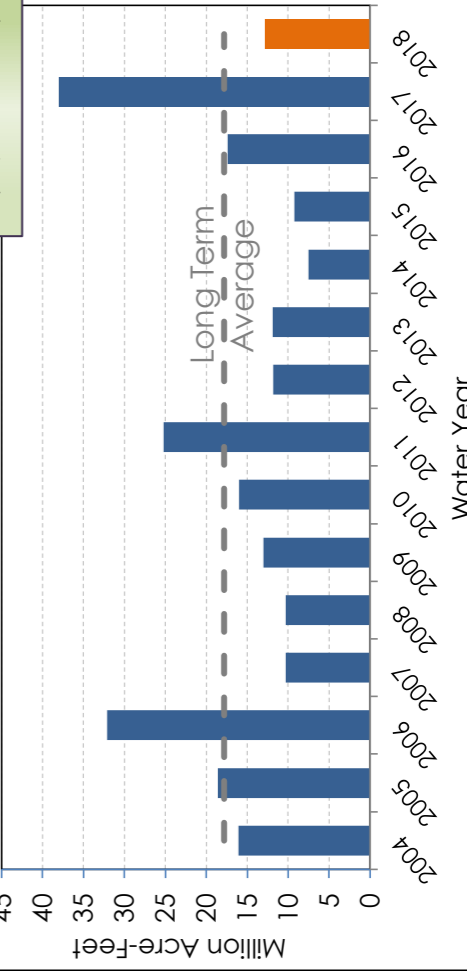


Other SWP Contract Supplies for 2018 (AF)

Transfer/Exchanges	13,500
Article 21	TBD
Pool A/B (Purchased)	TBD
Carryover Supplies	297,000

Sacramento River Runoff

WY 2018
72% of normal
(May 2018 Forecast)

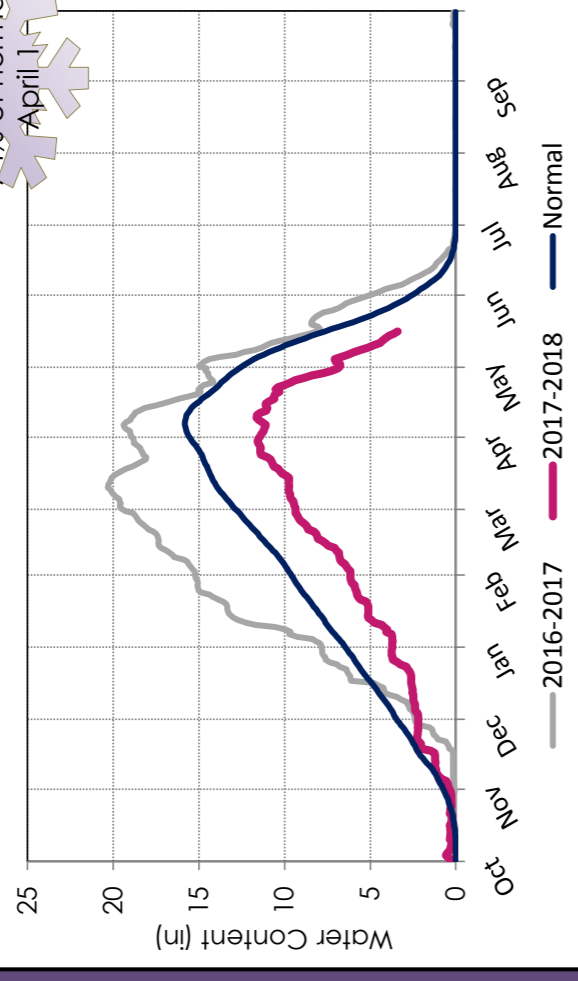


Colorado River Resources

As of: 05/15/2018

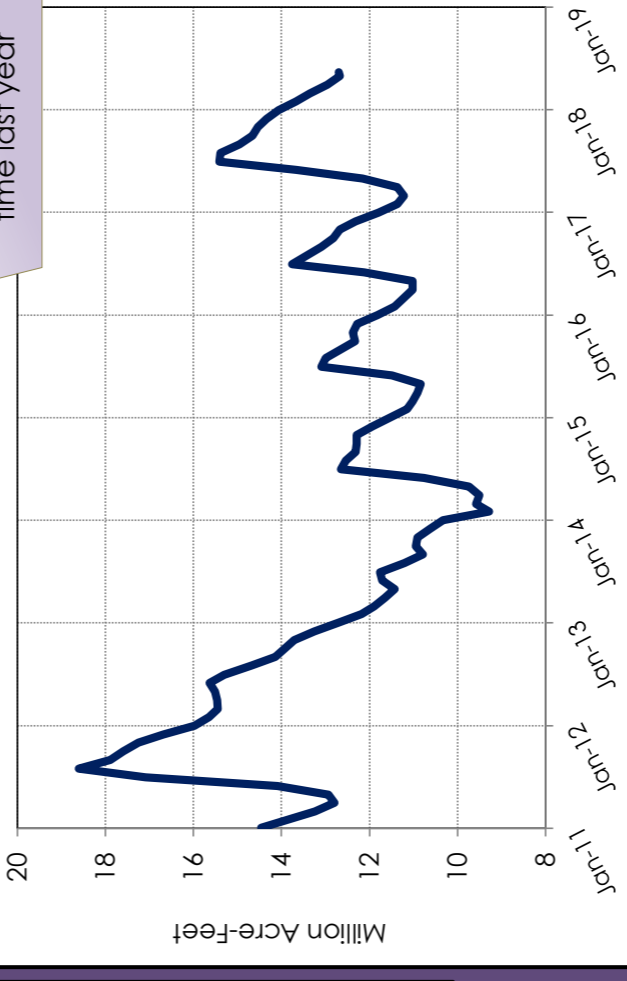
Upper Colorado Basin Snowpack

Peak: 11.6 in.
74% of normal
April 11



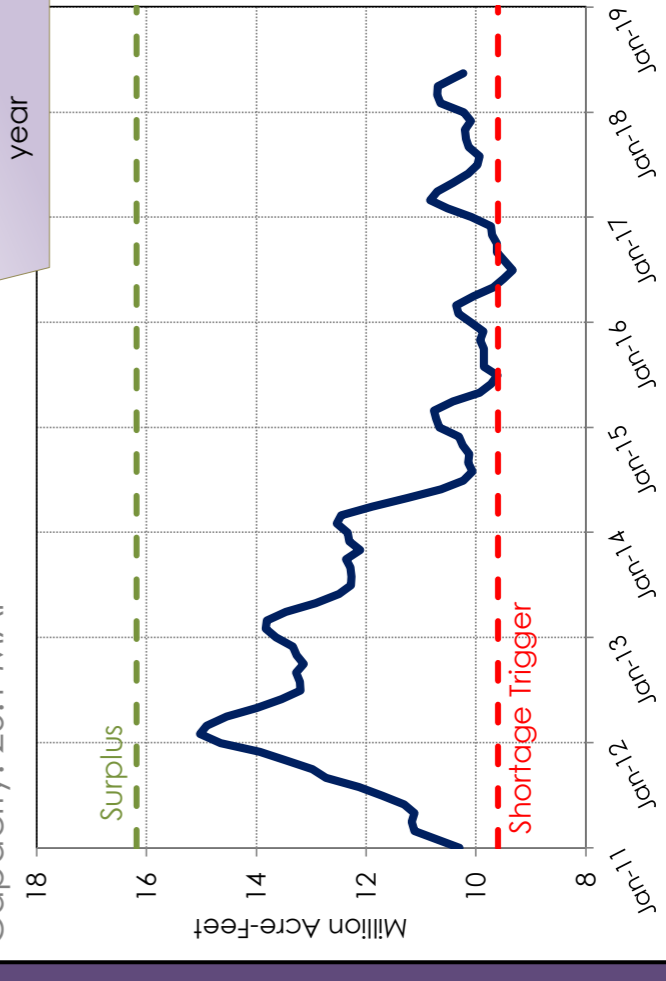
Lake Powell Storage

4 TAF more in
storage than this
time last year

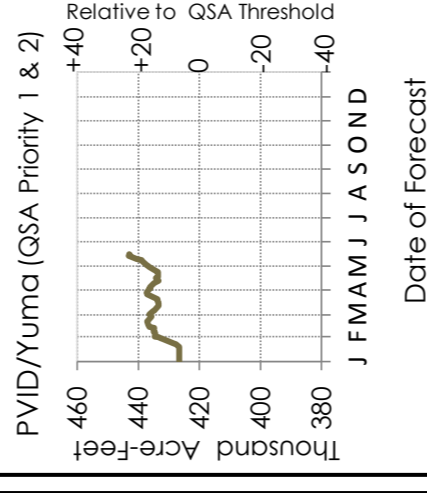


Lake Mead Storage

72 TAF less in storage
than this time last
year



2017 Colorado River Ag Use



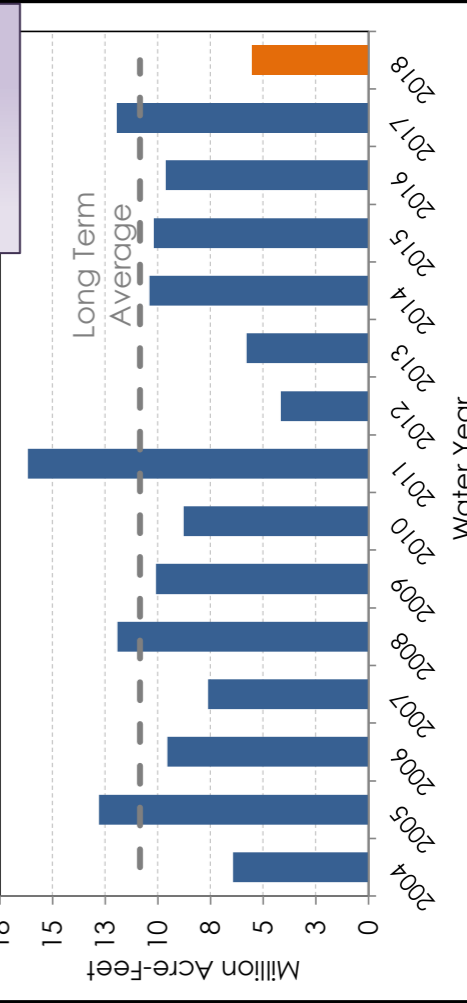
Lake Mead Shortage/Surplus Outlook

	2019	2020	2021	2022	2023
Shortage	0%	52%	64%	68%	65%
Surplus	0%	0%	3%	6%	10%

Likelihood based on results from the April 2018 USBR MTOM/CRSS model run.

Powell Unregulated Inflow

WY 2018
51% of normal
(May 2018 Forecast)





May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

**Subject : Fiscal Year 2017-18 Westlake Pump Station Roof Repair and Improvements
Project: Award**

SUMMARY:

Staff contacted roofing contractors for quotations and received three quotes for roof repairs at the Westlake Pump Station. The need for the work was identified in the Fiscal Year 2017-18 Budget and identified as the Westlake Pump Station Roof Repair and Improvements Project. The roof at the Westlake Pump Station has reached the end of its useful life and requires repair to protect the new pumps, motors and variable frequency drives that were installed during the recent upgrade to the facility. Staff recommends utilizing a built-up roofing system on the flat section and repairs to the pitched tile section.

RECOMMENDATION(S):

Approve an additional appropriation, in the amount of \$3,975; and authorize the General Manager to issue a purchase order to L&L Roofing, in the amount of \$74,000, for the Westlake Pump Station Roof Repair and Improvements Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total cost of the project is estimated to be \$108,975. An existing appropriation of \$105,000 was provided through CIP No. 10639, of which \$34,975 has been spent. As a result, an additional appropriation of \$3,975 is requested.

DISCUSSION:

Since 2012, the District has required Garland roofing materials be utilized at its four major facilities. Attached for reference are the drawings and specifications provided by Garland Company for the Westlake Pump Station. Also attached are the StressPly IV Plus Membrane specifications and HPR Torch Base Sheet for reference.

Requests for quotes were sent to the following roofing contractors and the quotes received were as follows:

L&L Roofing	\$74,000
Best Contracting Services	\$76,805
Cal-Pacific Roofing Inc.	\$127,675

Additional work was performed by Vault Access Solutions to build new roof hatches for \$34,975, which resulted in the need for the additional appropriation.

Prepared by: Shawn Triplett, Facilities Maintenance Supervisor

ATTACHMENTS:

- Drawings and Specs for Westlake Pump Station
- StressPly IV Plus Membranes Data Sheet
- HPR Torch Base Sheet Base Sheet



since 1895

ROOF MEASUREMENT REPORT

2860 Three Springs Drive, Westlake Village, CA 91361

Report Contents



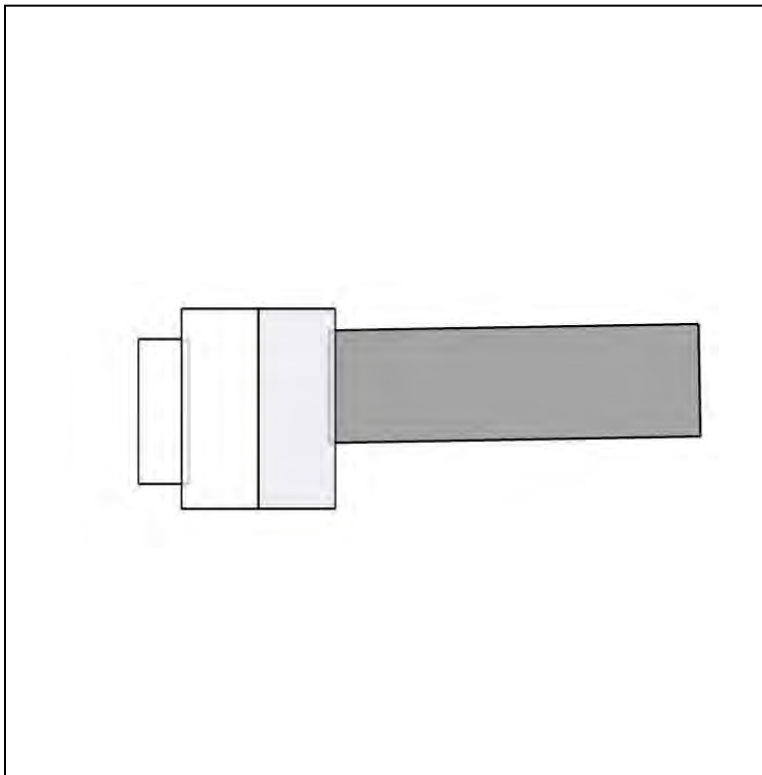
- Images 1
- Length Diagram..... 4
- Pitch Diagram..... 5
- Area Diagram 6
- Penetrations Diagram 7
- Notes Diagram 8
- Property Info..... 9
- Report Summary..... 10

Report Details

Date:	02/09/2018
Report:	21607309

Roof Details

Total Area:	4,305 sq ft
Total Roof Facets:	4
Predominant Pitch:	0/12
Number of Stories:	<=1
Total Ridges/Hips:	47 ft
Total Valleys:	0 ft
Total Rakes:	74 ft
Total Eaves:	93 ft
Total Penetrations:	11
Total Penetrations Perimeter:	390 ft
Total Penetrations Area:	876 sq ft



In this 3D model, facets appear as semi-transparent to reveal overhangs.

Contact Us

Contact: Jason Moronolte
 Company: The Garland Company
 Address: 3800 East 91st
 Cleveland OH 44105
 Phone: 661-889-0449

Measurements provided by www.eagleview.com



Certified Accurate

www.eagleview.com/Guarantee.aspx



REPORT IMAGES

The following aerial images show different angles of this structure for your reference.



Top View

REPORT IMAGES



North View



East View

REPORT IMAGES



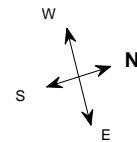
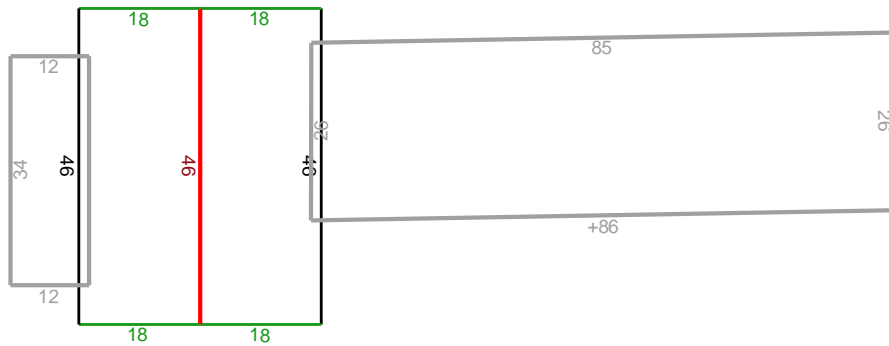
South View



West View

LENGTH DIAGRAM

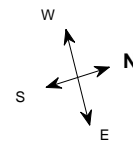
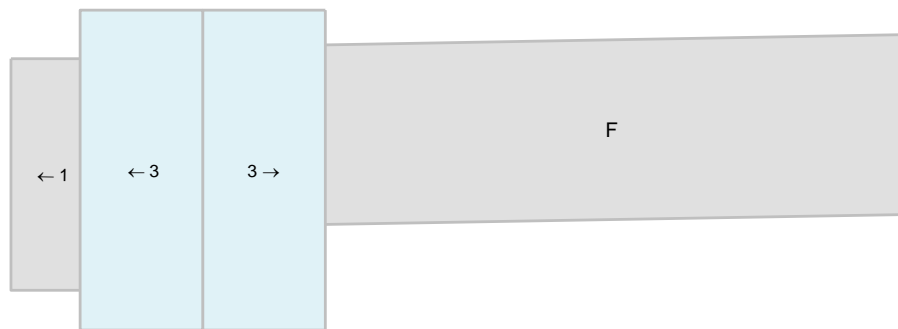
Total Line Lengths: Ridges = 47 ft Valleys = 0 ft Flashing = 0 ft Eaves = 93 ft
 Hips = 0 ft Rakes = 74 ft Step flashing = 0 ft Parapets = 314 ft



Note: This diagram contains segment lengths (rounded to the nearest whole number) over 5 feet. In some cases, segment labels have been removed for readability. Plus signs preface some numbers to avoid confusion when rotated (e.g. +6 and +9).

PITCH DIAGRAM

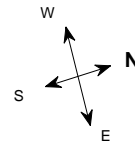
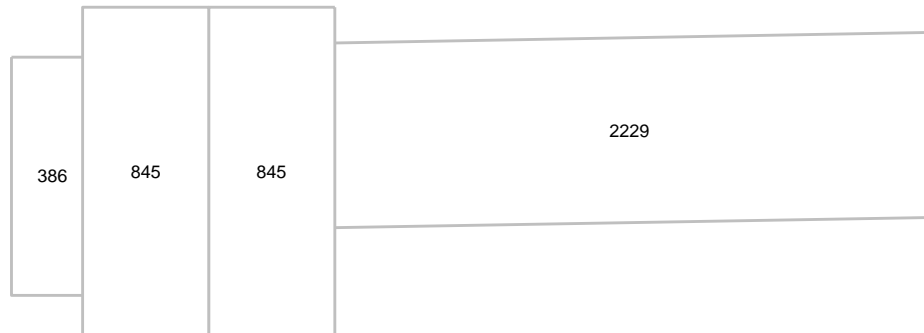
Pitch values are shown in inches per foot, and arrows indicate slope direction. The predominant pitch on this roof is 0/12.



Note: This diagram contains labeled pitches for facet areas larger than 20 square feet. In some cases, pitch labels have been removed for readability. Gray shading indicates flat, 1/12 or 2/12 pitches. If present, a value of "F" indicates a flat facet (no pitch).

AREA DIAGRAM

Total Area = 4,305 sq ft, with 4 facets.



Note: This diagram shows the square feet of each roof facet (rounded to the nearest foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).

PENETRATIONS

Penetrations Notes Diagram

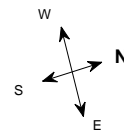
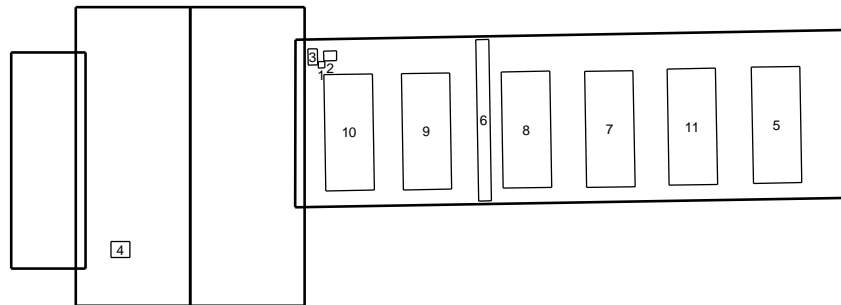
Penetrations are labeled from smallest to largest for easy reference.

Total Penetrations: 11

Total Penetrations Perimeter = 390 ft

Total Penetrations Area: 876 sq ft

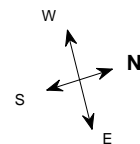
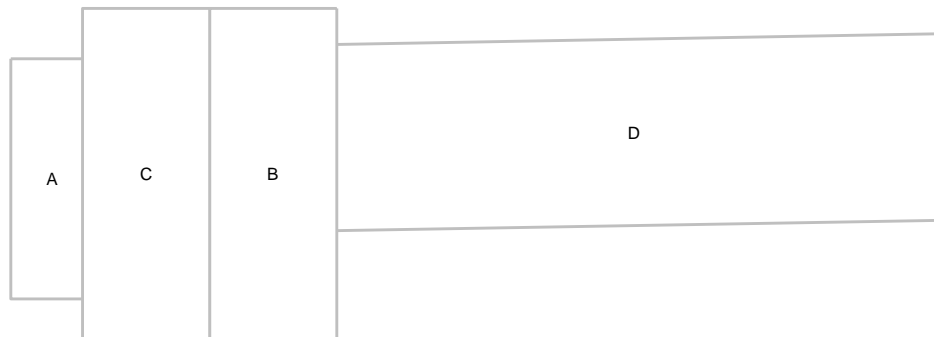
Total Roof Area Less Penetrations = 3,429 sq ft



Note: Any measured penetration smaller than 3x3 feet may need field verification. Accuracy is not guaranteed. The total penetration area is not subtracted from the total roof area.

NOTES DIAGRAM

Roof facets are labeled from smallest to largest (A to Z) for easy reference.



Property Info



Property Location

Longitude = -118.8357088

Latitude = 34.1330542

Online map of property:

http://maps.google.com/maps?f=g&source=s_q&hl=en&geocode=&q=2860+Three+Springs+Drive,Westlake+Village,CA,91361

Property Info

Year Built:

Effective Year Built: *

*



Notes

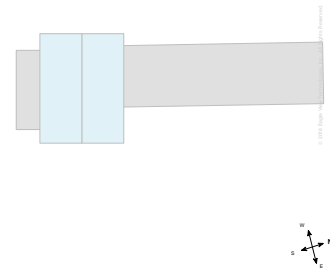
This was ordered as a commercial property. There were no changes to the structure in the past four years.

REPORT SUMMARY

Below is a measurement summary using the values presented in this report.

Lengths, Areas and Pitches

Ridge.....	47 ft (1 Ridges)
Hips.....	0 ft (0 Hips)
Valleys.....	0 ft (0 Valleys)
Rakes*.....	74 ft (4 Rakes)
Eaves/Starter**.....	93 ft (2 Eaves)
Drip Edge (Eaves + Rakes).....	167 ft (6 Lengths)
Parapet Walls.....	314 ft (8 Lengths)
Flashing.....	0 ft (0 Lengths)
Step Flashing.....	0 ft (0 Lengths)
Total Area.....	4,305 sq ft
Total Penetrations Area.....	876 sq ft
Total Roof Area Less Penetrations.....	3,429 sq ft
Total Penetrations Perimeter.....	390 ft
Predominant Pitch.....	0/12



Total Roof Facets = 4

*Rakes are defined as roof edges that are sloped (not level).

** Eaves are defined as roof edges that are not sloped and level.

Areas per Pitch

Roof Pitches	0/12	1/12	3/12
Area (sq ft)	2229.5	385.6	1689.8
% of Squares	51.8%	9%	39.3%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Waste Calculation Table

Waste %	0%	10%	12%	15%	17%	20%	22%
Area (sq ft)	4,305	4,736	4,822	4,951	5,037	5,166	5,252
Squares	43.0	47.4	48.2	49.5	50.4	51.7	52.5

This table shows the total roof area and squares (rounded up to the nearest decimal) based upon different waste percentages. The waste factor is subject to the complexity of the roof, individual roofing techniques and your experience. Please consider this when calculating appropriate waste percentages. Note that only roof area is included in these waste calculations. Additional materials needed for ridge, hip, valley, and starter lengths are not included.

Parapet Calculation Table

Wall Height (ft)	1	2	3	4	5	6	7
Vertical Wall Area (sq ft)	314	628	942	1256	1570	1884	2198

This table provides common parapet wall heights to aid you in calculating the total vertical area of these walls. Note that these values assume a 90 degree angle at the base of the wall. Allow for extra materials to cover cant strips and tapered edges.



ROOF MEASUREMENT REPORT

Penetration Table	1	2	3	4	5-10	11
Area (sq ft)	1	3	3.7	7.5	135	50
Perimeter (ft)	4	7	8	11	51	54

Any measured penetration smaller than 3x3 feet may need field verification. Accuracy is not guaranteed. The total penetration area is not subtracted from the total roof area.

SECTION 07550
MODIFIED BITUMINOUS MEMBRANE ROOFING

WESTLAKE PUMP STATION 2018 REROOFING PROJECT

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Torch Applied 2-Ply Asphalt Roofing (StressPly IV). (2.16)(3.8)
- B. Accessories. (2.19)
- C. Edge Treatment and Roof Penetration Flashings. (2.20)(3.9)
- D. SCOPE OF WORK
 1. Completely remove existing roofing system down to concrete deck
 2. Remove all loose dirt/debris using powerbroom
 3. Adhere 1" polyisocyanurate insulation per winduplift adhesive pattern provided by Garland Engineering and per diagram provided by Garland Engineering
 4. Adhere ½" GP DensDeck Prime per winduplift adhesive pattern provided by Garland Engineering with Insul-Lock HR applied per diagram provided by Garland Engineering
 5. Install one ply HPR Torchbase
 6. Install one ply Stressply IV Plus UV Mineral
 7. Replace all edge metal, coping and trim with 22 gauge Kynar coated prefinished flatsheet provided by the membrane manufacturer per ANSI/SPRI ES-1

REFERENCES

- E. ASTM D 41 - Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing.
- F. ASTM D 312 - Standard Specification for Asphalt used in Roofing.
- G. ASTM D 451 - Standard Test Method for Sieve Analysis of Granular Mineral Surfacing for Asphalt Roofing Products.
- H. ASTM D 1970 - Specification for Sheet Materials, Self-Adhering Polymer Modified Bituminous, Used as Steep Roofing Underlayment for Ice Dam Protection.
- I. ASTM D 1079 Standard Terminology Relating to Roofing, Waterproofing and Bituminous Materials.
- J. ASTM D 1227 Standard Specification for Emulsified Asphalt Used as a Protective Coating for Roofing.
- K. ASTM D 1863 Standard Specification for Mineral Aggregate Used as a Protective Coating for Roofing.
- L. ASTM D 2178 Standard Specification for Asphalt Glass Felt Used in Roofing and Waterproofing.
- M. ASTM D 2824 Standard Specification for Aluminum-Pigmented Asphalt Roof Coating.
- N. ASTM D 4586 Standard Specification for Asphalt Roof Cement, Asbestos-Free.

