

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

REGULAR MEETING OF THE BOARD OF DIRECTORS

Tuesday, July 12, 2016 - 7:00 p.m.

AGENDA

The Coastside County Water District (CCWD) does not discriminate against persons with disabilities. Upon request, the agenda and agenda packet materials can be provided in a format to accommodate special needs. If you require a copy of the agenda or related materials in an alternative format to accommodate a disability, or if you wish to attend this public meeting and will require special assistance or other special equipment, please call the District at (650) 726-4405 in advance and we will make every reasonable attempt to provide such an accommodation.

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the CCWD District Office, located at 766 Main Street, Half Moon Bay, CA at the same time that the public records are distributed or made available to the legislative body.

This agenda and accompanying materials can be viewed on Coastside County Water District's website located at: www.coastsidewater.org.

The Board of the Coastside County Water District reserves the right to take action on any item included on this agenda.

- 1) ROLL CALL
- 2) PLEDGE OF ALLEGIANCE
- 3) PUBLIC COMMENT

At this time members of the public may address the Board of Directors on issues not listed on the agenda which are within the purview of the Coastside County Water District. Comments on matters that are listed on the agenda may be made at the time the Board is considering each item. Each speaker is allowed a maximum of three (3) minutes and must complete and submit a speaker slip. The President of the Board will recognize each speaker, at which time the speaker should proceed to the podium, give their name and address and provide their comments to the Board.

4) CONSENT CALENDAR

The following matters before the Board of Directors are recommended for action as stated by the General Manager. All matters listed hereunder constitute a Consent Calendar, are considered as routine by the Board of Directors, and will be acted upon by a single vote of the Board. There will be no separate discussion of these items unless a member of the Board so requests, in which event the matter shall be removed from the Consent Calendar and considered as a separate item.

- A. Approval of disbursements for the month ending June 30, 2016:
Claims: \$752,166.57; Payroll: \$84,197.87 for a total of \$836,364.44 ([attachment](#))
 - *June 2016 Monthly Financial Claims reviewed by Director Coverdell*
- B. Acceptance of Financial Reports ([attachment](#))
- C. Approval of Minutes of June 14, 2016 Regular Board of Directors Meeting ([attachment](#))
- D. Approval of Minutes of June 30, 2016 Special Board of Directors Meeting ([attachment](#))
- E. Monthly Water Transfer Report ([attachment](#))
- F. Installed Water Connection Capacity and Water Meters Report ([attachment](#))
- G. Total CCWD Production Report ([attachment](#))
- H. CCWD Monthly Sales by Category Report – June 2016 ([attachment](#))
- I. Monthly Emergency Main & Service Repairs Report and Water Line Flushing Report ([attachment](#))
- J. Rainfall Reports ([attachment](#))

5) MEETINGS ATTENDED / DIRECTOR COMMENTS

6) GENERAL BUSINESS

- A. Award of Contract – El Granada Tank 3 Recoating Project ([attachment](#))
- B. Fiscal Year 2015-2016 Year End – Preliminary Financial Results ([attachment](#))
- C. Amended and Restated Drought Ordinance 2016-01 ([attachment](#))
- D. Meter Change and Advanced Metering Infrastructure Projects ([attachment](#))
- E. Proposed Revisions to Policies and Procedures for Award of Contracts ([attachment](#))
- F. Resolution Requiring Even-Numbered Year Elections for the Board of Directors ([attachment](#))
- G. Approval of Class Specifications for Customer Service Technician and Administrative Services Manager positions; Approval of Salary Schedule ([attachment](#))
- H. Consider approval of Resolution Establishing Appropriations Limit Applicable to District during Fiscal year 2016-2017 ([attachment](#))
- I. Approval of Water Service Agreement – Stoloski Subdivision Project ([attachment](#))
- J. Approval of Water Service Agreement – Churchside Court Subdivision ([attachment](#))

- 7) **GENERAL MANAGER'S REPORT AND MONTHLY INFORMATIONAL REPORTS**
([attachment](#))
 - A. Operations Report ([attachment](#))

- 8) **DIRECTOR AGENDA ITEMS - REQUESTS FOR FUTURE BOARD MEETINGS**

- 9) **ADJOURNMENT**

**COASTSIDE COUNTY WATER DISTRICT
CLAIMS FOR JUNE 2016**

<u>CHECK DATE</u>	<u>CHECK NO.</u>	<u>VENDOR</u>	<u>VOID CHECK</u>	<u>AMOUNT</u>
06/03/2016	22839	AM CONSERVATION GROUP		\$1,338.95
06/03/2016	22840	BFI OF CALIFORNIA, INC.		\$566.81
06/03/2016	22841	CHEVRON/TEXACO UNIVERSAL CARD		\$1,409.45
06/03/2016	22842	COMCAST		\$191.95
06/03/2016	22843	FIRST NATIONAL BANK		\$1,823.14
06/03/2016	22844	HANSONBRIDGETT. LLP		\$9,830.10
06/03/2016	22845	HASSETT HARDWARE		\$682.94
06/03/2016	22846	GLENNA LOMBARDI		\$107.00
06/03/2016	22847	MASS MUTUAL FINANCIAL GROUP		\$2,195.65
06/03/2016	22848	PACIFIC GAS & ELECTRIC CO.		\$6,942.12
06/03/2016	22849	PUB. EMP. RETIRE SYSTEM		\$12,760.97
06/03/2016	22850	REPUBLIC SERVICES		\$364.57
06/03/2016	22851	JAMES TETER		\$22,384.80
06/03/2016	22852	VALIC		\$4,190.00
06/03/2016	22853	VERIZON WIRELESS		\$1,170.59
06/15/2016	22854	JOHN HENRY		\$155.49
06/15/2016	22855	JOHN HENRY		\$47.45
06/17/2016	22856	HEALTH BENEFITS ACWA-JPIA		\$25,640.35
06/17/2016	22857	AT&T		\$2,768.92
06/17/2016	22858	AT&T LONG DISTANCE		\$87.19
06/17/2016	22859	ETS CORPORATION		\$608.99
06/17/2016	22860	HALF MOON BAY REVIEW		\$230.00
06/17/2016	22861	HALF MOON BAY POSTMASTER		\$3,000.00
06/17/2016	22862	INTERNATIONAL CITY MGMT ASSOC RETIREMENT CORP		\$32,400.00
06/17/2016	22863	JACK HENRY & ASSOCIATES, INC.		\$2,008.50
06/17/2016	22864	KOFFLER ELECTRICAL MECHANICAL APPARATUS REPAIR		\$5,918.24
06/17/2016	22865	MASS MUTUAL FINANCIAL GROUP		\$2,195.65
06/17/2016	22866	PUB. EMP. RETIRE SYSTEM		\$12,766.73
06/17/2016	22867	CaPERS FISCAL SERVICES DIVISION		\$23,148.00
06/17/2016	22868	SAN FRANCISCO WATER DEPT.		\$198,327.20
06/17/2016	22869	STATE WATER RESOURCES CONTROL BD		\$60.00
06/17/2016	22870	TEAMSTERS LOCAL UNION #856		\$973.00
06/17/2016	22871	US TELEPACIFIC CORPORATION		\$1,779.46
06/17/2016	22872	VALIC		\$4,190.00
06/17/2016	22873	VULCAN MATERIALS COMPANY		\$1,234.59
06/17/2016	22874	RAYMOND WINCH		\$300.00
06/27/2016	22875	ADP, INC.		\$620.55
06/27/2016	22876	FRANK YAMELLO		\$235.00
06/27/2016	22877	ANDREINI BROS. INC.		\$7,909.00
06/27/2016	22878	AZTEC GARDENS, INC.		\$190.00
06/27/2016	22879	BALANCE HYDROLOGICS, INC		\$16,656.80
06/27/2016	22880	BARTKIEWICZ, KRONICK & SHANAHAN		\$2,083.04
06/27/2016	22881	BARKERBLUE		\$115.30
06/27/2016	22882	BAY ALARM COMPANY		\$669.78
06/27/2016	22883	BFI OF CALIFORNIA, INC.		\$1,374.62
06/27/2016	22884	BONGARD'S TREESCAPE NURSERY		\$108.91
06/27/2016	22885	BORGES & MAHONEY, INC.		\$787.01
06/27/2016	22886	DAVID PEREIRA	VOID	\$0.00
06/27/2016	22887	CALCON SYSTEMS, INC.		\$4,153.50
06/27/2016	22888	CAROLYN STANFIELD		\$600.00
06/27/2016	22889	REGISTER TAPES UNLIMITED, INC.		\$450.00
06/27/2016	22890	CHEVRON/TEXACO UNIVERSAL CARD		\$1,449.97
06/27/2016	22891	CINTAS FIRST AID & SAFETY		\$183.35
06/27/2016	22892	COASTSIDE COUNTY WATER DIST.		\$157.71
06/27/2016	22893	RECORDER'S OFFICE		\$24.00
06/27/2016	22894	SEAN DONOVAN	VOID	\$0.00
06/27/2016	22895	EKI INC.		\$41,898.51
06/27/2016	22896	ELECSYS INTERNATIONAL CORP		\$250.00
06/27/2016	22897	FREYER & LAURETA, INC.		\$2,020.00

06/27/2016	22898	GARCIA AND ASSOCIATES	\$148.50
06/27/2016	22899	GRAINGER, INC.	\$372.81
06/27/2016	22900	HACH CO., INC.	\$630.82
06/27/2016	22901	HMB BLDG. & GARDEN INC.	\$377.47
06/27/2016	22902	HALF MOON BAY REVIEW	\$1,500.00
06/27/2016	22903	H.M.B.AUTO PARTS	\$429.13
06/27/2016	22904	HANSONBRIDGETT. LLP	\$17,002.30
06/27/2016	22905	HF&H CONSULTANTS, LLC	\$10,973.90
06/27/2016	22906	HOWARD E. HUTCHING CO. INC.	\$1,076.85
06/27/2016	22907	HYDROSCIENCE ENGINEERS, INC.	\$3,525.00
06/27/2016	22908	IRON MOUNTAIN	\$523.81
06/27/2016	22909	IRVINE CONSULTING SERVICES, INC.	\$2,427.68
06/27/2016	22910	IRVINE CONSULTING SERVICES, INC.	\$65.00
06/27/2016	22911	JOHN BARBER	\$480.00
06/27/2016	22912	GLENNA LOMBARDI	\$107.00
06/27/2016	22913	METLIFE GROUP BENEFITS	\$1,732.23
06/27/2016	22914	MISSION UNIFORM SERVICES INC.	\$205.48
06/27/2016	22915	MONTEREY COUNTY LAB	\$2,470.00
06/27/2016	22916	NATIONAL METER & AUTOMATION	\$3,331.48
06/27/2016	22917	NORTHSTAR CHEMICAL	\$2,757.30
06/27/2016	22918	OFFICE DEPOT	\$905.54
06/27/2016	22919	ONTRAC	\$493.31
06/27/2016	22920	PACIFICA COMMUNITY TV	\$250.00
06/27/2016	22921	PITNEY BOWES	\$215.82
06/27/2016	22922	POLLARDWATER.COM	\$226.16
06/27/2016	22923	PSI-PROCESS SOLUTIONS, INC	\$2,932.05
06/27/2016	22924	PUMP REPAIR SERVICE CO. INC.	\$11,250.40
06/27/2016	22925	RICOH USA, INC.	\$329.00
06/27/2016	22926	RICOH USA INC	\$529.44
06/27/2016	22927	ROBERTS & BRUNE CO.	\$1,982.25
06/27/2016	22928	ROGUE WEB WORKS, LLC	\$539.50
06/27/2016	22929	SAN MATEO CTY PUBLIC HEALTH LAB	\$680.00
06/27/2016	22930	SERVICE PRESS	\$168.01
06/27/2016	22931	SOUTHWEST VALVE, LLC	\$5,396.40
06/27/2016	22932	STOLOSKI & GONZALEZ, INC.	\$149,088.73
06/27/2016	22933	STRAWFLOWER ELECTRONICS	\$185.30
06/27/2016	22934	JAMES TETER	\$8,430.61
06/27/2016	22935	TYLER TECHNOLOGIES, INC	\$1,507.50
06/27/2016	22936	UNIVAR USA INC	\$538.65
06/27/2016	22937	UPS STORE	\$111.62
06/27/2016	22938	VERIZON WIRELESS	\$615.11
06/27/2016	22939	WEST YOST ASSOCIATES, INC	\$5,813.00
06/24/2016	22940	STOLOSKI & GONZALEZ INC.	\$950.41
06/23/2016	22941	ALI AHI	\$25.84
06/23/2016	22942	LIZARDO HARO	\$24.52
06/10/2016	22943	SHANNON BRUTON	\$8.31
06/10/2016	22944	JESSI FORMOE	\$10.09
6/27/2016	22945	SANDY GAUTHIER YOUNG	\$4.92
06/30/2016	22946	AZTEC GARDENS, INC.	\$190.00
06/30/2016	22947	DAVID PEREIRA	\$651.60
06/30/2016	22948	COAST TRANSMISSIONS	\$2,845.27
06/30/2016	22949	RECORDER'S OFFICE	\$24.00
06/30/2016	22950	JOHN DAVIS	\$294.28
06/30/2016	22951	SEAN DONOVAN	\$35.45
06/30/2016	22952	ELDORADO FORKLIFT COMPANY	\$420.74
06/30/2016	22953	FIRST NATIONAL BANK	\$1,021.77
06/30/2016	22954	DUSTIN JAHNS	\$297.66
06/30/2016	22955	KINGS MOUNTAIN ARBOR HEALTH & SAFETY	\$6,850.00
06/30/2016	22956	MASS MUTUAL FINANCIAL GROUP	\$2,195.65
06/30/2016	22957	ONTRAC	\$99.41
06/30/2016	22958	PUB. EMP. RETIRE SYSTEM	\$12,760.97
06/30/2016	22959	ROBERTS & BRUNE CO.	\$6,462.27
06/30/2016	22960	SERVICE PRESS	\$348.83

06/30/2016	22961	VALIC	\$4,240.00
06/30/2016	22962	BOSCO OIL COMPANY	\$200.56
06/30/2016	22963	VERIZON WIRELESS	\$40.01
06/30/2016	22964	WEST YOST ASSOCIATES, INC	\$4,103.00
			<hr/>
			<u>\$752,166.57</u>



Coastside County Water District

Monthly Budget Report Account Summary

For Fiscal: 2015-2016 Period Ending: 06/30/2016

	June Budget	June Activity	Variance Favorable (Unfavorable)	% Variance	YTD Budget	YTD Activity	Variance Favorable (Unfavorable)	% Variance	Total Budget	
Revenue										
RevType: 1 - Operating										
1-4120-00	Water Revenue	907,928.00	1,105,690.61	197,762.61	21.78 %	9,863,916.00	9,455,013.28	-408,902.72	-4.15 %	9,863,916.00
	Total RevType: 1 - Operating:	907,928.00	1,105,690.61	197,762.61	21.78 %	9,863,916.00	9,455,013.28	-408,902.72	-4.15 %	9,863,916.00
RevType: 2 - Non-Operating										
1-4170-00	Water Taken From Hydrants	3,333.37	4,824.23	1,490.86	44.73 %	40,000.00	79,985.92	39,985.92	99.96 %	40,000.00
1-4180-00	Late Notice - 10% Penalty	7,500.00	4,553.50	-2,946.50	-39.29 %	90,000.00	60,652.39	-29,347.61	-32.61 %	90,000.00
1-4230-00	Service Connections	837.00	1,560.01	723.01	86.38 %	10,000.00	16,192.70	6,192.70	61.93 %	10,000.00
1-4920-00	Interest Earned	0.00	0.00	0.00	0.00 %	2,550.00	3,595.17	1,045.17	40.99 %	2,550.00
1-4930-00	Tax Apportionments/County Checks	0.00	64,001.54	64,001.54	0.00 %	600,000.00	776,795.15	176,795.15	29.47 %	600,000.00
1-4950-00	Miscellaneous Income	3,087.00	0.00	-3,087.00	-100.00 %	37,000.00	25,202.87	-11,797.13	-31.88 %	37,000.00
1-4955-00	Cell Site Lease Income	11,603.75	12,129.09	525.34	4.53 %	139,245.00	143,804.22	4,559.22	3.27 %	139,245.00
1-4965-00	ERAF Refund - County Taxes	0.00	0.00	0.00	0.00 %	200,000.00	325,710.11	125,710.11	62.86 %	200,000.00
	Total RevType: 2 - Non-Operating:	26,361.12	87,068.37	60,707.25	230.29 %	1,118,795.00	1,431,938.53	313,143.53	27.99 %	1,118,795.00
	Total Revenue:	934,289.12	1,192,758.98	258,469.86	27.66 %	10,982,711.00	10,886,951.81	-95,759.19	-0.87 %	10,982,711.00
Expense										
ExpType: 1 - Operating										
1-5130-00	Water Purchased	299,930.00	247,943.20	51,986.80	17.33 %	2,871,947.00	2,382,768.96	489,178.04	17.03 %	2,871,947.00
1-5230-00	Nunes T P Pump Expense	2,462.00	2,500.00	-38.00	-1.54 %	29,500.00	27,845.97	1,654.03	5.61 %	29,500.00
1-5231-00	CSP Pump Station Pump Expense	40,903.00	35,000.00	5,903.00	14.43 %	307,052.00	283,856.56	23,195.44	7.55 %	307,052.00
1-5232-00	Other Trans. & Dist Pump Expense	1,063.00	1,000.00	63.00	5.93 %	12,800.00	16,921.61	-4,121.61	-32.20 %	12,800.00
1-5233-00	Pilarcitos Canyon Pump Expense	188.00	146.09	41.91	22.29 %	18,000.00	38,643.67	-20,643.67	-114.69 %	18,000.00
1-5234-00	Denniston T P Pump Expense	7,093.00	4,000.00	3,093.00	43.61 %	90,100.00	51,813.18	38,286.82	42.49 %	90,100.00
1-5242-00	CSP Pump Station Operations	709.00	740.41	-31.41	-4.43 %	8,500.00	9,612.79	-1,112.79	-13.09 %	8,500.00
1-5243-00	CSP Pump Station Maintenance	3,083.37	1,418.85	1,664.52	53.98 %	37,000.00	7,768.49	29,231.51	79.00 %	37,000.00
1-5246-00	Nunes T P Operations - General	5,305.00	4,699.52	605.48	11.41 %	52,764.00	54,903.84	-2,139.84	-4.06 %	52,764.00
1-5247-00	Nunes T P Maintenance	4,625.00	19,490.21	-14,865.21	-321.41 %	55,500.00	79,695.04	-24,195.04	-43.59 %	55,500.00
1-5248-00	Denniston T P Operations-General	2,360.00	2,650.96	-290.96	-12.33 %	30,000.00	30,937.84	-937.84	-3.13 %	30,000.00
1-5249-00	Denniston T.P. Maintenance	2,663.00	6,080.02	-3,417.02	-128.31 %	32,000.00	39,020.96	-7,020.96	-21.94 %	32,000.00
1-5250-00	Laboratory Expenses	3,334.00	7,901.81	-4,567.81	-137.01 %	40,000.00	56,545.61	-16,545.61	-41.36 %	40,000.00
1-5260-00	Maintenance - General	22,375.00	39,017.22	-16,642.22	-74.38 %	268,500.00	229,985.66	38,514.34	14.34 %	268,500.00
1-5261-00	Maintenance - Well Fields	0.00	9,042.40	-9,042.40	0.00 %	40,000.00	39,849.60	150.40	0.38 %	40,000.00
1-5261-40	Denniston Well Fields	0.00	0.00	0.00	0.00 %	0.00	22,120.50	-22,120.50	0.00 %	0.00
1-5263-00	Uniforms	0.00	0.00	0.00	0.00 %	0.00	5,318.53	-5,318.53	0.00 %	0.00
1-5318-00	Studies/Surveys/Consulting	20,000.00	30,889.90	-10,889.90	-54.45 %	240,000.00	177,934.99	62,065.01	25.86 %	240,000.00

Monthly Budget Report

For Fiscal: 2015-2016 Period Ending: 06/30/2016

	June Budget	June Activity	Variance Favorable (Unfavorable)	% Variance	YTD Budget	YTD Activity	Variance Favorable (Unfavorable)	% Variance	Total Budget
1-5321-00 Water Resources	3,083.37	487.04	2,596.33	84.20 %	37,000.00	43,114.61	-6,114.61	-16.53 %	37,000.00
1-5322-00 Community Outreach	7,925.00	17,775.00	-9,850.00	-124.29 %	95,100.00	35,856.66	59,243.34	62.30 %	95,100.00
1-5381-00 Legal	5,000.00	39,085.34	-34,085.34	-681.71 %	60,000.00	113,210.14	-53,210.14	-88.68 %	60,000.00
1-5382-00 Engineering	1,166.74	4,288.00	-3,121.26	-267.52 %	14,000.00	14,344.79	-344.79	-2.46 %	14,000.00
1-5383-00 Financial Services	0.00	7,020.00	-7,020.00	0.00 %	24,000.00	16,380.00	7,620.00	31.75 %	24,000.00
1-5384-00 Computer Services	8,650.00	10,585.43	-1,935.43	-22.37 %	103,800.00	84,106.66	19,693.34	18.97 %	103,800.00
1-5410-00 Salaries/Wages-Administration	81,675.44	68,054.82	13,620.62	16.68 %	1,061,780.00	897,443.44	164,336.56	15.48 %	1,061,780.00
1-5411-00 Salaries & Wages - Field	86,038.96	81,229.98	4,808.98	5.59 %	1,118,506.00	1,097,998.76	20,507.24	1.83 %	1,118,506.00
1-5420-00 Payroll Tax Expense	11,773.63	11,429.85	343.78	2.92 %	153,056.00	142,940.19	10,115.81	6.61 %	153,056.00
1-5435-00 Employee Medical Insurance	43,954.75	40,911.25	3,043.50	6.92 %	527,457.00	453,136.92	74,320.08	14.09 %	527,457.00
1-5436-00 Retiree Medical Insurance	0.00	3,244.66	-3,244.66	0.00 %	0.00	28,443.24	-28,443.24	0.00 %	0.00
1-5440-00 Employees Retirement Plan	38,870.96	52,544.07	-13,673.11	-35.18 %	505,322.00	496,896.35	8,425.65	1.67 %	505,322.00
1-5445-00 Supplemental Retirement 401a	30,000.00	32,400.00	-2,400.00	-8.00 %	30,000.00	32,400.00	-2,400.00	-8.00 %	30,000.00
1-5510-00 Motor Vehicle Expense	4,635.00	3,666.39	968.61	20.90 %	55,650.00	45,084.45	10,565.55	18.99 %	55,650.00
1-5620-00 Office Supplies & Expense	13,706.25	16,213.00	-2,506.75	-18.29 %	164,475.00	197,267.50	-32,792.50	-19.94 %	164,475.00
1-5625-00 Meetings / Training / Seminars	2,000.00	585.02	1,414.98	70.75 %	24,000.00	16,097.79	7,902.21	32.93 %	24,000.00
1-5630-00 Insurance	6,250.00	16,633.52	-10,383.52	-166.14 %	115,000.00	109,288.48	5,711.52	4.97 %	115,000.00
1-5687-00 Membership, Dues, Subscript.	5,940.87	145.80	5,795.07	97.55 %	71,290.00	58,401.07	12,888.93	18.08 %	71,290.00
1-5688-00 Election Expenses	0.00	0.00	0.00	0.00 %	25,000.00	0.00	25,000.00	100.00 %	25,000.00
1-5689-00 Labor Relations	500.00	0.00	500.00	100.00 %	6,000.00	0.00	6,000.00	100.00 %	6,000.00
1-5700-00 San Mateo County Fees	1,475.00	0.00	1,475.00	100.00 %	17,700.00	16,984.84	715.16	4.04 %	17,700.00
1-5705-00 State Fees	1,333.37	0.00	1,333.37	100.00 %	16,000.00	15,770.86	229.14	1.43 %	16,000.00
Total ExpType: 1 - Operating:	770,072.71	818,819.76	-48,747.05	-6.33 %	8,358,799.00	7,470,710.55	888,088.45	10.62 %	8,358,799.00
ExpType: 4 - Capital Related									
1-5712-00 Debt Service/Existing Bonds 2006B	0.00	0.00	0.00	0.00 %	485,889.00	482,491.78	3,397.22	0.70 %	485,889.00
1-5715-00 Debt Service/CIEDB 11-099	0.00	0.00	0.00	0.00 %	338,024.00	336,545.79	1,478.21	0.44 %	338,024.00
1-5716-00 Debt Service/CIEDB 2016	0.00	0.00	0.00	0.00 %	0.00	56,280.00	-56,280.00	0.00 %	0.00
Total ExpType: 4 - Capital Related:	0.00	0.00	0.00	0.00 %	823,913.00	875,317.57	-51,404.57	-6.24 %	823,913.00
Total Expense:	770,072.71	818,819.76	-48,747.05	-6.33 %	9,182,712.00	8,346,028.12	836,683.88	9.11 %	9,182,712.00
Report Total:	164,216.41	373,939.22	209,722.81		1,799,999.00	2,540,923.69	740,924.69		1,799,999.00

**COASTSIDE COUNTY WATER DISTRICT
MONTHLY INVESTMENT REPORT
June 30, 2016**

RESERVE BALANCES

CAPITAL AND OPERATING RESERVE	\$2,451,060.52
RATE STABILIZATION RESERVE	\$250,000.00
TOTAL DISTRICT RESERVES	\$2,701,060.52

ACCOUNT DETAIL

ACCOUNTS WITH FIRST NATIONAL BANK (FNB)	
CHECKING ACCOUNT	\$826,369.10
CSP T & S ACCOUNT	\$849,583.88
LOCAL AGENCY INVESTMENT FUND (LAIF) BALANCE	\$1,024,407.54
DISTRICT CASH ON HAND	\$700.00
TOTAL ACCOUNT BALANCES	\$2,701,060.52

This report is in conformity with CCWD's Investment Policy.

**COASTSIDE COUNTY WATER DISTRICT
APPROVED CAPITAL IMPROVEMENT PROJECTS
FISCAL YEAR 2015-2016**

6/30/2016

Approved CIP Budget FY 15/16	Actual To Date FY 15/16	Projected Year-End FY 15/16*	Variance vs. Budget	% Completed	Project Status/ Comments
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Equipment Purchases & Replacement

06-03	SCADA/Telemetry/Electrical Controls Replacement	\$ 150,000	\$ 173,412	\$ 200,000	\$ (50,000)	116%	In progress
16-06	Portable Work Lights	\$ 6,000	\$ 9,208	\$ 9,208	\$ (3,208)	153%	Complete
99-02	Vehicle Replacement	\$ 30,000			\$ 30,000	0%	Ordered - will arrive in July-August 2016
99-03	Computer Systems	\$ 5,000	\$ 3,886	\$ 3,886	\$ 1,114	78%	
99-04	Office Equipment/Furniture	\$ 3,000	\$ 6,976	\$ 6,976	\$ (3,976)	233%	

Facilities & Maintenance

08-08	PRV Valves Replacement Project	\$ 30,000	\$ 49,246	\$ 49,246	\$ (19,246)	164%	Replaced two PRV's instead of one
09-09	Fire Hydrant Replacement	\$ 20,000	\$ 17,113	\$ 17,113	\$ 2,887	86%	Complete for FY16
09-23	District Digital Mapping	\$ 10,000		\$ -	\$ 10,000	0%	
14-11	Replace 2" and Larger Meters with Omni Meters	\$ 30,000		\$ -	\$ 30,000	0%	Acquired under 99-01 below
15-01	Utility Billing Software Upgrade	\$ 150,000	\$ 122,621	\$ 130,000	\$ 20,000	82%	Software transition largely complete; some open items to be continue in June-July 2016
99-01	Meter Change Program	\$ 10,000	\$ 56,424	\$ 56,424	\$ (46,424)	564%	

Pipeline Projects

07-03	Pilarcitos Canyon Pipeline Replacement	\$ 100,000	\$ 16,278	\$ 16,278	\$ 83,722	16%	Evaluating design
10-01	El Granada Pipeline Final Phase Replacement Project	\$ 2,000,000	\$ 946,626	\$ 981,239	\$ 1,018,761	47%	Completed June 2016
14-01	Replace 12" Welded Steel Line on Hwy 92 with 8" DI	\$ 300,000		\$ -	\$ 300,000		Project moved to FY 17/18
16-09	Slipline 10-inch Pipeline in Magellan at Hwy 1	\$ 100,000	\$ 12,098	\$ 12,098	\$ 87,902	12%	Project moved to FY 18/19

Pump Stations / Tanks / Wells

06-04	Hazen's Tank Replacement	\$ 300,000	\$ 702	\$ 702	\$ 299,298	0%	Project moved to FY 16/17
13-11	EG Tank #1 & Tank #2 Emergency Generators	\$ 75,000	\$ 9,355	\$ 15,000	\$ 60,000	12%	Award of contract to occur at 6/2016 board meeting

Water Supply Development

10-02	Denniston Pump Station & Pipeline Project (formerly Bridgeport Drive Pipeline Replacement Project)	\$ 110,000	\$ 358,844	\$ 375,000	\$ (265,000)		FY16/17 Project - Out to bid
12-04	Denniston Treated Water Booster Station	\$ 200,000			\$ 200,000		See above line. This project is combined with 10-02.
12-12	San Vicente Diversion & Pipeline	\$ 300,000		\$ -	\$ 300,000		Waiting for SWRCB time extension approval
14-24	Denniston/San Vicente EIR & Permitting	\$ 50,000	\$ 68,365	\$ 68,365	\$ (18,365)		
14-25	Water Shortage Plan Development	\$ 100,000		\$ -	\$ 100,000	0%	Removed from CIP

* Note: Projected Year-end FY 15/16 - includes estimates for invoices not yet received

**COASTSIDE COUNTY WATER DISTRICT
APPROVED CAPITAL IMPROVEMENT PROJECTS
FISCAL YEAR 2015-2016**

6/30/2016

Approved CIP Budget FY 15/16	Actual To Date FY 15/16	Projected Year-End FY 15/16*	Variance vs. Budget	% Completed	Project Status/ Comments
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Water Treatment Plants

16-01	Denniston WTP Coag Tank Motor Operated Valve	\$ 10,000	\$ 6,119	\$ 6,119	\$ 3,881	61%	Completed
16-02	Denniston WTP Filter Repairs	\$ 110,000	\$ 94,509	\$ 94,509	\$ 15,491	86%	Completed
16-03	Denniston WTP Filter Flow Meter Replacement	\$ 10,000			\$ 10,000	0%	Project moved to FY 16/17
16-04	Denniston WTP Pond Return Pump	\$ 25,000		\$ -	\$ 25,000	0%	Project not needed
16-05	Nunes Filter Valve Repairs & Replacements	\$ 15,000	\$ 2,778	\$ 2,778	\$ 12,222	19%	
99-05	Denniston Maintenance Dredging	\$ 35,000		\$ -	\$ 35,000	0%	Will not dredge this year

FY 15/16 TOTALS \$ 4,284,000 \$ 1,954,559 \$ 2,044,941 \$ 2,239,059

Previous CIP Projects - paid in FY 15/16

	Sand for Nunes Drying Bed		\$ 29,680	\$ 29,680			
	Pilarcitos Road Improvement 2014		\$ 19,706	\$ 20,000			
	Admin Building Repair/Remodel Project		\$ 80,809	\$ 80,809			Completed, Retention Paid

PREVIOUS YEAR TOTALS \$ - \$ 130,194 \$ 130,488 \$ (130,488) In Progress

UNSCHEDULED ITEMS (CAPITAL EXPENDITURES) FOR CURRENT FISCAL YEAR 15/16

	Ventura/Washington Pipeline Replacement Project		\$ 437,427	\$ 437,427			Completed, Retention Paid
	Water Recycling		\$ 51,743	\$ 51,743			
	Valve for Nunes Filter #3		\$ 5,133	\$ 5,133			
	New Fence for District Office		\$ 9,889	\$ 9,889			Completed
	Denniston Dam Repair		\$ 9,532	\$ 9,532			
	Replace 8 inch Pipeline Under Creek at Pilarcitos Avenue		\$ 14,158	\$ 14,158			
	New Valves for Nunes Surface Wash		\$ 1,227	\$ 1,227			
	Water Softener for Denniston Treatment Plant		\$ 2,495	\$ 2,495			
	Slip Lining - Near LaNebbia Winery		\$ 21,016	\$ 21,016			
	Avenue Cabrillo Phase 3B		\$ 9,835	\$ 9,835			
	Hydraulic Model Update and Analysis		\$ 99	\$ 99			
	El Granada Tank No. 3 - Recoating Project		\$ 1,229	\$ 1,229			
	Pilarcitos Creek Bridge Pipeline Replacement		\$ 7,845	\$ 7,845			
	Mixers for El Granada Tanks			\$ 22,000			

* Note: Projected Year-end FY 15/16 - includes estimates for invoices not yet received

COASTSIDE COUNTY WATER DISTRICT
 APPROVED CAPITAL IMPROVEMENT PROJECTS
 FISCAL YEAR 2015-2016

6/30/2016

	Approved CIP Budget FY 15/16	Actual To Date FY 15/16	Projected Year-End FY 15/16*	Variance vs. Budget	% Completed	Project Status/ Comments
Wavecrest Road Pipeline Replacment/Extension		\$ 3,090	\$ 3,090			

NON-BUDGETED TOTALS \$ - \$ 574,716 \$ 563,782 \$ (563,782)

CIP TOTALS \$ 4,284,000 \$ 2,659,470 \$ 2,739,211 \$ 1,544,789

* Note: Projected Year-end FY 15/16 - includes estimates for invoices not yet received

**Legal Cost Tracking Report
12 Months At-A-Glance**

**Acct. No.5681
Patrick Miyaki - HansonBridgett, LLP
Legal**

Month	Admin (General Legal Fees)	Water Supply Develpmnt	Recycled Water	Transfer Program	CIP	Personnel	Water Shortage	Lawsuits	Infrastructure Project Review (Reimbursable)	TOTAL
Jul-15	5,824					718	1,235			7,777
Aug-15	8,255			625	88					8,968
Sep-15	764		1,147	206	1,348				941	4,405
Oct-15	2,259	88	500	1,609	6,164	504			118	11,241
Nov-15	3,920		176	1,113	5,014					10,224
Dec-15	1,535	617			1,970					4,122
Jan-16	2,673	970		798	941					5,382
Feb-16	2,969				1,000	7,859				11,828
Mar-16	8,572		272		60	8,282				17,187
Apr-16	8,014			900	91	2,640				11,645
May-16	3,616			776		5,438				9,830
Jun-16	3,583		1,540			11,879				17,002
TOTAL	51,985	1,676	3,635	6,026	16,675	37,321	1,235	0	1,058	119,612

**Engineer Cost Tracking Report
12 Months At-A-Glance**

**Acct. No. 5682
JAMES TETER
Engineer**

Month	Admin & Retainer	CIP	Studies & Projects	TOTAL	Reimbursable from Projects
Jul-15	480	11,378	1,014	12,872	1,014
Aug-15	480	9,845	85	10,409	85
Sep-15	480	11,362	507	12,349	507
Oct-15	480	10,853	1,372	12,705	1,372
Nov-15	480	2,095	1,606	4,180	1,606
Dec-15	480	1,389	4,901	6,770	4,901
Jan-16	480		4,392	4,872	4,392
Feb-16	1,926	6,083	338	8,347	338
Mar-16	2,291	5,812		8,103	
Apr-16	480	10,650	2,789	13,919	2,789
May-16	2,508	12,863	7,014	22,385	7,014
Jun-16	1,280	4,960	2,191	8,431	2,191
TOTAL	11,845	87,288	26,207	125,340	26,207

Calcon T&M Projects Tracking

Project No.	Name	Acct No.	Proposal Date	Approved Date	Project Budget	10/31/15	11/30/15	12/31/15	1/31/16	2/29/16	3/30/16	4/30/16	5/31/16	Project Total Billing	Project Budget Remaining	CIP Project
CAL-13-EMG	Emergency Callout															
CAL-14-EMG	Emergency Callout															
CAL-15-EMG	Emergency Callout						\$1,107.50	\$5,488.33		\$5,633.06	\$1,048.50	\$1,330.00				
CAL-13-00	Calcon Project Admin/Miscellaneous															
CAL-13-01	EG Tank 2 Recoating Project		9/30/13	10/8/13	\$8,220.00									\$8,837.50	-\$617.50	08-17
CAL-13-02	Nunes Control System Upgrades		9/30/13	10/8/13	\$46,141.00									\$55,363.60	-\$9,222.60	FY13 CIP
CAL-13-03	Win 911 and PLC Software		9/30/13	10/8/13	\$9,717.00									\$12,231.74	-\$2,514.74	
CAL-13-04	Crystal Springs Surge Tank Retrofit		11/26/13	11/27/13	\$31,912.21									\$66,572.54	-\$34,660.33	6-Dec
CAL-13-05														\$0.00	\$0.00	
CAL-13-06	Nunes Legacy Backwash System Removal		11/25/13	11/26/13	\$6,516.75									\$6,455.00	\$61.75	
CAL-13-07	Denniston Backwash FTW Valves		11/26/13	11/27/13	\$6,914.21									\$9,518.28	-\$2,604.07	
CAL-14-01	Denniston Wash Water Return Retrofit		1/28/14	2/14/14	\$13,607.00									\$13,591.60	\$15.40	
CAL-14-02	Denniston Calrifier SCADA Data		4/2/14	4/7/14	\$4,125.00									\$4,077.50	\$47.50	
CAL-14-03	Nunes Surface Scatter Turbidimeter		4/2/14	4/7/14	\$2,009.50									\$0.00	\$2,009.50	
CAL-14-04	Phase I Control System Upgrade		4/2/14	4/7/14	\$75,905.56									\$44,459.14	\$31,446.42	
CAL-14-06	Miramar Control Panel		8/28/14	8/28/14	\$37,953.00									\$27,980.71	\$9,972.29	
CAL-14-08	SFWater Flow & Data Logger/Cahill Tank		8/20/2014	8/20/2014	\$1,370.00									\$1,372.00	-\$2.00	
CAL-15-01	Main Street Monitors													\$6,779.42	-\$6,779.42	
CAL-15-02	Denniston To Do List													\$2,930.00	-\$2,930.00	
CAL-15-03	Nunes & Denniston Turbidity Meters				\$6,612.50									\$5,833.26	\$779.24	
CAL-15-04	Phase II Control System Upgrade					\$22,711.88	\$16,250.78	\$44,910.86	\$24,466.83	\$14,452.50	\$9,528.20	\$7,855.95	\$3,990.00	\$151,459.50	-\$151,459.50	
CAL-15-05	Permanganate Water Flow													\$1,567.15	-\$1,567.15	
					\$244,391.23	\$22,711.88	\$16,250.78	\$44,910.86	\$24,466.83	\$14,452.50	\$9,528.20	\$7,855.95	\$3,990.00	\$419,028.94	-\$168,025.21	

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

MINUTES OF THE REGULAR MEETING OF THE BOARD OF DIRECTORS

Tuesday, June 14, 2016

- 1) **ROLL CALL** - Vice-President Glenn Reynolds called the meeting to order at 7:00 p.m. Present at roll call: Directors Ken Coverdell, Chris Mickelsen and Bob Feldman. President Arnie Glassberg was absent.

Also present: David Dickson, General Manager; Mary Rogren, Assistant General Manager; Patrick Miyaki, Legal Counsel, Joe Guistino, Superintendent of Operations, Cathleen Brennan, Water Resources Analyst, JoAnne Whelen, Administrative Assistant/Recording Secretary and Gina Brazil, Office Manager.

There were no members of the public in the audience.

- 2) **PLEDGE OF ALLEGIANCE**

- 3) **PUBLIC COMMENT** - There were no public comments.

- 4) **CONSENT CALENDAR**

- A. Approval of disbursements for the month ending May 31, 2016:
Claims: \$887,098.46; Payroll: \$90,687.21 for a total of \$977,785.67
- B. Acceptance of Financial Reports
- C. Approval of Minutes of May 10, 2016 Special Board of Directors Meeting
- D. Approval of Minutes of May 10, 2016 Regular Board of Directors Meeting
- E. Installed Water Connection Capacity and Water Meters Report
- F. Total CCWD Production Report
- G. CCWD Monthly Sales by Category Report - March 2016
- H. Monthly Emergency Main and Service Repairs Report
- I. Rainfall Reports
- J. S.F.P.U.C. Hydrological Report for the month of April, 2016
- K. S.F.P.U.C. Hydrological Report for the month of May, 2016
- L. Notice of Completion - El Granada Pipeline Replacement Final Phase Project
- M. California Special District's Association - Proposed Bylaw Updates
- N. Expense Reimbursement Approval for Director Reynolds' Attendance at Association of California Water Agencies (ACWA) Spring Conference - May 2016

Director Mickelsen reported that he had reviewed the monthly financial claims and found all to be in order.

ON MOTION BY Director Coverdell and seconded by Vice-President Reynolds, the Board voted to accept and approve the Consent Calendar in its entirety:

Director Coverdell	Aye
Director Mickelsen	Aye
Director Feldman	Aye
Vice-President Reynolds	Aye
President Glassberg	Absent

5) MEETINGS ATTENDED / DIRECTOR COMMENTS

There were no meetings reported or Director comments.

6) GENERAL BUSINESS

A. Award of Contract - El Granada Pump Stations 1 and 2 Emergency Generator Project

Mr. Guistino provided the background of this item, summarizing the difficulties the District would encounter to provide adequate fire flows in the event of a power failure. He reiterated staff's recommendation to award the contract in the sum of \$172,847 to Bayside Equipment Company.