- O. ASTM D 4601 Standard Specification for Asphalt Coated Glass Fiber Base Sheet Used in Roofing.
- P. ASTM D 5147 Standard Test Method for Sampling and Testing Modified Bituminous Sheet Materials.
- Q. ASTM D 6162 Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements.
- R. ASTM D 6163 Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements.
- S. ASTM D 6164 - Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements.
- T. ASTM D 6754 - Standard Specification for Ketone Ethylene Ester (KEE) Sheet Roofing.
- U. ASTM D 6757 - Standard Specification for Underlayment Felt Containing Inorganic Fibers Used in Steep-Slope Roofing.
- V. ASTM E 108 - Standard Test Methods for Fire Test of Roof Coverings
- W. Factory Mutual Research (FM): Roof Assembly Classifications.
- X. National Roofing Contractors Association (NRCA): Roofing and Waterproofing Manual.
- Y. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - Architectural Sheet Metal Manual.
- Z. Underwriters Laboratories, Inc. (UL): Fire Hazard Classifications.
- AA. Warnock Hersey (WH): Fire Hazard Classifications.
- BB. ANSI-SPRI ES-1 Wind Design Standard for Edge Systems used with Low Slope Roofing Systems.
- CC. ASCE 7, Minimum Design Loads for Buildings and Other Structures
- DD. UL - Fire Resistance Directory.
- EE. FM Approvals - Roof Coverings and/or RoofNav assembly database.
- FF. FBC - Florida Building Code.
- GG. Miami-Dade Building Code Compliance - N.O.A. (Notice of Acceptance).
- HH. California Title 24 Energy Efficient Standards.

1.2 DESIGN / PERFORMANCE REQUIREMENTS

- A. Perform work in accordance with all federal, state and local codes.
- B. Design Requirements:
 - 1. Uniform Wind Uplift Load Capacity
 - a. Installed roof system shall withstand negative (uplift) design wind loading pressures complying with the following criteria.
 - 1) Design Code: ASCE 7, Method 2 for Components and Cladding.
 - 2) Importance Category:

- a) I.
 - 3) Importance Factor of:
 - a) 1.0
 - 4) Wind Speed: 120 mph
 - 5) Ultimate Pullout Value: NA pounds per each of the fastener
 - 6) Exposure Category:
 - a) C.
 - 7) Design Roof Height: 12 feet.
 - 8) Minimum Building Width: 23 feet.
 - 9) Roof Pitch: 0.5:12.
 - 10) Roof Area Design Uplift Pressure:
 - a) Zone 1 - Field of roof 20 psf
 - b) Zone 2 - Eaves, ridges, hips and rakes 33.6 psf
 - c) Zone 3 - Corners 50.5 psf
- 2. Snow Load: ___ psf.
- 3. Live Load: 20 psf, or not to exceed original building design.
- 4. Dead Load:
 - a. Installation of new roofing materials shall not exceed the dead load capacity of the existing roof structure.
- C. Energy Star: Roof System shall comply with the initial and aged reflectivity required by the U.S. Federal Government's Energy Star program.
- D. LEED: Roof system shall meet the reflectivity and emissivity criteria to qualify for one point under the LEED credit category, Credit 7.2, Landscape & Exterior Design to Reduce Heat Island - Roof.
- E. Roof System membranes containing recycled or bio-based materials shall be third party certified through UL Environment.
- F. Roof system shall have been tested in compliance with the following codes and test requirements:
 - 1. Cool Roof Rating Council:
 - a. CRRC Directory CRRC

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation instructions.
- C. Shop Drawings: Submit shop drawings including installation details of roofing, flashing, fastening, insulation and vapor barrier, including notation of roof slopes and fastening patterns of insulation and base modified bitumen membrane, prior to job start.
- D. Design Pressure Calculations: Submit design pressure calculations for the roof area in accordance with ASCE 7 and local Building Code requirements. Include a roof system attachment analysis report, certifying the system's compliance with applicable wind load requirements before Work begins. Report shall be signed and sealed by a Professional Engineer registered in the State of the Project who has provided roof system attachment analysis for not less than 5 consecutive years.
- E. Verification Samples: For each modified bituminous membrane ply product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and

patterns.

- F. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic inspection and maintenance of all completed roofing work. Provide product warranty executed by the manufacturer. Assist Owner in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance on roofing and associated work.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with NRCA Roofing and Waterproofing Manual.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified with documented ISO 9001 certification and minimum of twelve years of documented experience and must not have been in Chapter 11 bankruptcy during the last five years.
- C. Installer Qualifications: Company specializing in performing Work of this section with minimum five years documented experience and a certified Pre-Approved Garland Contractor.
- D. Installer's Field Supervision: Maintain a full-time Supervisor/Foreman on job site during all phases of roofing work while roofing work is in progress.
- E. Product Certification: Provide manufacturer's certification that materials are manufactured in the United States and conform to requirements specified herein, are chemically and physically compatible with each other, and are suitable for inclusion within the total roof system specified herein.
- F. Source Limitations: Obtain all components of roof system from a single manufacturer. Secondary products that are required shall be recommended and approved in writing by the roofing system Manufacturer. Upon request of the Architect or Owner, submit Manufacturer's written approval of secondary components in list form, signed by an authorized agent of the Manufacturer.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to commencing Work of this section.
- B. Review installation procedures and coordination required with related Work.
- C. Inspect and make notes of job conditions prior to installation:
 - 1. Record minutes of the conference and provide copies to all parties present.
 - 2. Identify all outstanding issues in writing designating the responsible party for follow-up action and the timetable for completion.
 - 3. Installation of roofing system shall not begin until all outstanding issues are resolved to the satisfaction of the Architect.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Store all roofing materials in a dry place, on pallets or raised platforms, out of direct exposure to the elements until time of application. Store materials at least 4 inches above ground level and covered with "breathable" tarpaulins.
- C. Stored in accordance with the instructions of the manufacturer prior to their application or installation. Store roll goods on end on a clean flat surface except store KEE-Stone FB 60

rolls flat on a clean flat surface. No wet or damaged materials will be used in the application.

- D. Store at room temperature wherever possible, until immediately prior to installing the roll. During winter, store materials in a heated location with a 50 degree F (10 degree C) minimum temperature, removed only as needed for immediate use. Keep materials away from open flame or welding sparks.
- E. Avoid stockpiling of materials on roofs without first obtaining acceptance from the Architect/Engineer.
- F. Adhesive storage shall be between the range of above 50 degree F (10 degree C) and below 80 degree F (27 degree C). Area of storage shall be constructed for flammable storage.

1.7 COORDINATION

- A. Coordinate Work with installing associated metal flashings as work of this section proceeds.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 WARRANTY

- A. Upon completion of the work, provide the Manufacturer's written and signed NDL Warranty, warranting that, if a leak develops in the roof during the term of this warranty, due either to defective material or defective workmanship by the installing contractor, the manufacturer shall provide the Owner, at the Manufacturer's expense, with the labor and material necessary to return the defective area to a watertight condition.
 - 1. Warranty Period:
 - a. 20 years from date of acceptance. Requires mid period inspection.
- B. Installer is to guarantee all work against defects in materials and workmanship for a period indicated following final acceptance of the Work.
 - 1. Warranty Period:
 - a. 5 years from date of acceptance.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Garland Company, Inc. (The); 3800 E. 91st St., Cleveland, OH 44105. ASD. Toll Free: 800-321-9336. Phone: 216-641-7500. Fax: 216-641-0633. Web Site: www.garlandco.com. Or Equal
Jason Moronnolte, Territory Manager
(661) 889-0449
jmoronnolte@garlandind.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. The Products specified are intended and the Standard of Quality for the products required for this project. If other products are proposed the bidder must disclose in the bid the manufacturer and the products that they intend to use on the Project. If no manufacturer and products are listed, the bid may be accepted only with the use of products specified.
 - 1. Bidder will not be allowed to change materials after the bid opening date.

2. If alternate products are included in the bid, the products must be equal to or exceed the products specified. Supporting technical data shall be submitted to the Architect/ Owner for approval prior to acceptance.
3. In making a request for substitution, the Bidder/Roofing Contractor represents that it has:
 - a. Personally investigated the proposed product or method, and determined that it is equal or superior in all respects to that specified.
 - b. Will provide the same guarantee for substitution as for the product and method specified.
 - c. Will coordinate installation of accepted substitution in work, making such changes as may be required for work to be completed in all respects.
 - d. Will waive all claims for additional cost related to substitution, which consequently become apparent.
 - e. Cost data is complete and includes all related cost under his/her contract or other contracts, which may be affected by the substitution.
 - f. Will reimburse the Owner for all redesign cost by the Architect for accommodation of the substitution.
4. Architect/ Owner reserves the right to be the final authority on the acceptance or rejection of any or all bids, proposed alternate roofing systems or materials that has met ALL specified requirement criteria.
5. Failure to submit substitution package, or any portion thereof requested, will result in immediate disqualification and consideration for that particular contractors request for manufacturer substitution.

2.2 TORCH APPLIED 2-PLY ASPHALT ROOFING

- A. Interply Adhesive:
 1. NA

2.3 ACCESSORIES:

- A. Roof Insulation: Provide JM polyisocyanurate insulation
- B. Roof Insulation: Provide G-P Gypsum DenDeck Prime, G-P Gypsum DenDeck DuraGuard, USG Securrock for proper adhesion of the torch-applied base sheet in accordance with Section 07220.

2.4 EDGE TREATMENT AND ROOF PENETRATION FLASHINGS

- A. Pre-Manufactured Edge Metal: R-Mer Force Flash-less Snap-On Fascia Cover and Splice Plate.
 1. Zinc-coated steel, ASTM A653, coating designation G-90, in thickness of 24 gauge, 22 gauge or 20 gauge, 36" to 48" by coil length, chemically treated, commercial or lock-forming quality
 2. Aluminum, ASTM B209, alloy 3105-H14, in thickness of .032" nom. or .040" nom. or .050" nom. or .063" nom.
- B. Pre-Manufactured Edge Metal: R-Mer Edge Snap-On Fascia Cover and Splice Plate.
 1. Zinc-coated steel, ASTM A653, coating designation G-90, in thickness of 24 gauge, 22 gauge or 20 gauge, 36" to 48" by coil length, chemically treated, commercial or lock-forming quality.
 2. Aluminum, ASTM B209, alloy 3105-H14, in thickness of .032" nom. or .040" nom. or .050" nom. or .063" nom.
- C. Pre-Manufactured Edge Metal: R-Mer Edge Extruded Fascia Cover and Splice Plate.
 1. Aluminum, ASTM B209, alloy 3105-H14, in thickness of .063" min.

- D. Pre-Manufactured Coping Cap: R-Mer Edge Coping Cap Cover and Splice Plate.
1. Zinc-coated steel, ASTM A653, coating designation G-90, in thickness of 24 gauge, 22 gauge or 20 gauge, 36" to 48" by coil length, chemically treated, commercial or lock-forming quality.
 2. Aluminum, ASTM B209, alloy 3105-H14, in thickness of .040" nom. or .050" nom. or .063" nom
- E. Pre-Manufactured Edge Metal: R-Mer Force Flash-less Snap-On Fascia Extruded Base Anchor and Components.
1. Base Anchor: 6005A-T61 extruded aluminum.
 2. Compression Seal for top of anchor: TPE thermoplastic elastomer.
 3. Sealant for Flange: Green-Lock Sealant XL: Single-component high performance 100% solids, interior and exterior polyether joint sealant.
- F. Pre-Manufactured Edge Metal: R-Mer Edge Snap-On Fascia or Extruded Fascia Continuous Cant
1. Zinc-coated steel, ASTM A653, coating designation G-90, in thickness of 0.0299 nom./22 gauge, 36" to 48" by coil length, chemically treated, commercial or lock-forming quality.
- G. Pre-Manufactured Coping Cap: R-Mer Edge Coping Chairs
1. Zinc-coated steel, ASTM A653, coating designation G-90, in thickness of 0.0635 nom./ 16 gauge, 36" to 48" by coil length, chemically treated, commercial or lock-forming quality.
- H. Pre-Manufactured Edge Metal Finishes:
1. Exposed and unexposed surfaces for mill finish flashing, fascia, and coping cap, as shipped from the mill
 2. Exposed surfaces for coated panels:
 - a. Steel Finishes: fluorocarbon finish. Epoxy primer baked both sides, .2-.25 mils thickness as approved by finish coat manufacturer. Weathering finish as referred by National Coil Coaters Association (NCCA). Provided with the following properties.
 - 1) Pencil Hardness: ASTM D3363, HB-H / NCCA II-2.
 - 2) Bend: ASTM D-4145, O-T / NCCA II-19
 - 3) Cross-Hatch Adhesion: ASTM D3359, no loss of adhesion
 - 4) Gloss (60 deg. angle): ASTM D523, 25+/-5%
 - 5) Reverse Bend: ASTM D2794, no cracking or loss of adhesion
 - 6) Nominal Thickness: ASTM D1005
 - a) Primer: 0.2 mils
 - b) Topcoat, 0.7 mils min
 - c) Clear Coat (optional, only used with 22 ga. steel) 0.3 mils
 - 7) Color: Provide as specified. (Subject to minimum quantities)
- I. Manufactured Flashing Ply: R-MER Ply galvalume steel and modified membrane roof termination/flashing system comprised of a flexible, tie-in membrane, factory-bonded within a watertight, mechanical seal to a galvalume steel vertical flashing or fascia reveal profile. Siliconized modified polyester, epoxy primer baked both sides. Modified membrane is a 180 mil, Styrene-Butadiene-Styrene SBS (Styrene-Butadiene-Styrene) rubber modified membrane reinforced with a dual fiberglass scrim.
1. Tensile Strength, ASTM D 5, 147
 - a. 2 in/min. @ 73.4 +/- 3.6 deg. F MD 210 lbf/in CMD 210 lbf/in
 - b. 50 mm/min. @ 23 +/- 3 deg. C MD 36.75 kN/m CMD 36.75 kN/m
 2. Tear Strength, ASTM D 5147
 - a. 2 in/min. @ 73.4 +/- 3.6 deg. F MD 250 lbf CMD 250 lbf
 - b. 50 mm/min. @ 23 +/- 3 deg. C MD 1112 N CMD 1112 N
 3. Elongation at Maximum Tensile, ASTM D5147

- a. 2 in/min. @ 73.4 +/- 3.6 deg. F MD 6.0% CMD 6.0%
- b. 50 mm/min. @ 23 +/- 3 deg. C MD 6.0% CMD 6.0%
- 4. Low Temperature Flexibility, ASTM D5147: Passes -30 deg. F (-34 deg. C)
- 5. Coating Properties:
 - a. Pencil Hardness, NCCA II-2 - ASTM D3363, F-H
 - b. Bend, NCCA II-19, ASTM D 4145, 2-T
 - c. Adhesion / Cross-Hatch, ASTM D3359, no loss of adhesion
 - d. Gloss (60 deg. angle), ASTM D 523, 90 +/- 5%
 - e. Reverse Impact, ASTM D 2794 no cracking or loss of adhesion
 - f. Nominal Thickness, ASTM D 1005, primer and topcoat 1.0 mils.
- J. Vents and Breathers: Heavy gauge aluminum and fully insulated vent that allows moisture and air to escape but not enter the roof system as recommended and furnished by the membrane manufacturer.
- K. Drain Flashings should be 4lb (1.8kg) sheet lead formed and rolled.
- L. Plumbing stacks should be 4lb (1.8kg) sheet lead formed and rolled.
- M. Liquid Flashing - Tuff-Flash: An asphaltic-polyurethane, low odor, liquid flashing material designed for specialized details unable to be waterproofed with typical modified membrane flashings.
 - 1. Tensile Strength, ASTM D 412: 400 psi
 - 2. Elongation, ASTM D 412: 300%
 - 3. Density @77 deg. F 8.5 lb/gal typical
- N. Fabricated Flashings: Fabricated flashings and trim are specified in Section 07620.
 - 1. Fabricated flashings and trim shall conform to the detail requirements of SMACNA "Architectural Sheet Metal Manual" and/or the CDA Copper Development Association "Copper in Architecture - Handbook" as applicable.
- O. Manufactured Roof Specialties: Shop fabricated copings, fascia, gravel stops, control joints, expansion joints, joint covers and related flashings and trim are specified in Section 07710.
 - 1. Manufactured roof specialties shall conform to the detail requirements of SMACNA "Architectural Sheet Metal Manual" and/or the NRCA "Roofing and Waterproofing Manual" as applicable.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Inspect and approve the deck condition, slopes and fastener backing if applicable, parapet walls, expansion joints, roof drains, stack vents, vent outlets, nailers and surfaces and elements.
- C. Verify that work penetrating the roof deck, or which may otherwise affect the roofing, has been properly completed.
- D. If substrate preparation and other conditions are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. General: Clean surfaces thoroughly prior to installation.
 - 1. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

2. Fill substrate surface voids that are greater than 1/4 inch wide with an acceptable fill material.
 3. Roof surface to receive roofing system shall be smooth, clean, free from loose gravel, dirt and debris, dry and structurally sound.
 4. Wherever necessary, all surfaces to receive roofing materials shall be power broom and vacuumed to remove debris and loose matter prior to starting work.
 5. Do not apply roofing during inclement weather. Do not apply roofing membrane to damp, frozen, dirty, or dusty surfaces.
 6. Fasteners and plates for fastening components mechanically to the substrate shall provide a minimum pull-out capacity of 300 lbs. (136 k) per fastener. Base or ply sheets attached with cap nails require a minimum pullout capacity of 40 lb. per nail.
 7. Prime decks where required, in accordance with requirements and recommendations of the primer and deck manufacturer.
- B. Poured reinforced concrete
1. Shall be smooth, dry, clean and free of ice/frost, projections and depressions. Concrete shall be fully cured and the surface shall be broom cleaned and free of release/curing agents prior to commencement of work.
 2. Prepared concrete surfaces for roofing or insulation by priming with asphalt/concrete primer conforming to ASTM D 41. Apply at a rate of approx. 1 gallon/100 sq. ft. (.4 L/m²). All primed areas shall be fully dried before proceeding with the application of the roof system. Hold back bitumen at the joints approximately 4 inches (102 mm) to prevent bitumen drippage.
- C. Insulation: Roof insulation is specified in Section
1. All joints between layers should be staggered when multiple layers of insulation are installed. Insulation greater than 2.5 inches shall be installed in multiple layers.
 2. Insulation shall be kept dry at all times. Install only as much insulation as can be covered with completed roofing membrane before the end of the day's work or prior to onset of inclement weather.
 3. Edges shall butt tightly and all cuts shall fit neatly against adjoining surfaces to provide a smooth overall surface. Gaps of greater than 1/4 inch width shall be filled with insulation.
 4. Install tapered insulation around roof drains and penetrations to provide adequate slope for proper drainage.
 5. Mechanically attached insulation shall be fastened in accordance with code and insurance requirements for the applicable geographic zone with the required number and type of fasteners and plates.
 6. When asphalt or cold adhesive attachment is specified, the proposed insulation shall be compatible with the roof substrate, the proposed bitumen and the requirements of the specific membrane.
 7. Hot asphalt application:
 - a. Maximum 4 foot by 4 foot insulation boards shall be attached with hot asphalt.
 - b. Asphalt for insulation attachment shall meet ASTM D 312 Type III or IV criteria, as dictated by the roof slope or other design conditions.
 - c. Expanded polystyrene (EPS) materials shall not be installed with hot bitumen products.

3.3 INSTALLATION - GENERAL

- A. Install modified bitumen membranes and flashings in accordance with manufacturer's instructions and with the recommendations provided by the National Roofing Contractors Association's Roofing & Waterproofing Manual, the Asphalt Roofing Manufacturers Association, and applicable codes.
- B. General: Avoid installation of modified bitumen membranes at temperatures lower than 40-45 degrees F. When work at such temperatures unavoidable use the following precautions:

1. Take extra care during cold weather installation and when ambient temperatures are affected by wind or humidity, to ensure adequate bonding is achieved between the surfaces to be joined. Use extra care at material seam welds and where adhesion of the applied product to the appropriately prepared substrate as the substrate can be affected by such temperature constraints as well.
 2. Unrolling of cold materials, under low ambient conditions must be avoided to prevent the likelihood of unnecessary stress cracking. Rolls must be at least 40 degrees F at the time of application. If the membrane roll becomes stiff or difficult to install, it must be replaced with roll from a heated storage area.
- C. Commence installation of the roofing system at the lowest point of the roof (or roof area), working up the slope toward the highest point. Lap sheets shingle fashion so as to constantly shed water
- D. All slopes greater than 2:12 require back-nailing to prevent slippage of the ply sheets. Use ring or spiral-shank 1 inch cap nails, or screws and plates at a rate of 1 fastener per ply (including the membrane) at each insulation stop. Place insulation stops at 16 ft o.c. for slopes less than 3:12 and 4 feet o.c. for slopes greater than 3:12. On non-insulated systems, nail each ply directly into the deck at the rate specified above. When slope exceeds 2:12, install all plies parallel to the slope (strapping) to facilitate backnailing. Install 4 additional fasteners at the upper edge of the membrane when strapping the plies.

3.4 INSTALLATION TORCH APPLIED 2-PLY ASPHALT ROOFING

- A. Base Ply: Install torch base sheet to a properly prepared substrate. Shingle in proper direction to shed water on each area of roofing.
1. Lay out the roll in the course to be followed and unroll 6 feet (1.8 m).
 2. Using a roofing torch, heat the surface of the coiled portion until the burn-off backer melts away. At this point, the material is hot enough to lay into the substrate. Progressively unroll the sheet while heating and press down with your foot to insure a proper bond.
 3. After the major portion of the roll is bonded, re-roll the first 6 feet (1.8 m) and bond it in a similar fashion.
 4. Repeat this operation with subsequent rolls with side laps of 4 inches (101 mm) and end laps of 8 inches (203 mm).
 5. Give each lap a finishing touch by passing the torch along the joint and spreading the melted bitumen evenly with a rounded trowel to insure a smooth, tight seal.
 6. Extend underlayment 2 inches (50 mm) beyond top edges of cants at wall and projection bases.
 7. Install base flashing ply to all perimeter and projections details.
- B. Modified Cap (Ply) Sheet: Over torch base sheet underlayment, lay out the roll in the course to be followed and unroll 6 feet (1.8 m). Stagger seams over the torch base sheet seams.
1. Using a roofing torch, heat the surface of the coiled portion until the burn-off backer melts away. At this point, the material is hot enough to lay into the substrate. Progressively unroll the sheet while heating and press down with your foot to insure a proper bond.
 2. After the major portion of the roll is bonded, re-roll the first 6 feet (1.8 m) and bond it in a similar fashion.
 3. Repeat this operation with subsequent rolls with side laps of 4 inches (101 mm) and end laps of 8 inches (203 mm).
 4. Give each lap a finishing touch by passing the torch along the joint and spreading the melted bitumen evenly with a rounded trowel to insure a smooth, tight seal.
- C. Fibrous Cant Strips: Provide non-combustible perlite or glass fiber cant strips at all wall/curb detail treatments where angle changes are greater than 45 degrees. Cant may be set in approved cold adhesives, hot asphalt or mechanically attached with approved plates and

fasteners.

- D. Wood Blocking, Nailers and Cant Strips: Provide wood blocking, nailers and cant strips as specified in Section 06114.
 - 1. Provide nailers at all roof perimeters and penetrations for fastening membrane flashings and sheet metal components.
 - 2. Wood nailers should match the height of any insulation, providing a smooth and even transition between flashing and insulation areas.
 - 3. Nailer lengths should be spaced with a minimum 1/8 inch gap for expansion and contraction between each length or change of direction.
 - 4. Nailers and flashings should be fastened in accordance with Factory Mutual "Loss Prevention Data Sheet 1- 49, Perimeter Flashing" and be designed to be capable of resisting a minimum force of 200 lbs/lineal foot in any direction.
- E. Metal Work: Provide metal flashings, counter flashings, parapet coping caps and thru-wall flashings as specified in Section 07620 or Section 07710. Install in accordance with the SMACNA "Architectural Sheet Metal Manual" or the NRCA Roofing Waterproofing manual.
- F. Termination Bar: Provide a metal termination bar or approved top edge securement at the terminus of all flashing sheets at walls and curbs. Fasten the bar a minimum of 8 inches (203 mm) o/c to achieve constant compression. Provide suitable, sealant at the top edge if required.
- G. Flashing Base Ply: Seal all curb, wall and parapet flashings with an application of mastic and mesh on a daily basis. Do not permit conditions to exist that will allow moisture to enter behind, around or under the roof or flashing membrane.
 - 1. Prepare all walls, penetrations, expansion joints, and other surfaces to be flashed with asphalt primer at the rate of 100 square feet per gallon. Allow primer to dry tack free.
 - 2. Adhere modified flashing base to the underlying base flashing ply with specified flashing ply adhesive. Nail off at a minimum of 8 inches (203 mm) o.c. from the finished roof at all vertical surfaces.
 - 3. Solidly adhere the entire sheet of flashing membrane to the substrate. Tops of all flashings that are not run up and over curb shall be secured through termination bar 6 inches (152 mm) and sealed at top
 - 4. Seal all vertical laps of flashing membrane with a three-course application of trowel-grade mastic and fiberglass mesh.
 - 5. Coordinate counter flashing, cap flashings, expansion joints, and similar work with modified bitumen roofing work.
 - 6. Coordinate roof accessories, miscellaneous sheet metal accessory items, including piping vents and other devices with the roofing system work. When using mineralized cap sheet all stripping plies type IV felt / Versiply 40 shall be installed prior to cap sheet installation.

3.5 INSTALLATION EDGE TREATMENT AND ROOF PENETRATION FLASHING

- A. Metal Edge:
 - 1. Inspect the nailers to assure proper attachment and configuration.
 - 2. Run one ply over the edge. Assure coverage of all wood nailers. Fasten plies with ring shank nails at 8 inches (203 mm) o.c.
 - 3. Install continuous cleat and fasten at 6 inches (152 mm) o.c.
 - 4. Install new metal edge hooked to continuous cleat and set in bed of roof cement. Fasten flange to wood nailers every 3 inches (76 mm) o.c. staggered.
 - 5. Prime metal edge at a rate of 100 square feet per gallon and allow to dry. Do not prime for Green-Lock System lightly sand metal to improve bond.
 - 6. Strip in flange with base flashing ply covering entire flange in bitumen with 6 inches (152 mm) on to the field of roof. Assure ply laps do not coincide with metal laps.
 - 7. Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9

inches (228 mm) on to the field of the roof. Seal outside edge with rubberized cement.

B. Coping Cap:

1. Minimum flashing height is 8 inches (203 mm) above finished roof height. Maximum flashing height is 24 inches (609 mm). Prime vertical wall at a rate of 100 square feet per gallon and allow to dry.
2. Set cant in bitumen. Run all field plies over cant a minimum of 2 inches (50 mm).
3. Attach tapered board to top of wall.
4. Install base flashing ply covering entire wall and wrapped over top of wall and down face with 6 inches (152 mm) on to field of roof and set in cold asphalt. Nail membrane at 8 inches (203 mm) o.c.
5. Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Apply a three-course application of mastic and mesh at all seams and allow to cure and aluminize.
6. Install continuous cleat and fasten at 6 inches (152 mm) o.c. to outside wall.
7. Install new metal coping cap hooked to continuous cleat.
8. Fasten inside cap 24 inches (609 mm) o.c. with approved fasteners and neoprene washers through slotted holes, which allow for expansion and contraction.