ON MOTION BY Director Coverdell and seconded by Vice-President Reynolds, the Board voted to authorize the General Manager to enter into a contractual agreement with Bayside Equipment Company to procure and install emergency generators and associated switchgear at El Granada Pump Stations 1 and 2 at a total cost of \$172,847:

Director Coverdell	Aye
Director Mickelsen	Aye
Director Feldman	Aye
Vice-President Reynolds	Aye
President Glassberg	Absent

B. California Special Districts Association (CSDA) - 2016 Board Election - Bay Area Network - Seat B

Mr. Dickson introduced this item, advising that as a member of the CSDA, the Board has the opportunity to participate in these elections. Director Coverdell recommended that the Board designate candidate Ryan Clausnitzer to serve as the CSDA representative for Seat B on the Bay Area Network.

ON MOTION BY Director Coverdell and seconded by Director Feldman, the Board voted to vote for candidate Ryan Clausnitzer to fill the vacant position on Seat B for the Bay Area Network of the CSDA:

Director Coverdell	Aye
Director Mickelsen	Aye
Director Feldman	Aye
Vice-President Reynolds	Aye
President Glassberg	Absent

C. Draft Fiscal Year 2016/2017 Operations Budget and Draft Fiscal Year 2016/2017 to 2025/26 Capital Improvement Program

Before opening the discussion on the budget, Ms. Rogren shared a photo slide show with the Board entitled “A Day in the Life at CCWD”, showing progress on a number of capital projects and several aspects of everyday District operations. Ms. Rogren next distributed handouts for the Draft Fiscal Year 2016/17 Operations and CIP Budgets, highlighting some good news including a \$59,000 expense reductions due to the San Francisco Public Utilities Commission’s increased “untreated water discount, as well as a savings of \$91,000 from the restructuring of District medical insurance options. She also reported that the total 2016/2017 Operating Expense Budget is \$180,000 lower than the 2015/2016 Operating Expense Budget. Ms. Rogren then reviewed staff’s expense management efforts and current budget risks.

Mr. Dickson summarized results of the recent District Facilities Committee meeting, at which the committee evaluated every project in the Capital Improvement Program (CIP). CIP revisions resulted in a net decrease of \$2.9 million in the 10-year CIP total and a \$185,000 reduction in planned Fiscal Year 2016/2017 CIP spending. Mr. Dickson then reviewed the key CIP projects slated for Fiscal Year 2016/2017 and advised how they will be funded.

D. FY 2016/2017 to 2021/2022 Financing Plan and Proposed Water Rate Increase; Cost of Service Analysis

Ms. Rogren summarized the background of the Water Rate Update - FY 2016-2017 prepared by HF&H Financial Consultants, and discussed reserve considerations. Using the financing model, Ms. Rogren showed the effects of a 12% rate increase and at Director Feldman’s request, displayed the effects of 8% and 7% rate increases.

Director Feldman shared some of his thoughts about the District’s financial condition, including proposed reserve funds and the proposed rate increase. Director Mickelsen commented that he would like to see the District lift water restrictions and convey that message to the District’s customers.

E. Recycled Water Update and CCWD Recycled Water Specification

Mr. Dickson summarized the background of this agenda item, including the results of the most recent meetings. He reported that the current consensus based on discussions at the Sewer Authority Mid-Coastside (SAM)- CCWD Recycled Water Committee is that the next step in determining feasibility of the proposed Phase 1 project is to prepare a detailed cost estimate for the treatment facilities based on a 25% preliminary design. He noted that SAM is prepared to proceed with the preliminary design as soon as all member agencies have approved moving ahead with the Recycled Water Project. Mr. Dickson explained that because CCWD's water quality specification is one of the most important inputs to SAM's preliminary design, staff and the Recycled Water Committee members recommend that the Board adopt the water quality specification contained in Table 1 of Technical Memo # 1 prepared by Kennedy/Jenks Consultants as the minimum water quality specification for water to be provided to CCWD by SAM in Phase 1. He answered a few questions from the Board and a brief discussion among the Board members ensued.

ON MOTION BY Director Feldman and seconded by Director Mickelsen, the Board voted to adopt the Ocean Colony Partners Water Quality Requirement specifications shown in Table 1 of Kennedy/Jenks Technical Memorandum # 1 (December 15, 2015) as the minimum water quality specification for recycled water to be provided by Sewer Authority Mid-Coastside for distribution by Coastside Count Water District:

Director Coverdell	Aye
Director Mickelsen	Aye
Director Feldman	Aye
Vice-President Reynolds	Aye
President Glassberg	Absent

7) GENERAL MANAGER'S REPORT AND MONTHLY INFORMATIONAL REPORTS

Mr. Dickson highlighted successful completion of the El Granada Pipeline Replacement Final Phase Project, recognized staff's efforts in maximizing production at the Denniston Water Treatment Plant, and discussed next steps in the Denniston Booster Station/Bridgeport Drive Pipeline Replacement Project following the June 8 approval of the project's Coastal Development Permit by San Mateo County.

A. Assistant General Manager's Report - Financial and Utility Billing Systems Implementation -Near Completion

Ms. Rogren reported that implementation of the new system is almost complete and thanked staff for the smooth transition. She also pointed out some of the system's advantages and features which will make District billing more responsive to customer needs.

B. Operations Report

Mr. Guistino reviewed monthly operations highlights, including the El Granada Pipeline Final Phase Project, interagency cooperation with the Coastside Fire Protection District, and the District's Unidirectional Flushing Program that will continue in June and early July.

C. Water Resources Report

Ms. Brennan updated the Board on new water conservation regulations, which could allow the District to reduce required conservation levels after certifying to the State that water supplies are adequate to meet demand through three more years of drought.

8) DIRECTOR AGENDA ITEMS - REQUESTS FOR FUTURE BOARD MEETINGS

Director Coverdell requested that the matter of the District's commitment and vote of full support and efforts, and an outline of the next steps necessary for the District to continue to participate in a Recycled Water Project be placed on a future agenda for discussion by the Board. Director Feldman requested that a change in the District's election year to an even numbered year, in order to be on the same schedule as other local agencies also be placed on a future agenda. Mr. Dickson advised that this matter would be placed on the July CCWD Board meeting agenda.

9) ADJOURNMENT - The meeting was adjourned at 8:53 p.m.

Respectfully submitted,

David R. Dickson, General Manager
Secretary of the District

Arnie Glassberg, President
Board of Directors

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

MINUTES OF THE SPECIAL MEETING OF THE BOARD OF DIRECTORS

THURSDAY, JUNE 30, 2016

- 1) **ROLL CALL** - President Arnie Glassberg called the meeting to order at 7:00 p.m. Present at roll call: Directors Ken Coverdell, Chris Mickelsen, Bob Feldman, and Vice-President Glenn Reynolds.

Also present were: David Dickson, General Manager; Julie Sherman, Legal Counsel; Mary Rogren, Assistant General Manager; Joe Guistino, Superintendent of Operations; JoAnne Whelen, Administrative Assistant/Recording Secretary; Cathleen Brennan, Water Resources Analyst and Gina Brazil, Office Manager.

John Farnkopf, Senior Vice President and Richard Simonson, Vice President with HF&H, the District's rate consultants, were in the audience. There were nine members of the public in the audience.

PLEDGE OF ALLEGIANCE

- 2) **PUBLIC COMMENT** - There were no public comments.
- 3) **SPECIAL ORDER OF BUSINESS - FISCAL YEAR 2016-2017 BUDGET, FISCAL YEAR 2016/2017 TO 2025/26 CAPITAL IMPROVEMENT PROGRAM, RESOLUTION AMENDING THE RATE AND FEE SCHEDULE TO INCREASE WATER RATES, AND RESOLUTION AMENDING THE GENERAL REGULATIONS REGARDING WATER SERVICE**
- A. Staff Presentations**
- a. Fiscal Year 2016-2017 Operation and Maintenance Budget
 - b. Fiscal Year 2016/17 to 2025/26 Capital Improvement Program
 - c. Proposed Amendment to Rate and Fee Schedule to Increase Water Rates
 - d. Proposed Amendment to General Regulations Regarding Water Service

Ms. Rogren began her presentation of the FY 2016-2017 Operating Budget and Capital Improvement Plan (CIP) by reviewing the timeline of the nine CCWD budget related public meetings that have transpired since February of 2016. She also provided a brief overview of the District's responsibilities, including operating and maintaining two

water treatment plants, the Crystal Springs Pump Station, the District's wells, water tanks and 100 miles of pipeline. Next she provided an overview of the District's Operating Expenses, totaling \$180,000 less than the prior year's budget .

Mr. Dickson then summarized the Draft Capital Improvement Plan for Fiscal Year 2016-2017 to FY 2025 - 2026, including a brief description of six FY 2016-2017 key projects. He also reviewed potential risks with regards to the projected CIP.

Ms. Rogren reviewed the steps leading up to a rate increase recommendation and focused on the costs it takes to run the District from an operations and capital perspective, followed by a lengthy discussion and presentation on the District's reserve funds and the District's financing plan. Next, utilizing the District's financing model, Ms. Rogren showed the impact of a 12% rate increase and also summarized proposed changes to the District's General Regulations Regarding Water Service to allow for any class of customers to be billed either bi-monthly or monthly and a change to increase the number of days before a bill is considered to be delinquent from 21 to 25 days.

B. Public Hearing

President Glassberg opened the Public Hearing regarding the proposed Amendment of Rate and Fee Schedule to increase water rates at 7:32 p.m., inviting members of the audience to address the Board on the subject of the proposed rate increase.

Galyn Evans, Leslie Gardens Administrator - 701 Arnold Way, Half Moon Bay Spoke on behalf of the residents, whose average income is approximately \$913.00 per month from Social Security, requesting that the District investigate some type of credit system that could be offered based on a customer's income.

Craig Lavayas, 701 Arnold Way, Half Moon Bay - Stated that it was difficult for the residents to pay their water bills on their limited income.

Joan Kersten, 701 Arnold Way, Half Moon Bay - Questioned the District's need to increase reserve funds so rapidly and cited the subsequent years of rate increases proposed.

Monica Ackerman, 701 Arnold Way, Half Moon Bay - Stated that she has heard of cases of a sliding scale being used for water charges in other parts of the country and wondered why the same program could not be utilized with CCWD.

JoAnn Ordano – 701 Arnold Way, Half Moon Bay – Commented that she was under the impression that some District projects have experienced cost over-runs, stated that she had requested at a previous Board meeting that a tiered system for residents on a fixed income should be considered, and requested that the District look for a creative solution for this unfair situation.

Nona Lanter, 5 Patrick Way, Half Moon Bay – Stated that the rate increase was discussed at the recent Board meeting at the Cypress Cove Development and indicated that many people in the community cannot afford their current water bills, let alone an increased amount.

President Glassberg closed the Public Hearing at 7:54 p.m.

Mr. Glassberg then opened discussion among the Board members. He began by addressing the concern from one of the speakers with regards to District project cost over-runs, explaining that CCWD has a very good record for not having unreasonable cost over-runs on the District's projects.

Director Mickelsen also commented on this, explaining that environmental fees over which the District has no control often increase the cost of projects, as was the case with the El Granada Pipeline Replacement Final Phase Project.

Director Feldman commented that the District's Facilities Committee has carefully reviewed the Capital Improvement Program recently and has made adjustments and reallocations to projects to reduce the CIP budget over the next five years.

Vice-President Reynolds referenced the importance of the reserve funds, stressing how crucial it is that the District has funds available in case of an emergency, such as an earthquake.

District Counsel Sherman summarized and explained the elements of Proposition 218, and clarified why the District cannot offer reduced rates to limited income customers, as a result of Proposition 218's cost of service requirements.

Director Coverdell stated that he wondered if it was an option for the District to petition the U.S. Department of Housing and Urban Development (HUD) to inquire if it would be possible for HUD to increase the amount that they currently subsidize the customer's water bills at this particular housing development, Leslie Gardens.

Vice-President Reynolds thanked the members of the audience for attending and participating in the meeting. President Glassberg added that he appreciated the level of civility that was demonstrated by the public speakers and was impressed with the amount of research invested by some of the customers.

C. Adoption of Resolution 2016-07 – A Resolution of the Board of Directors of the Coastside County Water District Amending the Rate and Fee Schedule to Increase Water Rates

Director Feldman stated that he felt that a 12% rate increase was not necessary and suggested building the reserves up over a longer period of time. Utilizing the District’s financing plan model, Mr. Dickson demonstrated the results of a 12%, 11%, 10%, 9%, 8% and 7% rate increase and discussion ensued about the impacts with respect to the various rate increases. Director Feldman made a motion to adopt a 7% rate increase; the motion did not receive a second from any of the Board Members. Vice-President Reynolds, not feeling well, left the meeting at 8:42 p.m.

Director Feldman asked the General Manager, Mr. Dickson, to share his views on the proposed rate increase.

Mr. Dickson stated that reserve funds are not currently at a level that staff is comfortable with.

Director Feldman then made a motion to adopt an 8% rate increase, but this motion also did not receive a second. Discussion of the rate increase continued.

ON MOTION BY Director Coverdell and seconded by Director Mickelsen, the Board voted, by roll call vote, to adopt Resolution 2016-07 Amending the Rate and Fee Schedule to Increase Water Rates by 10%:

Director Coverdell	Aye
Vice-President Reynolds	Absent
Director Feldman	No
Director Mickelsen	Aye
President Glassberg	Aye

D. Approval of Fiscal Year 2016-2017 Operation and Maintenance Budget and Capital Improvement Program for Fiscal Year 2016/2017 to 2025/2026

ON MOTION BY Director Coverdell and seconded by Director Feldman, the Board voted, by roll call vote, to approve the Fiscal Year 2016-2017 Operation and Maintenance Budget and Capital Improvement Program for Fiscal Year 2016/2017 to 2025/2026:

Director Coverdell	Aye
Vice-President Reynolds	Absent
Director Feldman	Aye
Director Mickelsen	Aye
President Glassberg	Aye

E. Adoption of Resolution 2016-08 – A Resolution of the Board of Directors of the Coastside County Water District Amending the General Regulations Regarding Water Service

ON MOTION BY Director Coverdell and seconded by Director Flint, the Board voted, by roll call vote, to adopt Resolution 2016-08 – A Resolution of the Board of Directors of the Coastside County Water District Amending the General Regulations Regarding Water Service:

Director Coverdell	Aye
Vice-President Reynolds	Absent
Director Feldman	Aye
Director Mickelsen	Aye
President Glassberg`	Aye

4) ADJOURNMENT

The meeting was adjourned at 9:07p.m.

Respectfully submitted,

David R. Dickson, General Manager
Secretary of the District

Arnie Glassberg, President
Board of Directors

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: July 12, 2016

Report

Date: July 1, 2016

Subject: Monthly Water Transfer Report - June 2016

Recommendation:

None. For Board information purposes only.

Background:

At the December 10, 2002 Board meeting and November 18, 2003 Special Board meeting, the Board made several changes to the District's water transfer policy. One of the changes directed the General Manager to approve routine water transfer applications that met the District's criteria as embodied in Resolution 2002-17 and Resolution 2003-19. The General Manager was also directed to report the number of water transfers approved each month as part of the monthly Board packet information.

During the month of June, two applications to transfer two (2) -- 5/8" (20 gpm) non-priority water service connections were approved. A spreadsheet reporting these transfers follows this report as well as the approval memorandums from Patrick Miyaki and the confirmation letters from Gina Brazil.

**NON PRIORITY WATER TRANSFERS APPROVED FOR THE 2016 CALENDAR YEAR
MONTH OF JUNE 2016**

DONATING APN	PROPERTY OWNER(S)	RECIPIENT APN	PROPERTY OWNER(S)	# of CONNECTIONS	DATE
115-520-170	Charles Keenan Tr. (c/o Joyce Yamigiwa)	056-116-350	Alycia Moulton	1 - - 5/8"	June 23, 2016
115-520-170	Charles Keenan Tr. (c/o Joyce Yamigiwa)	056-055-190	Marcos & Esther Hernandez	1 - - 5/8"	June 30, 2016

Memorandum

TO: Gina Brazil
FROM: Patrick T. Miyaki
DATE: June 23, 2016
RE: **Application to Transfer One Uninstalled Non-Priority Water Service Connection from Charles J. Keenan III, Trustee (c/o Joyce Yamigiwa, TR) to Alycia Moulton**

Gina, I have reviewed the Application to transfer one 5/8-inch uninstalled non-priority water service connection from property owned by Charles J. Keenan III, Trustee (c/o Joyce Yamigiwa, TR) (APN 115-520-170) to property owned by Alycia Moulton (APN 056-116-350).

The Application is generally in order and satisfies the requirements of the District's General Regulations Regarding Water Service, Section U, Transfer of Uninstalled Water Service Connection Rights.

Please do not hesitate to contact me if you have any questions or want to discuss this matter in more detail.

PTM:slh

cc: David Dickson

.



June 23, 2016

Charles Keenan, Trustee
c/o Joyce Yamigiwa
700 Emerson Street
Palo Alto, CA 94301

and

Alycia Moulton
325 Sharon Park Drive, Suite 712
Menlo Park, CA 94025

RE: Approval - Request for Transfer of Water Service Connection Capacity

Dear Property Owners:

This is official confirmation that the Coastside County Water District has approved your request to transfer one - 5/8" non-priority water service connections. The result of this transfer is as follows:

- APN 115-520-170 continues to have the rights to forty-seven (47) -- 5/8" (20 gpm) non-priority water service connections from the Coastside County Water District; and
- APN 056-116-350 now has one (1) -- 5/8" (20 gpm) uninstalled non-priority water service connection assigned to it from the Crystal Springs Project.

Please be advised that the City Council of the City of Half Moon Bay has taken the position that the transfer of a water service connection meets the definition of "development" so as to require a coastal development permit from the City. Applicants are advised to investigate this issue further with the City of Half Moon Bay Planning Department if applicable. The Coastside County Water District, in approving this application, does not make any representations or warranties with respect to further permits or approvals required by other governmental agencies, including the City of Half Moon Bay.

Sincerely,

Gina Brazil
Office Manager

cc: David Dickson, General Manager

Memorandum

TO: Gina Brazil

FROM: Patrick T. Miyaki

DATE: June 23, 2016

RE: **Application to Transfer One Uninstalled Non-Priority Water Service Connection from Charles J. Keenan III, Trustee (c/o Joyce Yamigiwa, TR) to Marcos & Esther Hernandez**

Gina, I have reviewed the Application to transfer one 5/8-inch uninstalled non-priority water service connection from property owned by Charles J. Keenan III, Trustee (c/o Joyce Yamigiwa, TR) (APN 115-520-170) to property owned by Marcos & Esther Hernandez (APN 056-055-190).

The Application is generally in order and satisfies the requirements of the District's General Regulations Regarding Water Service, Section U, Transfer of Uninstalled Water Service Connection Rights.

Please do not hesitate to contact me if you have any questions or want to discuss this matter in more detail.

PTM:slh

cc: David Dickson

.

June 30, 2016

Charles Keenan, Trustee
c/o Joyce Yamigiwa
700 Emerson Street
Palo Alto, CA 94301



and

Marcos & Esther Hernandez
420 Grand Blvd.
Half Moon Bay, CA 94019

RE: Approval - Request for Transfer of Water Service Connection Capacity

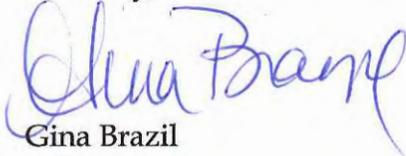
Dear Property Owners:

This is official confirmation that the Coastside County Water District has approved your request to transfer one - 5/8" non-priority water service connections. The result of this transfer is as follows:

- APN 115-520-170 continues to have the rights to forty-seven (46) -- 5/8" (20 gpm) non-priority water service connections from the Coastside County Water District; and
- APN 056-055-190 now has one (1) -- 5/8" (20 gpm) uninstalled non-priority water service connection assigned to it from the Crystal Springs Project.

Please be advised that the City Council of the City of Half Moon Bay has taken the position that the transfer of a water service connection meets the definition of "development" so as to require a coastal development permit from the City. Applicants are advised to investigate this issue further with the City of Half Moon Bay Planning Department if applicable. The Coastside County Water District, in approving this application, does not make any representations or warranties with respect to further permits or approvals required by other governmental agencies, including the City of Half Moon Bay.

Sincerely,


Gina Brazil
Office Manager

cc: David Dickson, General Manager

COASTSIDE COUNTY WATER DISTRICT
Installed Water Connection Capacity & Water Meters

FY 2016

Installed Water Connection Capacity	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
HMB Non-Priority													
0.5" capacity increase													0
5/8" meter	1	1	2		1			1	1	1			8
3/4" meter		4			2								6
1" meter													0
1 1/2" meter												1	1
2" meter													0
3" meter													0
HMB Priority													
0.5" capacity increase													0
5/8" meter													0
3/4" meter													0
1" meter													0
1 1/2" meter													0
2" meter													0
County Non-Priority													
0.5" capacity increase													
5/8" meter			1	1	1				1		1		5
3/4" meter							1						1
1" meter													0
County Priority													
5/8" meter													0
3/4" meter			1								1		2
1" meter										1			1
Monthly Total	1	5	4	1	4	0	1	1	2	1	2	1	24

5/8" meter = 1 connection
 3/4" meter = 1.5 connections
 1" meter = 2.5 connections
 1.5" meter = 5 connections
 2" meter = 8 connections
 3" meter = 17.5 connections

Installed Water Meters	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Totals
HMB Non-Priority	1	7	2		3.5			1	1	1		5	21.5
HMB Priority													0
County Non-Priority			1	1	1		1.5		1		1		6.5
County Priority			1.5							2.5	1		5
Monthly Total	1	7	4.5	1	4.5	0	1.5	1	2	3.5	2	5	33

Fiscal Year 2016 Water Service Installations
FY 2016

APN	Name	Install Address	City/Community	Meter Size	Type	Date Installed	Notes
048-211-060	Taffera, Anthony	421 Wave Ave	HMB	5/8"	dom	10-Jul-15	with 1" fire
056-141-700	Belloni, Paula	456-458 Oak Street	HMB	5/8"	dom	31-Jul	second unit meter
064-092-550	Shaw, Dan	401 Filbert Street	HMB	1"	fire	4-Aug-15	fire only
066-600-080	Carnoustie LLC	241 Bayhill Rd	HMB	3/4"	dom	21-Aug-15	with 2" fire
066-600-110	Carnoustie LLC	116 Carnoustie Dr	HMB	3/4"	dom	21-Aug-15	with 2" fire
066-600-100	Carnoustie LLC	118 Carnoustie Dr	HMB	3/4"	dom	21-Aug-15	with 2" fire
066-600-090	Carnoustie LLC	231 Bayhill Rd	HMB	3/4"	dom	25-Aug-15	with 2" fire
064-231-270	McGregor, Paul	483 Poplar Street	HMB	5/8"	dom	31-Aug-15	with 1" fire
037-320-350	Lea, David and Patricia	6 Denniston Road	EG	3/4"	dom	2-Sep-15	with 2" fire
056-143-330	Taffera, Anthony	447 Laurel Ave	HMB	5/8"	dom	11-Sep-15	with 1" fire
056-104-150	Carey, Robert	208 Valdez	HMB	5/8"	dom	18-Sep-16	1" fire installed 25 Jan 16
047-113-210	Coffield, Lyle	925 Ferdinand Ave	EG	5/8"	dom	25-Sep-15	with 1" fire
048-054-130	Garrison, Michi	375 Miramar Drive	EG	5/8"	dom	2-Oct-15	with 1" fire
066-600-320	Carnoustie LLC	120 Carnoustie Drive	HMB	3/4"	dom	4-Nov-15	with 2" fire
056-191-070	Mithal, Arti	728 Main Street	HMB	5/8"	dom	5-Nov-15	second unit meter with 1" fire
047-222-100	Wenzel, Lutz	477 Avenue Portola	EG	5/8"	dom	9-Nov-15	fire not installed yet
056-081-370	Moules, Roberty and Bertine	690 Terrace Ave.	HMB	5/8"	dom	18-Nov-15	with 1" fire
056-144-290	KN Properties	481/483/485 Pine St.	HMB	3/4"	dom	10-Nov-15	with 5/8" irrigation and 2" fire
048-023-350	Bakshi, Reema	321 Cortez Ave	EG	3/4"	dom	27-Jan-16	with 1" fire
064-232-440	McGregor, Paul	484 Poplar Street	HMB	5/8"	dom	8-Feb-16	with 1" fire
048-056-060	Carey, Tom	412 Lee Ave.	Mirmar	5/8"	dom	1-Mar-16	with 1" fire
048-021-400	Ralston, Randy	311 Magellan Ave.	Mirmar	5/8"	dom	25-Mar-16	with 1" fire
064-272-130	Moberg, Nils and Mary	654 Poplar St.	HMB	5/8"	dom	4-Apr-16	with 1" fire
047-081-390	Point Pillar Project Develop	280 Capistrano Rd	Princeton	1"	dom	11-Apr-16	with 4" fire
047-143-190	Power, Patrick and Kevin	224 Del Monte Rd	EG	5/8"	dom	23-May-16	with 1" fire
048-016-010	Hodge, David	97 Alameda Ave.	Mirmar	5/8"	dom	26-May-16	with 1" fire
056-181-010	Cabrillo Unified School Distr	498 Kelly Ave	HMB	1 1/2"	com	8-Jun-16	

TOTAL CCWD PRODUCTION (MG) ALL SOURCES- FY 2016

	CCWD Sources			SFPUC Sources		RAW WATER TOTAL	UNMETERED WATER	TREATED TOTAL
	DENNISTON WELLS	DENNISTON RESERVOIR	PILARCITOS WELLS	PILARCITOS LAKE	CRYSTAL SPRINGS RESERVOIR			
JUL	0.00	0.00	0.00	0.00	57.33	57.33	2.57	54.76
AUG	0.00	0.00	0.00	0.00	62.00	62.00	2.07	59.93
SEPT	0.00	0.00	0.00	0.00	59.07	59.07	2.93	56.14
OCT	0.00	0.00	0.00	0.00	56.60	56.60	2.44	54.16
NOV	0.00	0.00	2.07	0.00	42.44	44.51	2.45	42.06
DEC	0.00	12.51	9.44	0.00	17.68	39.63	3.03	36.60
JAN	0.00	11.84	15.14	0.00	10.96	37.94	2.67	35.27
FEB	0.00	17.51	11.08	7.89	3.27	39.75	2.19	37.56
MAR	0.05	9.33	13.85	15.86	0.11	39.20	3.21	35.99
APR	0.00	18.08	13.24	10.30	1.96	43.58	3.26	40.32
MAY	0.00	24.01	2.70	33.79	4.03	64.53	3.92	60.62
JUN	1.45	18.80	0	39.29	7.69	67.23	4.87	62.36
TOTAL	1.50	112.08	67.52	107.13	323.15	611.37	35.60	575.77
% MONTHLY TOTAL	2.16%	27.96%	0.00%	58.44%	11.44%	100.00%	6.07%	93.93%
% ANNUAL TO DATE TOTAL	0.2%	18.3%	11.0%	17.5%	52.9%	100.0%	5.82%	94.2%
Local vs Imported-month	88.6%	11.44%	CCWD vs SFPUC- month		30.1%	69.9%		
Local vs Imported-annual	47.1%	52.9%	CCWD vs SFPUC- annual		29.6%	70.4%		
	Local Source	Imported Source						

12 Month Running Treated Total **575.77**

TOTAL CCWD PRODUCTION (MG) ALL SOURCES- FY 2015

	DENNISTON WELLS	DENNISTON RESERVOIR	PILARCITOS WELLS	PILARCITOS RESERVOIR	CRYSTAL SPRINGS RESERVOIR	RAW WATER TOTAL	UNMETERED WATER	TREATED TOTAL
JUL	0.48	2.32	0.00	0.00	71.96	74.76	3.10	71.67
AUG	0.10	0.82	0.00	0.00	73.97	74.89	3.00	71.89
SEPT	0.05	0.60	0.00	0.00	59.58	60.23	2.89	57.34
OCT	0.00	0.00	0.00	0.00	57.13	57.13	2.15	54.98
NOV	0.01	0.93	4.43	0.00	41.00	46.37	2.18	44.19
DEC	0.20	2.19	10.67	9.68	16.37	39.11	2.19	36.92
JAN	0.64	13.95	8.44	20.23	10.52	53.78	3.17	50.61
FEB	0.51	12.88	8.56	25.95	2.43	50.33	2.36	47.97
MAR	0.81	12.59	8.8	25.67	2.02	49.89	2.70	47.19
APR	1.31	14.34	0.00	31.85	1.38	48.88	2.54	46.34
MAY	0.60	6.18	0.00	30.04	7.37	44.19	1.65	42.54
JUN	0.00	0.00	0	0.00	56.87	56.87	0.67	56.20
TOTAL	4.71	66.80	40.90	143.41	400.60	656.42	28.58	627.85
% TOTAL	0.7%	10.2%	6.2%	21.8%	61.0%	100.0%	4.35%	95.6%

denotes estimated due to faulty SFPUC meter

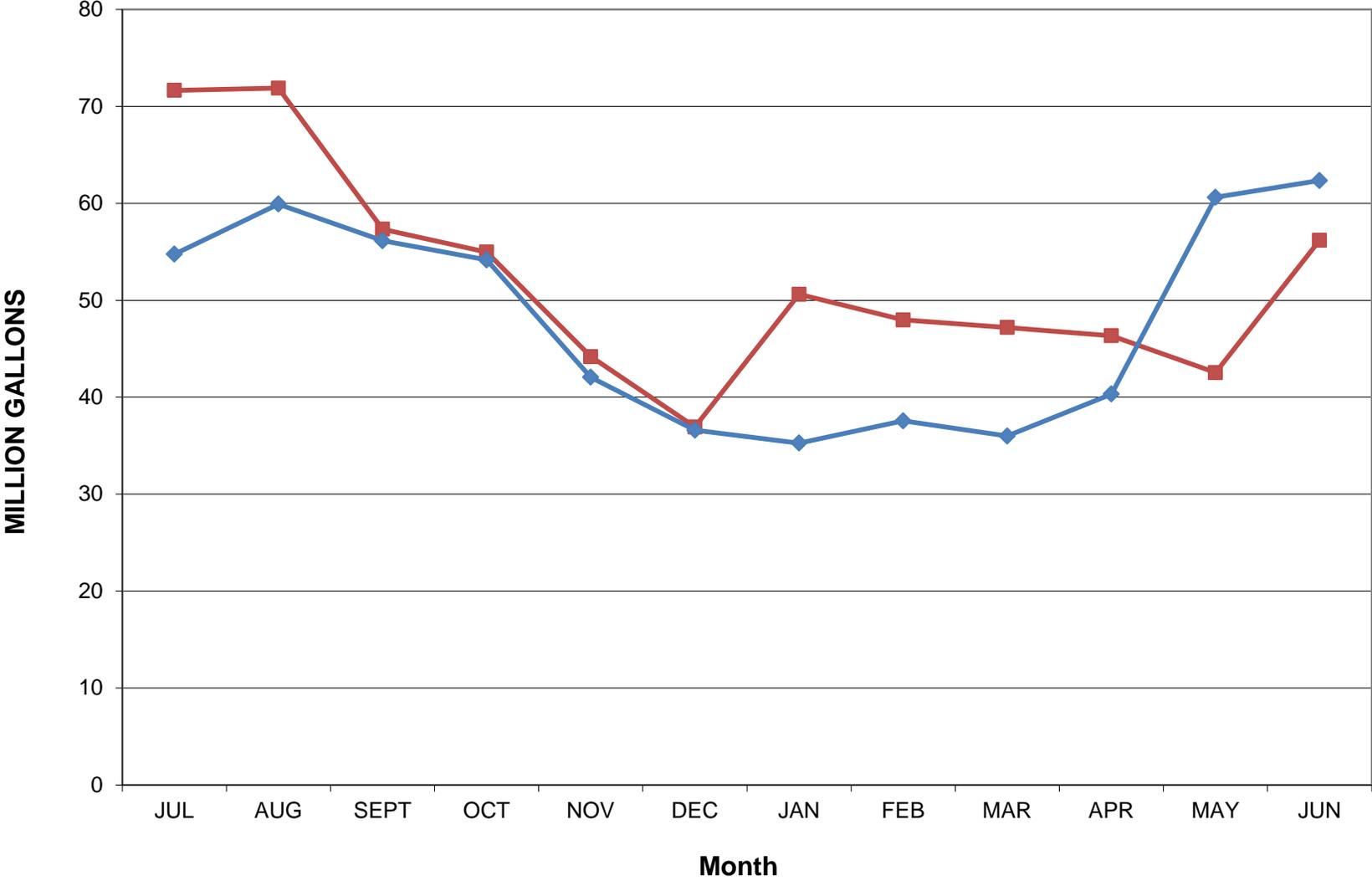
COASTSIDE COUNTY WATER DISTRICT

Predicted vs Actual Production - All Sources FY 16

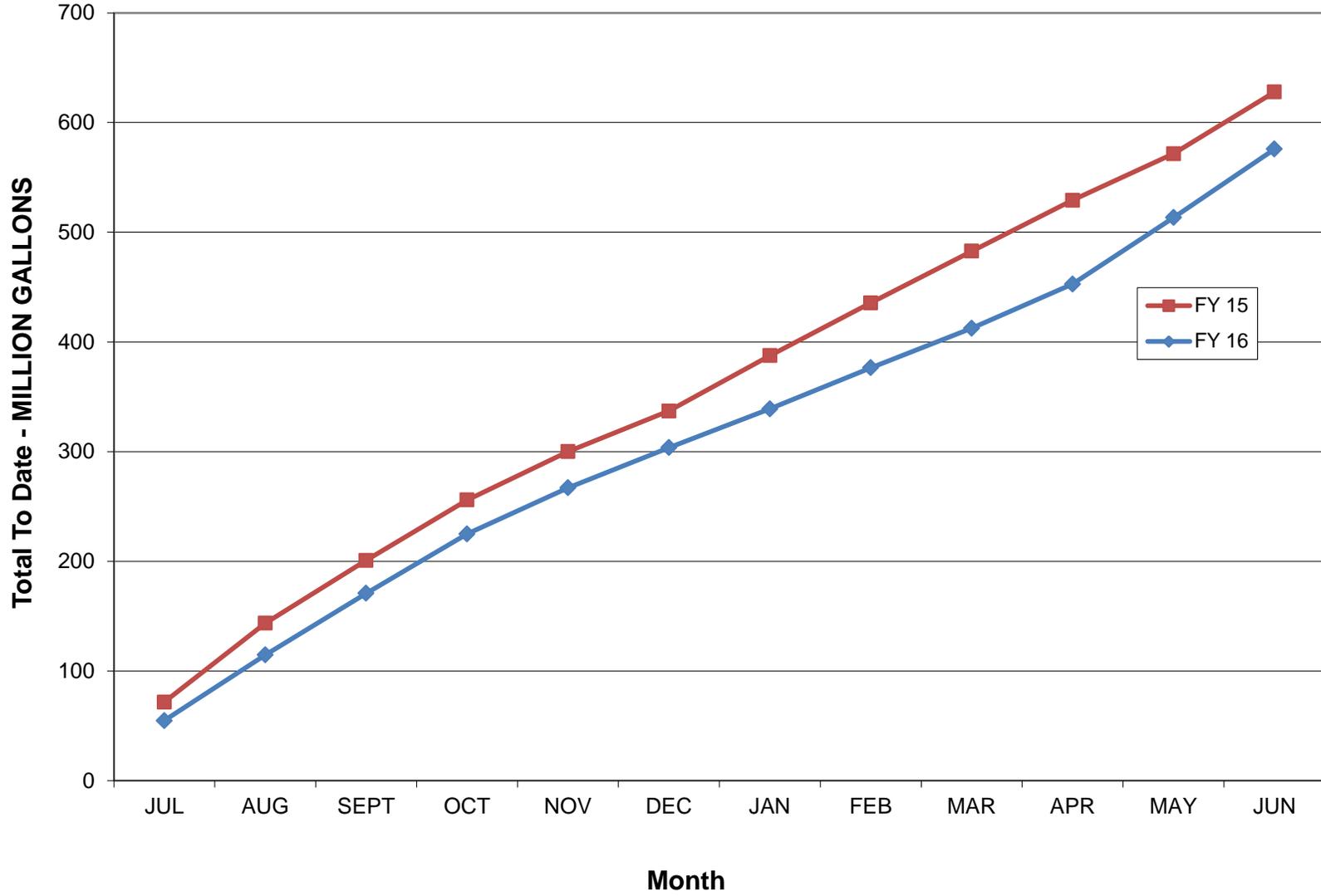
	Denniston Surface			Denniston Wells			Pilarcitos Wells			Pilarcitos Surface			SFWD CSP			SFWD Total	
	Actual MG	Predicted MG	pred-act	Actual MG	Predicted MG	pred-act	Actual MG	Predicted MG	pred-act	Actual MG	Predicted MG	pred-act	Actual MG	Predicted MG	pred-act	Actual MG	Predicted MG
Jul-15	0.00	2.32	2.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.33	62.94	5.61	57.33	62.94
Aug-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.00	65.62	3.62	62.00	65.62
Sep-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.07	52.90	-6.17	59.07	52.90
Oct-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.60	50.89	-5.71	56.60	50.89
Nov-15	0.00	0.97	0.97	0.00	0.01	0.01	2.07	4.94	2.87	0.00	0.00	0.00	42.44	35.50	-6.94	42.44	35.50
Dec-15	12.51	3.74	-8.77	0.00	0.20	0.20	9.44	8.98	-0.46	0.00	9.17	9.17	17.68	14.73	-2.95	17.68	23.90
Jan-16	11.84	8.23	-3.61	0.00	0.60	0.60	15.14	8.98	-6.16	0.00	36.69	36.69	10.96	0.00	-10.96	10.96	36.69
Feb-16	17.51	8.23	-9.28	0.00	0.60	0.60	11.08	8.98	-2.10	7.89	21.17	13.28	3.27	0.00	-3.27	11.16	21.17
Mar-16	9.33	8.23	-1.10	0.05	0.60	0.55	13.85	8.98	-4.87	15.86	29.63	13.77	0.11	0.00	-0.11	15.97	29.63
Apr-16	18.08	6.73	-11.35	0.00	0.60	0.60	13.24	0.00	-13.24	10.30	28.22	17.92	1.96	13.39	11.43	12.26	41.61
May-16	24.01	3.74	-20.27	0.00	0.60	0.60	2.45	0.00	-2.45	33.79	0.00	-33.79	4.03	62.06	58.03	37.82	62.06
Jun-16	18.80	3.74	-15.06	1.45	0.60	-0.85	0.00	0.00	0.00	39.29	0.00	-39.29	7.69	58.53	50.84	46.98	58.53
MG Totals	112.08	45.93	-66.15	1.50	3.81	2.31	67.27	40.85	-26.42	107.13	124.88	17.75	323.14	416.56	93.42	430.28	541.44

	Actual non SFPUC	Predicted non SFPUC	Actual SFPUC	Predicted SFPUC	TOTAL Actual	TOTAL Predicted	TOTAL Pred-act
	180.85	90.59	430.28	541.44	611.13	632.03	20.91
% Total	29.59%	14.33%	70.41%	85.67%	96.69%		

Monthly Production FY 15 vs FY 16



Cumulative Production FY 15 vs.FY16



Plant Water Use*			Unmetered Water								2016		MG	
	Denniston Plant	Nunes Plant	Total	Main Flushing	Detector Checks*	Main Breaks	Fire Dept	Miscellaneous	Denniston Holding Pond	Autoflush	Tank Level Difference	Total		
JAN	1.070	1.430	2.500	0.005	0.022	0.000	0.006	0.000	0.013	0.139	0.002	2.686		
FEB	1.220	1.130	2.350	0.001	0.012	0.010	0.000	0.000	0.011	0.139	-0.326	2.197		
MAR	0.850	1.610	2.460	0.000	0.011	0.010	0.030	0.013	0.270	0.139	0.274	3.206		
APR	1.740	1.400	3.140	0.000	0.008	0.030	0.000	0.000	0.000	0.139	0.149	3.466		
MAY	1.920	1.560	3.480	0.000	0.019	0.173	0.000	0.000	0.000	0.139	0.153	3.964		
JUN	1.740	1.790	3.530	0.872	0.010	0.309	0.000	0.000	0.000	0.139	0.006	4.867		
JUL												0.000		
AUG												0.000		
SEP												0.000		
OCT												0.000		
NOV												0.000		
DEC												0.000		
TOTAL	8.54	8.92	17.46	0.88	0.08	0.53	0.04			0.83	0.26	20.39		

* water removed from system and not returned

Denniston Samples	3009.33 gal/day	Dec	denniston overflow	0.069
Nunes Samples	8750.33 gal/day	Jan	denniston pond discharge	
		May	autoflush malfunction	0.1728