C. Surface Mounted Counterflashing:

1. Minimum flashing height is 8 inches (203 mm) above finished roof height. Maximum flashing height is 24 inches (609 mm). Prime vertical wall at a rate of 100 square feet per gallon and allow to dry.
2. Set cant in bitumen. Run all field plies over cant a minimum of 2 inches (50 mm).
3. Install base flashing ply covering wall set in bitumen with 6 inches (152 mm) on to field of the roof.
4. Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Apply a three-course application of mastic and mesh at all vertical seams and allow to cure and aluminize.
5. Apply butyl tape to wall behind flashing. Secure termination bar through flashing, butyl tape and into wall. Alternatively use caulk to replace the butyl tape.
6. Secure counterflashing set on butyl tape above flashing at 8 inches (203 mm) o.c. and caulk top of counterflashing.

D. Curb Detail/Air Handling Station:

1. Minimum curb height is 8 inches (203 mm) above finished roof height. Prime vertical at a rate of 100 square feet per gallon and allow to dry.
2. Set cant in bitumen. Run all field plies over cant a minimum of 2 inches (50 mm).
3. Install base flashing ply covering curb set in bitumen with 6 inches (152 mm) on to field of the roof.
4. Install a second ply of modified flashing ply in bitumen over the base flashing ply, 9 inches (228 mm) on to the field of the roof. Apply a three-course application of mastic and mesh at all vertical seams and allow to cure and aluminize.
5. Install pre-manufactured counterflashing with fasteners and neoprene washers or per manufacturer's recommendations.
6. Set equipment on neoprene pad and fasten as required by equipment manufacturer.

E. Roof Drain:

1. Plug drain to prevent debris from entering plumbing.
2. Taper insulation to drain minimum of 24 inches (609 mm) from center of drain.
3. Run roof system plies over drain. Cut out plies inside drain bowl.
4. Set lead/copper flashing (30 inch square minimum) in 1/4 inch bed of mastic. Run lead/copper into drain a minimum of 2 inches (50 mm). Prime lead/copper at a rate of 100 square feet per gallon and allow to dry.
5. Install base flashing ply (40 inch square minimum) in bitumen.
6. Install modified membrane (48 inch square minimum) in bitumen.

7. Install clamping ring and assure that all plies are under the clamping ring.
8. Remove drain plug and install strainer.

F. Liquid Flashing:

1. Mask target area on roof membrane with tape.
2. Clean all non-porous areas with isopropyl alcohol.
3. Apply 32 wet mil base coat of liquid flashing over masked area.
4. Embed polyester reinforcement fabric into the base coat of the liquid flashing.
5. Apply 48-64 wet mil top coat of the liquid flashing material over the fabric extending 2 inches (51 mm) past the scrim in all directions.
6. Apply minerals immediately or allow the liquid flashing material to cure 15-30 days and then install reflective coating.

3.6 CLEANING

- A. Clean-up and remove daily from the site all wrappings, empty containers, paper, loose particles and other debris resulting from these operations.
- B. Remove asphalt markings from finished surfaces.
- C. Repair or replace defaced or disfigured finishes caused by Work of this section.

3.7 PROTECTION

- A. Provide traffic ways, erect barriers, fences, guards, rails, enclosures, chutes and the like to protect personnel, roofs and structures, vehicles and utilities.
- B. Protect exposed surfaces of finished walls with tarps to prevent damage.
- C. Plywood for traffic ways required for material movement over existing roofs shall be not less than 5/8 inch (16 mm) thick.
- D. In addition to the plywood listed above, an underlayment of minimum 1/2 inch (13 mm) recover board is required on new roofing.
- E. Special permission shall be obtained from the Manufacturer before any traffic shall be permitted over new roofing.

3.8 FIELD QUALITY CONTROL

- A. Inspection: Provide manufacturer's field observations at start-up and at daily intervals until completion. Provide a final inspection upon completion of the Work.
 1. Warranty shall be issued upon manufacturer's acceptance of the installation.
 2. Field observations shall be performed by a Sales Representative employed full-time by the manufacturer and whose primary job description is to assist, inspect and approve membrane installations for the manufacturer.
 3. Provide observation reports from the Sales Representative indicating procedures followed, weather conditions and any discrepancies found during inspection.
 4. Provide a final report from the Sales Representative, certifying that the roofing system has been satisfactorily installed according to the project specifications, approved details and good general roofing practice.

3.9 SCHEDULES

- A. Base (Ply) Sheet:
 1. HPR Torch Base: 110 mil SBS (Styrene-Butadiene-Styrene) rubber modified roofing base sheet reinforced with a fiberglass scrim. Designed for torch applications with a burn-off backer that indicates when the material is hot enough to be installed.

- a. Tensile Strength, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 210 lbf/in XD 210 lbf/in
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 36.75 kN/m XD 36.75 kN/m
 - b. Tear Strength, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 300 lbf XD 300 lbf
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 1,334 N XD 1,334 N
 - c. Elongation at Maximum Tensile, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 6% XD 6%
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 6% XD 6%
 - d. Low Temperature Flexibility, ASTM D5147, Passes -30 deg. F (-34.4 deg. C)
- B. Thermoplastic/Modified Cap (Ply) Sheet:
- 1. StressPly IV Plus: 180 mil SBS (Styrene-Butadiene-Styrene) rubber modified roofing membrane reinforced with a fiberglass and polyester composite scrim. This membrane is designed for torch applications and has a burn-off backer that indicates when the material is hot enough to be installed.
 - a. Tensile Strength, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 310 lbf/in XD 310 lbf/in
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 54.25 kN/m XD 54.25 kN/m
 - b. Tear Strength, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 510 lbf XD 510 lbf
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 2269 N XD 2269 N
 - c. Elongation at Maximum Tensile, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 9% XD 8%
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 9% XD 8%
 - d. Low Temperature Flexibility, ASTM D 5147, Passes -40 deg. F (-40 deg. C)
- C. Flashing Base Ply:
- 1. HPR Torchbase: SBS modified, torch applied sheet material. ASTM D 6163, Type II.
 - a. Tensile Strength, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 210 lbf/in XD 210 lbf/in
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 210 lbf/in XD 210 lbf/in
 - b. Tear Strength, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 300 lbf XD 300 lbf
 - 2) 50 mm/min. @ 23 +/- 2 deg. C MD 1334 N XD 1334 N
 - c. Elongation at Maximum Tensile, ASTM D 5147
 - 1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 6 % XD 6 %
 - 2) 50 mm/min @ 23 +/- 2 deg. C MD 6 % XD 6 %
 - d. Low Temperature Flexibility, ASTM D 5147:
 - 1) Passes -30 deg. F (-34 deg. C). Meets or Exceeds ASTM D 4601 Type II Performance Criteria.
- D. Surfacing:
- 1. Flashing Cap (Ply) Sheet:
 - a. StressPly IV Plus (UV) Mineral: 195 mil SBS (Styrene-Butadiene- Styrene) mineral surfaced rubber modified roofing membrane with a fiberglass and polyester composite scrim. Designed for torch applications with a burn-off backer that indicates when the material is hot enough to be installed. Surfaced with a highly reflective Sunburst mineral.
 - 1) Tensile Strength, ASTM D 5147
 - a) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 310 lbf/in XD 310 lbf/in
 - b) 50 mm/min. @ 23 +/- 2 deg. C MD 54.25 kN/m XD 54.25 kN/m
 - 2) Tear Strength, ASTM D 5147
 - a) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 510 lbf XD 510 lbf
 - b) 50 mm/min. @ 23 +/- 2 deg. C MD 2269 N XD 2269 N
 - 3) Elongation at Maximum Tensile, ASTM D 5147

- a) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 9% XD 8%
- b) 50 mm/min. @ 23 +/- 2 deg. C MD 9% XD 8%
- 4) Low Temperature Flexibility, ASTM D 5147, Passes -40 deg. F (-40 deg. C)
- 5) Reflectivity, ASTM C 1549: 73%

END OF SECTION

SECTION 07561
MAINTENANCE SPECIFICATION
LAS VIRGENES WATER DISTRICT
WESTLAKE PUMP STATION

PART 1 – GENERAL

1.1 SCOPE OF WORK

- A. Locate all areas that may or are directly leading to water infiltration and repair with new self-adhering R-Mer seal underlayment and replace tile
- B. Locate and repair all broken tiles
- C. Locate and properly attach all loose tiles with stainless steel Storm-Lock Tile tie wire and stainless steel shank fasteners
- D. Provide all labor, equipment, and materials to maintain and protect the existing roof system.

1.2 REFERENCES

- A. A. ASTM C 78 - Standard Test Method for Flexural Strength of Concrete.
- B. ASTM C 92 - Standard Test Methods for Sieve Analysis and Water Content of Refractory Materials.
- C. ASTM C 109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars.
- D. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants.
- E. ASTM C 1250 - Standard Test Method for Nonvolatile Content of Cold Liquid-Applied Elastomeric Waterproofing Membranes.
- F. ASTM D 5 - Standard Test Method for Penetration of Bituminous Materials.
- G. ASTM D 36 - Standard Test Method for Softening Point of Bitumen.
- H. ASTM D 43 - Standard Specification for Coal Tar Primer Used in Roofing, Dampproofing, and Waterproofing.
- I. ASTM D 71 - Standard Test Method for Relative Density of Solid Pitch and Asphalt.
- J. ASTM D 75 - Standard Practice for Sampling Aggregates.
- K. ASTM D 92 - Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester.
- L. ASTM D 93 - Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester.
- M. ASTM D 113 - Standard Test Method for Ductility of Bituminous Materials.
- N. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.

- O. ASTM D 562 - Standard Test Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer.
- P. ASTM D 624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
- Q. ASTM D 816 - Standard Test Methods for Rubber Cements.
- R. ASTM D 1002 - Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading (Metal-to-Metal).
- S. ASTM D 1370 - Standard Test Method for Contact Compatibility Between Asphaltic Materials (Oliensis Test).
- T. ASTM D 1475 - Standard Test Method For Density of Liquid Coatings, Inks, and Related Products.
- U. ASTM D 1863 - Standard Specification for Mineral Aggregate Used on Built-Up Roofs.
- V. ASTM D 1876 - Standard Test Method for Peel Resistance of Adhesives (T-Peel Test).
- W. ASTM D 2042 - Standard Test Method for Solubility of Asphalt Materials in Trichloroethylene.
- X. ASTM D 2196 - Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield type) Viscometer.
- Y. ASTM D 2240 - Standard Test Method for Rubber Property-Durometer Hardness.
- Z. ASTM D 2369 - Standard Test Method for Volatile Content of Coatings.
- AA. ASTM D 2939 - Standard Test Methods for Emulsified Bitumens Used as Protective Coatings.
- BB. ASTM D 3111 - Standard Test Method for Flexibility Determination of Hot-Melt Adhesives by Mandrel Bend Test Method.
- CC. ASTM D 3960 - Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.
- DD. ASTM D 4209 - Standard Practice for Determining Volatile and Nonvolatile Content of Cellulosics, Emulsions, Resin Solutions, Shellac, and Varnishes.
- EE. ASTM D 4212 - Standard Test Method for Viscosity by Dip-Type Viscosity Cups.
- FF. ASTM D 4402 - Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer.
- GG. ASTM D 4479 - Standard Specification for Asphalt Roof Coatings - Asbestos-Free.
- HH. ASTM D 5040 - Standard Test Methods for Ash Content of Adhesives.
- II. ASTM D 5420 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact).
- JJ. ASTM E 1980 - Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces
- KK. ASTM G 21 - Standard Practice for Determining Resistance of Synthetic Polymeric

Materials to Fungi.

- LL. SRI - Solar Reflectance Index calculated according to ASTM E 1980.
- MM. South Coast AQMD Standards.
- NN. SMACNA Architectural Sheet Metal Manual.
- OO. ANSI/SPRI ES-1 - Testing and Certification Listing of Shop Fabricated Edge Metal
- PP. National Roofing Contractors Association (NRCA) - Roofing and Waterproofing Manual.

1.3 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum 12 years documented experience and have ISO 9001 certification.
- B. Manufacturer: Company must not have been involved in any judgments in excess of \$50,000,000.00 in past 10 years
- C. Installer: Company specializing in modified bituminous roofing installation with a minimum 5 years experience and certified by roofing system manufacturer as qualified to install manufacturer's roofing materials. Must provide copy of manufacturer's approval letter with bid
- D. Installer's Field Supervision: Maintain a full-time Supervisor/Foreman on job site during all phases of roofing work and at any time roofing work is in progress. Maintain proper supervision of workmen. Maintain a copy of the specifications in the possession of the Supervisor/Foremen and on the roof at all times.
- E. Immediately correct roof leakage during construction. If the Contractor does not respond within twenty four (24) hours, the Owner has the right to hire a qualified contractor and backcharge the original contractor.
- F. Insurance Certification: Assist Owner in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance on roofing and associated work.

1.4 PRE-INSTALLATION CONFERENCE

- A. Pre-Roofing Conference: Convene a pre-roofing conference approximately two (2) weeks before scheduled commencement of modified bituminous roofing system installation and associated work.
- B. Require attendance of installer of each component of associated work, installers of deck or substrate construction to receive roofing work, installers of rooftop units and other work in and around roofing which must precede or follow roofing work (including mechanical work if any), Architect, Owner, roofing system manufacturer's representative, and other representatives directly concerned with performance of the Work, including (where applicable) Owner's insurers, testing agencies and governing authorities.
- C. Objectives of conference to include:
 - 1. Review foreseeable methods and procedures related to roofing work.

2. Tour representative areas of roofing substrates (decks), inspect and discuss condition of substrate, roof drains, curbs, penetrations and other preparatory work performed by others.
3. Review structural loading limitations of deck and inspect deck for loss of flatness and for required attachment.
4. Review roofing system requirements (drawings, specifications and other contract documents).
5. Review required submittals both completed and yet to be completed.
6. Review and finalize construction schedule related to roofing work and verify availability of materials, installer's personnel, equipment and facilities needed to make progress and avoid delays.
7. Review required inspection, testing, certifying and material usage accounting procedures.
8. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions, including possibility of temporary roofing (if not mandatory requirement).
9. Record discussion of conference including decisions and agreements (or disagreements) reached and furnish copy of record to each party attending. If substantial disagreements exist at conclusion of conference, determine how disagreements will be resolved and set date for reconvening conference.
10. Review notification procedures for weather or non-working days.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver products to site with seals and labels intact, in manufacturer's original containers, dry and undamaged.
- B. Store and handle roofing sheets in a dry, well-ventilated, weather-tight place to ensure no possibility of significant moisture exposure. Store rolls of felt and other sheet materials on pallets or other raised surface. Stand all roll materials on end. Cover roll goods with a canvas tarpaulin or other breathable material (not polyethylene).
- C. Do not leave unused materials on the roof overnight or when roofing work is not in progress unless protected from weather and other moisture sources.
- D. It is the responsibility of the contractor to secure all material and equipment on the job site. If any material or equipment is stored on the roof, the contractor must make sure that the integrity of the deck is not compromised at any time. Damage to the deck caused by the contractor will be the sole responsibility of the contractor and will be repaired or replaced at his expense.

1.6 MANUFACTURER'S INSPECTIONS

- A. When the project is in progress, the roofing system manufacturer will provide the following:
 1. Keep the District informed as to the progress and quality of the work as observed.
 2. Provide job site inspections DAILY.
 3. Report to the District in writing any failure or refusal of the Contractor to correct unacceptable practices called to the Contractor's attention.
 4. Confirm after completion that manufacturer has observed no applications procedures in conflict with the specifications other than those that may have been previously reported and corrected.

1.7 PROJECT CONDITIONS

- A. Weather Condition Limitations: Do not apply roofing membrane during inclement weather or when a 40% chance of precipitation is expected.

- B. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed during same day.

1.8 WARRANTY

- A. Contractor to provide one (1) year labor and material warranty on the performance of all repairs

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. When a particular trade name or performance standard is specified it shall be indicative of a standard required.
- B. Provide products as manufactured by The Garland Company. Submit substitutions under provisions of Section [01600]. Or equal.
- C. Any item or materials submitted as a substitution to the manufacturer specified must comply in all respects as to the quality and performance of the brand name specified. The District/Owner shall be the sole judge as to whether or not an item submitted as a substitute is truly equal. Should the Contractor choose to submit a substitute product, he shall assume all monetary or other risk involved, should the District/Owner find the substitution unacceptable.

2.2 DESCRIPTION

- A. Maintenance roofing work including but not limited to:

- 1. Perimeter Edge Detail Repair
- 2. Tile replacement
- 3. Tile securement
- 4. Flashing Reinforcement
- 5. Flashing Repair
- 6. Void repair

2.4 SHEET MATERIALS

- A. Self-adhering rubberized asphalt membrane tile underlayment having internal reinforcement, and "split" back plastic release film

- 1. Underlayment: R-Mer Seal

Properties (Finished Membrane):

Tensile Strength (ASTM D1970)
MD 32 lbf/in CMD 35 lbf/in

Nail Sealability (ASTM D1970)
Pass

Vapor Permeance (ASTM E96)
<0.02

2.5 SURFACINGS

- A. Tile to match existing – Spanish clay tile

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrate surfaces to receive roofing system and associated work and conditions under which roofing will be installed. Do not proceed with roofing until unsatisfactory conditions have been corrected in a manner acceptable to Roof System Manufacturer and Installer.

3.2 GENERAL INSTALLATION REQUIREMENTS

- A. Cooperate with manufacturer, inspection and test agencies engaged or required to perform services in connection with maintenance system.
- B. Insurance/Code Compliance: Where required, install and test the roofing system to comply with governing regulation and specified insurance requirements.
- C. Protect other work from spillage of roofing materials and prevent materials from entering or clogging drains and conductors. Replace or restore other work damaged by installations of the roofing system.
- B. Apply roofing materials as specified herein unless recommended otherwise by manufacturer's instructions. Keep roofing materials dry before and during application. Do not permit phased construction.

3.3 MAINTENANCE REPAIRS

- A. Underlayment repair

1. Remove tile over leaking area and properly store for reuse
2. Repair all compromised areas of wood deck
3. Properly prepare surface by removing all dust, dirt and debris
4. Remove compromised underlayment
5. Install one ply R-Mer Seal in compromised area

- C. Tile Repair

1. Remove all broken tiles
2. Replace with tiles to match existing
3. Attach tiles to match existing attachment method wire-tied with Storm-Lock Tile Ties

3.6 FINAL INSPECTION

- A. At completion of roofing installation and associated work, meet with Installer, installer of associated work, Owner, roofing system manufacturer's representative, and other

representatives directly concerned with performance of roofing system.

- B. Walk roof surface areas of the building, inspect perimeter building edges as well as flashing of roof penetrations, walls, curbs and other equipment. List all items requiring correction or completion and furnish copy of list to each party attending.
- C. The Roofing System Manufacturer reserves the right to request a thermographic scan of the roof during final inspection to determine if any damp or wet materials have been installed. The thermographic scan shall be provided by the Roofing Contractor at a negotiated price.
- D. If core cuts verify the presence of damp or wet materials, the Roofing Contractor shall be required to replace the damaged areas at his own expense.
- E. Repair or replace (as required) deteriorated or defective work found at time above inspection to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- F. The Contractor is to notify the Owner upon completion of corrections.
- G. Following the final inspection, acceptance will be made in writing by the material manufacturer.

END OF SECTION

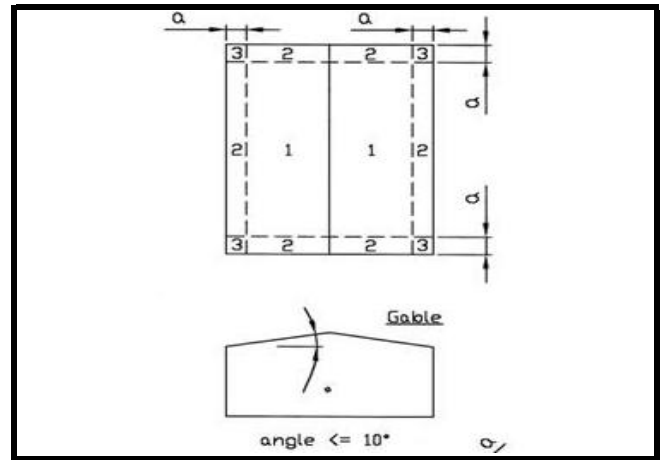


The Garland Company, Inc.
Low Slope Roofing Wind Uplift Calculations
3800 East 91st Street
Cleveland, Ohio 44105-2197
Phone: (800) 321-9336 Fax (216) 883-2046

Project **Westlake Pump Station**
 Roof **Low Slope Roof**
 Sales Rep. **Jason Moronolte** Location **Westlake, CA**

Zone 1 psf **20.0** Zone 2 psf **33.6** Zone 3 psf **50.5**
 (mid roof) (eaves, ridge, hip) (corners)

Edge Zone Width "a" **3** ft. **0** in.
 Fastener Safety Factor **N/A**
 Importance **IV**
 Importance Factor **1**
 Wind Speed (mph) **120**
 Ultimate Pullout Value **N/A**
 Exposure Category **C**
 Design Roof Height **20.00**
 Minimum Building Width **23.00**
 Roof Pitch (X, Y) **0.5** : **12**



System Type:	Modified Bitumen	System Type:	Modified Bitumen Torch Applied
Surfacing:	Coated Finish	Attachment Method:	Insulation Adhesive
Zone 1 (mid roof)	Beads spaced 12" o.c. per 4' x 4' board	Zone 2 (eaves, ridge, hip)	Beads spaced 12" o.c. per 4' x 4' board
		Zone 3 (corners)	Beads spaced 12" o.c. per 4' x 4' board

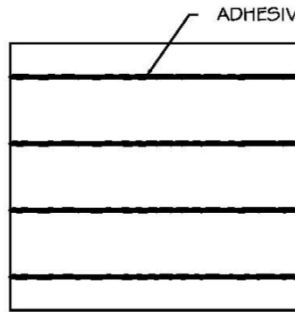
NOTES: Insulation adhesive was assumed to be Insul-Lock HR applied in 1/2" wide continuous ribbons spaced 12" o.c. per the attached diagram.

EDGE SECUREMENT: Edge metal system must be ANSI/SPRI ES-1 compliant, as required by section 1504.5 of International Building Code. Edge metal system may be an ANSI/SPRI ES-1 compliant premanufactured system, or formed by a contractor certified to fabricate an ANSI/SPRI ES-1 compliant system.

*Unless specifically stated otherwise, these calculations are based on ASCE 7-10 (American Society for Civil Engineers); if a specific building code is required, please specify.
 *It is recommended to include the "Negative Uplift Pressures" in the specifications as well as the Safety Factor, Importance Factor, Building Category, Wind Speed, Ultimate Pullout Value, and Exposure.
 *The Wind Speed is determined based upon geographical location.
 *The Exposure and Importance Factors are needed to determine the uplift pressures.

If you have any questions, please call 800-321-9336 or respond to engineering@garlandind.com

TYPICAL ZONE 1, 2 AND 3 INSULATION BOARD ADHESIVE PATTERN: 12" OC BEADS PER BOARD



4 ADHESIVE RIBBONS
EQUALLY SPACED AT
12" (30.5cm) O.C. (TYP.)



THE GARLAND COMPANY, INC.
GARLAND CANADA, INC.
THE GARLAND COMPANY UK, LTD

DETAIL:

4 X 4 BOARD PATTERN

SECTION:

INSULATION BOARD ADHESIVE PATTERN

REV: 3 28/07

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
Phone: (800) 321-9336 Fax (216) 883-2046



PROJECT	Westlake Pump Station
ROOF SECTION	Low Slope Roof
DATE	2/6/2018
BASIC VELOCITY PRESSURE	28.26 psf
DESIGN CODE	ASCE 7-10

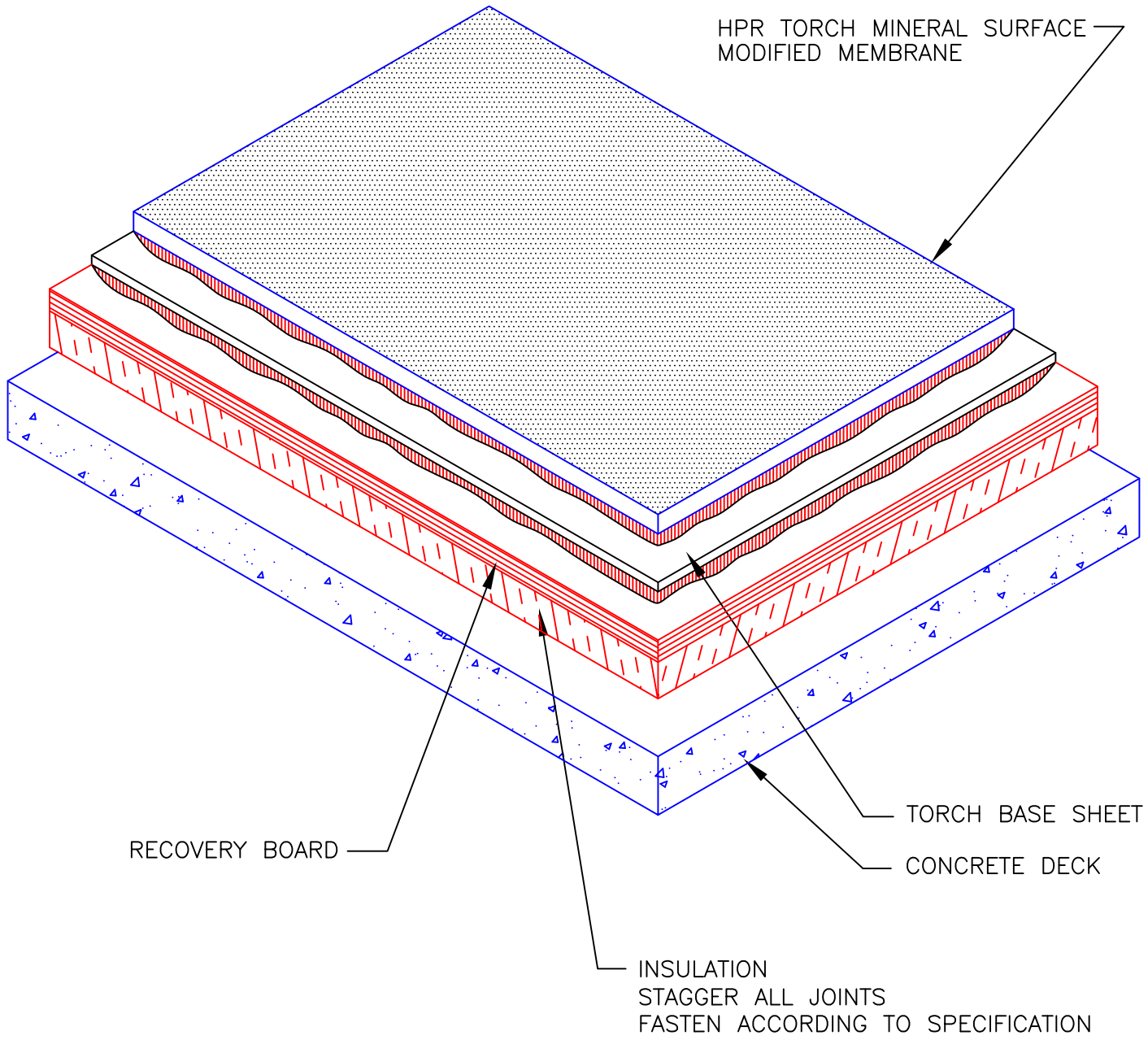
System & Attachment Data

Building & Site Data

SYSTEM TYPE	Modified Bitumen
SYSTEM SCOPE	Modified Bitumen Torch Applied
SURFACING	Coated Finish
ATTACHMENT METHOD	Insulation Adhesive
SUBSTRATE MATERIAL	Concrete
SUBSTRATE THICKNESS	6 in
FASTENER TYPE	N/A
FASTENER SAFETY FACTOR	N/A
ULTIMATE FASTENER PULLOUT	N/A lbs/screw
ALLOWABLE FASTENER PULLOUT	N/A lbs/clip