Plant Water Use*			Unmetered Water								2015		MG	
	Denniston Plant	Nunes Plant	Total	Main Flushing	Detector Checks*	Main Breaks	Fire Dept			Miscellaneous	Tank Level Difference	Total		
JAN	1.360	1.510	2.870	0.012	0.006	0.118	0.000			0.014	0.146	3.165		
FEB	1.030	1.240	2.270	0.000	0.010	0.000	0.000			0.014	0.066	2.359		
MAR	1.350	1.440	2.790	0.000	0.006	0.020	0.000			0.014	-0.129	2.701		
APR	1.240	1.510	2.750	0.000	0.010	0.014	0.100			0.014	-0.351	2.537		
MAY	0.020	1.580	1.600	0.000	0.007	0.299	0.000			0.014	-0.270	1.650		
JUN	2.090	0.000	2.090	0.000	0.025	0.105	0.000			0.014	0.669	2.904		
JUL	0.000	2.440	2.440	0.000	0.010	0.097	0.006			0.014	0.004	2.571		
AUG	0.000	2.500	2.500	0.000	0.010	0.000	0.000			0.019	-0.456	2.073		
SEP	0.000	2.300	2.300	0.005	0.138	0.065	0.000			0.014	0.408	2.930		
OCT	0.000	2.240	2.240	0.000	0.016	0.008	0.002			0.014	0.172	2.452		
NOV	0.000	2.690	2.690	0.004	0.029	0.000	0.000			0.014	-0.303	2.434		
DEC	1.110	1.750	2.860	0.000	0.010	0.040	0.020			0.090	0.025	3.045		
TOTAL	8.20	21.20	29.40	0.02	0.28	0.77	0.13			0.25	-0.02	30.82		

MONTH/YEAR

**Coastside County Water District Monthly Discharge Report
EMERGENCY MAIN AND SERVICE REPAIRS**

1	Date Reported Discovered	Date Repaired	Location	Pipe Class	Pipe Size & Type	Estimated Water Loss (Gallons)*	Environmental Damage? Y/N **	If Yes chlorine residual after dechlor	Equipment Costs	Material Costs	Employee hours		Labor Costs	Total Costs
											Staff	Hours		
	5/31/2016	6/3/16	811 Second Ave											
				S	3/4" Galv	200	N		\$450.00	\$200.00	3	3	\$450	\$1,100.00
2	6/4/2016	6/6/2016	Field behind Carnoustie's at the Golf Course											Andreini Repaired
				M	12" CI	288,000	N		\$350.00	\$400.00	1	7	\$350	\$1,100.00
3	6/6/2016	6/10/2016	675 Rail Road HMB											
				M	6" CI	15,000	N		\$750.00	\$420.00	3	5	\$750	\$1,920.00
4	6/17/2016	6/21/2016	652 Poplar HMB											
				S	3/4"	2,000	N		\$900.00	\$620.00	3	6	\$900	\$2,420.00
5	6/20/2016	6/22/2016	100 block Grove Street HMB											
				S	3/4"	1,500	N		\$600.00	\$565.00	3	4	\$600	\$1,765.00
6	6/22/2016	6/24/2016	Spyglass X Miramontes Point RD											
				M	8"	2,500	N		\$900.00	\$350.00	3	6	\$900	\$2,150.00
7														
														\$0.00
8														
														\$0.00
Totals						309,200			\$3,050.00	\$2,555.00	16	31	\$3,050	\$10,455.00
*includes 1,000 gallons for mains to daylight plus 1,000 gallons to flush mains or 100 gallons to flush services									** If Yes, include photos of damage			Staff x hours = 496		

MONTH/YEAR											
NEW WATER LINE FLUSHING REPORT								OTHER DISCHARGES			
	Date	Project/Location	Pipe Size & Type	Estimated Water Flushed (Gallons)	Chlorine Residual after dechlor	pH	Duration of Discharge (minutes)	Total Volumes (gallons)			
1								Flushing Program	872200		
2								Reservoir Cleaning			
3								Automatic Blowoffs			
3								Dewatering Operations			
4								Other (includes flow testing)			
DEWATERING OPERATIONS GREATER THAN 350,000 GALLONS (requires prenotification to CWRCB)									Number of planned or emergency discharges greater than 50,000 gallons		
	Date	Location	Volume	pH			Chlorine Residual after dechlor			Duration (min)	2
				5 min	20 min	end	5 min	20 min	end		
1											
2											
ANNUAL REPRESENTATIVE MONITORING											PLANNED DISCHARGES GRAND TOTAL (MG)
	Date	Location	Volume	pH	Chlorine Residual after dechlor						
1											

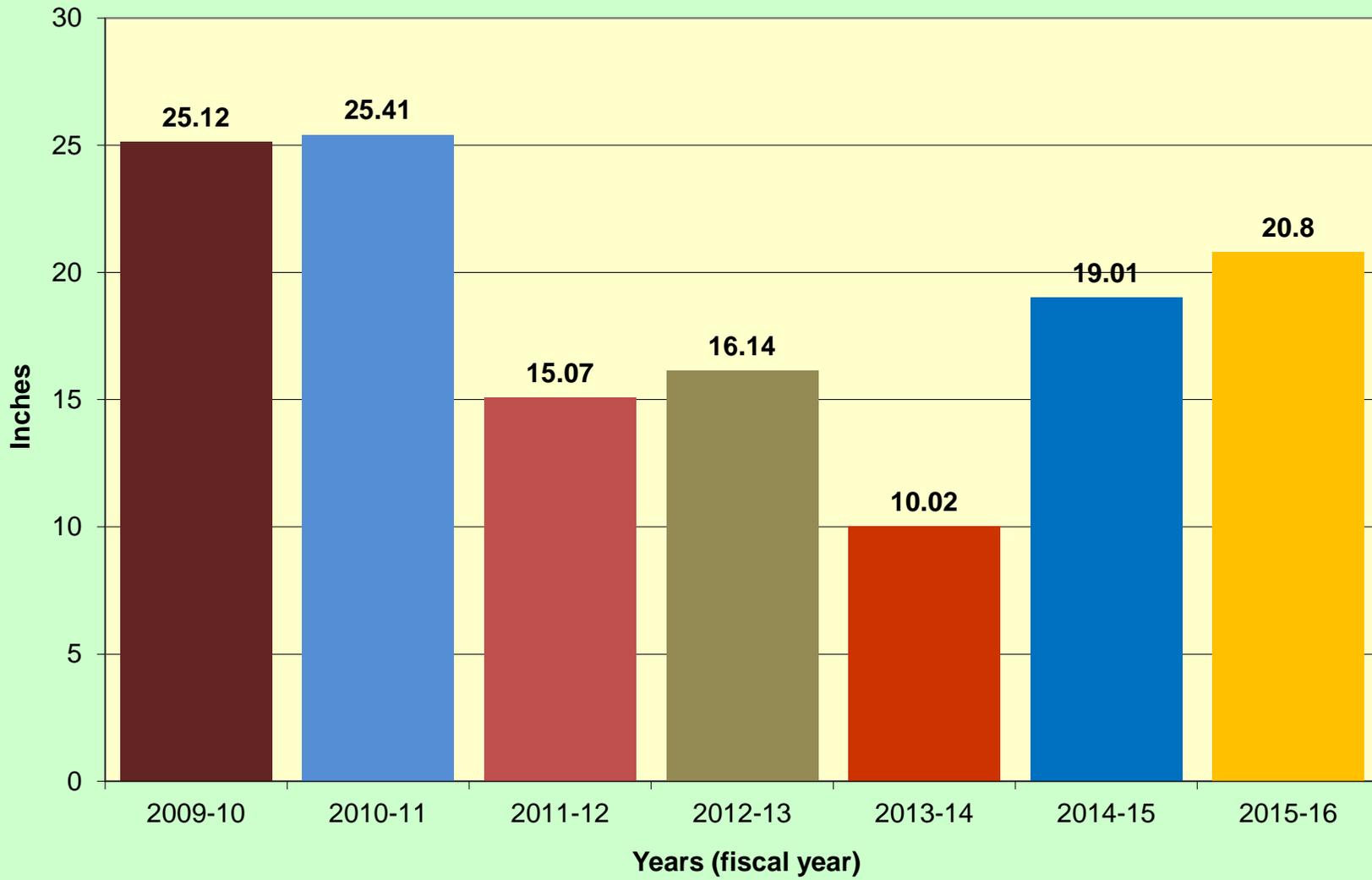
Coastside County Water District
 766 Main Street
 July 2015 - June 2016

District Office
 Rainfall in Inches

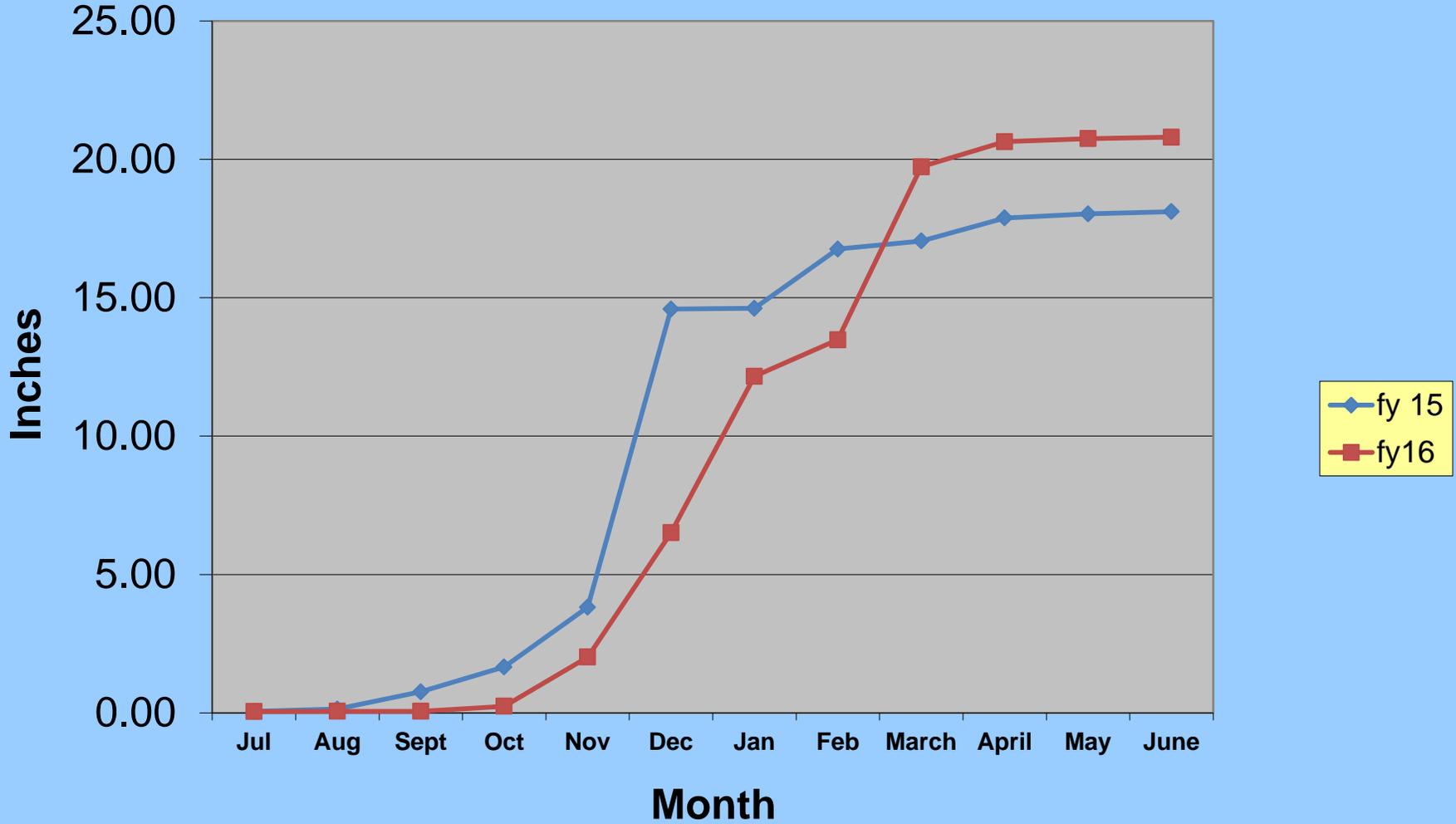
	2015						2016					
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June
1	0	0	0	0	0.05	0	0	0	0	0	0	0
2	0	0	0	0	0.57	0	0	0.33	0	0	0	0.01
3	0	0	0	0	0	0.37	0.06	0	0.1	0	0	0
4	0	0	0	0	0.01	0.02	0.12	0	0.44	0.01	0	0
5	0.01	0	0	0	0	0	1.04	0	1.84	0.01	0	0
6	0	0	0	0	0	0.14	0.91	0	0.98	0	0.03	0.01
7	0	0	0	0	0	0.02	0.05	0	0.22	0	0.01	0
8	0	0	0	0	0.02	0	0.01	0	0.04	0.18	0.01	0
9	0.02	0	0	0	0.32	0.01	0.01	0	0.13	0.3	0	0.01
10	0	0	0	0	0.01	0.44	0	0	0.76	0.18	0	0
11	0	0.01	0	0	0	0.1	0	0	0.4	0.00	0.01	0
12	0	0	0	0	0.01	0	0	0	0.37	0	0	0
13	0	0	0	0	0	0.33	0.22	0.01	0.59	0	0	0
14	0.01	0	0	0	0	0	0.15	0	0	0.1	0	0
15	0.01	0	0	0	0.53	0	0.15	0	0	0	0.01	0
16	0	0	0	0	0	0	0.12	0	0	0	0	0
17	0	0	0	0	0	0	0.87	0.6	0	0	0	0
18	0	0	0	0.05	0.01	0.38	0.26	0.17	0	0	0	0
19	0	0	0	0.05	0.01	0.09	0.9	0.15	0	0	0	0
20	0	0	0	0.01	0	0.89	0.01	0.01	0.3	0	0	0
21	0	0	0	0.01	0.01	1.13	0	0	0.06	0.01	0	0
22	0	0	0	0	0	0.23	0.24	0.01	0	0.08	0.03	0
23	0	0	0	0.01	0	0	0.23	0	0.01	0	0	0
24	0	0	0	0	0.18	0.25	0.01	0	0	0	0	0.01
25	0	0	0	0	0.05	0.03	0	0	0	0	0	0.01
26	0	0	0	0.01	0	0	0.01	0.02	0	0	0	0
27	0	0	0	0.03	0	0.02	0	0.01	0.01	0.04	0	0
28	0	0	0	0	0	0.02	0	0	0	0	0	0
29	0	0	0	0	0	0.01	0.28	0.01	0	0	0	0
30	0	0	0	0.01	0	0.01	0		0	0	0	0
31	0	0		0		0	0		0		0.01	
Mon.Total	0.05	0.01	0.00	0.18	1.78	4.49	5.65	1.32	6.25	0.91	0.11	0.05
Year Total	0.05	0.06	0.06	0.24	2.02	6.51	12.16	13.48	19.73	20.64	20.75	20.80

Rain Totals

Fiscal Years 10 - 16



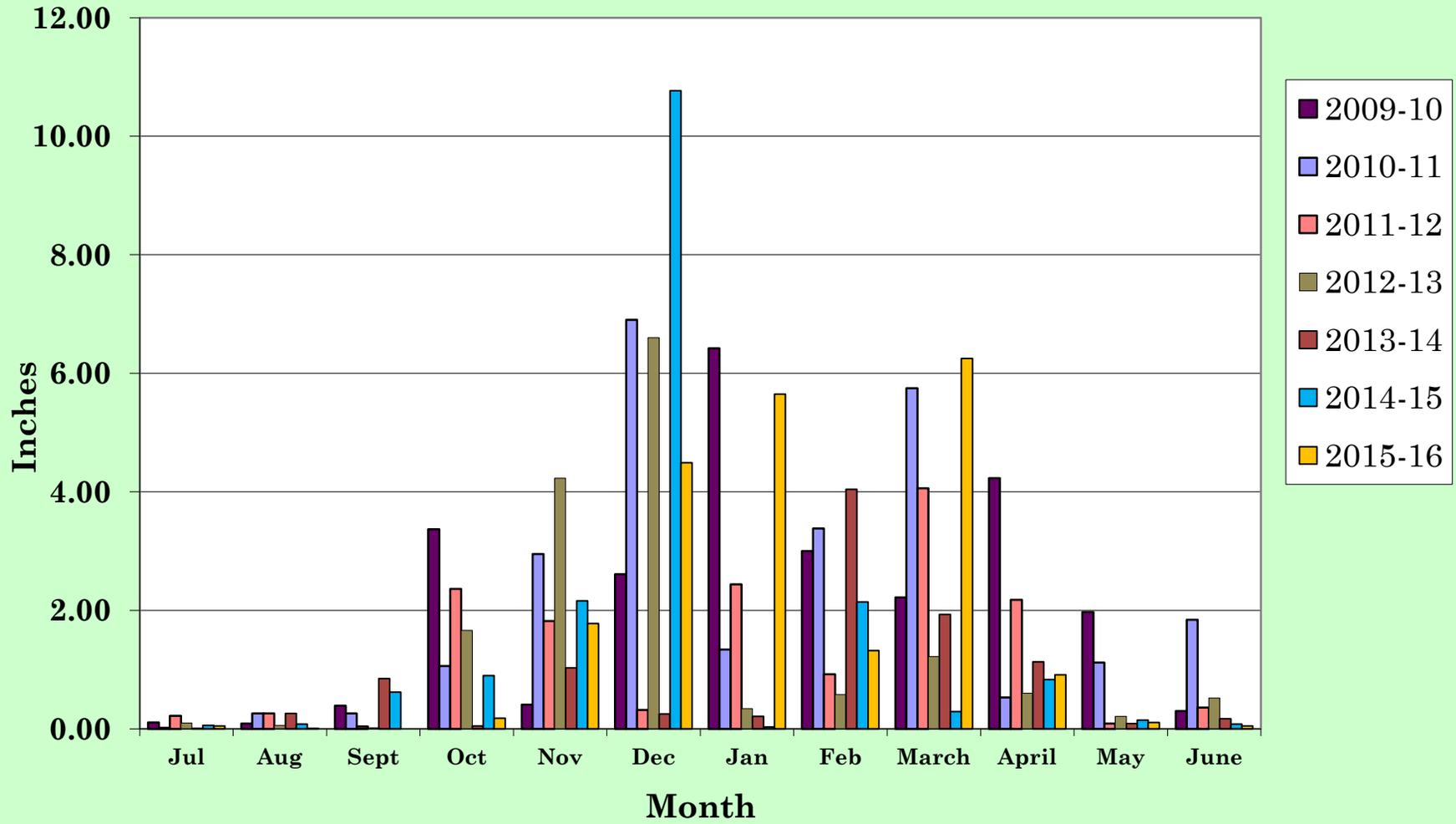
Rainfall Total Comparison Fiscal Years 15 and 16



Coastside County Water District

Rainfall by Month

Fiscal Years 09 - 15



MONTHLY CLIMATOLOGICAL SUMMARY for JUN. 2016

NAME: CCWD weather station CITY: STATE:
 ELEV: 80 ft LAT: 37° 18' 00" N LONG: 122° 18' 00" W

TEMPERATURE (°F), RAIN (in), WIND SPEED (mph)

DAY	MEAN TEMP	HIGH	TIME	LOW	TIME	HEAT DEG DAYS	COOL DEG DAYS	RAIN	AVG WIND SPEED	HIGH	TIME	DOM DIR
1	55.9	64.6	3:30p	50.0	5:00a	9.1	0.0	0.00	1.5	12.0	4:00p	WSW
2	55.4	61.9	3:00p	50.8	12:00m	9.6	0.0	0.01	1.1	10.0	3:30p	W
3	56.2	67.3	4:00p	45.4	6:00a	8.9	0.0	0.00	1.0	9.0	3:00p	W
4	57.0	66.5	4:00p	50.1	4:30a	8.0	0.0	0.00	1.3	14.0	11:00a	WSW
5	56.7	66.5	2:00p	53.5	7:30a	8.3	0.0	0.00	1.1	9.0	2:00p	W
6	57.1	63.7	4:00p	51.6	6:00a	7.9	0.0	0.01	1.5	10.0	2:00p	W
7	59.1	65.1	2:30p	55.2	5:30a	5.9	0.0	0.00	1.5	10.0	2:00p	W
8	59.0	65.7	3:30p	56.0	6:30a	6.0	0.0	0.00	1.5	11.0	3:30p	W
9	58.4	61.4	12:30p	56.2	8:30a	6.6	0.0	0.01	1.8	11.0	11:00a	W
10	58.3	64.1	3:00p	50.4	12:00m	6.7	0.0	0.00	2.1	15.0	2:00p	W
11	57.0	69.2	12:30p	44.7	6:00a	8.3	0.3	0.00	1.4	14.0	3:00p	WSW
12	59.3	67.7	3:30p	50.3	1:30a	6.1	0.4	0.00	2.7	17.0	11:00a	WSW
13	57.6	62.3	4:00p	54.4	5:00a	7.4	0.0	0.00	2.6	12.0	1:00p	W
14	57.2	62.1	3:00p	53.8	5:30a	7.8	0.0	0.00	2.9	15.0	1:30p	W
15	57.6	64.0	4:00p	51.8	12:00m	7.4	0.0	0.00	2.8	13.0	1:30p	W
16	60.5	69.6	2:30p	49.9	2:30a	5.0	0.5	0.00	1.8	10.0	3:30p	W
17	61.7	72.8	11:00a	56.3	3:30a	4.3	0.9	0.00	1.9	16.0	12:30p	W
18	59.8	67.3	5:30p	51.2	6:30a	5.4	0.2	0.00	1.9	16.0	3:00p	W
19	62.1	78.3	11:00a	50.0	12:00m	5.5	2.6	0.00	1.7	14.0	5:00p	W
20	56.1	64.1	4:00p	46.1	4:00a	8.9	0.0	0.00	1.5	14.0	3:30p	W
21	57.2	65.7	3:30p	49.2	4:00a	7.9	0.0	0.00	1.6	12.0	6:30p	W
22	55.9	58.4	6:00p	53.3	12:30a	9.1	0.0	0.00	1.4	11.0	4:00p	W
23	58.2	64.8	3:30p	53.9	6:30a	6.8	0.0	0.00	2.7	16.0	2:30p	W
24	57.0	64.9	6:00p	50.6	12:00m	8.0	0.0	0.01	1.4	14.0	4:00p	W
25	55.3	63.6	3:30p	45.4	6:30a	9.7	0.0	0.01	1.4	13.0	4:30p	W
26	55.4	61.5	2:00p	49.9	1:00a	9.6	0.0	0.00	1.4	11.0	3:30p	W
27	55.6	61.7	4:30p	50.5	12:00m	9.4	0.0	0.00	1.6	12.0	3:00p	W
28	54.4	59.4	1:00p	49.0	2:30a	10.6	0.0	0.00	1.6	12.0	2:00p	W
29	53.6	56.6	3:30p	51.1	5:30a	11.4	0.0	0.00	1.1	10.0	1:30p	W
30	55.4	64.1	4:00p	50.8	12:00m	9.6	0.0	0.00	1.5	10.0	1:30p	W
	57.3	78.3	19	44.7	11	235.2	4.9	0.05	1.7	17.0	12	W

Max >= 90.0: 0
 Max <= 32.0: 0
 Min <= 32.0: 0
 Min <= 0.0: 0

Max Rain: 0.01 ON 06/02/16

Days of Rain: 0 (>.01 in) 0 (>.1 in) 0 (>1 in)

Heat Base: 65.0 Cool Base: 65.0 Method: Integration

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Dave Dickson, General Manager

Agenda: July 12, 2016

Date: July 8, 2016

Subject: Award of Contract - El Granada Tank 3 Recoating Project

Recommendation:

Reject the low bid of Euro style Management, Inc. as non-responsive and authorize the General Manager to contract with Canyon Springs Enterprises to repair, reline and recoat El Granada Tank 3 for a cost of \$683,320.

Background:

The last inspection of the El Granada Tank 3 in 2008 revealed that the internal lining is in very poor condition. The exterior coating is also in poor condition as is also the fiberglass ladder. The bottom chime is in poor to very poor condition also. District Engineer Jim Teter prepared project documents for the repair and recoating of the tank, and we went out to bid in May. The bids were opened on June 21 with the following results:

Euro Style Management Inc. -	\$614,800
Canyon Springs Enterprises -	\$683,320
Spiess Construction -	\$695,130
Blastco Inc. -	\$760,000

Staff evaluated the low bidder's compliance with the District's bidding requirements and determined that Euro Style Management Inc. does not meet the requirement in Special Provisions SP2.16 (Responsibility of Bidders) that the contractor must have held an "A" contractor's license for at least five years. The low bidder was therefore considered a non-responsive bidder. The second low bidder, Canyon Springs Enterprises, meets all requirements. Canyon Springs submitted a protest, dated June 21, 2016, noting that Euro Style Management did not meet the District's experience requirements.

Fiscal Impact:

Funding for this project is included in the finalized Fiscal Year 2016/2017 Capital Improvement Program Budget.

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, Assistant General Manager

Agenda: July 12, 2016

Report

Date: July 8, 2016

Subject: Fiscal 2015-2016 Year End – Preliminary Financial Results

Recommendation:

Information Only.

Background:

The attached Period Budget Analysis summarizes preliminary results for Fiscal Year ending June 30, 2016. The results include preliminary estimates of year-end expense accruals but exclude depreciation, year-end audit and other adjustments to be finalized by December, 2016. Key highlights include:

- Year-to-date operating revenue is \$409,000 below budget primarily due to lower than projected water use (4.1%), offset by higher non-operating revenues of \$313,000 primarily from property tax receipts and ERAF Refund.
- Year-to-date expenses were \$888,000 under plan, including:
 - Water purchased from SFPUC reflects savings of \$489,000, due to:
 - Lower water usage (\$118,000), and
 - Increased use of local sources over prior years (\$371,000).
 - Personnel and benefit expenses reflect savings of \$247,000 primarily due to delays in hiring open positions (Water Efficiency Specialist and Office Specialist) and a delay in hiring a Utility Billing Specialist (budgeted for full year, but hired in October, 2015.)
 - Other savings of \$152,000, primarily savings in electricity costs, consulting, and community outreach expenses.

Despite revenue shortfalls, the District's Net Income/Contribution to CIP was \$2,541,000 as compared to a budget of \$1,800,000, primarily due to the significant push in the latter part of the year to utilize local source water.

CIP

Preliminary expenditures for CIP for Fiscal Year 2015-2016 are \$2,739,000 vs. \$4,284,000 in the District's original plan. This difference primarily reflects \$1M savings on projected costs for the El Granada Pipeline Final Phase Replacement Project.

COASTSIDE COUNTY WATER DISTRICT - PERIOD BUDGET ANALYSIS
June 30, 2016

ACCOUNT	DESCRIPTION	YTD BUDGET	YTD ACTUAL	Variance Favorable (Unfavorable)	% Variance
OPERATING REVENUE					
1-0-4120-00	Water Revenue -All Areas	9,863,916.00	9,455,013.28	(408,902.72)	-4.1%
TOTAL OPERATING REVENUE		9,863,916.00	9,455,013.28	(408,902.72)	-4.1%
NON-OPERATING REVENUE					
1-0-4170-00	Water Taken From Hydrants	40,000.00	79,985.92	39,985.92	100.0%
1-0-4180-00	Late Notice -10% Penalty	90,000.00	60,652.39	(29,347.61)	-32.6%
1-0-4230-00	Service Connections	10,000.00	16,192.70	6,192.70	61.9%
1-0-4920-00	Interest Earned	2,550.00	3,595.17	1,045.17	41.0%
1-0-4930-00	Tax Apportionments/Cnty Checks	600,000.00	776,795.15	176,795.15	29.5%
1-0-4950-00	Miscellaneous Income	37,000.00	25,202.87	(11,797.13)	-31.9%
1-0-4955-00	Cell Site Lease Income	139,245.00	143,804.22	4,559.22	3.3%
1-0-4965-00	ERAF REFUND -County Taxes	200,000.00	325,710.11	125,710.11	0.0%
1-0-4990-00	Water Sales Refunded	0.00	0.00	0.00	0.0%
TOTAL NON-OPERATING REVENUE		1,118,795.00	1,431,938.53	313,143.53	28.0%
TOTAL REVENUES		10,982,711.00	10,886,951.81	(95,759.19)	-0.9%
OPERATING EXPENSES					
1-1-5130-00	Water Purchased	2,871,947.00	2,382,768.96	489,178.04	17.0%
1-1-5230-00	Pump Exp, Nunes T P	29,500.00	27,845.97	1,654.03	5.6%
1-1-5231-00	Pump Exp, CSP Pump Station	307,052.00	283,856.56	23,195.44	7.6%
1-1-5232-00	Pump Exp, Trans. & Dist.	12,800.00	16,921.61	(4,121.61)	-32.2%
1-1-5233-00	Pump Exp, Pilarcitos Canyon	18,000.00	38,643.67	(20,643.67)	-114.7%
1-1-5234-00	Pump Exp. Denniston Proj.	90,100.00	51,813.18	38,286.82	42.5%
1-1-5242-00	CSP Pump Station Operations	8,500.00	9,612.79	(1,112.79)	-13.1%
1-1-5243-00	CSP Pump Station Maintenance	37,000.00	7,768.49	29,231.51	79.0%
1-1-5246-00	Nunes T P Operations	52,764.00	54,903.84	(2,139.84)	-4.1%
1-1-5247-00	Nunes T P Maintenance	55,500.00	79,695.04	(24,195.04)	-43.6%
1-1-5248-00	Denniston T.P. Operations	30,000.00	30,937.84	(937.84)	-3.1%
1-1-5249-00	Denniston T.P. Maintenance	32,000.00	39,020.96	(7,020.96)	-21.9%
1-1-5250-00	Laboratory Services	40,000.00	56,545.61	(16,545.61)	-41.4%
1-1-5260-00	Maintenance -General	268,500.00	229,985.66	38,514.34	14.3%
1-1-5261-00	Maintenance -Well Fields	40,000.00	61,970.10	(21,970.10)	-54.9%
1-1-5263-00	Uniforms	0.00	5,318.53	(5,318.53)	0.0%

ACCOUNT	DESCRIPTION	YTD BUDGET	YTD ACTUAL	Variance Favorable (Unfavorable)	% Variance
1-1-5318-00	Studies/Surveys/Consulting	240,000.00	177,934.99	62,065.01	25.9%
1-1-5321-00	Water Resources	37,000.00	43,114.61	(6,114.61)	-16.5%
1-1-5322-00	Community Outreach	95,100.00	35,856.66	59,243.34	62.3%
1-1-5381-00	Legal	60,000.00	113,210.14	(53,210.14)	-88.7%
1-1-5382-00	Engineering	14,000.00	14,344.79	(344.79)	-2.5%
1-1-5383-00	Financial Services	24,000.00	16,380.00	7,620.00	31.8%
1-1-5384-00	Computer Services	103,800.00	84,106.66	19,693.34	19.0%
1-1-5410-00	Salaries/Wages-Administration	1,061,780.00	897,443.44	164,336.56	15.5%
1-1-5411-00	Salaries & Wages -Field	1,118,506.00	1,097,998.76	20,507.24	1.8%
1-1-5420-00	Payroll Tax Expense	153,056.00	142,940.19	10,115.81	6.6%
1-1-5435-00	Employee Medical Insurance	527,457.00	453,136.92	74,320.08	14.1%
1-1-5436-00	Retiree Medical Insurance	0.00	28,443.24	(28,443.24)	
1-1-5440-00	Employees Retirement Plan	505,322.00	496,896.35	8,425.65	1.7%
1-1-5445-00	Supplemental Retirement 401a	30,000.00	32,400.00	(2,400.00)	0.0%
1-1-5510-00	Motor Vehicle Expense	55,650.00	45,084.45	10,565.55	19.0%
1-1-5620-00	Office Supplies & Expense	164,475.00	197,267.50	(32,792.50)	-19.9%
1-1-5625-00	Meetings / Training / Seminars	24,000.00	16,097.79	7,902.21	32.9%
1-1-5630-00	Insurance	115,000.00	109,288.48	5,711.52	5.0%
1-1-5687-00	Membership, Dues, Subscript.	71,290.00	58,401.07	12,888.93	18.1%
1-1-5688-00	Election Expenses	25,000.00	0.00	25,000.00	0.0%
1-1-5689-00	Labor Relations	6,000.00	0.00	3,000.00	50.0%
1-1-5700-00	San Mateo County Fees	17,700.00	16,984.84	715.16	4.0%
1-1-5705-00	State Fees	16,000.00	15,770.86	229.14	1.4%
TOTAL OPERATING EXPENSES		8,358,799.00	7,470,710.55	888,088.45	10.6%
CAPITAL ACCOUNTS					
1-1-5712-00	Debt Svc/Existing Bonds 2006B	485,889.00	482,491.78	3,397.22	0.0%
1-1-5715-00	Debt Svc/CIEDB 11-099 (I-BANK)	338,024.00	336,545.79	1,478.21	0.4%
1-1-5716-00	Debt Svc/CIEB 2016 (I-BANK)		56,280.00	(56,280.00)	
TOTAL CAPITAL ACCOUNTS		823,913.00	875,317.57	(51,404.57)	-6.2%
TOTAL EXPENSES		9,182,712.00	8,346,028.12	836,683.88	9.1%
CONTRIBUTION TO CIP/RESERVES		1,799,999.00	2,540,923.69		

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Cathleen Brennan, Water Resources Analyst
via David R. Dickson, General Manager

Agenda: July 12, 2016

Report Date: July 7, 2016

Subject: Amended and Restated Drought Ordinance

Attachments: Attachment A: Executive Order B-37-16
Attachment B: State Water Resources Control Board Resolution No. 2016-0029
Attachment C: Proposed Ordinance No. 2016-01 (strike out version)
Attachment D: Proposed Ordinance No. 2016-01 (clean copy)

Recommendation:

Adopt Ordinance No. 2016-01 restating emergency water conservation and water use restrictions and prohibitions under a Stage 2-Water Shortage Emergency Warning of Coastside County Water District's Water Shortage Contingency Plan.

Background

Coastside County Water District (District) is currently under a Stage 2 - Water Shortage Emergency Warning of the District's Water Shortage Contingency Plan with a state mandated 8 percent water conservation standard on monthly water production, when compared to the same month in calendar year 2013. The District implemented Ordinance 2015-01 in June of 2015 to be able to enforce the 8 percent conservation standard. The District actually achieved a cumulative water savings since June 2015 of 21.6 percent.



During the current water year of 2016, drought conditions have slightly improved, but the state is still in a water deficit. In response, Governor Brown issued an executive order calling for extended water conservation efforts that fit regional water conditions.

Implementing Governor Brown's executive order, the State Water Resources Control Board (SWRCB) allowed for regions or water suppliers with improved water supplies to submit a Self-Certification of Water Supply Reliability to achieve a revised conservation standard.

In addition to the SWRCB's conservation regulations, the SFPUC has requested that its wholesale customers achieve a 10 percent reduction in purchases.

Executive Order No. B-37-16

The Governor's new executive order was in response to the persistent drought conditions in many areas of the state and predictions of continued drought conditions into water year 2017 and beyond.

The executive order focuses on the four following actions:

1. Using Water More Wisely
 - Customized Water Use Targets;
2. Eliminating Water Waste
 - End User Requirements;
3. Strengthening Local Drought Resilience
 - Amending Water Shortage Contingency Plans; and
4. Improving Agricultural Water Use Efficiency and Drought Planning
 - Agricultural Water Management Plans

SWRCB Resolution No. 2016-0029

As an urban water supplier, the District is required to do the following:

1. Ensure adequate personnel and financial resources exist to implement conservation requirements not only for 2016, but also for another year of drought should it occur. Water suppliers that face budget shortfalls due to reduced sales should take immediate steps to raise necessary revenues in a way that actively promotes continued conservation.
2. Expedite implementation of new conservation programs by minimizing internal review periods and utilizing emergency authorities, as appropriate.
3. Consider the relative water use and conservation practices of their customers and target those with higher water use to achieve proportionally greater reductions than those with low use.
4. Minimize financial impacts to low-income customers.
5. Preserve safe indoor water supplies in areas with very low residential gallons per day per capita (R-GPCD) and were necessary to protect public health and safety.
6. Promote low-water use methods of preserving appropriate defensible space in fire-prone areas, consistent with local fire district requirements.
7. Educate customers on the preservation of trees.
8. Promote on-site reuse of water
9. Promptly notify SWRCB staff of the supplier's need for an alternate method of compliance for any supplier that retains a conservation standard.

The District submitted the required documents for the self-certification of supply reliability for three additional years of drought. If the SWRCB accepts the certification, the District would have a zero water conservation standard, instead of the current 8 percent standard. The certification assumes that specific end-user requirements would remain in effect and that total demand, including non-revenue water, will remain under 724 MG per year.

Proposed Ordinance No. 2016-01

The proposed ordinance lists prohibitions and restrictions consistent with the SWRCB emergency regulations and the District's Water Shortage Contingency Plan. The purpose of this ordinance is to meet both the state's conservation standards and the San Francisco Public Utilities Commission's request for a 10 percent reduction in water purchases.

Section 3 contains the prohibited activities in promotion of water conservation. The goal of these prohibitions is to prevent water waste with clear descriptions of prohibited activities and specific end user requirements. This section combines water waste prohibitions found in the District's Water Waste Ordinance No. 2008-01 and the prohibitions found in the SWRCB (CCR Title 23 Section 864) Resolution No. 2016-0029.

Section 4 has been amended to remove the irrigation restrictions and calls for a general 10 percent voluntary conservation standard to reflect SFPUC's 10 percent water savings request system-wide.

This ordinance does not address all of the end-user restrictions under section 864. New landscapes at residential and commercial properties, commercial properties that use other water sources, and prohibitions imposed on home owner associations are not addressed in this ordinance.

The District is still required to meet water conservation goals. If the monthly reporting shows a trend of increasing water usage, the SWRCB may implement the tiered conservation standards again or other mandated conservation standards. In addition, SFPUC is continuing to ask for a voluntary 10% reduction in purchases from the wholesale customers.

By adopting Ordinance No. 2016-01, the Board establishes mandatory water use restrictions and prohibitions and enforcement thereof. It would become effective after it is published in a newspaper of general circulation and posted on the District's website. It shall remain in effect until the District cancels implementation of Stage 2 - Water Shortage Emergency Warning.

Impacts to District

With the easing of irrigation restrictions, there is the possibility that customers will respond by increasing their irrigation frequency and the District will see an increase in water sales.

Executive Department
State of California

EXECUTIVE ORDER B-37-16
MAKING WATER CONSERVATION A CALIFORNIA WAY OF LIFE

WHEREAS California has suffered through a severe multi-year drought that has threatened the water supplies of communities and residents, devastated agricultural production in many areas, and harmed fish, animals and their environmental habitats; and

WHEREAS Californians responded to the drought by conserving water at unprecedented levels, reducing water use in communities by 23.9% between June 2015 and March 2016 and saving enough water during this period to provide 6.5 million Californians with water for one year; and

WHEREAS severe drought conditions persist in many areas of the state despite recent winter precipitation, with limited drinking water supplies in some communities, diminished water for agricultural production and environmental habitat, and severely-depleted groundwater basins; and

WHEREAS drought conditions may persist in some parts of the state into 2017 and beyond, as warmer winter temperatures driven by climate change reduce water supply held in mountain snowpack and result in drier soil conditions; and

WHEREAS these ongoing drought conditions and our changing climate require California to move beyond temporary emergency drought measures and adopt permanent changes to use water more wisely and to prepare for more frequent and persistent periods of limited water supply; and

WHEREAS increasing long-term water conservation among Californians, improving water use efficiency within the state's communities and agricultural production, and strengthening local and regional drought planning are critical to California's resilience to drought and climate change; and

WHEREAS these activities are prioritized in the California Water Action Plan, which calls for concrete, measurable actions that "Make Conservation a California Way of Life" and "Manage and Prepare for Dry Periods" in order to improve use of water in our state.

NOW, THEREFORE, I, EDMUND G. BROWN JR., Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, in particular California Government Code sections 8567 and 8571, do hereby issue this Executive Order, effective immediately.

IT IS HEREBY ORDERED THAT:

The orders and provisions contained in my January 17, 2014 Emergency Proclamation, my April 25, 2014 Emergency Proclamation, Executive Orders B-26-14, B-28-14, B-29-15, and B-36-15 remain in full force and in effect except as modified herein.

State agencies shall update temporary emergency water restrictions and transition to permanent, long-term improvements in water use by taking the following actions.

USE WATER MORE WISELY

1. The State Water Resources Control Board (Water Board) shall, as soon as practicable, adjust emergency water conservation regulations through the end of January 2017 in recognition of the differing water supply conditions across the state. To prepare for the possibility of another dry winter, the Water Board shall also develop, by January 2017, a proposal to achieve a mandatory reduction in potable urban water usage that builds off of the mandatory 25% reduction called for in Executive Order B-29-15 and lessons learned through 2016.
2. The Department of Water Resources (Department) shall work with the Water Board to develop new water use targets as part of a permanent framework for urban water agencies. These new water use targets shall build upon the existing state law requirements that the state achieve a 20% reduction in urban water usage by 2020. (Senate Bill No. 7 (7th Extraordinary Session, 2009-2010).) These water use targets shall be customized to the unique conditions of each water agency, shall generate more statewide water conservation than existing requirements, and shall be based on strengthened standards for:
 - a. Indoor residential per capita water use;
 - b. Outdoor irrigation, in a manner that incorporates landscape area, local climate, and new satellite imagery data;
 - c. Commercial, industrial, and institutional water use; and
 - d. Water lost through leaks.

The Department and Water Board shall consult with urban water suppliers, local governments, environmental groups, and other partners to develop these water use targets and shall publicly issue a proposed draft framework by January 10, 2017.

3. The Department and the Water Board shall permanently require urban water suppliers to issue a monthly report on their water usage, amount of conservation achieved, and any enforcement efforts.