BASIC WIND SPEED	120 mph
EXPOSURE CATEGORY	C
TOPOGRAPHY FACTOR	1.00
BUILDING TYPE	Enclosed
ROOF PITCH (X, Y)	0.5 12
RUN TO RIDGE	12
EAVE HEIGHT	20
DESIGN ROOF HEIGHT	20.00 ft
IMPORTANCE CLASS / FACTOR	IV 1
MIN. BLDG WIDTH	23 ft
WIND-BORNE DEBRIS REGION	Yes
PARAPET	No
ROOF ANGLE	2.39 deg
PROTECTED OPENINGS	Yes
ROOF TYPE	Gable

	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5		
ROOF PRESSURE (psf)	20.0	33.6	50.5	19.8	24.4		
OVERHANG PRESSURE (psf)	28.83	28.83	47.48				
EDGE ZONE WIDTH "a" =	3.00 ft						



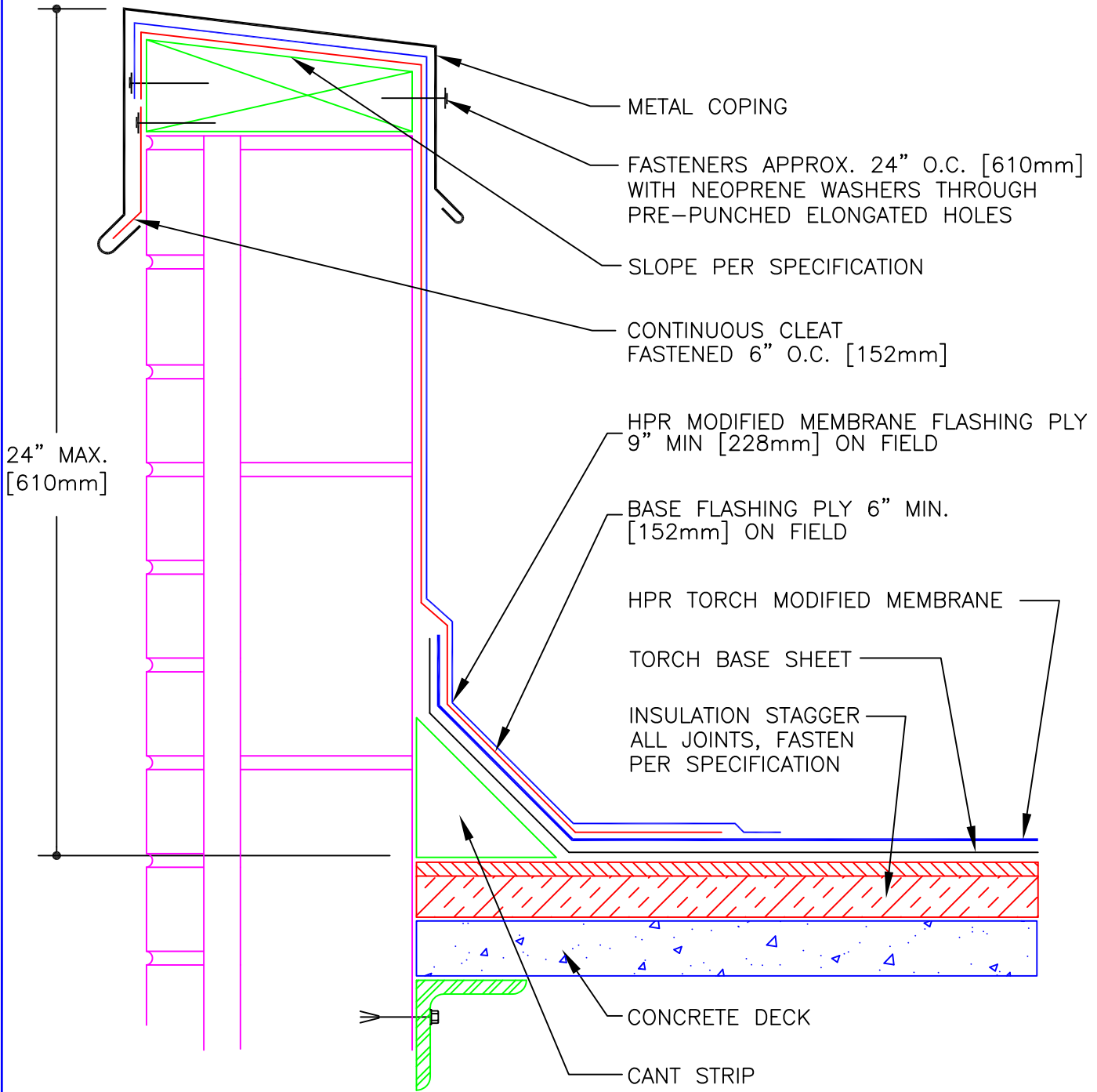
THE GARLAND COMPANY, INC.
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DETAIL:

MINERAL FINISH

TORCH APPLIED

155

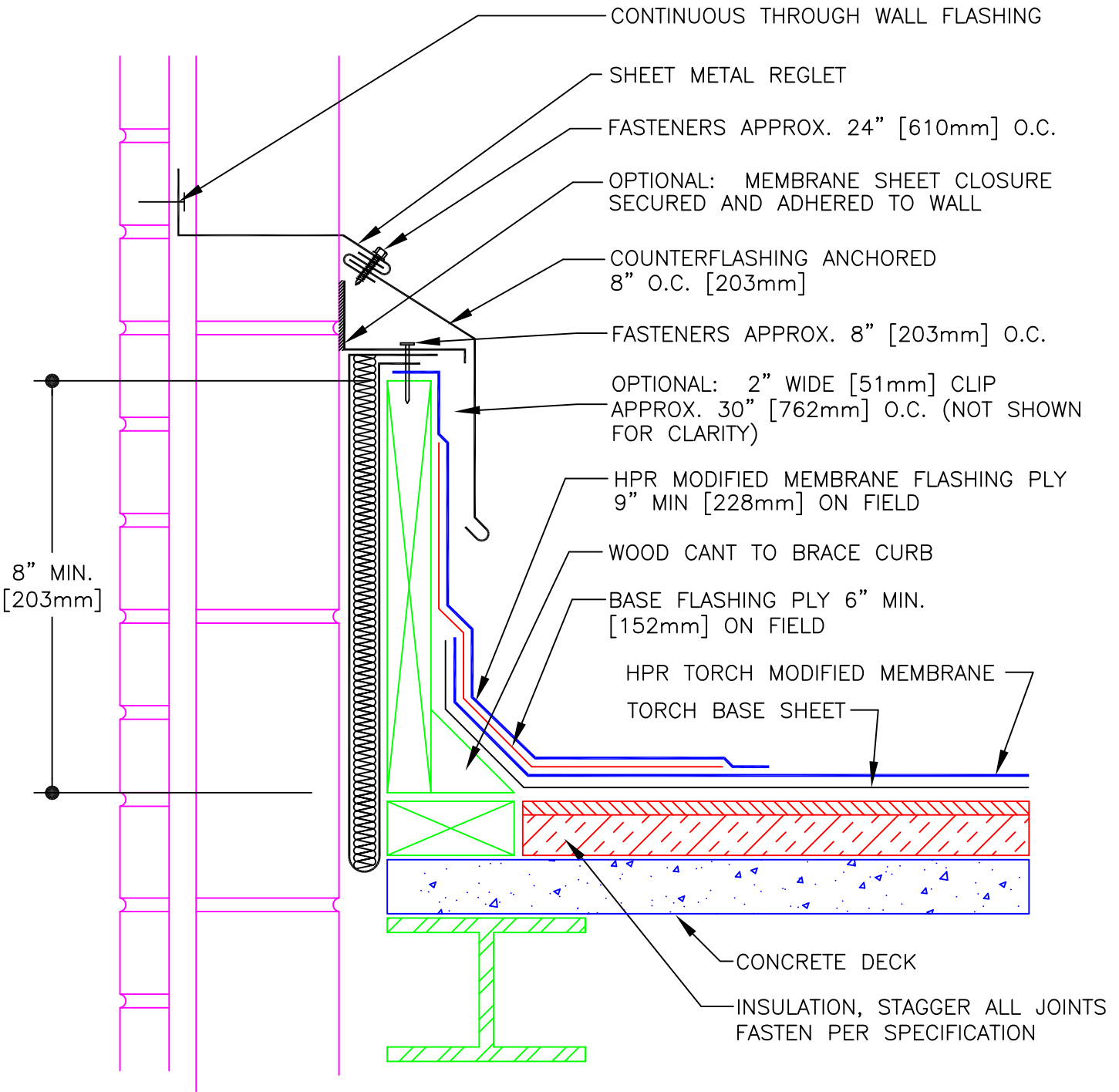


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DETAIL:

C O P I N G C A P

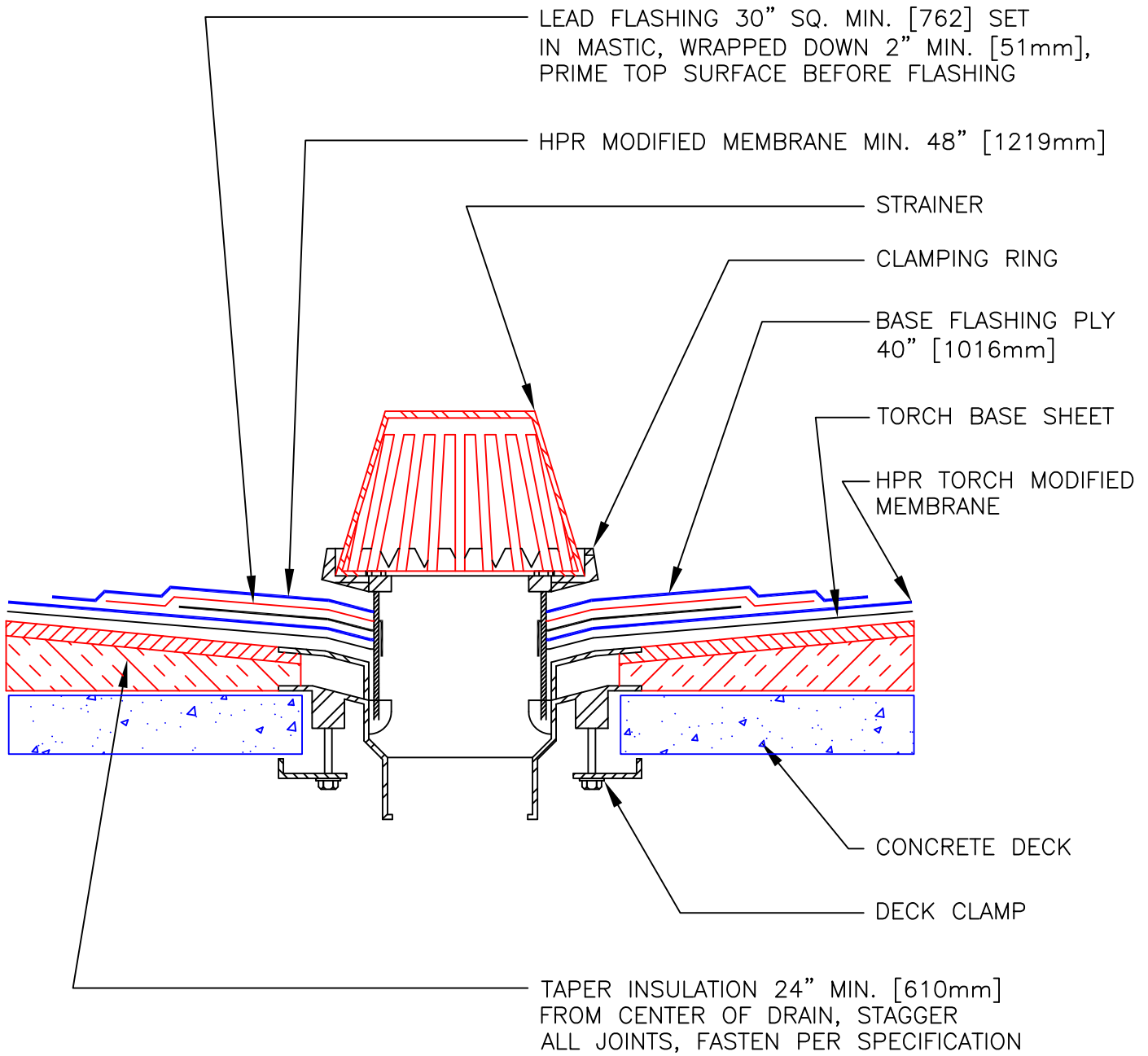
TORCH APPLIED



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DETAIL:
 BASE FLASHING FOR NON-WALL SUPPORTED DECK

TORCH APPLIED



ALL PLIES SET IN MODIFIED COLD ADHESIVE SEE SPECIFICATION FOR SURFACING

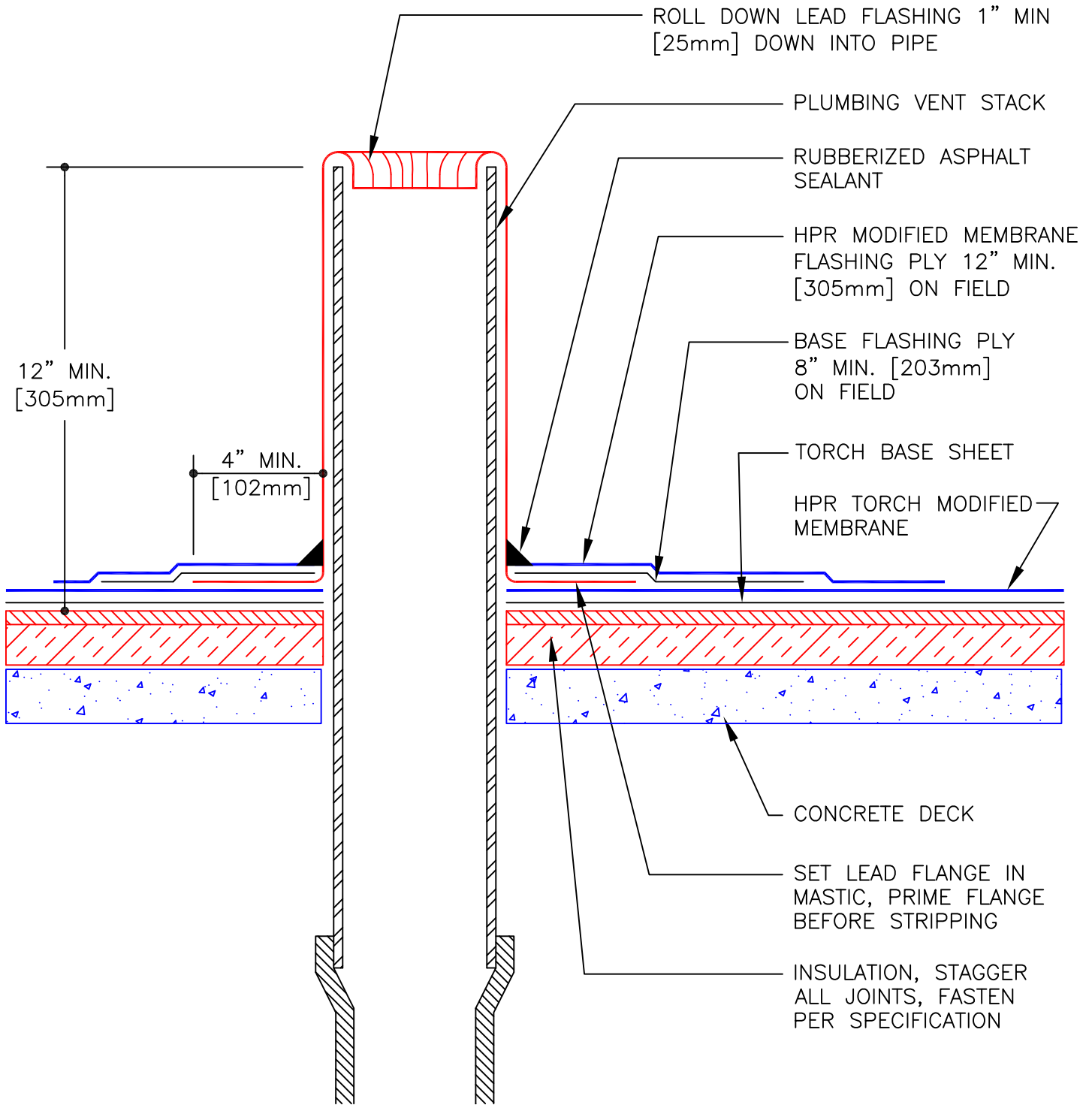


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DETAIL:

ROOF DRAIN

TORCH APPLIED



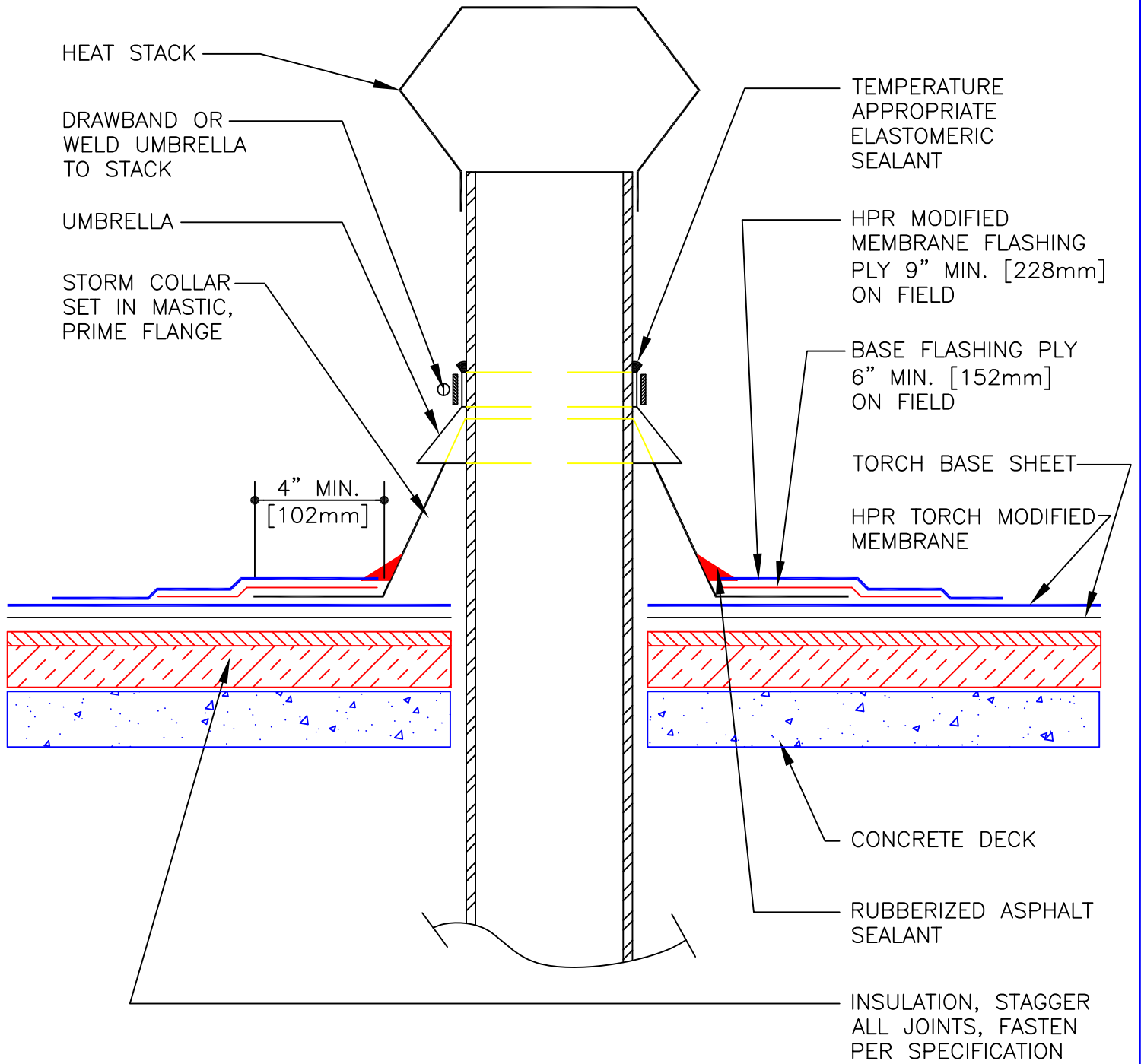
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 THE GARLAND COMPANY UK, LTD

DETAIL:

PLUMBING STACK

TORCH APPLIED

159



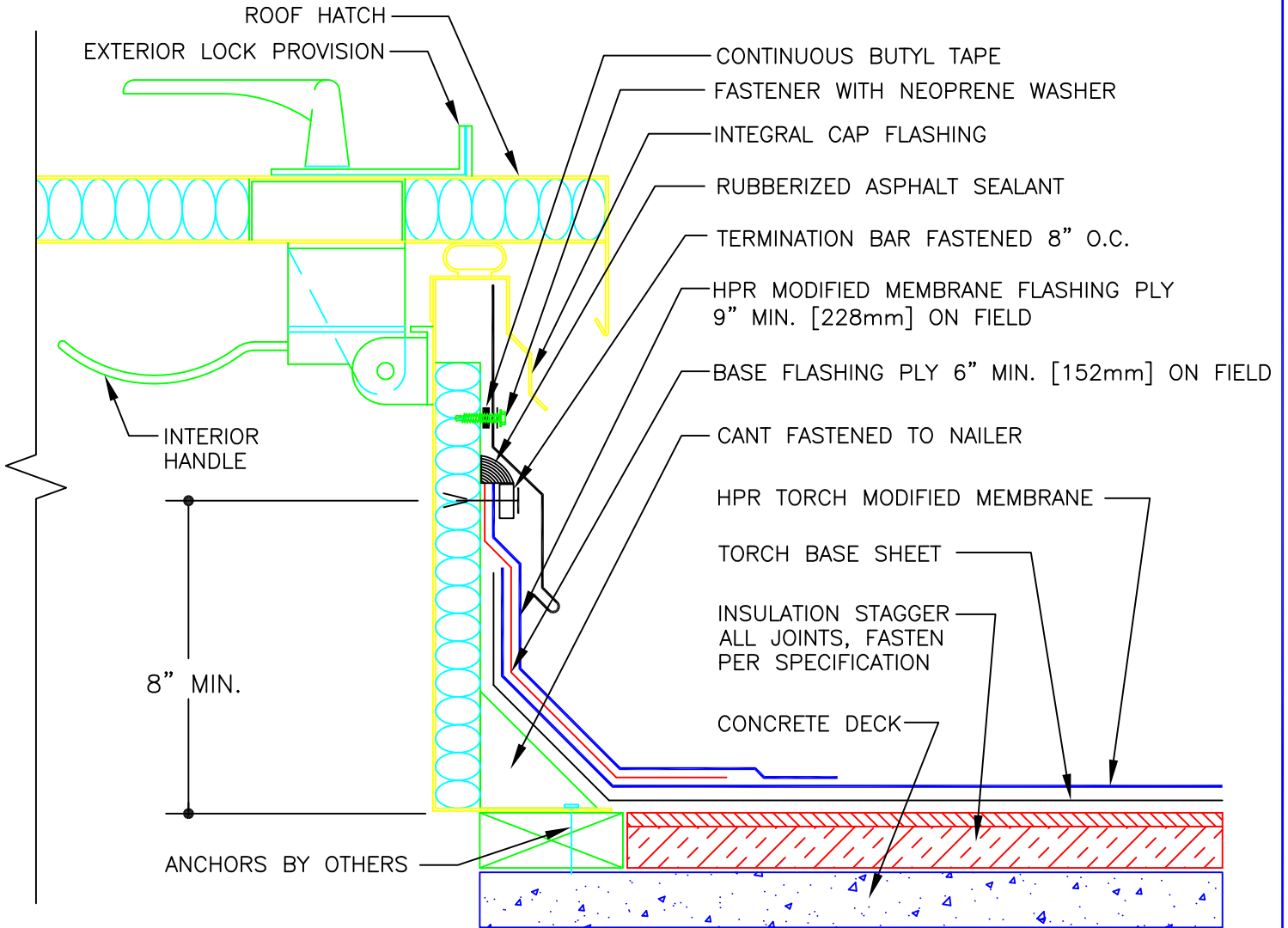
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DETAIL:

HEAT STACK

TORCH APPLIED

160

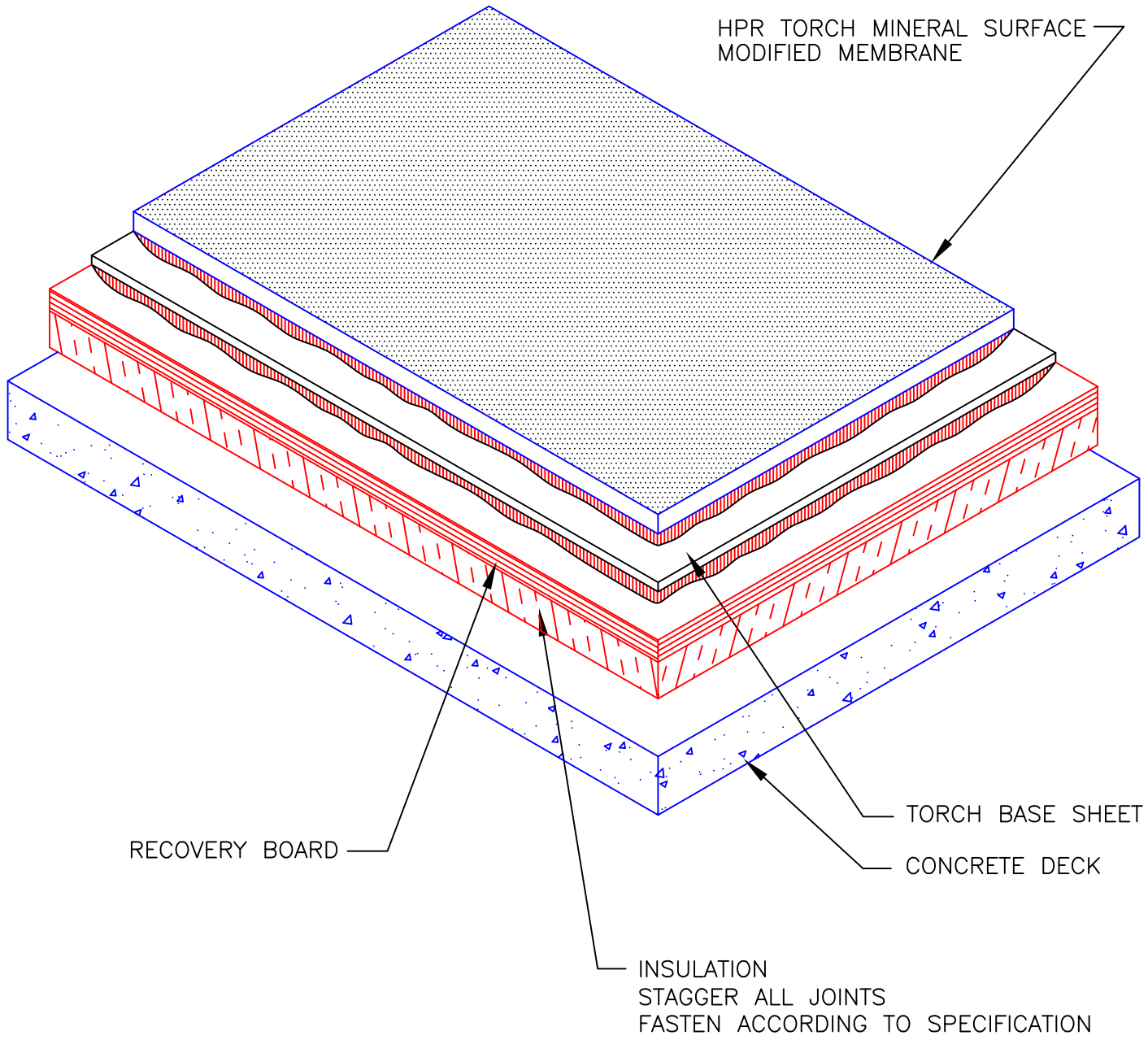


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DETAIL:

ROOF HATCH

TORCH APPLIED



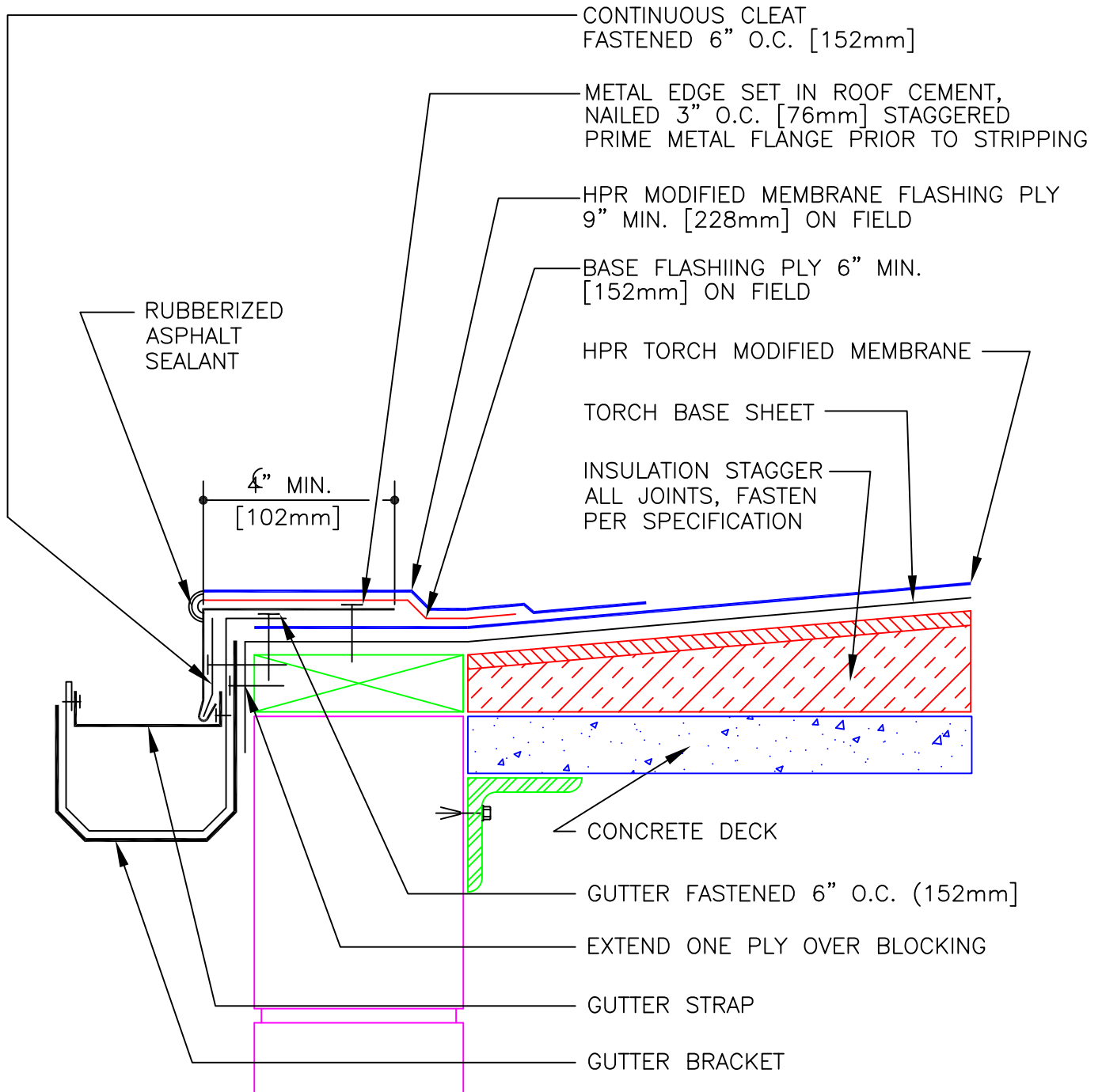
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DETAIL:

MINERAL FINISH

TORCH APPLIED

162

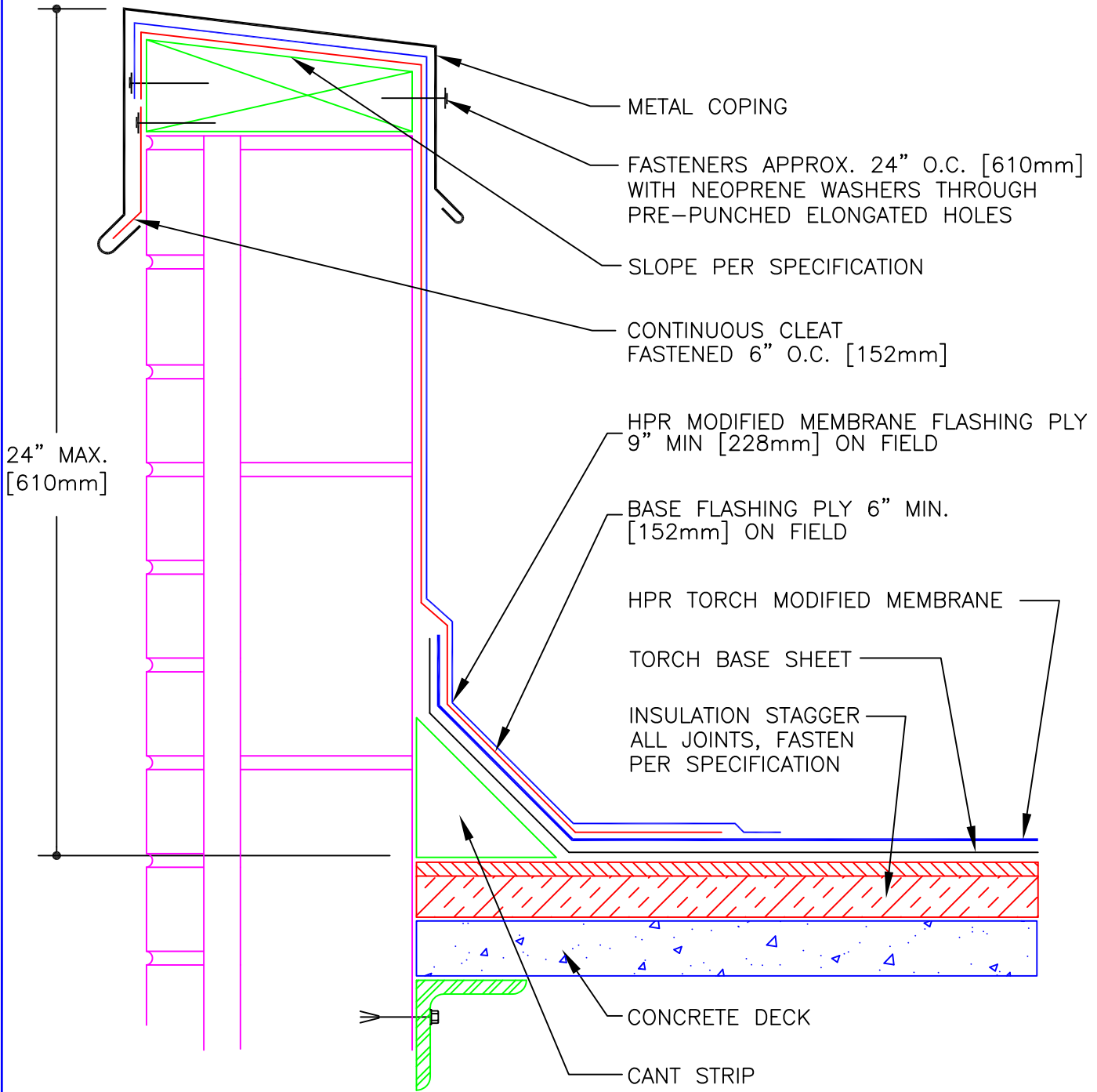


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DETAIL:

ROOF EDGE WITH GUTTER

TORCH APPLIED

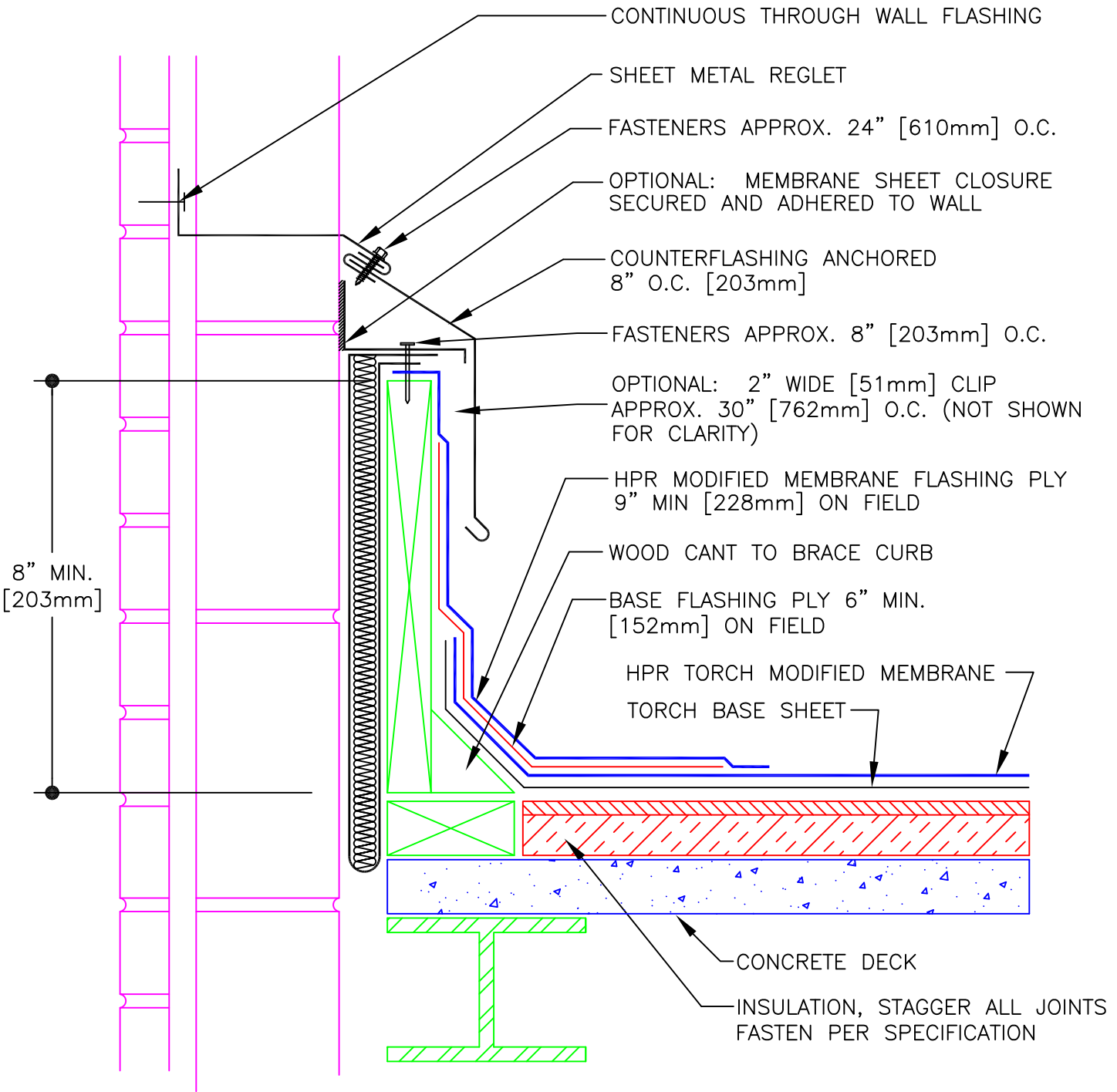


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DETAIL:

C O P I N G C A P

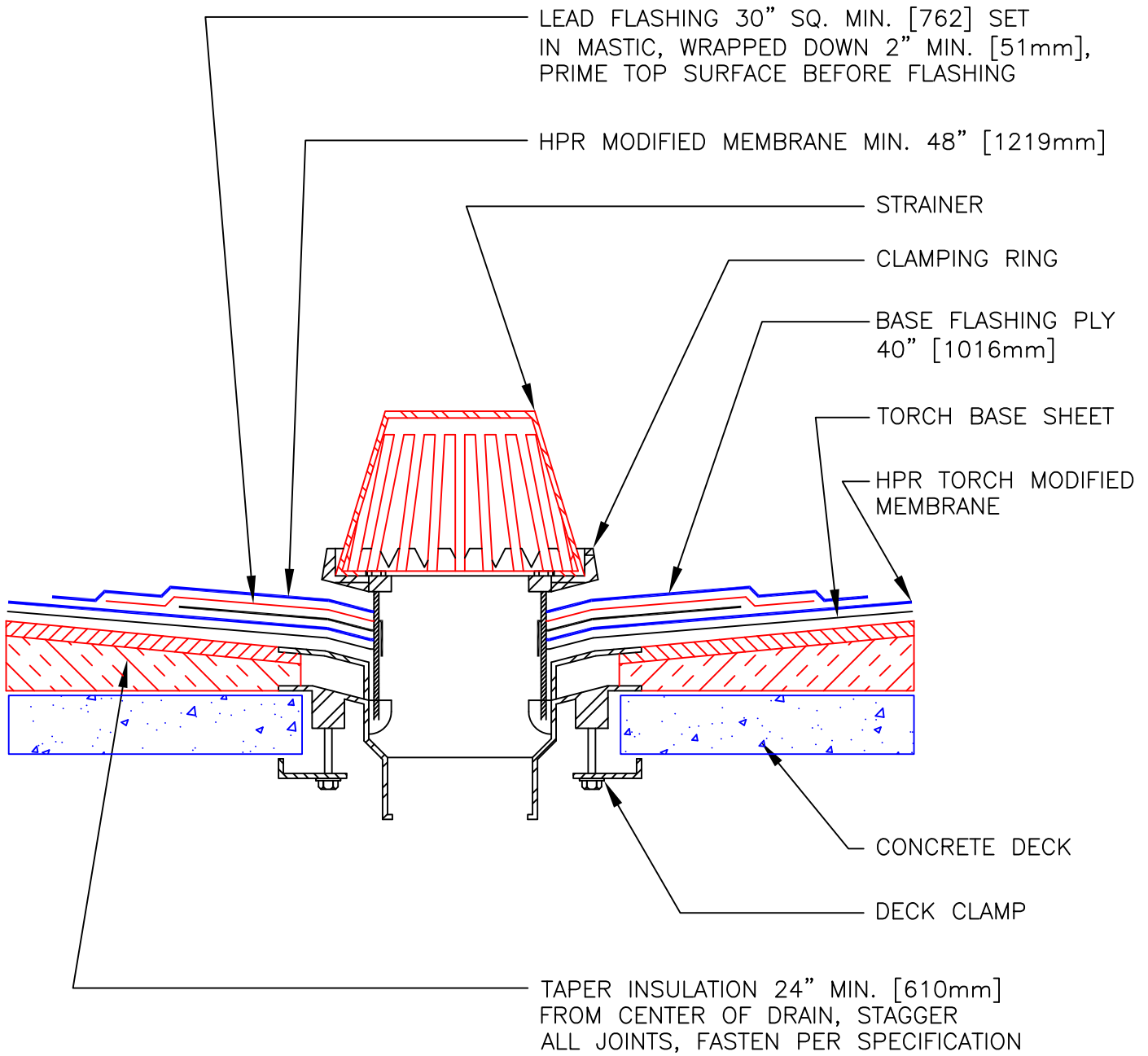
TORCH APPLIED



THE GARLAND COMPANY, INC.
 GARLAND CANADA, INC.
 THE GARLAND COMPANY UK, LTD

DETAIL:
 BASE FLASHING FOR NON-WALL SUPPORTED DECK

TORCH APPLIED



ALL PLIES SET IN MODIFIED COLD ADHESIVE SEE SPECIFICATION FOR SURFACING

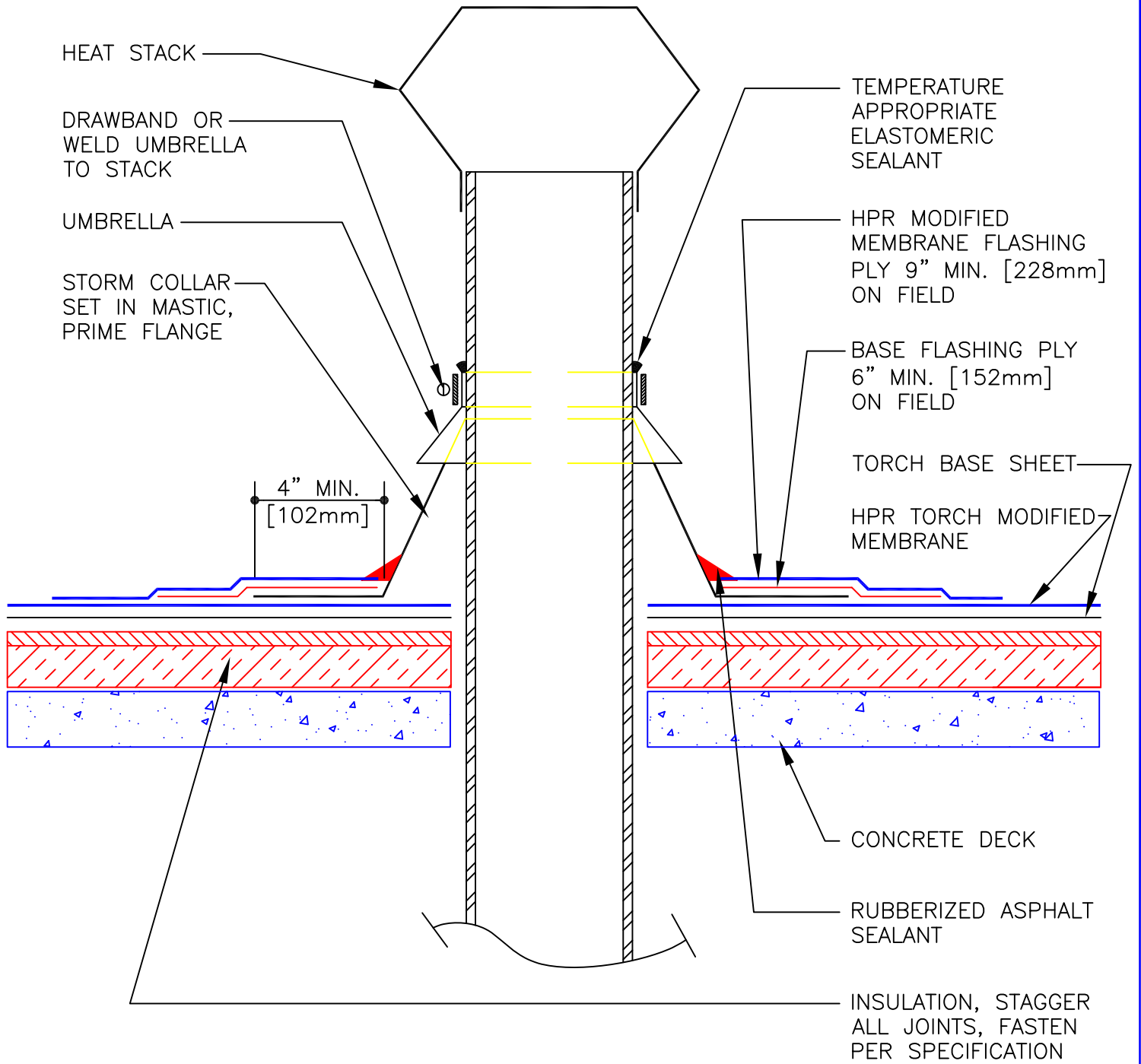


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DETAIL:

ROOF DRAIN

TORCH APPLIED

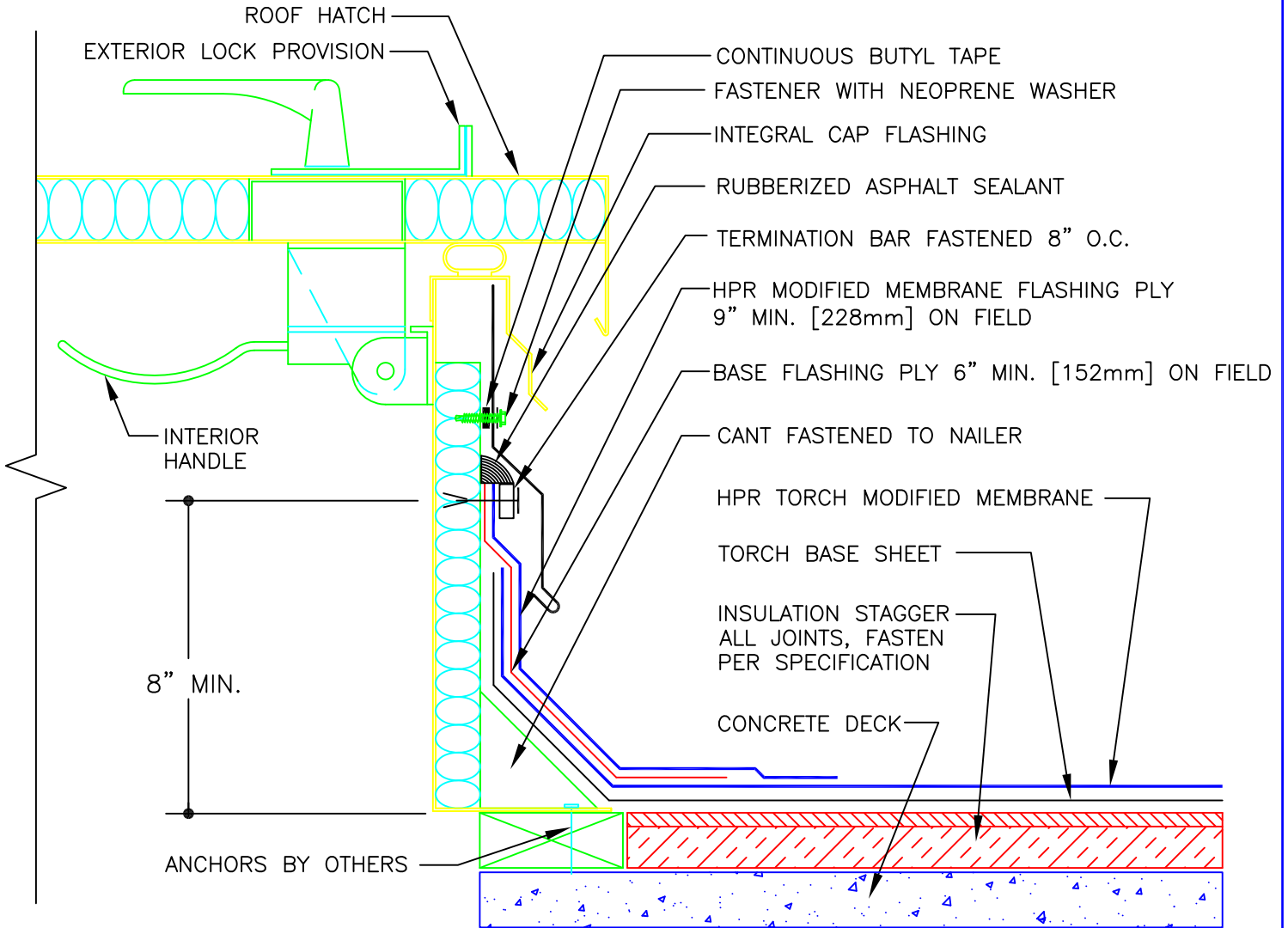


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DETAIL:

HEAT STACK

TORCH APPLIED



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DETAIL:

ROOF HATCH

TORCH APPLIED

StressPly® IV Plus Membranes

StressPly IV Plus • StressPly IV Plus Mineral • StressPly IV Plus UV Mineral



OVERVIEW & FEATURES

StressPly IV Plus membranes are a high strength, polyester/fiberglass reinforced, rubber modified roof membrane designed to be used in torching applications. The 180-195 mil membranes not only offer high strength, but also a high percentage of quality blended Styrene-Butadiene-Styrene (SBS) rubber compound. StressPly IV Plus membranes incorporate a burn-off backer to indicate when proper heat is obtained during application.

StressPly IV Plus membranes can be used in conjunction with Garland's HPR® products as well as with conventional glass base sheets or fiberglass felt underlayment. In addition, StressPly IV Plus membranes can be used as the top ply in a two-ply flashing system. It can also be used to repair splits, cracks or other deteriorated areas of existing modified roof systems.

Superior Strength & Weatherability - The StressPly IV Plus membranes are reinforced with a high strength, polyester/fiberglass reinforced scrim. The superior strength provided by the polyester/fiberglass scrim in StressPly IV Plus membranes provide tensile strength in excess of 300 pounds per inch in the machine and cross machine direction. This translates into long-term resistance to splits and tears in the completed StressPly IV Plus roof systems. The high quality SBS rubber polymer in StressPly IV Plus offers unmatched low temperature flexibility, weathering and elastomeric properties.

Unmatched Reflectivity - The StressPly IV Plus UV Mineral membrane incorporates the unique Sunburst™ mineral, which provides long-term protection and added energy savings. The superior reflectivity of this mineral protects the StressPly IV Plus UV Mineral membrane from UV damage and decreases under roof temperatures. Sunburst mineral membranes exceed the minimum requirement for LEED SS 7.2 Heat Island Effect (Roof) with an SRI of 89 as tested by the Cool Roof Rating Council (CRRC).

Factory Formulated Reduces Labor Expense - StressPly IV Plus Mineral and StressPly IV Plus UV Mineral are coated at the factory with reflective mineral granules. Consequently, there's no need to flood coat and gravel or aluminize the membrane's surface. Roof projects can be completed on a more timely basis. End result: substantial labor expense savings.

Security in Multi-Ply Applications - StressPly IV Plus membranes are the top component of a multi-ply system. It combines the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems. This unique combination minimizes dependence on perfect workmanship, contact adhesive seaming, etc.

APPLICATION

StressPly IV Plus membranes can be applied in a two-ply torch-applied modified system. Garland's HPR Torch Base Sheet is applied to the approved substrate and StressPly IV Plus membranes are solidly torch adhered to the torch base sheet.

StressPly IV Plus membranes can also be used as the torchable top layer of a modified roof system. Two plies of ASTM D 2178, Type IV or VI fiberglass felt are solidly bonded to the approved substrate. StressPly IV Plus membranes are then solidly torch adhered to these base layers.