ELIMINATE WATER WASTE

4. The Water Board shall permanently prohibit practices that waste potable water, such as:
 - Hosing off sidewalks, driveways and other hardscapes;
 - Washing automobiles with hoses not equipped with a shut-off nozzle;
 - Using non-recirculated water in a fountain or other decorative water feature;
 - Watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and
 - Irrigating ornamental turf on public street medians.
5. The Water Board and the Department shall direct actions to minimize water system leaks that waste large amounts of water. The Water Board, after funding projects to address health and safety, shall use loans from the Drinking Water State Revolving Fund to prioritize local projects that reduce leaks and other water system losses.
6. The Water Board and the Department shall direct urban and agricultural water suppliers to accelerate their data collection, improve water system management, and prioritize capital projects to reduce water waste. The California Public Utilities Commission shall order investor-owned water utilities to accelerate work to minimize leaks.
7. The California Energy Commission shall certify innovative water conservation and water loss detection and control technologies that also increase energy efficiency.

STRENGTHEN LOCAL DROUGHT RESILIENCE

8. The Department shall strengthen requirements for urban Water Shortage Contingency Plans, which urban water agencies are required to maintain. These updated requirements shall include adequate actions to respond to droughts lasting at least five years, as well as more frequent and severe periods of drought. While remaining customized according to local conditions, the updated requirements shall also create common statewide standards so that these plans can be quickly utilized during this and any future droughts.
9. The Department shall consult with urban water suppliers, local governments, environmental groups, and other partners to update requirements for Water Shortage Contingency Plans. The updated draft requirements shall be publicly released by January 10, 2017.

10. For areas not covered by a Water Shortage Contingency Plan, the Department shall work with counties to facilitate improved drought planning for small water suppliers and rural communities.

IMPROVE AGRICULTURAL WATER USE EFFICIENCY AND DROUGHT PLANNING

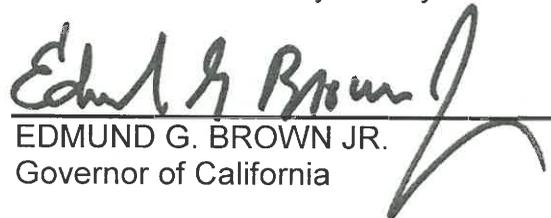
11. The Department shall work with the California Department of Food and Agriculture to update existing requirements for Agricultural Water Management Plans to ensure that these plans identify and quantify measures to increase water efficiency in their service area and to adequately plan for periods of limited water supply.
12. The Department shall permanently require the completion of Agricultural Water Management Plans by water suppliers with over 10,000 irrigated acres of land.
13. The Department, together with the California Department of Food and Agriculture, shall consult with agricultural water suppliers, local governments, agricultural producers, environmental groups, and other partners to update requirements for Agricultural Water Management Plans. The updated draft requirements shall be publicly released by January 10, 2017.

The Department, Water Board and California Public Utilities Commission shall develop methods to ensure compliance with the provisions of this Executive Order, including technical and financial assistance, agency oversight, and, if necessary, enforcement action by the Water Board to address non-compliant water suppliers.

This Executive Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

I FURTHER DIRECT that as soon as hereafter possible, this order be filed in the Office of the Secretary of State and that widespread publicity and notice be given of this order.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 9th day of May 2016.


EDMUND G. BROWN JR.
Governor of California

ATTEST:

ALEX PADILLA
Secretary of State

**STATE WATER RESOURCES CONTROL BOARD
RESOLUTION NO. 2016-0029**

TO ADOPT AN EMERGENCY REGULATION FOR
STATEWIDE URBAN WATER CONSERVATION

WHEREAS:

1. On April 25, 2014, Governor Edmund G. Brown Jr. issued an executive order ([April 2014 Proclamation](#)) to strengthen the State's ability to manage water and habitat effectively in drought conditions, and called on all Californians to redouble their efforts to conserve water. The April 2014 Proclamation finds that the continuous severe drought conditions present urgent challenges across the State, including water shortages in communities and for agricultural production, increased wildfires, degraded habitat for fish and wildlife, threat of saltwater contamination, and additional water scarcity, if drought conditions continue into 2015. It orders that any provision of the governing document, architectural or landscaping guidelines, or policies of a common interest development will be void and unenforceable to the extent it has the effect of prohibiting compliance with the water-saving measures contained in this directive, or any conservation measure adopted by a public agency or private water company. The April 2014 Proclamation also suspends the environmental review required by the California Environmental Quality Act to allow the emergency regulation and other actions to take place as quickly as possible;
2. The April 2014 Proclamation references the [Governor's January 17, 2014 declaration of a drought State of Emergency in California due to severe drought conditions \(Proclamation No. 1-17-2014\)](#), January 2014 Proclamation). The January 2014 Proclamation finds that dry conditions and lack of precipitation present urgent problems to drinking water supplies and cultivation of crops, which put farmers' long-term investments at risk. The conditions also threaten the survival of animals and plants that rely on California's rivers, including many species in danger of extinction. The January 2014 Proclamation also calls on all Californians to reduce their water usage by 20 percent;
3. On December 22, 2014, in light of the continued lack of rain, Governor Brown issued [Executive Order B-28-14](#), which extends the California Environmental Quality Act suspension through May 31, 2016 for Water Code section 13247 and certain activities identified in the January 2014 and April 2014 proclamations;
4. On April 1, 2015, Governor Brown issued [Executive Order B-29-15](#) that directs the State Water Board to impose restrictions on urban water suppliers to achieve a statewide 25 percent reduction in potable urban usage through February 2016; require commercial, industrial, and institutional users to implement water efficiency measures; prohibit irrigation with potable water of ornamental turf in public street medians; and prohibit irrigation with potable water outside newly constructed homes and buildings that is not delivered by drip or microspray systems; along with other directives;

5. On May 5, 2015, the State Water Resources Control Board (State Water Board) adopted [Board Resolution No. 2015-0032](#) and an Emergency Regulation to address specific provisions of Executive Order B-29-2015 that included a mandatory 25 percent statewide reduction in potable urban water use between June 2015 and February 2016. To implement the Executive Order, the Emergency Regulation placed each urban water supplier in a conservation tier, ranging between 8 and 36 percent, based residential per capita water use for the months of July – September 2014. Resolution No. 2015-0032 also directed staff to work with stakeholders to further develop and consider a range of factors that contribute to water use, including but not limited to climate, growth, investment in local, drought resilient supplies, and others for adjustment to the current emergency regulation should it need to be extended into 2016;
6. On November 13, 2015, Governor Brown issued [Executive Order B-36-15](#) calling for an extension of urban water use restrictions until October 31, 2016, should drought conditions persist through January 2016. This Executive Order also directs the State Water Board to consider modifying the restrictions to incorporate insights gained from the existing restrictions;
7. On February 2, 2016, the State Water Board adopted [Board Resolution No. 2016-0007](#) and a revised, extended Emergency Regulation to address specific provisions of Executive Order B-36-15. The Emergency Regulation established adjustments to reduce the conservation standards of urban water suppliers in consideration of the differences in climate affecting different parts of the state, growth experienced by urban areas, and significant investments that have been made by some suppliers towards creating new, local, drought-resilient sources of potable water supply;
8. On May 9, 2016, Governor Brown issued [Executive Order B-37-16](#) calling on the State Water Board to adjust emergency water conservation regulations through the end of January 2017 in recognition of differing water supply conditions across the state;
9. Statewide precipitation in 2016 has been variable. Northern California received above-average rainfall, while much of southern California continued to experience below-average rainfall and warm temperatures. February 2016 was amongst the warmest and driest recorded for parts of southern California. Consequently, while major Northern California water reservoirs are near or above average water storage for this time of year, many Southern California reservoirs are significantly below average. In addition, the snowpack is melting fast and as of early May is at less than 50 percent of the average for this time of year;
10. Water Code section 1058.5 grants the State Water Board the authority to adopt emergency regulations in certain drought years in order to: “prevent the waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion, of water, to promote water recycling or water conservation, to require curtailment of diversions when water is not available under the diverter’s priority of right, or in furtherance of any of the foregoing, to require reporting of diversion or use or the preparation of monitoring reports”;
11. On July 15, 2014, the State Water Board adopted an emergency regulation to support water conservation ([Resolution No. 2014-0038](#)). That regulation became effective July 28, 2014 upon approval by the Office of Administrative Law (OAL);

12. On March 17, 2015, the State Water Board amended and readopted the emergency regulation to support water conservation ([Resolution No. 2015-0013](#)), which became effective March 27, 2015 upon approval by OAL;
13. On May 5, 2015, the State Water Board significantly amended, and readopted, the emergency regulation to support water conservation ([Resolution No. 2015-0032](#)), which became effective May 18, 2015 upon approval by OAL and expires February 13, 2016;
14. On February 2, 2016, the State Water Board amended and readopted the emergency regulation to support water conservation ([Resolution No. 2016-0007](#)), which became effective February 11, 2016 upon approval by OAL and expires November 7, 2016;
15. In many areas, 50 percent or more of daily water use is for lawns and outdoor landscaping. Outdoor water use is generally discretionary, and many irrigated landscapes will survive while receiving a decreased amount of water;
16. Although urban water suppliers have placed restrictions on outdoor watering, the State Water Board continues to receive reports of excessive outdoor water use;
17. Water conservation is the easiest, most efficient, and most cost-effective way to quickly reduce water demand and to extend supplies into the next year. Water saved this summer is water available later in the season or next year, reducing the likelihood of even more severe water shortages should the drought continue. Extending current water supplies offers communities flexibility in managing their water portfolios and drought response options should the drought continue into the next water year;
18. Education and enforcement against water waste is a key tool in conservation programs. When conservation becomes a social norm in a community, the need for enforcement is reduced or eliminated;
19. Public information and awareness is critical to achieving conservation goals, and the Save Our Water campaign, run jointly by the Department of Water Resources (DWR) and the Association of California Water Agencies, is an excellent resource for conservation information and messaging that is integral to effective drought response (<http://saveourwater.com>);
20. Many California communities are facing continued social and economic hardship due to the ongoing drought. The rest of us can make adjustments to our water use, including landscape choices that conserve even more water;
21. The California Constitution declares, at article X, section 2, that the water resources of the state must be put to beneficial use in a manner that is reasonable and not wasteful. Relevant to the current drought conditions, the California Supreme Court has clarified that “what may be a reasonable beneficial use, where water is present in excess of all needs, would not be a reasonable beneficial use in an area of great scarcity and great need. What is a beneficial use at one time may, because of changed conditions, become a waste of water at a later time.” (*Tulare Dist. v. Lindsay Strathmore Dist.* (1935) 3 Cal.2d 489, 567.) In support of water conservation, the legislature has, through Water Code section 1011, deemed reductions in water use due to conservation as equivalent to reasonable beneficial use of that water. Accordingly, this regulation is in furtherance of article X, section 2 during this drought emergency. This temporary emergency

regulation is not to be used in any future administrative or judicial proceedings as evidence or finding of waste and unreasonable use of any individual water user or water supplier subject to this regulation, and are not to affect or otherwise limit any rights to water conserved under applicable law, including without limitation, water conserved consistent with Water Code section 1011;

22. Under the May 5, 2015 emergency regulation, as revised February 2, 2016, urban water suppliers, large and small, have reduced statewide potable water usage more than 23.9 percent compared to usage during the same months in 2013, through the significant efforts of the suppliers and their customers;
23. The State Water Board estimates that suppliers and their customers will save between 0.46 and 0.97 million acre-feet of water in response to the extended regulation from June 2016 through January 2017. This savings will be in addition to the 1.55 million acre-feet the State is on track to have saved from June 2015 through May 2016 compared to usage during the same months in 2013;
24. Directive one of the Governor's May 9, 2016 Executive Order Directs the State Water Board to adjust emergency water conservation regulations through the end of January 2017 in recognition of differing water supply conditions across the state;
25. On April 20, 2016 the State Water Board held a workshop to receive input on the potential modification of the current Drought Emergency Water Conservation regulation. The State Water Board solicited public comments on the proposed framework and received over 130 comments, primarily relating to the improved 2016 water year conditions, whether conservation regulations were necessary, the need to transition to a supply-based conservation regulation, and the ability of urban water suppliers to manage their own water supply options;
26. On May 9, 2016 the State Water Board issued staff-proposed regulatory language for public comment based in part on the April 20, 2016 workshop and comments received, and in part on Executive Order B-37-16. The staff proposal reflects careful consideration by the Board and staff of all comments including those directed at the levels of required reduction and the basis upon which water use reductions should be required. The draft regulatory language extends portions of the February 2016 emergency regulation and establishes a process for developing locally appropriate water conservation standards in recognition of differing water supply conditions across the state;
27. On May 13, 2016, the State Water Board initiated the formal emergency rulemaking process by issuing public notice that it would consider the adoption of the emergency regulation at the Board's regularly-scheduled May 18, 2016 public meeting, in accordance with applicable State laws and regulations. The State Water Board also distributed for public review and comment a Finding of Emergency that complies with State laws and regulations;
28. As discussed above, the State Water Board is adopting the revised emergency regulation as directed by the Governor in Executive Order B-37-16 based on the ongoing need to prevent the waste and unreasonable use of water and to promote conservation during the ongoing drought emergency; and

29. Nothing in the regulation or in the enforcement provisions of the regulation precludes a local agency from exercising its authority to adopt more stringent conservation measures. Moreover, the Water Code does not impose a mandatory penalty for violations of the regulation adopted by this resolution, and local agencies retain the enforcement discretion in enforcing the regulation to the extent authorized. Local agencies are encouraged to develop their own progressive enforcement practices to promote conservation.

THEREFORE BE IT RESOLVED THAT:

1. The State Water Board adopts California Code of Regulations, title 23, section 864.5 and amends and re-adopts sections 863, 864, 865, and 866 as appended to this resolution as an emergency regulation;
2. State Water Board staff will submit the regulation to OAL for final approval;
3. If, during the approval process, State Water Board staff, the State Water Board, or OAL determines that minor corrections to the language of the regulation or supporting documentation are needed for clarity or consistency, the State Water Board Executive Director or the Executive Director's designee may make such changes;
4. This regulation shall remain in effect for 270 days after filing with the Secretary of State unless the State Water Board determines that it is no longer necessary due to changed conditions, or unless the State Water Board renews the regulation due to continued drought conditions as described in Water Code section 1058.5;
5. The State Water Board directs staff to provide the Board with monthly updates on the implementation of the emergency regulation and its effect.
6. The State Water Board directs staff to condition funding upon compliance with the emergency regulation, to the extent feasible;
7. The State Water Board directs staff to work with DWR and the Save Our Water campaign to disseminate information regarding the emergency regulation; and
8. The State Water Board directs staff to update the electronic reporting portal to include data fields for reporting required by the emergency regulation.

THEREFORE BE IT FURTHER RESOLVED THAT:

10. The State Water Board shall work with DWR, the Public Utilities Commission, and other agencies to support urban water suppliers' actions to implement rates and pricing structures to incent additional conservation, as required by directive eight in the Governor's April 1, 2015 Executive Order. The Fourth District Court of Appeal's recent Decision in *Capistrano Taxpayer Association Inc. v. City of San Juan Capistrano* (G048969) does not foreclose the use of conservation-oriented rate structures;

11. The State Water Board calls upon water suppliers to:
 - a. ensure that adequate personnel and financial resources exist to implement conservation requirements not only for 2016, but also for another year of drought should it occur. Water suppliers that face budget shortfalls due to reduced sales should take immediate steps to raise necessary revenues in a way that actively promotes continued conservation;
 - b. expedite implementation of new conservation programs by minimizing internal review periods and utilizing emergency authorities, as appropriate;
 - c. consider the relative water use and conservation practices of their customers and target those with higher water use to achieve proportionally greater reductions than those with low use;
 - d. minimize financial impacts to low-income customers;
 - e. preserve safe indoor water supplies in areas with very low R-GPCD and where necessary to protect public health and safety;
 - f. promote low-water use methods of preserving appropriate defensible space in fire-prone areas, consistent with local fire district requirements;
 - g. educate customers on the preservation of trees;
 - h. promote on-site reuse of water; and
 - i. promptly notify staff of the supplier's need for an alternate method of compliance pursuant to resolved paragraph 20 for any supplier that retains a conservation standard pursuant to section 865 of the emergency regulation.
12. The State Water Board calls upon all businesses within California's travel and tourism sectors to inform visitors of California's drought situation and actions visitors should take to conserve water;
13. The State Water Board calls upon all homeowners' associations to support and cooperate with water suppliers' and their residents' efforts to conserve water in community apartment projects, condominium projects, planned developments, and stock cooperatives statewide;
14. The State Water Board calls upon both landlords and tenants of residential and commercial properties to cooperate in taking actions that conserve potable water consistent with the emergency regulation and any applicable rules identified by the appropriate urban water supplier;
15. The State Water Board commends wholesale water agencies that have set aggressive conservation targets for their retail water suppliers;
16. The State Water Board commends water suppliers that have made investments to boost drought-resistant supplies, such as advanced treated recycled water and desalination. Those investments help to make communities more resilient in the face of drought;

17. The State Water Board commends the many water suppliers that have taken steps and made systemic changes that have led to them surpassing their 20x2020 conservation targets. Long-term conservation efforts are critical to maintaining economic and social well-being, especially in light of the impacts of climate change on California's hydrology;
18. The State Water Board commends the many water suppliers that have met or exceeded their conservation standards under the May 2015 emergency regulation and the February 2016 amended and extended emergency regulation. Those local efforts have helped the state achieve a statewide 23.9 percent potable water savings from June 2015 through March 2016 and have shown what dedicated Californians can achieve as we make water conservation a California way of life;
19. During this drought emergency, heightened conservation that extends urban resilience is necessary. The State Water Board's focus is primarily on immediate reductions in outdoor water use. Some short-term conservation efforts, such as landscape conversions and installation of efficient appliances, will also support long-term conservation objectives, and are encouraged wherever possible; and
20. The State Water Board recognizes that some commercial and industrial customers, while accounting for a significant portion of total use in a service area, have already taken steps to significantly reduce their water consumption and cannot further reduce their use without substantial impacts. However, the Board also recognizes that in many areas there are significant opportunities for reductions in water use by industries and commercial enterprises that have yet to take action, especially those with large areas of non-functional turf. The Board directs staff to respond promptly upon receipt of any request for alternate enforceable methods of compliance for suppliers that retain a conservation standard pursuant to section 865 of the emergency regulation. If the supplier believes the conservation standard is unachievable due to firm commercial and industrial water use and residential use reductions that would affect public health and safety, it should provide any supporting information or documentation for an alternate method of compliance or should use the new water supply reliability self-certification method provided for in section 864.5.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the State Water Resources Control Board held on May 18, 2016.

AYE: Chair Felicia Marcus
 Vice Chair Frances Spivy-Weber
 Board Member Steven Moore
 Board Member Dorene D'Adamo

 NAY: None
 ABSENT: None
 ABSTAIN: Board Member Tam M. Doduc



 Jeanine Townsend
 Clerk to the Board

ADOPTED TEXT OF EMERGENCY REGULATION

Article 22.5. Drought Emergency Water Conservation.

Sec. 863. Findings of Drought Emergency.

(a) The State Water Resources Control Board finds as follows:

(1) On January 17, 2014, the Governor issued a proclamation of a state of emergency under the California Emergency Services Act based on drought conditions;

(2) On April 25, 2014, the Governor issued a proclamation of a continued state of emergency under the California Emergency Services Act based on continued drought conditions;

(3) On April 1, 2015, the Governor issued an Executive Order that, in part, directs the State Board to impose restrictions on water suppliers to achieve a statewide 25 percent reduction in potable urban usage through February, 2016; require commercial, industrial, and institutional users to implement water efficiency measures; prohibit irrigation with potable water of ornamental turf in public street medians; and prohibit irrigation with potable water outside newly constructed homes and buildings that is not delivered by drip or microspray systems;

(4) On November 13, 2015, the Governor issued an Executive Order that directs the State Board to, if drought conditions persist through January 2016, extend until October 31, 2016 restrictions to achieve a statewide reduction in potable usage;

(5) On May 9, 2016, the Governor issued an Executive Order that directs the State Board to adjust and extend its emergency water conservation regulations through the end of January 2017 in recognition of the differing water supply conditions for many communities;

~~(5)~~ The drought conditions that formed the basis of the Governor's emergency proclamations continue to exist; and

~~(6)~~ The drought conditions will likely continue for the foreseeable future and additional action by both the State Water Resources Control Board and local water suppliers will likely be necessary to prevent waste and unreasonable use of water and to further promote conservation.

Authority: Section 1058.5, Water Code.

References: Article X, Section 2, California Constitution; Sections 102, 104, 105, and 275, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463.

Sec. 864. End-User Requirements in Promotion of Water Conservation.

(a) To prevent the waste and unreasonable use of water and to promote water conservation, each of the following actions is prohibited, except where necessary to address an immediate health and safety need or to comply with a term or condition in a permit issued by a state or federal agency:

(1) The application of potable water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures;

(2) The use of a hose that dispenses potable water to wash a motor vehicle, except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use;

(3) The application of potable water to driveways and sidewalks;

(4) The use of potable water in a fountain or other decorative water feature, except where the water is part of a recirculating system;

(5) The application of potable water to outdoor landscapes during and within 48 hours after measurable rainfall;

(6) The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased;

(7) The irrigation with potable water of ornamental turf on public street medians; and

(8) The irrigation with potable water of landscapes outside of newly constructed homes and buildings in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.