StressPly® IV Plus Membranes

Technical Data	StressPly IV Plus	StressPly IV Plus Mineral	StressPly IV Plus UV Mineral
Tensile Strength	*MD 310 lbf./in. (54.25 kN/m) *XD 310 lbf./in. (54.25 kN/m) **MD 430 lbf./in. (75.25 kN/m) **XD 335 lbf./in. (58.63 kN/m)	*MD 310 lbf./in. (54.25 kN/m) *XD 310 lbf./in. (54.25 kN/m) **MD 430 lbf./in. (75.25 kN/m) **XD 335 lbf./in. (58.63 kN/m)	*MD 310 lbf./in. (54.25 kN/m) *XD 310 lbf./in. (54.25 kN/m) **MD 430 lbf./in. (75.25 kN/m) **XD 335 lbf./in. (58.63 kN/m)
*Tear Strength	MD 510 lbf. (75.25 N) XD 510 lbf. (2269 N)	MD 510 lbf. (75.25 N) XD 510 lbf. (2269 N)	MD 510 lbf. (75.25 N) XD 510 lbf. (2269 N)
*Elongation	*MD 9.0% *XD 8.0% **MD 6.0% **XD 6.0%	*MD 9.0% *XD 8.0% **MD 6.0% **XD 6.0%	*MD 9.0% *XD 8.0% **MD 6.0% **XD 6.0%
*Low Temperature Flex	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)

Finished membrane meets and/or exceeds ASTM D 6162, TYPE III.

Test Method ASTM D 5147 is tested at:

* 2 in./min @ 73.4 ± 3.6°F ** 0.08 in./min @ 0 ± 3.6°F
(50 mm/min @ 23 ± 2°C) (2.0 mm/min @ -18 ± -3°C)

Roll Dimensions	StressPly IV Plus	StressPly IV Plus Mineral	StressPly IV Plus UV Mineral
Width	3 ft. 3 in. (1m)	3 ft. 3 in. (1m)	3 ft. 3 in. (1m)
Length	26 ft. 2 in. (7.98 m)	26 ft. 2 in. (7.98 m)	26 ft. 2 in. (7.98 m)
Weight	110 lbs. (49.9 kg)	125 lbs. (56.7 kg)	125 lbs. (56.7 kg)
Nominal Thickness	180 mils (4,572 microns)	195 mils (4,953 microns)	195 mils (4,953 microns)
Net Coverage	75 sq. ft. (6.96 m ²)	75 sq. ft. (6.96 m ²)	75 sq. ft. (6.96 m ²)
Packaging	20 rolls/pallet	20 rolls/pallet	20 rolls/pallet

Eco-Facts	StressPly IV Plus	StressPly IV Plus Mineral	StressPly IV Plus UV Mineral
Recycled Content			
Pre-Consumer	15%	–	–
Post-Consumer	0.5%	–	–
Reflectance	–	0.45	***0.72
Emittance	–	0.87	***0.90
SRI	–	51	***89

***Sunburst Mineral (0700-0029a) CRRG results.

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.

Installation of this product with hot oxidized asphalt may result in exposure to hazardous chemicals. Special care and attention for proper product installation must be followed in all cases. For specific details refer to the NIOSH safe handling practices in publication No. 2003-107, as well as OSHA standard 1910.134 for further exposure precautions.



0700-0029
Sunburst Mineral on
StressPly IV UV Mineral



StressPly IV Plus UV Mineral product is protected by U.S. Patent # 6,933,007

For more information, visit us at: www.garlandco.com

The Garland Company, Inc.
3800 East 91st Street
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FAX: 216-641-0633
Phone: 216-641-7500
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Garland Canada Inc.
209 Carrier Drive
Toronto, Ontario
Canada, M9W 5Y8
FAX: 416-747-1980
Phone: 416-747-7995
Toll Free: 800-387-5991
(Only in Canada)

The Garland Company UK LTD
Second Way Centre, Second Way
Avonmouth, Bristol UK BS11 8DF
Phone: 011 44 1174 401050 (Outside UK)
Toll Free: 0800 328 5560 (Only in UK)

Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

StressPly and HPR are trademarks of The Garland Company, Inc., Garland Canada Inc. and The Garland Company UK, LTD. Sunburst is a trademark of The Garland Company, Inc. The CRRG mark is a registered trademark of the Cool Roof Rating Council.

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SP IV P/IV P Min/IV P UV Min 0917

HPR[®] Torch Base Sheet



OVERVIEW & FEATURES

HPR Torch Base Sheet is used as the underlayment ply for any of Garland's torch-applied membranes. It is fully compatible with both APP or SBS modified membranes. HPR Torch Base Sheet is a Styrene-Butadiene-Styrene (SBS) membrane specially formulated to accept the high heat from a torch. It has a burnable polypropylene backer that melts when the proper torching temperature has been reached. The HPR Torch Base Sheet eliminates the use of a kettle and also allows the torch applied system to be installed with a one ply underlayment.

DO NOT USE the HPR Torch Base Sheet with hot asphalt or cold adhesives.

High Tech Base Sheet - The HPR Torch Base Sheet has a high percentage of SBS rubber that when fused together with the torch-applied membrane gives the system superior puncture and abrasion resistance. It also has high tensile and elongation characteristics.

Eliminates the Use of the 2-Ply Underlayment - Because the HPR Torch Base Sheet is 110 mils (2,794 microns) thick (as thick as 2 plies of Type IV glass in hot asphalt), one ply will be sufficient as the underlayment for torch applied membrane.

Superior Strength - The HPR Torch Base membrane is reinforced with a dual fiberglass scrim. The superior strength provided by this reinforcement resists the movement created by today's modern buildings. In addition, HPR Torch Base Sheet provides tensile strength in excess of 200 pounds per inch in the machine direction. This translates to long-term resistance to splits and tears in the completed HPR torch applied roof system.

Advanced Rubber Technology - The modifier utilized in HPR Torch Base Sheet is SBS. When the SBS rubber is properly dispersed throughout the high penetration asphalt, the rubber provides increased thermal shock resistance, UV protection, heat resistance, elongation, and low temperature flexibility. To ensure proper dispersion, a special high shear mixer is used in manufacturing.

APPLICATION

The HPR Torch Base Sheet must be used for heat fusing or mechanical fastening applications only. Heat the HPR Torch Base Sheet until the burnable backer is melted. As this occurs, the SBS coating becomes tacky and is ready to roll in place.

HPR® Torch Base Sheet

Technical Data	HPR Torch Base Sheet
Tensile Strength	MD 210 lbf./in. (36.75 kN/m) XD 210 lbf./in. (36.75 kN/m)
Tear Strength	MD 300 lbf. (1334 N) XD 300 lbf. (1334 N)
Elongation	MD 6.0% XD 6.0%
Low Temperature Flex	-30°F (-34°C)

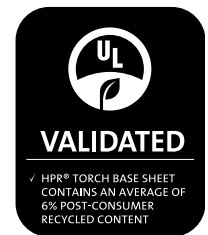
Finished membrane meets and/or exceeds ASTM D 6163, TYPE III
Test Method ASTM D 5147 is tested at:
2 in./min. @ 73.4 ± 3.6°F
(50 MM/MIN. @ 23 ± 2°C)

Roll Dimensions	HPR Torch Base Sheet
Width	3 ft. 3 in. (1m)
Length	34 ft. 8 in. (10.60 m)
Weight	76 lbs. (34.47 kg)
Nominal Thickness	110 mils (2,794 microns)
Net Coverage	100 sq. ft. (9.29 m ²)
Packaging	25 rolls/pallet

Eco-Facts	HPR Torch Base Sheet
Recycled Content	
Pre-Consumer	–
Post-Consumer	6%

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.

Installation of this product with hot oxidized asphalt may result in exposure to hazardous chemicals. Special care and attention for proper product installation must be followed in all cases. For specific details refer to the NIOSH safe handling practices in publication No. 2003-107, as well as OSHA standard 1910.134 for further exposure precautions.



For more information, visit us at: www.garlandco.com

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(Only in Canada)

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Second Way Centre, Second Way
Avonmouth, Bristol UK BS11 8DF
Phone: 011 44 1174 401050 (Outside UK)
Toll Free: 0800 328 5560 (Only in UK)

Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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HPR TB 0917



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

Subject : Tank Rehabilitation Priority Summary and Request for Proposals for Design of Saddle Peak and Cordillera Tank Rehabilitation Project

The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for the coating evaluation and repair of recycled tanks in the JPA Budget. This recommendation is before the LVMWD Board of Directors for action, as Administering Agent of the JPA, as authorized in the JPA Agreement.

SUMMARY:

Staff prepared a summary of current tank coating information in an effort to prioritize and plan for the required maintenance and rehabilitation needed to manage assets and maximize the life of the District's tanks and infrastructure. The tank prioritization summary is part of a larger effort by the District to provide comprehensive asset management in support of the Infrastructure Investment Plan. The District currently has 26 potable water tanks and three recycled water tanks. Many of the tanks were constructed over 30 years ago, and the coatings are reaching the end of their useful service life.

Each year the District inspects and cleans five potable water tanks and all three recycled water tanks. From these inspection reports and input from operations, staff prioritized the tanks for rehabilitation and identified Saddle Peak Tank and Cordillera Tank as the highest priority for coating repairs.

A Request for Proposals (RFP) was prepared to solicit qualified firms to prepare plans and specifications, and provide engineering services during construction for the Saddle Peak and Cordillera Tank Rehabilitation Project.

The RFP is proposed to be circulated based on the following schedule:

Approval of Request for Proposals	May 22, 2018
Pre-proposal Meeting	By request (optional)
Proposal Due Date	June 19, 2018
Acceptance of Proposal (Board Meeting)	July 10, 2018

The proposed Fiscal Year 2018-19 Budget includes appropriations for the rehabilitation of both Cordillera and Saddle Peak Tanks. If the proposed budget is approved, sufficient funding will be available in Fiscal Year 2018-19 Budget. Costs for the design and construction will be tracked and allocated separately because the Saddle Peak Tank is a District facility and the Cordillera Tank is a JPA facility. There is minimal cost associated with the release of the RFP for design, and the design contract is anticipated to be recommended for award on July 10, 2018, after a new fiscal year budget has been approved.

RECOMMENDATION(S):

Approve the Request for Proposals for design and engineering services during construction for the Saddle Peak and Cordillera Tank Rehabilitation Project.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

There is no financial impact associated with a Request for Proposals.

DISCUSSION:

Staff recently presented the Fiscal Year 2018-20 Tactical Actions and Activities to the Board, including Strategic Objective No. 9, to enhance the District's Asset Management Programs. In an effort to improve asset management, staff prepared a summary compiling current tank coating condition information, which is intended to aid in prioritizing repairs. Many of the District's tanks were constructed over 30 years ago, and the coatings are reaching the end of their useful service life.

In June 2002, M. J. Schiff & Associates, Inc. completed an evaluation and rehabilitation master plan for all of the District's tanks. The majority of the necessary improvements identified in the master plan have been completed for the District's tanks. Although these improvements were performed to many of the tanks, the coatings have continued to age and many are approaching the end of their service life. Many of the District's tanks were originally coated with a hot-applied coal tar enamel, which provided a very durable surface and a service life that commonly exceeds 30 years. However, due to changes in regulatory requirements, the District ceased using coal tar enamels and began using epoxy coating products for its steel tanks. Epoxy coatings are most commonly used for steel tanks in the industry, providing excellent corrosion protection. Although these new coatings meet the current regulatory requirements, their service life is considerably less on average than the older coal tar products with most epoxy coatings requiring rehabilitation within 10 to 20 years of application.

The existing tank coating conditions were categorized and sorted in the attached Tank Rehabilitation Priority Summary. Priorities were established for rehabilitation and targeted fiscal years were projected for construction based on the life expectancy of the existing coatings and the District's ability to budget for and complete the rehabilitations. Identified as the top priorities, Saddle Peak and Cordillera Tanks currently exhibit failing coatings and corrosion, requiring rehabilitation.

Saddle Peak Tank is a 2.3-million-gallon potable water storage tank in the 2514-foot system that provides water supply and fire protection to the Stunt Road service area. The steel tank was installed in 1964. Cordillera Tank is a 3.0-million-gallon recycled water storage tank in the 1529-foot zone that supplies recycled water to eastern Calabasas. It is a steel tank and was constructed in 1993.

The scope of work for the renovation of both tanks generally consists of the following: recoating the interior of the tank, recoating or touchup of the exterior, modifying the existing manways, reconfiguring the inlet/outlet piping as needed to improve water circulation, replacing deteriorated valves, improving the vent systems, updating the roof hatches and ladders to current standards, replacing the ring seals and repairing the access roads.

GOALS:

Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: Coleman Olinger, P.E., Associate Engineer

ATTACHMENTS:

Tank Rehabilitation Priority Summary
RFP

Tank Rehabilitation Priority Summary - Potable Tanks														
Tank	Nominal Capacity (MG)	Year Constructed	Most Recent CIP Rehab	Age of Existing Coating (Years)	Interior Condition Noted	Exterior Condition Noted	Recoating Priority Based on Condition (1=highest, 2=medium, 3=lowest)	Coal Tar Coating (as of inspection year)	Lead Exterior (as of 2002)	CP System?	Year of inspection	Requirements to take tank out of service	Rehab Construction Estimate (\$)	FY of Target Rehab
Saddle Tree	0.30	1977	2016	1	N/A	Not Inspected: Recoated in 2016	N/A	No	N/A	Sacrificial Anode	N/A	Storage Tanks	\$294,958	
Calabasas	8.00	1963	2014	3	N/A	Not Inspected: Currently being repaired under warranty (2017)	N/A	No	N/A	Sacrificial Anode	N/A	LV-2 psi control	\$2,543,880	
Kimberly	0.50	1985	2010	7	Minor spot corrosion, overall good condition	Minor coating cracks, some nicks and scratches, overall fair to good condition. Hatch needs gasket	3	No	TBD	Sacrificial Anode	2015	Storage Tanks	\$354,930	28-29
Mulwood	1.60	1986	2010	7	Minor corrosion, fair to good condition		3	No	TBD	Sacrificial Anode	2014	Storage Tanks	\$684,776	28-29
Upper Woolsey	0.50	1981	2009	8	Good condition	Good condition	3	No	TBD	Sacrificial Anode	2015	PRV re-activate	\$294,930	29-30
Warner Tank 1	0.50	1964	2006	11	Blistering and minor corrosion. Adhesion loss.	Roof condition is good. Hatch needs gasket, vents need screen and seal	3	No	TBD	Sacrificial Anode	2017	Use other tank / cold cyn pump station	\$294,930	24-25
Warner Tank 2	2.00	1969	2006	11	Fair to good condition	Roof condition is fair minor corrosion. Hatch needs gasket, vents need screen and seal	3	No	TBD	Sacrificial Anode	2017	Use other tank / cold cyn pump station	\$744,720	25-26
Saddle Peak	2.30	1964	2005	12	Coal tar tank, peeling, blistered coating and corrosion.	Extensive corrosion on hardware and coating delam. Hatch needs gasket, vents need screen and seal	1	Yes	Yes	Sacrificial Anode	2017	Storage Tanks	\$894,678	18-19
Jed Smith 2	0.60	1988	2005	12	Minor corrosion, coal tar interior coating in fair condition	Minor corrosion, fair to good condition, hatch needs gasket	3	Yes	TBD	Sacrificial Anode	2013	Use other tank	\$324,916	26-27
Jed Smith 1	0.60	1986	2005	12	Minor corrosion, coal tar interior coating in fair condition	Minor corrosion, fair to good condition, hatch needs gasket	3	Yes	TBD	Sacrificial Anode	2013	Use other tank	\$324,916	26-27
Latiago	1.50	1964	2003	14	Minor corrosion, fair condition	Minor corrosion, nicks and scratches, fair condition	3	No	Yes	Sacrificial Anode	2017	Use PRV	\$594,790	27-28
Upper Oaks	0.26	2003	N/A	14	Coating in poor condition, interior corrosion along welds/seams, some blistering	Roof in good condition, hatch needs gasket, overall good condition	1	No	TBD	Sacrificial Anode	2016	Storage Tanks	\$282,964	19-20
Upper Twin Lakes	0.39	2003	N/A	14	Isolated blistering and coating failure, overall fair condition.	Some roof coating failure and corrosion started. Hatch needs gasket	3	No	TBD	Sacrificial Anode	2015	Storage Tanks	\$321,945	21-22
Ranchview	0.39	2000	N/A	17	Minor isolated corrosion, overall fair to good condition	Minor isolated corrosion, some nicks and scratches, overall fair to good condition, hatch needs gasket	3	No	TBD	Sacrificial Anode	2014	Storage Tanks	\$321,945	27-28
Twin Lakes 1	0.40	1966	1990	27	Coal Tar coating, some corrosion and rust modules starting	Fair to good condition, some slight peeling, hatch needs gasket	3	Yes	Yes	Sacrificial Anode	2015	Use other tank	\$264,944	20-21
Seminole 1	0.40	1963	1990	27	Coal tar interior coating, some corrosion and rust modules observed, some deep pitting present.	Exterior roof coating near end of service life, surface corrosion and holidays, plan for new coating. Hatch needs gasket	2	Yes	Yes	Sacrificial Anode	2014	Use other tank	\$264,944	24-25
Twin Lakes 2	1.60	1990	N/A	27	Interior coating in poor condition in some areas, cracked/blistered with corrosion. Coal Tar coating.	Roof corrosion and rust nodules, delam and peeling with primer and exposed and corrosion. Hatch needs gasket.	2	Yes	TBD	Sacrificial Anode	2015	Use other tank	\$624,776	20-21
Seminole 2	1.60	1990	N/A	27	Coal tar interior coating, some corrosion and rust modules observed, minor pitting, overall fair condition	Exterior roof coating near end of service life, plan for new coating, hatch needs gasket.	2	Yes	No	Sacrificial Anode	2014	Use other tank	\$624,776	23-24
Dardenne	0.50	1989	N/A	28	Coal Tar coating, minor corrosion, interior ladder in poor condition due to corrosion.	Minor corrosion, overall fair condition, hatch needs gasket	3	Yes	Yes	Sacrificial Anode	2013	Storage Tanks	\$354,930	19-20
McCoy	2.00	1988	N/A	29	Interior coating is coal tar, some coating cracks and corrosion, overall fair condition	Roof coating near end of service life, surface corrosion and holidays. Hatch needs gasket	3	Yes	No	Sacrificial Anode	2014	Feed from warmer system	\$744,720	21-22
Oakridge	0.30	1988	UNK	29	Coal tar interior coating. Some corrosion, moderate in some areas. Overall fair condition.	Fair condition, minor corrosion, hatch needs gasket.	3	Yes	No	Sacrificial Anode	2013	Storage Tanks	\$294,958	23-24
Morrison	3.00	1984	N/A	33	Coal Tar coating, fair to good condition, minor corrosion	Roof is peeling and delam, primer still intact. Hatch needs gasket, vents need seal	3	Yes	Yes	Sacrificial Anode	2016	Feed from equestrian	\$1,044,580	22-23
Lower Oaks	1.00	2003	N/A	N/A	N/A	N/A	N/A (concrete)	No (concrete)	N/A	None (concrete)	2016	Storage Tanks		
Torchwood	5.00	2015	N/A	N/A	N/A	N/A	N/A (concrete)	No (concrete)	N/A	None (concrete)	N/A	Storage Tanks or Off Season Work		
Equestrian	4.20	1971	N/A	N/A	N/A	N/A	N/A (concrete)	No (concrete)	N/A	None (concrete)	2016	Cornell VFD, Vent @ torch wood or LVR		

Tank Rehabilitation Priority Summary - Recycled Tanks

Tank	Nominal Capacity (MG)	Year Constructed	Year Rehab'd	Age of Existing Coating	Interior Condition Noted	Condition Noted	Recoating Priority Based on Condition (1=highest, 2=medium, 3=lowest)	Coal Tar Coating (as of inspection year)	Lead Exterior (as of 2002)	CP System?	Year of inspection	Requirements to take tank out of service?	Rehab Construction Estimate (\$)	FY of Target Rehab
Indian Hills	2.6	1986	2009	8	Fair condition, small patches of blisters without corrosion.	Minor corrosion, over condition is fair to good, hatch needs gasket	3	No	TBD	Sacrificial Anode	2017	Storage Tanks	\$924,636	25-26
Parkway	0.2	2003	N/A	14	Some blistering, no major corrosion, fair to good condition	Good condition, hatch needs gasket	3	No	TBD	Sacrificial Anode	2017	Storage Tanks	\$264,972	22-23
Cordillera	3	1993	2001	24	Coating is cracking and peeling with corrosion noted, poor condition. Coal tar floor peeling and corrosion present	Fair to good condition, hatch needs gasket, minor corrosion.	1	Yes - Floor only	TBD	Impressed Current	2017	Use Res 3	\$1,044,580	18-19



REQUEST FOR PROPOSALS
FOR
SADDLE PEAK AND CORDILLERA TANK
REHABILITATION PROJECT

PROPOSALS DUE June 19, 2018 at 3:00 p.m.

LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES ROAD
CALABASAS CA 91302
818.251.2100

May 2018

REQUEST FOR PROPOSALS
Las Virgenes Municipal Water District

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I. INTRODUCTION

The Las Virgenes Municipal Water District (LVMWD) invites your firm to submit a proposal to provide Engineering Design services for the Saddle Peak and Cordillera Tank Renovation Project. Design Engineering Services will include:

- Review of available materials from the District and other sources and research.
- Preparation of Plans and Specifications for construction.

A preliminary scope of work is included to assist you in the preparation of your proposal. Failure to submit information in accordance with the requirements in this Request for Proposal (RFP) may be cause for disqualification.

A pre-proposal meeting will be at the request of the consultant, and is optional.

Questions regarding this Request for Proposal should be directed to Coleman Olinger, P.E., Associate Engineer at 818.251.2163 or colinger@lvmwd.com.

II. BACKGROUND INFORMATION

The Las Virgenes Municipal Water District (LVMWD) is a special district established in 1958. The service area encompasses 122-square miles in western Los Angeles County and includes the incorporated cities of Hidden Hills, Calabasas, Agoura Hills and Westlake Village, as well as unincorporated areas. The District provides potable water, recycled water and wastewater service to a population of approximately 71,000. Triunfo Sanitation District (TSD) within Ventura County is a joint venture partner with LVMWD in wastewater and recycled water service which serves an additional 30,000 people

Each year the District completes inspections and cleaning of 5 (of 26) potable water tanks and 3 (of 3) of the recycled water tanks. In February 2017 and February 2016, Potable Divers, Inc. conducted underwater inspections of Saddle Peak and Cordillera Tanks, providing recommendation for re-coating. From these inspection reports and input from operations, District Staff identified Saddle Peak and Cordillera Tanks as the highest priority tanks for coating repair. In October 2017, the District personnel from Technical Services, Operations, and Maintenance conducted field visits to identify other necessary improvements of the tanks for future operation.

Saddle Peak Tank is a 2.3-million-gallon potable water storage tank in the 2514-foot system that provides water supply and fire protection to the Stunt Road service area. The steel tank was installed in 1964. Cordillera Tank is a 3.0-million-gallon recycled water storage tank in the 1529-foot zone that supplies recycled water to eastern Calabasas. It is a steel tank and was constructed in 1993.

In June 2002, M. J. Schiff & Associates, Inc. completed an evaluation and rehabilitation master plan for all of the District's tanks. The majority of the necessary improvements identified in the master plan have been completed for the District's tanks. Although these improvements were performed to many of the tanks, the coatings have continued to age and now many are nearing or at their end of service life. The existing tank coating conditions were categorized and sorted in the Tank Rehabilitations Summary (attached). Priority was established for rehabilitation and target Fiscal Years were provided for the construction. Identified as the top

priority, Saddle Peak and Cordillera Tanks currently exhibit failing coating and corrosion, requiring rehabilitation.

The scope of work for the renovation of both tanks generally consists of the following: recoating the interior of the tank, recoating or touchup of the exterior, modifying the existing manways, reconfiguring the inlet/outlet piping to improve water circulation, replacing deteriorated valves, improving the vent systems, updating the roof hatches to current standards, replacing the ring seals, and repairing the access roads.

The work performed on the interior of the tanks will require them to be temporarily taken out of service. Based on system demand for Saddle Peak Tank, the interior construction work will be scheduled such that the tank will only be out of service during the period of lowest water demand, January through March. Additionally, temporary water storage tanks will be required while the tank is offline. For Cordillera Tank, the District can utilize reservoir no. 3 for temporary distribution of recycled water while the tank rehabilitation is completed.

III. SCOPE OF WORK

This RFP includes the following major tasks:

- 1) Review of available material from the District and other sources and research.
 - Las Virgenes Municipal Water District Steel Tank Reservoir Rehabilitation Project “Coatings Evaluation of Twelve Potable Water Steel Tanks and Proposed Rehabilitation Activities” (LVMWD #2207.00)
 - Field Report, Underwater Cleaning / Inspection Saddle Peak Water Storage Tank, Potable Divers, Inc., February 14, 2017.
 - Field Report, Underwater Cleaning / Inspection Cordillera Water Storage Tank, Potable Divers, Inc., February 17, 2016.
 - 2007 Corrosion Control Program Report (LVMWD # 2396.00)
 - Las Virgenes Municipal Water District Preliminary Evaluation of LVMWD Tank Sites for Earthquake Hazards (LVMWD #1661))
- 2) Prepare plans and specification for construction, based on the conclusion of review and research. The work would include both the interior and exterior work on the tank.
 - Bid Documents
 - Bidding services – attend pre-bid conference and bid opening. Respond to questions and prepare addendum (addenda)
 - Construction observation – limited construction observation as necessary
 - Submittal review/processing
 - Request for Information (RFIs) and Change Order review relate to the tank structure, coating, temporary tank installation, and inlet/outlet piping modifications.
 - As built drawings.

IV. MINIMUM CONSULTANT QUALIFICATIONS

The firm awarded the tank engineering design services shall have a State of California Professional Engineer. This person shall have overall responsibility and shall serve as the District’s point of contact for all the engineering services.

The firm shall have experience and expertise in Tank Coating/Rehabilitation.

The District's standard Agreement for Professional Services is included as Appendix B. The consultant shall have the ability to execute the agreement in this form. Professional liability insurance per the agreement is required.

V. PROPOSAL REQUIREMENTS

- 1) Legal name of firm with address, telephone number and the name of at least one principal.
- 2) Project understanding and approach, including resource capacity to perform work on several projects simultaneously.
- 3) A recommended scope of work which clearly displays an understanding of the project, using as a basis the preliminary scope of work outlined above.
- 4) Names and résumés of individual(s) proposed to perform the services, including proof of professional registrations, as appropriate.
- 5) References for 3 recently completed or current projects of similar size and scope, including contact person and telephone number.
- 6) Certificate of professional liability insurance.
- 7) Schedule of Rates.

Please submit five (5) copies of your proposal no later than 3:00 p.m. on June 19, 2018.

VI. EVALUATION CRITERIA

Proposals will be evaluated based upon the following:

- 1) The quality of performance on past projects, including those on which the proposed team has worked together.
- 2) Expertise in the field of steel tank design, steel tank coating design as demonstrated by reference check.
- 3) The ability to meet time schedules and complete the work within established budgets.
- 4) The ability to provide a comprehensive and understandable scope of work.
- 5) Cost of proposal in terms of overall value to the District.
- 6) The firm's history and resource capacity to perform the requested service.
- 7) The experience and qualifications of assigned personnel.

VII. SCHEDULE

Approval of Request for Proposals	May 22, 2018
Pre-proposal Meeting	By request (optional)
Proposal Due Date (3:00 p.m.)	June 19, 2018
Acceptance of Proposal (Board meeting)	July 10, 2018

APPENDIX A

As-Builts

APPENDIX B

Agreement for Professional Services



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Proposed Update to Financial Policies: Assignment or Commitment of Reserves

SUMMARY:

At its March 20, 2018 Strategic Planning Workshop, the Board reviewed the District's Financial Policies and conceptually approved an update to Policy 11 to allow for assignment or commitment of reserves for the Pure Water Project Las Virgenes-Triunfo. With adoption of the updated Financial Policies, the Board can plan for the future use of funds in excess of the reserve requirements for the Pure Water Project Las Virgenes-Triunfo.

RECOMMENDATION(S):

Adopt the proposed update to the Financial Policies, allowing for the assignment or commitment of reserves in excess of target levels; and assign \$15 million in reserves, consisting of \$10 million from the Sanitation Enterprise and \$5 million from the Recycled Water Enterprise, for the Pure Water Project Las Virgenes-Triunfo.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Assignment of the funds designates a future purpose for the funds, the Pure Water Project Las Virgenes-Triunfo, and requires prior Board approval before use for a different purpose.

DISCUSSION:

Revised Financial Policy 11:

The District's adopted Financial Policies set standards for its financial operations to ensure fiscal sustainability and the maintenance of sufficient reserves to address a variety of business needs and risks. On March 20, 2018, the Board discussed proposed changes to Financial Policy 11 to provide for the Board to assign or commit funds in excess of the required reserve amounts. The Board directed staff to modify Financial Policy 11 to specifically allow for designation of funds for the Pure Water Project Las Virgenes-Triunfo to illustrate the District's commitment to the project.

Proposed Financial Policy 11:

Assignment or Commitment of Reserves in Excess of Target Balances

When the operating reserves for an enterprise fund exceed the amounts required by these Financial Policies, the Board may assign or commit the funds in excess of the established reserve balance targets for the Pure Water Project Las Virgenes-Triunfo.

The Board has a policy favoring pay-as-you-go for capital projects. The District considers cash on hand in excess of the reserve levels established by Policy 6 as available for capital or any one-time project. Additionally, GASB 54 establishes specific designations related to the use of fund balances as follows:

- *Assigned Fund Balance – The assigned fund balance is a designation by the Board or its authorized designated official specifying an intended use of certain funds. These funds are committed for a specific purpose but not necessarily to a specific project or program and its use is not restricted.*
- *Committed Fund Balance – The committed fund balance has stronger restrictions than assigned fund balance in that its use is constrained by the Board and any use of the funds must have explicit approval of the Board, usually in the form of an ordinance or resolution. Committed funds cannot be used for any other purpose without action by the Board.*

Funds that are available after the Enterprise has met its requirements for having a cash balance equivalent to 25% of the operating budget and for having funds available for replacement and major maintenance as specified in the annual Infrastructure Investment Plan (reserves equivalent to three years of capital improvement projects) can, at the Board's discretion and upon approval, be assigned or committed for use by the Pure Water Project Las Virgenes-Triunfo.

Assignment of Funds:

If the Board approves proposed Financial Policy 11, a portion of funds in excess of required reserve levels may be assigned or committed the Pure Water Project Las Virgenes-Triunfo.

As of March 31, 2018, the last month finances were closed, the Potable Water Enterprise had reserves that were \$14.0 million below reserve policies, the Recycled Water Enterprise had reserves that exceeded reserve levels by \$8.3 million, and the Sanitation Enterprise had a cash balance that was \$15.1 million over required reserve levels. It is prudent for the District to maintain cash balances for unexpected and planned capital expenditures in Fiscal

Year 2018-19. Based on the most recent cash balances, expected contributions to cash balances during Fiscal Year 2018-19, and planned Fiscal Year 2018-19 capital expenditures, staff recommends that the Board assign \$10 million from the Sanitation Enterprise and \$5 million from the Recycled Water Enterprise for the Pure Water Project Las Virgenes-Triunfo.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

ATTACHMENTS:

Proposed Update to Financial Policies

PROPOSED FINANCIAL POLICIES

POLICY 1: Restricted Cash

The District will maintain cash, to be used solely for its intended purpose, in an amount equal to funds restricted by legal requirements, contractual agreements and trustee requirements.

The District is limited in the means in which it may use certain cash (“restricted cash”) due to legal and contractual requirements.

Other reserves/funds are unrestricted; they are established by Board direction to address potential needs as defined in the policies that follow. Unrestricted reserves may be adjusted in amount and directed for needs other than those initially contemplated, but funds described in Policy 7 for replacement/major maintenance must be used only for needs of the enterprise from which the funds were generated.

AB 1600 requires that development impact fees (“capacity fees”) and interest generated from such can only be used for capital projects related to expansion, not replacement or enhancement. These funds are maintained separately in the appropriate enterprise **Construction Fund**.

Vested sick leave results from contractual obligations with employees. Cash is maintained in an amount equal to the vested sick leave obligation. Upon voluntary termination, retirement or death of an employee, the vested sick leave accrual is paid to the employee or their beneficiary.

Trust funds hold cash that has been deposited with the District for future obligations that may or may not occur. These obligations include developer/customer deposits and pre-funding by Triunfo Sanitation District for their portion of JPA capital projects and 3 months operating expense.

A **Bond covenant** is cash held as a surety that the annual bond payment and interest will be made. The official documents of the bond transactions require that funds be deposited and maintained with the trustee until the final bond payment is made or the bond issue is defeased. If the District had to draw on this reserve to pay any portion of the debt service payment before the issue had fully matured, the District would be in technical default and the trustee could require the District to pay off the bondholders at once. The District’s refunding bond reserve has been deposited through the bond trustee, Bank of New York, in the state of California’s Local Agency Investment Fund (“LAIF”). The current bond coverage required for the district is that net operating income must be at least 110% of the maximum annual debt service.

POLICY 2: Balanced Budget/Annual Board Review

The District will maintain a balanced operating budget for each enterprise fund with annual revenues equal to or greater than annual expenditures. However, the Board may determine that reserves be used to augment operating revenues under certain circumstances. The Board will review annually the working capital, cash, projected income and bond coverage levels to determine the adequacy of each.

If in any given fiscal year operating expenditures will exceed the operating revenue projected in the same year, causing a budget imbalance, cost cutting measures or revenue enhancements may be addressed before spending reserves to support on-going operations. Cost cutting measures may include reductions in capital improvement projects, reductions in staff or reductions in expenditures for materials, services, or supplies. Such expenditure or staff reductions may result in reduced service levels. Alternatively, the Board may determine that circumstances warrant taking money from reserves to offset expenses larger than operating income.

At year-end, net revenue after expenses (“income”) will be transferred to funds as directed by the Board, subject to any legal limitations on the Board’s discretion. Funds balances are addressed annually as part of the budgeting process.

Available cash in the various funds reflects the District’s ability to pay current bills and commitments, as well as underwriting the risk level the District is willing to accept.

POLICY 3: Rate Stabilization Fund

The District will maintain a Rate Stabilization Fund in an amount of \$8 million to maintain rate stability for customers in times when short or mid-term cash needs are volatile.

The District's potable water operating revenue *can vary greatly* based on climatic conditions. During periods of heavy rain, potable water revenue drops significantly from the three year average at which revenues are budgeted. During significantly hot, dry periods, a reverse trend is seen wherein significant revenue is generated by higher sales than the three year average. During periods of extended water shortage, when customers are asked to reduce consumption, the impact on potable water revenue is similar to the effect of heavy rain. Rather than raising water rates on a temporary basis to cover expenses during these times, the Rate Stabilization Fund (RSF) allows the Board to balance operating revenue to operating expenses by a transfer.

POLICY 4: Financing Alternatives

As part of the annual Infrastructure Investment Plan (IIP) budgeting process, the District will examine options available to pay for the proposed projects, including the option of financing.

Each year the Board reviews needs for capital improvements and major maintenance over the next five years (the capital improvement plan "CIP"). Expenditures are projected on an annual basis, but the available fund balance for replacement or major maintenance is not always adequate to cover the need when it arises. The Board favors a pay-as-you-go program for the IIP program, but the District may not have funds available to pay for projects in any given year, or projects anticipated in future years may be of a type that would be difficult to finance. Such considerations may dictate financing as the preferred alternative. If a project requires substantial expenditures over several years and interest rates are low, the District may consider issuing financing now and reserving the available funds for need at times when interest rates are higher.

The Board has determined that debt service should not exceed 15% percent of reliable revenue sources.

POLICY 5: Fiscal Impact Analysis

Staff shall prepare a fiscal impact analysis for each budget appropriation request not included as part of the Annual Budget. Available fund balances are intended to be appropriated only for "one-time" nonrecurring expenditures not covered by the current annual budget.

When non-budgeted items are brought before the Board for consideration, the resulting fiscal impact will be analyzed. The Board requires all requests for new or supplemental budget appropriations to be accompanied by a fiscal impact statement including:

- Amount of funds requested
- Source of funds requested
 - New revenue
 - Reallocation of existing appropriations
 - Grants
- Impact of Request
 - New rates or fees
 - Decrease in one activity to support another activity
 - Effect on fund balance

POLICY 6: Operating Funds Cash Requirement

The District will maintain cash (net of restricted cash) in the Operations Fund of each enterprise equivalent to 25% of the operating budget (and eliminate the requirement for one-year's debt service obligation. This change in policy will increase the potable water reserve balance but should be tempered with a requirement to maintain a working capital reserve for operations and one year's debt service in the sanitation operating fund each year, which would be approximately \$5.2 million.)

An available cash reserve to cover operating shortfalls is a prudent management practice to be used for both short term cash flow and contingency planning for unforeseen situations. Examples Include:

- Unexpected increases in costs or declines in revenues
- Legislative or judicial mandate to provide a new or expanded service or program
- Natural disaster emergencies which exceed the Emergency/Insurance Fund
- One-time Board approved non-capital expenditures or capital need if the IIP fund is inadequate
- Interruptions in billing process to customers

If such unforeseen circumstances occur, staff will present the Board with options for curing the deficiency, including use of this fund.

POLICY 7: Replacement and Major Maintenance Fund by Enterprise (potable water, sanitation, recycled water)

Each of the District's three enterprises will maintain a Replacement Fund for major maintenance, replacement and improvement of facilities and infrastructure not related to growth. The source of funds will be current user fees. Each Replacement Fund will maintain cash levels equal to the most current three-years of actual depreciation expense. If a replacement fund's cash target is exceeded, the Board will consider using the excess for prepayment of outstanding debt, if appropriate.

Prudent stewardship of assets requires that maintenance be performed to postpone or decelerate the aging process. As a general rule, maintenance costs for an item become more expensive as the asset ages. Also, changes in technology could result in replacing an asset with one which provides lower operating expenses or greater revenues or replacement of assets may be required due to changes in regulatory standards.

Major maintenance and replacement are on-going operating costs that should be paid for by user fees. Appropriate cash levels within a Replacement Fund enables the District to pay for planned or unplanned projects in any given year.

The water stand-by charge is levied against developed and undeveloped land and is dedicated to maintenance and replacement of potable water infrastructure and facilities. Recognizing that undeveloped land has added value because of the availability of potable water service, these owners have a vested interest in seeing the system maintained.

POLICY 8: New Construction Fund by Enterprise

The District will pay for expansion or new facilities necessitated by growth from capacity fees collected from new development and maintained in the appropriate enterprise's Construction Fund.

Current ratepayers should not be burdened with costs associated with growth due to new development. The fair share of cost of expansion will be borne by the developers through capacity fees.

The District has a master plan that identifies projected infrastructure and facility needs through build-out and is used as the basis for determining capacity fees. Capacity fees may be pledged for debt service payments, if the need for the expansion occurs before adequate capacity fees can be collected.

Prepaid capacity fees not used are subject to refund with interest, provided the developer has not started his project and the District has not begun construction on the system.

POLICY 9: Internal Service Replacement Fund for Buildings, Vehicles and Equipment

The Internal Service Fund will have revenues (i.e. user charges, interest income and all other income) sufficient to meet operating expenses, maintenance costs, depreciation expense, an inflation factor for other needs not exclusive to one of the three enterprises.

The District uses the internal service fund as an internal accounting and budget mechanism to equitably distribute general operating costs such as for buildings, vehicle and equipment replacement and maintenance costs among District user programs and to assure that adequate funding is on hand to replace or maintain these assets.

POLICY 10: Emergency/Insurance Fund

The District will maintain an Emergency/Insurance Fund to cover claims not covered by insurance, fines and penalties imposed by regulatory agencies and disaster repairs and expenses. The target for this Fund is two percent (2%) of the total value of capital assets, including LVMWD's share of the Joint Power's Authority capital assets. The Board must approve any expenditure from this Fund. Self-insurance retentions will be paid out of operating budgets.

To protect the investment in assets and to ensure continuation of District operations, the District purchases insurance for general liability, property and worker's compensation. The District has the responsibility to pay for deductibles or self-insurance retentions. Also, the District has some risks that may not be economically or actually insured, such as certain types of pollution (odor), flood, and mold. Also, the insurance on District's sewer lines or water lines is limited to the cost of emergency clean-up and does not include the cost of repairing the failure. Because of this potential exposure, the District has established the Emergency/Insurance Fund at two-percent of the value of capital assets less the value of land, which amount will be determined annually after the audit. The Fund can only be used when approved by the Board.

This policy is in line with our experience in having to pay damages that are not covered by insurance and cover expenses that are not reimbursed on a timely basis by FEMA. Like the Rate Stabilization Fund, not having the Emergency/Insurance Fund available in the event of a disaster could significantly impact our cash flow and possibly impact future utility rates during troublesome times.

POLICY 11: Assignment or Commitment of Reserves in Excess of Target Balances **Recycled Water Operations Reserves**

When the operating reserves for an enterprise fund exceed the amounts required by these Financial Policies, the Board may assign or commit the funds in excess of the established reserve balance targets for use by the Pure Water Project Las Virgenes-Triunfo.

The Board has a policy favoring pay-as-you-go for capital projects. The District considers cash on hand in excess of the reserve levels established by Policy 6 as available for capital or any one-time project. Additionally, GASB 54 establishes specific designations related to the use of fund balance as follows:

- Assigned Fund Balance** – The assigned fund balance is a designation by the Board or its authorized designated official specifying an *intended* use of certain funds. These funds are committed for a specific purpose but not necessarily to a specific project or program and its use is not restricted.
- Committed Fund Balance** – The committed fund balance has stronger restrictions than assigned fund balance in that its use is constrained by the Board and any use of the funds must have explicit approval of the Board, usually in the form of an ordinance or resolution. Committed funds cannot be used for any other purpose without action by the Board.

Funds that are available after the Enterprise has met its requirements for having a cash balance equivalent to 25% of the operating budget and for having funds available for replacement and major maintenance as specified in the annual Infrastructure Investment Plan (reserves equivalent to three years of capital improvement projects) can, at the Board's discretion and upon approval, be assigned or committed for use by the Pure Water Project Las Virgenes-Triunfo.

When the operating reserves for recycled water exceed the amount required in Policy 6 (Operating Funds Cash Requirement) plus Policy 7 (Replacement and Major Maintenance Fund by Enterprise), the District may use the net reserves to pay for research, studies and construction of projects to increase the beneficial use of recycled water and/or set aside funds to ultimately pay for (pay-go) or service the debt associated with the development of an indirect potable reuse (Pure Water) project, if the expenditure is approved by the Board.

~~The Tapia Water Reclamation Facility treats wastewater to such a level that the result can be sold as recycled water. Although the recycled water is considered a valuable asset to the District because recycled water can replace some irrigation uses, thus lowering the demand for potable water, there are times of the year that the District accumulates more recycled water than customers can use and the District has to pay to dispose of the excess recycled water.~~

~~The District's goal is to make recycled water available to as many customers as is practical as a way of conserving potable water. To that end, funds in the Recycled Water Operations reserve that are available after the fund has met its requirements for having a cash balance equivalent to 25% of the operating budget for recycled water and for having funds available for replacement and major maintenance as specified in the annual Infrastructure Investment Plan (reserves equivalent to three years of capital improvement projects) can, at the Board's discretion and upon approval, be used to pay for research, studies and construction of projects to increase the beneficial use of recycled water and/or to set funds aside to ultimately pay for (pay go) or service the debt associated with the development of an indirect potable reuse (Pure Water) project.~~



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Proposed Operating and Capital Improvement Budget Plan for Fiscal Years 2018-20: Approval and Adoption

SUMMARY:

The proposed Two-Year Budget Plan is \$75.7 million for Fiscal Year (FY) 2018-19 and \$77.7 million for FY 2019-20. The proposed FY 2018-19 operating and capital improvement budget is 15.9% higher than the FY 2017-18 Budget of \$65.3 million, primarily due to an increase in expenditures for capital improvement projects.

The following major capital improvement projects are included in the proposed FY 2018-20 Budget:

- Pure Water Project Las Virgenes-Triunfo (demonstration project and preliminary design and environmental review for full-scale project)
- Tapia Process Air Improvements Project
- Enterprise Resource Planning (ERP) Implementation
- Saddle Peak Tank Rehabilitation
- Cordillera Tank Rehabilitation
- Tapia Rehabilitation
- AMR/AMI Implementation
- Rancho Las Virgenes Digester Cleaning and Repair
- Interconnection with Calleguas Municipal Water District

Operating expenses include \$54.7 million for FY 2018-19 and \$57.2 million for FY 2019-20. The FY 2018-19 operating expenses are proposed to increase 10.9% from the previous year's budget of \$49.3 million. The increase in operating budget reflects a gradual rebound in demands, recognizing the improved water supply conditions, as well as inflationary increases to salaries, benefits and treatment costs.

The final budget document will incorporate any approved changes to the District's Financial Policies also being discussed at the Board meeting.

RECOMMENDATION(S):

Approve the Two-Year Budget Plan for Fiscal Year 2018-20 and adopt the Fiscal Year 2018-19 Budget; authorize the General Manager to pre-pay the District's annual required contribution to CalPERS, in the amount of \$1,371,771, for its unfunded accrued liability; authorize the General Manager to contribute \$1,330,305 to reduce the District's OPEB unfunded accrued liability; and authorize the use of penalty revenues of \$1,802,789 for the AMR/AMI Implementation, \$1,002,774 for weather-based irrigation controllers and \$128,309 for rain barrels.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The proposed Fiscal Year 2018-19 Budget is \$75.7 million.

DISCUSSION:

The Budget Process:

The budget process for FY 2018-20 began in January 2018. Staff was directed to develop the budget using current service and staffing levels. The Board received and filed a five-year Infrastructure Investment Plan during the budget process, and it was incorporated into the 2018-20 Two-Year Budget.

In early April, the General Manager met with representatives from each department to discuss and review and discuss the budget in detail. Also, the General Manager met with representatives of Triunfo Sanitation District to discuss the budget. Changes made by the General Manager were incorporated into the budget.

On March 20, 2018, the Board reviewed major drivers and assumptions to be used in developing budget estimates. Subsequently, the Board reviewed the preliminary budget for operating revenue and expenses, as well as capital improvement projects, on April 24, 2018.

Budget Assumptions:

The primary assumptions driving the budget preparation were as follows:

- Potable water demand increase of 2.8% annually based on 2015 Rate Study and recent experience.
- Recycled water demands remain constant.
- Sanitation average daily in-flow at Tapia remains relatively constant.
- MWD potable water rate increases of 1.8% and 2.4% for Fiscal Years 2018-19 and

2019-20, respectively.

- Inflationary increases to personnel costs.
- Additional contributions to pay down OPEB unfunded liability.

Proposed Budget:

The FY 2018-19 budget reflects total expenses of \$75.7 million. The amount is comprised of \$54.7 million in operating expenses, \$18.0 million in capital improvement projects, \$2.8 million in debt service and \$0.2 million in other non-operating expenses. The budget also reflects \$51.1 million in water revenues; \$18.5 million in sanitation revenues; \$2.5 million in capacity fees; \$0.5 in standby charges; \$1.8 million from interest, grants, and other non-operating income; and \$1.3 million in working capital draw.

The FY 2019-20 budget reflects total expenses of \$77.7 million. This amount is comprised of \$57.2 million in operating expenses, \$14.7 million in capital improvement projects, \$2.8 million in debt service, \$0.2 million in other non-operating expenses, and a \$2.8 million contribution to working capital. The budget also reflects \$55.9 million in water revenues; \$18.8 million in sanitation revenues; \$0.6 million in capacity fees; \$0.5 in standby charges; and \$1.9 million from interest, grants, and other non-operating income.

Board Members will receive the proposed budget with the agenda package. The proposed budget document is available for public review at District Headquarters, 4232 Las Virgenes Road, Calabasas, or on-line at the www.lvmwd.com.

Prepayment of the District's Annual Required Contribution to CalPERS

The District has prepaid its annual required contribution since 2004 to achieve a cost-savings discount offered by CalPERS. For Fiscal Year 2018-19, the discount amounts to approximately 3.50% of the District's annual required contribution of \$1,371,771, resulting in a cost-savings of \$49,689. The prepayment, in the amount of \$1,371,771, must be made no later than July 31, 2018. The normal contribution of \$1,057,536 will be paid as part of the payroll reporting process. The estimated total employer contribution is \$2,429,302 (\$2,478,991 minus the \$49,689 prepayment savings). For FY 2019-20, the District's annual required contribution is estimated to be \$1,660,000, and normal contribution is estimated to be \$1,094,000.

Attached for reference is a copy of the statement from CalPERS for the annual required contribution. Staff recommends that the District prepay its annual required contribution to achieve the associated cost-savings; the proposed budget reflects this recommendation.

Prepayment of the District's Unfunded Liability for Other Post Employment Benefits (OPEB)

On March 20, 2018, the Board authorized staff to proceed with preparation of the Two-Year Budget, incorporating an accelerated pay down of the District's unfunded OPEB liability. For Fiscal Year 2018-19, the prepayment amount is \$1,330,305, the amount of the District's annual required contribution (ARC), which is in addition to the "pay as you go" funding of retiree benefits of \$1,197,516, for a total proposed OPEB Payment of \$2,527,821. The District's total OPEB unfunded liability, as of June 30, 2017, was \$21,722,422. The fiduciary net position invested in CERBT is \$5,357,552, resulting in a net OPEB unfunded liability of \$16,364,870. For Fiscal Year 2019-20 staff budgeted \$1,330,305 as well, as it is not

anticipated that the ARC will increase.

Attached for reference is a copy of the actuarial opinion for the annual required contribution. Staff recommends that the District prepay the annual required contribution to achieve a long-term cost-savings by reducing unfunded liabilities; the proposed budget reflects this recommendation.

Salary Resolution:

Due to the timing and status of current negotiations with the Management and Supervisor, Professional, and Confidential Units, staff will present a FY 2018-19 salary resolution to the Board in June.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Angela Saccareccia, Finance Manager

ATTACHMENTS:

CalPERS Prepayment

OPEB Prepayment

Required Contributions

	Fiscal Year
Required Employer Contribution	2018-19
Employer Normal Cost Rate	9.459%
<i>Plus Either</i>	
1) Monthly Employer Dollar UAL Payment	\$ 118,455
<i>Or</i>	
2) Annual UAL Prepayment Option	\$ 1,371,771
Required PEPRA Member Contribution Rate	6.50%
<p><i>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) plus the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly in dollars).</i></p> <p><i>Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31). Plan Normal Cost contributions will be made as part of the payroll reporting process. If there is contractual cost sharing or other change, this amount will change.</i></p> <p><i>§20572 of the Public Employees' Retirement Law assesses interest at an annual rate of 10 percent if a contracting agency fails to remit the required contributions when due.</i></p> <p><i>For additional detail regarding the determination of the required contribution for PEPRA members, see Appendix D. Required member contributions for Classic members can be found in Appendix B.</i></p>	

	Fiscal Year	Fiscal Year
	2017-18	2018-19
Normal Cost Contribution as a Percentage of Payroll		
Total Normal Cost	15.803%	16.394%
Employee Contribution ¹	6.958%	6.935%
Employer Normal Cost	8.845%	9.459%
Projected Annual Payroll for Contribution Year	\$ 10,484,304	\$ 11,180,211

Estimated Employer Contributions Based On Projected Payroll

Total Normal Cost	\$ 1,656,835	\$ 1,832,884
Employee Contribution ¹	729,498	775,348
Employer Normal Cost	<u>927,337</u>	<u>1,057,536</u>
Unfunded Liability Contribution	1,221,636	1,421,455
% of Projected Payroll (illustrative only)	11.652%	12.714%
Estimated Total Employer Contribution	\$ 2,148,973	\$ 2,478,991
% of Projected Payroll (illustrative only)	20.497%	22.173%

¹ For classic members, this is the percentage specified in the Public Employees Retirement Law, net of any reduction from the use of a modified formula or other factors. For PEPRA members, the member contribution rate is based on 50 percent of the normal cost. A development of PEPRA member contribution rates can be found in Appendix D. Employee cost sharing is not shown in this report.

TCS Total Compensation Systems, Inc.

March 9, 2018

Angela Saccareccia
Las Virgenes Municipal Water District
4232 Las Virgenes Rd
Calabasas, CA 91302-3589

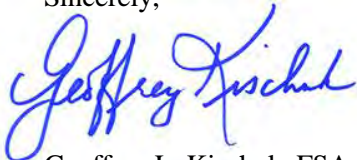
Dear Ms. Saccareccia,

This is in response to your request for information about what the Annual Required Contribution (ARC) would have been as of July 1, 2017 for the Amortization Basis shown below. The actuarial assumptions and methods used to determine the Service Cost (SC) and Net OPEB Liability (NOL) are the same used in our GASB 75 Valuation report dated December 10, 2017.

Amortization Basis	21 years % of Payroll
Service Cost (SC)	\$149,131
Net OPEB Liability (NOL)	\$16,364,870
Amortization of NOL	\$1,181,174
Annual Required Contribution (ARC)	\$1,330,305

Please let me know if you have any questions about the above or about retiree benefits, in general.

Sincerely,



Geoffrey L. Kischuk, FSA, FCA, MAAA
Consultant
Total Compensation Systems, Inc.
5655 Lindero Canyon Road, Suite 223
Westlake Village, CA 91362
(805) 496-1700
gkischuk@totcomp.com



May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Investment Strategy for Other Post Employment Benefits (OPEB) Trust

SUMMARY:

At the March 20, 2018 Strategic Planning Workshop, staff presented the Board with an update on other post employment benefits (OPEB), including a plan to pay down the District's unfunded liability and potentially change its investment choices. The Board directed staff to budget for an additional contribution to reduce the District's unfunded OPEB liability and requested additional information on investment options offered through the California Employers Retiree Benefits Trust (CERBT), administered through the California Public Employees Retirement System (CalPERS).

RECOMMENDATION(S):

Authorize the General Manager to transfer existing funds and direct future contributions to Strategy 3 in the California Employers Retiree Benefits Trust for other post employment benefits.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Selection of a more conservative investment strategy may reduce financial risk and affect the District's future OPEB unfunded liability.

DISCUSSION:

The District began its participation in CERBT in 2007. At that time, only one investment strategy was offered, now called Strategy 1. The District continues to participate in Strategy 1. In 2011, CERBT introduced Strategy 2 and in 2012, strategy 3 was introduced. While all three strategies are more aggressive than the District's investment strategy, the three strategies offer different levels of risk. Strategy 1 is the most aggressive with greatest risk, and Strategy 3 is the most conservative with the lowest risk. Following is a summary of each strategy's investments.

Asset Class Target Allocation	Strategy 1	Strategy 2	Strategy 3
Global Equity	57%	40%	24%
Fixed Income	27%	39%	39%
Treasury Inflation Protected Securities	5%	10%	26%
Real Estate Investment Trust	8%	8%	8%
Commodities	3%	3%	3%

The variations in asset class allocation has had an effect on returns over the past ten years. Since Strategies 2 and 3 have not existed for ten years, staff utilized the identified benchmarks and target allocations to simulate the theoretical average annual returns over a ten-year period from 2008 through December 2017. The results of the analysis are as follows:

Simulated Average Annual Returns	Strategy 1	Strategy 2	Strategy 3
2008 - 2012	3.88%	4.47%	5.13%
2013 - 2017	8.27%	6.49%	4.47%
All Ten Years (2008-2017)	4.94%	4.59%	4.20%

The table above directly shows the impact that a high percentage of investments in global equities has had on the portfolios. During the first five-year period, which included significant negative returns in the equity market, the more conservative Strategy 3 had the best performance. During the past five-year period, with a strong equity market, Strategy 1 had the strongest performance. Over the ten-year period, the effect was significantly less, with a 74 basis point (less than 1.00%) difference between the highest and lowest performing strategies.

When choosing the investment strategy for CERBT, the Board should also consider its risk tolerance and degree of volatility that is acceptable. One common measurement of the historical volatility of a portfolio is its standard deviation with the higher number representing higher historical volatility. As shown below, Strategy 3 has the lowest standard deviation (lowest volatility) over the past ten years.

	Standard Deviation
Strategy 1	0.14
Strategy 2	0.11
Strategy 3	0.08

This concept can also be exemplified by reviewing the lowest and highest returns of each of the investment strategies over the ten-year period.

	Lowest	Highest
--	--------	---------

	Return	Return
Strategy 1	-26.95%	16.32%
Strategy 2	-19.59%	13.44%
Strategy 3	-13.54%	10.21%

The investment strategy selected will have an immediate impact on the net OPEB unfunded liability due to changes in anticipated future year returns.

	Net Liability	Increase
Strategy 1	\$16,364,870	
Strategy 2	\$17,773,483	\$1,408,613
Strategy 3	\$19,183,097	\$2,818,227

Attached are the December 2017 fact sheets for each strategy. To include an entire ten-year period, the analysis above is based on the benchmarks and target allocations, while the fact sheets reflect actual returns and actual allocations. Comparing the benchmark analysis to the actual returns for the most recent five-year period demonstrates a strong correlation between the benchmark analysis and actual returns.

Based on the District's historical conservative investment and financing approach, the reduced volatility, and the marginal reduction in long-term yields, staff recommends that the Board authorize OPEB funds to be invested in CERBT Strategy 3.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

ATTACHMENTS:

December 2017 Fact Sheets



Objective

The objective of the CERBT Strategy 1 portfolio is to seek returns that reflect the broad investment performance of the financial markets through capital appreciation and investment income. There is no guarantee that the portfolio will achieve its investment objective.

Strategy

The CERBT Strategy 1 portfolio is invested in various asset classes in percentages approved by the CalPERS Board. The specific percentages of portfolio assets allocated to each asset class are shown under "Composition". Generally, equities are intended to help build the value of the employer's portfolio over the long term while bonds are intended to help provide income and stability of principal. Also, strategies invested in a higher percentage of equities seek higher investment returns (but assume more risk) compared with strategies invested in a higher percentage of bonds.

Compared with CERBT Strategy 2 and Strategy 3, this portfolio consists of a higher percentage of equities than bonds and other assets. Historically, equities have displayed greater price volatility and therefore this portfolio may experience greater fluctuation of value. Employers that seek higher investment returns, and are able to accept greater risk and tolerate more fluctuation in returns, may wish to consider this portfolio.

CalPERS Board may change the list of approved asset classes, in composition as well as targeted allocation percentages and ranges at any time.

Assets Under Management

As of the specified reporting month-end, the aggregate total of assets under management for all CERBT Strategies was

\$7,868,002,781.

Composition

Asset Class Allocations and Benchmarks

The CERBT Strategy 1 portfolio consists of the following asset classes and corresponding benchmarks:

Asset Class	Target Allocation ¹	Target Range	Benchmark
Global Equity	57%	± 2%	MSCI All Country World Index IMI (net)
Fixed Income	27%	±2%	Bloomberg Barclays Long Liability Index
Treasury Inflation-Protected Securities ("TIPS")	5%	± 2%	Bloomberg Barclays U.S. TIPS Index, Series L
Real Estate Investment Trusts ("REITs")	8%	± 2%	FTSE EPRA/NAREIT Developed Liquid Index (net)
Commodities	3%	± 2%	S&P GSCI Total Return Index

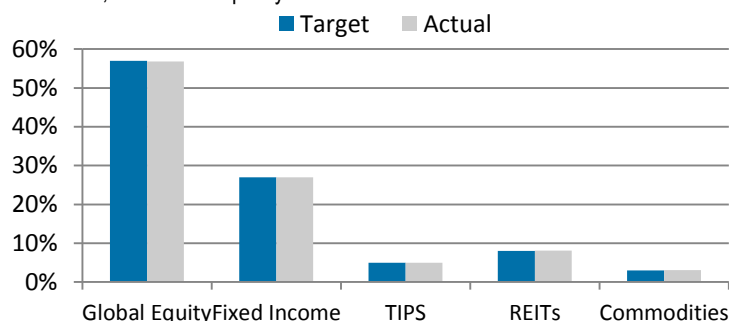
¹ Allocations approved by the Board at the October 2014 Investment Committee meeting

Portfolio Benchmark

The CERBT Strategy 1 benchmark is a composite of underlying asset class market indices, each assigned the target weight for the asset class it represents.

Target vs. Actual Asset Class Allocations

The following chart shows policy target allocations compared with actual asset allocations as of the specified reporting month-end. CalPERS may overweight or underweight an allocation to a particular asset class based on market, economic, or CalPERS policy considerations.



CERBT Strategy 1 Performance as of December 31, 2017							
	1 Month	3 Months	Fiscal YTD	1 Year	3 Years*	5 Years*	Since Inception* (June 1, 2007)
Gross Return ^{1,3}	1.53%	4.36%	8.31%	16.70%	7.11%	8.10%	5.07%
Net Return ^{2,3}	1.53%	4.34%	8.27%	16.60%	7.02%	7.99%	4.99%
Benchmark returns	1.50%	4.26%	8.13%	16.15%	6.62%	7.64%	4.60%

Performance quoted represents past performance, which is no guarantee of future results that may be achieved by the fund.

*Returns for periods greater than one year are annualized.

¹ Gross performance figures are provided net of SSGA operating expenses.

² Net Performance figures deduct all expenses to the fund, including investment management, administrative and recordkeeping fees.

³ See the Expense section of this document.

December 31, 2017

General Information

Information Accessibility

The CERBT Strategy 1 portfolio consists of assets managed internally by CalPERS and/or external advisors. Since it is not a mutual fund, a prospectus is not available nor is information available from a newspaper source. This summary is designed to provide descriptive information. CalPERS provides a quarterly statement of the employer's account and other information about the CERBT. For total market value, detailed asset allocation, investment policy and current performance information, including performance to the most recent month-end, please visit our website at: www.calpers.ca.gov.

Portfolio Manager Information

The CalPERS Investment Committee and Board of Administration directs the investment strategy and investments of the CERBT. Under that direction, CalPERS Investment staff manages fixed income, treasury inflation-protected securities and commodities assets; and State Street Global Advisors (SSGA) manages the global equity and real estate investment trust assets.

Custodian and Record Keeper

State Street Bank serves as custodian for the CERBT. Northeast Retirement Services serves as record keeper.

Expenses

CERBT is a self-funded trust in which participating employers pay for all administrative and investment expenses. Expenses reduce the gross investment return by the fee amount. The larger the fee, the greater the reduction of investment return. Currently, CERBT expenses are 0.10% which consist of administrative expenses borne by CalPERS to administer and oversee the Trust assets, investment management and administrative fees paid to SSGA to manage the global equity and real estate trust assets, and recordkeeping fees paid to Northeast Retirement Services to administer individual employer accounts. The expenses described herein are reflected in the net asset value per share. CERBT's actual expenses may differ from the amount currently being accrued due to factors such as changes in average fund assets or market conditions. The expense accrual rate may change without notice in order to reflect changes in average portfolio assets or in expense amounts. The CalPERS Board annually reviews the operating expenses and changes may be made as appropriate. Even if the portfolio loses money during a period, the fee is still charged.

What Employers Own

Each employer choosing CERBT Strategy 1 owns a percentage of this portfolio, which invests in pooled asset classes managed by CalPERS and/or external advisors. Employers do not have direct ownership of the securities in the portfolio.

Price

The value of the portfolio changes daily, based upon the market value of the underlying securities. Just as prices of individual securities fluctuate, the portfolio's value also changes with market conditions.

Principal Risks of the Portfolio

The CalPERS CERBT Fund provides California government employers with a trust through which they may prefund retiree medical costs and other post-employment benefits. CERBT is not, however, a defined benefit plan. There is no guarantee that the portfolio will achieve its investment objectives nor provide sufficient funding to meet these employer obligations. Further, CalPERS will not make up the difference between actual health care premiums for payment of future benefits provided to retirees should CERBT assets not be sufficient to cover future obligations.

An investment in the portfolio is not a bank deposit, and it is not insured nor guaranteed by the Federal Deposit Insurance Corporation (FDIC), CalPERS, the State of California or any other government agency.

There are risks associated with investing, including possible loss of principal. The portfolio's risk depends in part on the portfolio's asset class allocations and the selection, weighting and risks of the underlying investments. For more information about investment risks, please see the document entitled "CERBT Principal Investment Risks" located at www.calpers.ca.gov.

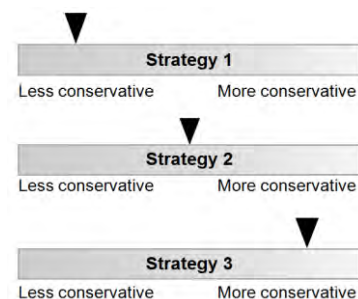
Fund Performance

Performance data shown on page 1 represents past performance and is no guarantee of future results. The investment return and principal value of an investment will fluctuate so that an employer's units, when redeemed, may be worth more or less than their original cost. Current performance may be higher or lower than historical performance data shown. For current performance information, please visit www.calpers.ca.gov and follow the links to California Employers' Retiree Benefit Trust.

CERBT Strategy Risk Levels

CalPERS offers employers the choice of one of three investment strategies. Risk levels among strategies vary, depending upon the target asset class allocations. Generally, equities carry more risk than fixed income securities.

Asset Class Target Allocations	Strategy 1	Strategy 2	Strategy 3
Global Equity	57%	40%	24%
Fixed Income	27%	39%	39%
Treasury Inflation-Protected Securities	5%	10%	26%
Real Estate Investment Trusts	8%	8%	8%
Commodities	3%	3%	3%





Objective

The objective of the CERBT Strategy 2 portfolio is to seek returns that reflect the broad investment performance of the financial markets through capital appreciation and investment income. There is no guarantee that the portfolio will achieve its investment objective.

Strategy

The CERBT Strategy 2 portfolio is invested in various asset classes in percentages approved by the CalPERS Board. The specific percentages of portfolio assets allocated to each asset class are shown under "Composition". Generally, equities are intended to help build the value of the employer's portfolio over the long term while bonds are intended to help provide income and stability of principal. Also, strategies invested in a higher percentage of equities seek higher investment returns (but assume more risk) compared with strategies invested in a higher percentage of bonds.

Compared with CERBT Strategy 1 and Strategy 3, this portfolio consists of a moderate allocation of equities, bonds, and other assets. Historically, equities have displayed greater price volatility and therefore, this portfolio may experience comparatively less fluctuation of value compared to CERBT Strategy 1 but more fluctuation of value compared to CERBT Strategy 3. Employers that seek a moderate approach to investing may wish to consider this portfolio.

CalPERS Board may change the list of approved asset classes, in composition as well as targeted allocation percentages and ranges at any time.

Assets Under Management

As of the specified reporting month-end, the aggregate total of assets under management for all CERBT Strategies was

\$7,868,002,781.

Composition

Asset Class Allocations and Benchmarks

The CERBT Strategy 2 portfolio consists of the following asset classes and corresponding benchmarks:

Asset Class	Target Allocation ¹	Target Range	Benchmark
Global Equity	40%	± 2%	MSCI All Country World Index IMI (net)
Fixed Income	39%	± 2%	Bloomberg Barclays Long Liability Index
Treasury Inflation-Protected Securities ("TIPS")	10%	± 2%	Bloomberg Barclays U.S. TIPS Index, Series L
Real Estate Investment Trusts ("REITs")	8%	± 2%	FTSE EPRA/NAREIT Developed Liquid Index (net)
Commodities	3%	± 2%	S&P GSCI Total Return Index

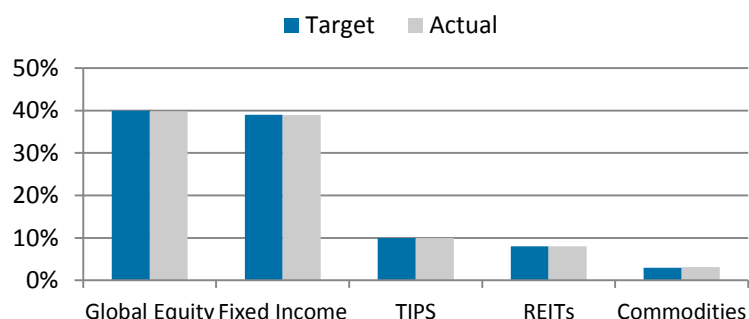
¹ Allocations approved by the Board at the October 2014 Investment Committee meeting

Portfolio Benchmark

The CERBT Strategy 2 benchmark is a composite of underlying asset class market indices, each assigned the target weight for the asset class it represents.

Target vs. Actual Asset Class Allocations

The following chart shows policy target allocations compared with actual asset allocations as of the specified reporting month-end. CalPERS may overweight or underweight an allocation to a particular asset class based on market, economic, or CalPERS policy considerations.



CERBT Strategy 2 Performance as of December 31, 2017

	1 Month	3 Months	Fiscal YTD	1 Year	3 Years*	5 Years*	Since Inception* (October 1, 2011)
Gross Return ^{1,3}	1.41%	3.60%	6.77%	13.49%	5.94%	6.52%	8.22%
Net Return ^{2,3}	1.40%	3.58%	6.72%	13.39%	5.85%	6.41%	8.10%
Benchmark returns	1.38%	3.51%	6.60%	12.94%	5.49%	6.09%	7.90%

Performance quoted represents past performance, which is no guarantee of future results that may be achieved by the fund.

*Returns for periods greater than one year are annualized.

¹ Gross performance figures are provided net of SSGA operating expenses.

² Net Performance figures deduct all expenses to the fund, including investment management, administrative and recordkeeping fees.

³ See the Expense section of this document.

General Information

Information Accessibility

The CERBT Strategy 2 portfolio consists of assets managed internally by CalPERS and/or external advisors. Since it is not a mutual fund, a prospectus is not available nor is information available from a newspaper source. This summary is designed to provide descriptive information. CalPERS provides a quarterly statement of the employer's account and other information about the CERBT. For total market value, detailed asset allocation, investment policy and current performance information, including performance to the most recent month-end, please visit our website at: www.calpers.ca.gov.

Portfolio Manager Information

The CalPERS Investment Committee and Board of Administration directs the investment strategy and investments of the CERBT. Under that direction, CalPERS Investment staff manages fixed income, treasury inflation-protected securities and commodities assets; and State Street Global Advisors (SSGA) manages the global equity and real estate investment trust assets.

Custodian and Record Keeper

State Street Bank serves as custodian for the CERBT. Northeast Retirement Services serves as record keeper.

Expenses

CERBT is a self-funded trust in which participating employers pay for all administrative and investment expenses. Expenses reduce the gross investment return by the fee amount. The larger the fee, the greater the reduction of investment return. Currently, CERBT expenses are 0.10% which consist of administrative expenses borne by CalPERS to administer and oversee the Trust assets, investment management and administrative fees paid to SSGA to manage the global equity and real estate trust assets, and recordkeeping fees paid to Northeast Retirement Services to administer individual employer accounts. The expenses described herein are reflected in the net asset value per share. CERBT's actual expenses may differ from the amount currently being accrued due to factors such as changes in average fund assets or market conditions. The expense accrual rate may change without notice in order to reflect changes in average portfolio assets or in expense amounts. The CalPERS Board annually reviews the operating expenses and changes may be made as appropriate. Even if the portfolio loses money during a period, the fee is still charged.

What Employers Own

Each employer choosing CERBT Strategy 2 owns a percentage of this portfolio, which invests in pooled asset classes managed by CalPERS and/or external advisors. Employers do not have direct ownership of the securities in the portfolio.

Price

The value of the portfolio changes daily, based upon the market value of the underlying securities. Just as prices of individual securities fluctuate, the portfolio's value also changes with market conditions.

Principal Risks of the Portfolio

The CalPERS CERBT Fund provides California government employers with a trust through which they may prefund retiree medical costs and other post-employment benefits. CERBT is not, however, a defined benefit plan. There is no guarantee that the portfolio will achieve its investment objectives nor provide sufficient funding to meet these employer obligations. Further, CalPERS will not make up the difference between actual health care premiums for payment of future benefits provided to retirees should CERBT assets not be sufficient to cover future obligations.

An investment in the portfolio is not a bank deposit, and it is not insured nor guaranteed by the Federal Deposit Insurance Corporation (FDIC), CalPERS, the State of California or any other government agency.

There are risks associated with investing, including possible loss of principal. The portfolio's risk depends in part on the portfolio's asset class allocations and the selection, weighting and risks of the underlying investments. For more information about investment risks, please see the document entitled "CERBT Principal Investment Risks" located at www.calpers.ca.gov.

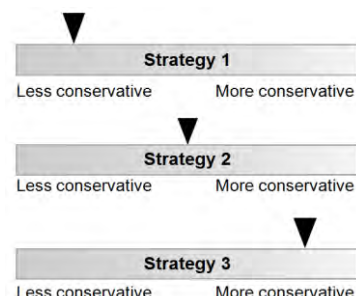
Fund Performance

Performance data shown on page 1 represents past performance and is no guarantee of future results. The investment return and principal value of an investment will fluctuate so that an employer's units, when redeemed, may be worth more or less than their original cost. Current performance may be higher or lower than historical performance data shown. For current performance information, please visit www.calpers.ca.gov and follow the links to California Employers' Retiree Benefit Trust.

CERBT Strategy Risk Levels

CalPERS offers employers the choice of one of three investment strategies. Risk levels among strategies vary, depending upon the target asset class allocations. Generally, equities carry more risk than fixed income securities.

Asset Class Target Allocations	Strategy 1	Strategy 2	Strategy 3
Global Equity	57%	40%	24%
Fixed Income	27%	39%	39%
Treasury Inflation-Protected Securities	5%	10%	26%
Real Estate Investment Trusts	8%	8%	8%
Commodities	3%	3%	3%





Objective

The objective of the CERBT Strategy 3 portfolio is to seek returns that reflect the broad investment performance of the financial markets through capital appreciation and investment income. There is no guarantee that the portfolio will achieve its investment objective.

Strategy

The CERBT Strategy 3 portfolio is invested in various asset classes in percentages approved by the CalPERS Board. The specific percentages of portfolio assets allocated to each asset class are shown under "Composition". Generally, equities are intended to help build the value of the employer's portfolio over the long term while bonds are intended to help provide income and stability of principal. Also, strategies invested in a higher percentage of equities seek higher investment returns (but assume more risk) compared with strategies invested in a higher percentage of bonds.

Compared with CERBT Strategy 1 and Strategy 2, this portfolio consists of a lower percentage of equities than bonds, and other assets. Historically, funds with a lower percentage of equities have displayed less price volatility and therefore, this portfolio may experience less fluctuation of value. Employers that seek greater stability of value, in exchange for possible lower investment returns, may wish to consider this portfolio.

CalPERS Board may change the list of approved asset classes, in composition as well as targeted allocation percentages and ranges at any time.

Assets Under Management

As of the specified reporting month-end, the aggregate total of assets under management for all CERBT Strategies was

\$7,868,002,781.

Composition

Asset Class Allocations and Benchmarks

The CERBT Strategy 3 portfolio consists of the following asset classes and corresponding benchmarks:

Asset Class	Target Allocation ¹	Target Range	Benchmark
Global Equity	24%	± 2%	MSCI All Country World Index IMI (net)
Fixed Income	39%	± 2%	Bloomberg Barclays Long Liability Index
Treasury Inflation-Protected Securities ("TIPS")	26%	± 2%	Bloomberg Barclays U.S. TIPS Index, Series L
Real Estate Investment Trusts ("REITs")	8%	± 2%	FTSE EPRA/NAREIT Developed Liquid Index (net)
Commodities	3%	± 2%	S&P GSCI Total Return Index

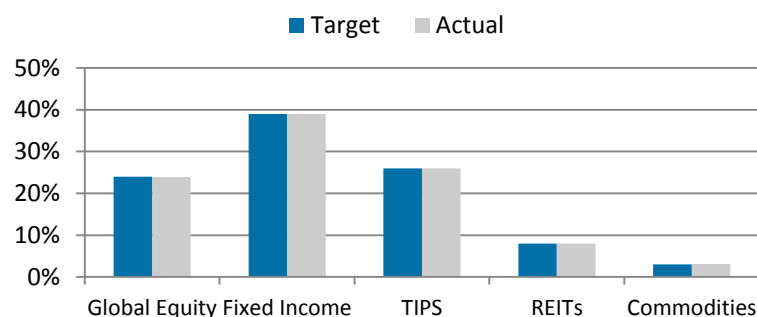
¹ Allocations approved by the Board at the October 2014 Investment Committee meeting

Portfolio Benchmark

The CERBT Strategy 3 benchmark is a composite of underlying asset class market indices, each assigned the target weight for the asset class it represents.

Target vs. Actual Asset Class Allocations

The following chart shows policy target allocations compared with actual asset allocations as of the specified reporting month-end. CalPERS may overweight or underweight an allocation to a particular asset class based on market, economic, or CalPERS policy considerations.



CERBT Strategy 3 Performance as of December 31, 2017

	1 Month	3 Months	Fiscal YTD	1 Year	3 Years*	5 Years*	Since Inception* January 1, 2012)
Gross Return ^{1,3}	1.31%	2.89%	5.30%	10.15%	4.68%	4.96%	6.06%
Net Return ^{2,3}	1.30%	2.87%	5.25%	10.06%	4.59%	4.85%	5.95%
Benchmark returns	1.27%	2.79%	5.13%	9.64%	4.28%	4.51%	5.69%

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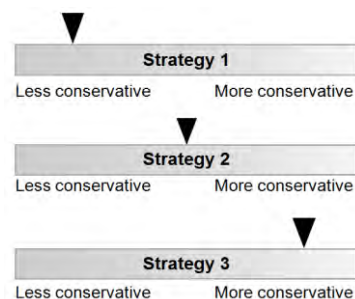
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May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : Update to Section 2-6.203 of Las Virgenes Municipal Water District Code

SUMMARY:

Staff routinely reviews policies, procedures and practices to ensure transparency and efficiency in the District's operations. As part of its on-going review, staff identified a proposed clarification to the Code related to the payment of non-discretionary regulatory fees that would align with historical practices.

RECOMMENDATION(S):

Pass, approve, and adopt Resolution No. 2535, amending Section 2-6.203 of the Las Virgenes Municipal Water District Code as it relates to approval of warrants.

RESOLUTION NO. 2535

A RESOLUTION OF THE BOARD OF DIRECTORS OF LAS VIRGENES MUNICIPAL WATER DISTRICT AMENDING RESOLUTION NO. 2468 (LAS VIRGENES) AS IT RELATES TO APPROVAL OF WARRANTS

(Reference is hereby made to Resolution No. 2535 on file in the District's Resolution Book and by this reference the same is incorporated herein.)

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

There is no financial impact associated with this action.

DISCUSSION:

On July 26, 2016, the Board adopted Resolution No. 2496, amending Title 2, Chapter 6, *Finance*, of the Code to improve operational efficiency and update the Code to reflect then-current business operations. As part of that modification, the Board exempted payments to franchised utilities from the need for additional authorization by the Board. In the course of business, the District also has various other regulatory fees that are non-discretionary and exceed the General Manager's authority of \$35,000, including payments to the State Water Resource Control Board, South Coast Air Quality Management District and California Department of Water Resources. The proposed Code update will clarify the District's practice of paying non-discretionary regulatory fees without additional authorization. Under the proposed Code modification, staff would continue to be required to obtain Board approval for discretionary fees and regulatory penalty payments.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

ATTACHMENTS:

Proposed Resolution No. 2535

RESOLUTION NO. 2535

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF LAS VIRGENES MUNICIPAL WATER DISTRICT
AMENDING RESOLUTION NO. 2468 (LAS VIRGENES CODE)
AS IT RELATES TO APPROVAL OF WARRANTS**

**BE IT RESOLVED BY THE BOARD OF DIRECTORS OF LAS VIRGENES
MUNICIPAL WATER DISTRICT as follows:**

Section 1. Purpose.

This resolution adopts the revised Las Virgenes Municipal Water District Code Title 2, Chapter 6, Article 2, Section 203.

Section 2. Amendment.

Section 2-6.203 of Resolution No. 2468 (Las Virgenes Code) is amended and reenacted as follows:

"2-6.203 APPROVAL OF WARRANTS

The Board shall routinely receive and file a record all warrants and checks in payment thereof. Warrants and checks included in the report will be authorized in accordance with Article 4 or other Board action. Payments to franchised utility companies and for regulatory fees paid to governmental agencies are not subject to additional authorization."

Section 3. Other.

Except as provided herein, Resolution No. 2468 (Administrative Code) is hereby reaffirmed and readopted.

PASSED, APPROVED AND ADOPTED on _____, 2018.

President

ATTEST

Secretary

APPROVED AS TO FORM:

District Counsel

INFORMATION ONLY

May 22, 2018 LVMWD Regular Board Meeting

TO: Board of Directors

FROM: Finance & Administration

Subject : GFOA Certificate of Achievement for Excellence in Financial Reporting

SUMMARY:

The Government Finance Officers Association of the United States and Canada (GFOA) presented the District with a Certificate of Achievement for Excellence in Financial Reporting for its fiscal year ended June 30, 2017. The certificate is provided to agencies that fulfill the requirements of the programs and demonstrate a commitment to the highest standards of government finance.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

DISCUSSION:

The District's Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2017 was awarded the Certificate of Achievement for Excellence in Financial Reporting by the GFOA. This represents the 19th straight year the District has received the award. The Certificate of Achievement for Excellence in Financial Reporting is the highest form of recognition for excellence in state and local government financial reporting. In order to be awarded a Certificate of Achievement, a government agency must publish an easily readable and efficiently organized comprehensive annual financial report. The report must satisfy both Generally Accepted Accounting Principles and applicable legal requirements.

The GFOA established the Certificate of Achievement for Excellence in Financial Reporting (CAFR Program) in 1945 to encourage and assist state and local governments to go beyond

the minimum requirements of Generally Accepted Accounting Principles and to prepare CAFRs that evidence the spirit of transparency and full disclosure.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Donald Patterson, Director of Finance and Administration

ATTACHMENTS:

CAFR Award



Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

**Las Virgenes Municipal Water District
California**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2017

Christopher P. Morill

Executive Director/CEO