(b) To promote water conservation, operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.

(c) ~~Immediately upon~~ Upon this subdivision taking effect, all commercial, industrial and institutional properties that use a water supply, any portion of which is from a source other than a water supplier subject to section 864.5 or 865 of this article, shall either:

(1) Limit outdoor irrigation of ornamental landscapes or turf with potable water to no more than two days per week; or

(2) Target potable water use reductions commensurate with those required of the nearest urban water supplier under section 864.5 or, if applicable, section 865. Where this option is chosen, these properties shall implement the reductions on or before July 1, 2016.

~~(2) Reduce potable water usage supplied by sources other than a water supplier by 25 percent for the months of June 2015 through October 2016 as compared to the amount used from those sources for the same months in 2013.~~

(d) The taking of any action prohibited in subdivision (a) or (e), or the failure to take any action required in subdivision (b) or (c), is an infraction punishable by a fine of up to five hundred dollars (\$500) for each day in which the violation occurs. The fine for the infraction is in addition to, and does not supersede or limit, any other remedies, civil or criminal.

(e)(1) To prevent the waste and unreasonable use of water and to promote water conservation, any homeowners' association or community service organization or similar entity is prohibited from:

(A) Taking or threatening to take any action to enforce any provision of the governing documents or architectural or landscaping guidelines or policies of a common interest development where that provision is void or unenforceable under section 4735, subdivision (a) of the Civil Code; or

(B) Imposing or threatening to impose a fine, assessment, or other monetary penalty against any owner of a separate interest for reducing or eliminating the watering of vegetation or lawns during a declared drought emergency, as described in section 4735, subdivision (c) of the Civil Code.

(2) As used in this subdivision:

(A) "Architectural or landscaping guidelines or policies" includes any formal or informal rules other than the governing documents of a common interest development.

(B) "Homeowners' association" means an "association" as defined in section 4080 of the Civil Code.

(C) "Common interest development" has the same meaning as in section 4100 of the Civil Code.

(D) "Community service organization or similar entity" has the same meaning as in section 4110 of the Civil Code.

(E) "Governing documents" has the same meaning as in section 4150 of the Civil Code.

(F) "Separate interest" has the same meaning as in section 4185 of the Civil Code.

(3) If a disciplinary proceeding or other proceeding to enforce a rule in violation of subdivision (e)(1) is initiated, each day the proceeding remains pending shall constitute a separate violation of this regulation.

Authority: Section 1058.5, Water Code.

References: Article X, Section 2, California Constitution; Sections 4080, 4100, 4110, 4150, 4185, and 4735, Civil Code; Sections 102, 104, 105, 275, 350, and 10617, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463.

Sec. 864.5. Self-Certification of Supply Reliability for Three Additional Years of Drought.

(a) To prevent the waste and unreasonable use of water and to meet the requirements of the Governor's May 9, 2016 Executive Order, each urban water supplier shall:

(1) Identify and report no later than June 22, 2016, on a form provided by the Board, the conservation standard that the supplier will be required to meet under this section;

(2) Identify and report no later than June 22, 2016, on a form provided by the Board, the data and underlying analysis relied upon by the supplier to determine the conservation standard reported pursuant to this subdivision including, but not limited to identification of each source of supply the supplier intends to rely on and the quantity of water available under that source of supply given the assumptions of this section;

(3) Certify, no later than June 22, 2016, that the conservation standard reported pursuant to this subdivision is based on the information and assumptions identified in this section;

(4) Post, within two weeks of submittal to the board, the data and underlying analysis relied upon by the supplier to determine the conservation standard reported pursuant to this subdivision to a publicly-accessible webpage; and

(5) Beginning June 1, 2016, reduce its total potable water production by the percentage identified as its conservation standard in this section each month, compared to the amount used in the same month in 2013.

(b) Each urban water supplier's conservation standard pursuant to this section shall be the percentage by which the supplier's total potable water supply is insufficient to meet the total potable water demand in the third year after this section takes effect under the following assumptions:

(1) The next three years' precipitation is the same as it was in water years 2013-2015;

(2) No temporary change orders that increase the availability of water to any urban water supplier are issued in the next three years;

(3) The supplier's total potable water demand for each of the next three years will be the supplier's average annual total potable water production for the years 2013 and 2014;

(4) The supplier's total potable water supply shall include only water sources of supply available to the supplier that could be used for potable drinking water purposes;

(5) Each urban water supplier's conservation standard shall be calculated as a percentage and rounded to the nearest whole percentage point.

(c) The Board will reject conservation standards that do not meet the requirements of this section.

(d) Beginning June 1, 2016, each urban water supplier shall comply with the conservation standard it identifies and reports pursuant to this section.

(e) Compliance with the conservation standard reported pursuant to this section shall be measured monthly and assessed on a cumulative basis through January 2017.

(f) If a wholesaler and all of its urban water supplier customers agree, in a legally-binding document, those suppliers and wholesaler may submit to the board, in lieu of the individualized self-certified conservation standard applicable pursuant to section 864.5 or section 865, an aggregated conservation standard, with all supporting documentation required for individualized self-certified conservation standards by section 864.5.

(g) Each urban water wholesaler shall calculate, to the best of its ability, and no later than June 15, 2016, the volume of water that it expects it would deliver to each urban water supplier in each of the next three years under the assumptions identified in subdivision (b), and post that calculation, and the underlying analysis, to a publicly-accessible webpage.

(h) Submitting any information pursuant to this section that the person who submits the information knows or should have known is materially false is a violation of this regulation, punishable by civil liability of up to five hundred dollars (\$500) for each day in which the violation occurs. Every day that the error goes uncorrected constitutes a separate violation. Civil liability for the violation is in addition to, and does not supersede or limit, any other remedies, civil or criminal.

(i) Any urban water supplier that does not comply with this section shall comply with the applicable conservation standard identified in section 865.

Authority: Section 1058.5, Water Code.

References: Article X, Section 2, California Constitution; Sections 102, 104, 105, 275, 350, 1846, 10617 and 10632, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463.

Sec. 865. Mandatory Actions by Water Suppliers.

(a) As used in this ~~section~~article:

(1) “Distributor of a public water supply” has the same meaning as under section 350 of the Water Code, except it does not refer to such distributors when they are functioning solely in a wholesale capacity, but does apply to distributors when they are functioning in a retail capacity.

(2) “R-GPCD” means residential gallons per capita per day.

(3) “Total potable water production” means all potable water that enters into a water supplier’s distribution system, excluding water placed into storage and not withdrawn for use during the reporting period, or water exported outside the supplier’s service area.

(4) “Urban water supplier” means a supplier that meets the definition set forth in Water Code section 10617, except it does not refer to suppliers when they are functioning solely in a wholesale capacity, but does apply to suppliers when they are functioning in a retail capacity.

(5) “Urban water wholesaler” means a wholesaler of water to more than one urban water supplier.

(6) “Water year” means the period from October 1 through the following September 30. Where a water year is designated by year number, the designation is by the calendar year number in which the water year ends.

(b) In furtherance of the promotion of water conservation each urban water supplier shall:

(1) Provide prompt notice to a customer whenever the supplier obtains information that indicates that a leak may exist within the end-user’s exclusive control.

(2) Prepare and submit to the State Water Resources Control Board by the 15th of each month a monitoring report on forms provided by the Board. The monitoring report shall include the amount of potable water the urban water supplier produced, including water provided by a wholesaler, in the preceding calendar month and shall compare that amount to the amount produced in the same calendar month in 2013. The monitoring report shall specify the population served by the urban water supplier, the percentage of water produced that is used for the residential sector, descriptive statistics on water conservation compliance and enforcement efforts, the number of days that outdoor irrigation is allowed, and monthly commercial, industrial and institutional sector use. The monitoring report shall also estimate the gallons of water per person per day used by the residential customers it serves.

(c)(1) To prevent the waste and unreasonable use of water and to meet the requirements of the Governor’s ~~November 13, 2015~~May 9, 2016 Executive Order, each urban water supplier that fails to identify a conservation standard as required under section 864.5, or that has a conservation standard rejected by the Board under section

864.5, shall reduce its total potable water production by the percentage identified as its conservation standard in this ~~subdivision~~section. Each urban water supplier's conservation standard considers its service area's relative per capita water usage.

~~(2) Each urban water supplier whose source of supply does not include groundwater or water imported from outside the hydrologic region in which the water supplier is located, and that has a minimum of four years' reserved supply available, may submit to the Executive Director for approval a request that, in lieu of the reduction that would otherwise be required under paragraphs (3) through (10), the urban water supplier shall reduce its total potable water production by 4 percent for each month as compared to the amount used in the same month in 2013. Any such request shall be accompanied by information showing that the supplier's sources of supply do not include groundwater or water imported from outside the hydrologic region and that the supplier has a minimum of four years' reserved supply available.~~

~~(3)~~ Each urban water supplier whose average July-September 2014 R-GPCD was less than 65 shall reduce its total potable water production by 8 percent for each month as compared to the amount used in the same month in 2013.

~~(4)~~ Each urban water supplier whose average July-September 2014 R-GPCD was 65 or more but less than 80 shall reduce its total potable water production by 12 percent for each month as compared to the amount used in the same month in 2013.

~~(5)~~ Each urban water supplier whose average July-September 2014 R-GPCD was 80 or more but less than 95 shall reduce its total potable water production by 16 percent for each month as compared to the amount used in the same month in 2013.

~~(6)~~ Each urban water supplier whose average July-September 2014 R-GPCD was 95 or more but less than 110 shall reduce its total potable water production by 20 percent for each month as compared to the amount used in the same month in 2013.

~~(7)~~ Each urban water supplier whose average July-September 2014 R-GPCD was 110 or more but less than 130 shall reduce its total potable water production by 24 percent for each month as compared to the amount used in the same month in 2013.

~~(8)~~ Each urban water supplier whose average July-September 2014 R-GPCD was 130 or more but less than 170 shall reduce its total potable water production by 28 percent for each month as compared to the amount used in the same month in 2013.

~~(9)~~ Each urban water supplier whose average July-September 2014 R-GPCD was 170 or more but less than 215 shall reduce its total potable water production by 32 percent for each month as compared to the amount used in the same month in 2013.

~~(10)~~ Each urban water supplier whose average July-September 2014 R-GPCD was 215 or more shall reduce its total potable water production by 36 percent for each month as compared to the amount used in the same month in 2013.

(d)(1) Beginning June 1, 2015, each urban water supplier that does not submit a self-certification in compliance with section 864.5 shall comply with the conservation standard specified in subdivision (c), with any modifications to the conservation standard pursuant to subdivision (f) applying beginning March 1, 2016.

(2) Compliance with the requirements of this subdivision shall be measured monthly and assessed on a cumulative basis through ~~October 2016~~January 2017.

(e)(1) Each urban water supplier that provides potable water for commercial agricultural use meeting the definition of Government Code section 51201, subdivision (b), may subtract the amount of water provided for commercial agricultural use from its

potable water production total, provided that any urban water supplier that subtracts any water provided for commercial agricultural use from its total potable water production shall:

(A) Impose reductions determined locally appropriate by the urban water supplier, after considering the applicable urban water supplier conservation standard specified in subdivision (c), for commercial agricultural users meeting the definition of Government Code section 51201, subdivision (b) served by the supplier;

(B) Report its total potable water production pursuant to subdivision (b)(2) of this section, the total amount of water supplied for commercial agricultural use, and shall identify the reduction imposed on its commercial agricultural users and each recipient of potable water for commercial agricultural use;

(C) Certify that the agricultural uses it serves meet the definition of Government Code section 51201, subdivision (b); and

(D) Comply with the Agricultural Water Management Plan requirement of paragraph 12 of the April 1, 2015 Executive Order for all commercial agricultural water served by the supplier that is subtracted from its total potable water production.

(2) Submitting any information pursuant to subdivision (e)(1)(B) or (C) of this section that is found to be materially false by the Board is a violation of this regulation, punishable by civil liability of up to five hundred dollars (\$500) for each day in which the violation occurs. Every day that the error goes uncorrected constitutes a separate violation. Civil liability for the violation is in addition to, and does not supersede or limit, any other remedies, civil or criminal.

(f) In consideration of the differences in climate affecting different parts of the state, growth experienced by urban areas and significant investments that have been made by some suppliers towards creating new, local, drought-resilient sources of potable water supply, an urban water supplier's conservation standard identified in subdivision (c) shall be reduced by an amount, not to exceed eight (8) percentage points total, as follows:

(1) For an urban water supplier whose service area evapotranspiration (ET_o) for the months of July through September exceeds the statewide average evapotranspiration, as determined by the Board, for the same months by five (5) percent or more, the supplier's conservation standard identified in subdivision (c) shall be reduced:

(A) By two (2) percentage points if the supplier's service area evapotranspiration exceeds the statewide average by five (5) percent or more but less than ten (10) percent;

(B) By three (3) percentage points if the supplier's service area evapotranspiration exceeds the statewide average by ten (10) percent or more but less than twenty (20) percent;

(C) By four (4) percentage points if the supplier's service area evapotranspiration exceeds the statewide average by twenty (20) percent or more.

(D) Statewide average evapotranspiration is calculated as the arithmetic mean of all urban water suppliers' service area default evapotranspiration values for the months of July through September. Default service area evapotranspiration will be based on the California Irrigation Management System (CIMIS) ET_o Zones Map zone for which the supplier's service area has the greatest area of overlap. In lieu of applying its default service area evapotranspiration, a supplier may use specific data from CIMIS stations within its service area that have at least a five-year period of record, or a three year continuous period of record, to identify a more specifically-applicable evapotranspiration

for its service area. If no CIMIS station exists within the supplier's service area, a weather station of comparable accuracy, meeting the preceding period of record requirements, may be used. To qualify for the in-lieu climate adjustment, the supplier shall submit the following data to the Board by March 15, 2016 for each station: station ID; station location; and monthly average evapotranspiration, in inches per month, for July, August, and September for either the five-year period of record or the three-year continuous period of record.

(2) To account for water efficient growth experienced in the state since 2013, urban water suppliers' conservation standards shall be reduced by the product of the percentage change in potable water production since 2013 and the percentage reduction in potable water use required pursuant to subdivision (c), rounded to the nearest whole percentage point. Change in potable water production since 2013 shall be calculated as the sum of the following:

(A) The number of additional permanent residents served since January 1, 2013, multiplied by the average residential water use per person for that supplier's service area during the months of February through October, 2015, in gallons; and

(B) The number of new commercial, industrial and institutional connections since January 1, 2013, multiplied by the average commercial, industrial and institutional water use per connection for that supplier's service area during the months of February through October, 2015, in gallons.

(C) To qualify for the growth credit the supplier shall submit to the Board the following data by March 15, 2016: the number of additional permanent residents served since January 1, 2013 and the number of new commercial, industrial and institutional connections since January 1, 2013.

(3) For an urban water supplier that supplies, contracts for, or otherwise financially invests in, water from a new local, drought-resilient source of supply, the use of which does not reduce the water available to another legal user of water or the environment, the conservation standard identified in subdivision (c) shall be reduced:

(A) By one (1) percentage point if the supplier's qualifying source of supply is one (1) percent or more but less than two (2) percent of the supplier's total potable water production;

(B) By two (2) percentage points if the supplier's qualifying source of supply is two (2) percent or more but less than three (3) percent of the supplier's total potable water production;

(C) By three (3) percentage points if the supplier's qualifying source of supply is three (3) percent or more but less than four (4) percent of the supplier's total potable water production;

(D) By four (4) percentage points if the supplier's qualifying source of supply is four (4) percent or more but less than five (5) percent of the supplier's total potable water production;

(E) By five (5) percentage points if the supplier's qualifying source of supply is five (5) percent or more but less than six (6) percent of the supplier's total potable water production;

(F) By six (6) percentage points if the supplier's qualifying source of supply is six (6) percent or more but less than seven (7) percent of the supplier's total potable water production;

(G) By seven (7) percentage points if the supplier's qualifying source of supply is seven (7) percent or more but less than eight (8) percent of the supplier's total potable water production;

(H) By eight (8) percentage points if the supplier's qualifying source of supply is eight (8) percent or more of the supplier's total potable water production.

(I) To qualify for this reduction the supplier must certify, and provide documentation to the Board upon request demonstrating, the percent of its total potable water production that comes from a local, drought-resilient source of supply developed after 2013, the supplier's investment in that local, drought-resilient source of supply, and that the use of that supply does not reduce the water available to another legal user of water or the environment. To qualify for this reduction an urban water supplier shall submit the required certification to the Board by March 15, 2016.

(J) Certifications that do not meet the requirements of subdivision (f)(3)(I), including certifications for which documentation does not support that the source of supply is a local, drought-resilient source of supply, the use of which does not reduce the water available to another legal user of water or the environment, will be rejected. Submitting a certification or supporting documentation pursuant to subdivision (f)(3)(I) that is found to be materially false by the Board is a violation of this regulation, punishable by civil liability of up to five hundred dollars (\$500) for each day in which the violation occurs. Every day that the error goes uncorrected constitutes a separate violation. Civil liability for the violation is in addition to, and does not supersede or limit, any other remedies, civil or criminal.

(4) No urban water supplier's conservation standard pursuant to this section shall drop below eight (8) percent as a consequence of the reductions identified in this subdivision. ~~No reduction pursuant to this subdivision shall be applied to any urban water supplier whose conservation standard is four (4) percent based on subdivision (e)(2).~~

~~(g)(1)~~ To prevent waste and unreasonable use of water and to promote water conservation, each distributor of a public water supply that is not an urban water supplier shall ~~take one or more of the following actions:~~

(1) Provide prompt notice to a customer whenever the supplier obtains information that indicates that a leak may exist within the end-user's exclusive control; and

~~—— (A) Limit outdoor irrigation of ornamental landscapes or turf with potable water by the persons it serves to no more than two days per week; or~~

~~—— (B) Reduce by 25 percent its total potable water production relative to the amount produced in 2013.~~

(2) Each distributor of a public water supply that is not an urban water supplier shall submit a report by ~~September~~ December 15, 2016, on a form provided by the Board, that either confirms compliance with subdivision (g)(1)(A) or identifies total potable water production, by month, from December, 2015 through ~~August~~ November, 2016, and total potable water production, by month, for the same months in 2013, and any actions taken by the supplier to encourage or require its customers to conserve water.

Authority: Section 1058.5, Water Code.

References: Article X, Section 2, California Constitution; Sections 102, 104, 105, 275, 350, 1846, 10617 and 10632, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463.

Sec. 866. Additional Conservation Tools.

(a)(1) To prevent the waste and unreasonable use of water and to promote conservation, when a water supplier does not meet its conservation standard required by section 864.5 or section 865 the Executive Director, or the Executive Director's designee, may issue conservation orders requiring additional actions by the supplier to come into compliance with its conservation standard.

(2) A decision or order issued under this article by the Board or an officer or employee of the Board is subject to reconsideration under article 2 (commencing with section 1122) of chapter 4 of part 1 of division 2 of the Water Code.

(b) The Executive Director, or his designee, may issue an informational order requiring water suppliers, or commercial, industrial or institutional properties that receive any portion of their supply from a source other than a water supplier subject to section 864.5 or 865, to submit additional information relating to water production, water use or water conservation. The failure to provide the information requested within 30 days or any additional time extension granted is a violation subject to civil liability of up to \$500 per day for each day the violation continues pursuant to Water Code section 1846.

(c) Orders issued under previous versions of this ~~subdivision~~section shall remain in effect and shall be enforceable as if adopted under this version. Changes in the requirements of this article do not operate to void or excuse noncompliance with orders issued before those requirements were changed.

Authority: Section 1058.5, Water Code.

References: Article X, Section 2, California Constitution; Sections 100, 102, 104, 105, 174, 186, 187, 275, 350, 1051, 1122, 1123, 1825, 1846, 10617 and 10632, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463.

ORDINANCE NO. ~~2015-01~~ 2016-01

**AN AMENDED AND RESTATED ORDINANCE OF
THE COASTSIDE COUNTY WATER DISTRICT**

An ordinance amending mandatory water use restrictions and prohibitions under Stage 2- Water Shortage Emergency Warning of the District's Water Shortage Contingency Plan

Be it ordained by the Board of Directors of the Coastside County Water District (District) as follows:

Section 1: Findings and Determinations

This ordinance is adopted in light of the following facts and circumstances, which are hereby found and declared by the Board of Directors.

WHEREAS, California is experiencing one of the most severe droughts on record; and

WHEREAS, the District implemented Stage 1 – Water Shortage Advisory of its Water Shortage Contingency Plan on October 8, 2013 informing the public of a possible water shortage and requesting voluntary water conservation; and

WHEREAS, Governor Brown declared a drought state of emergency on January 17, 2014, and called on all Californians to do their part to reduce their water use; and

WHEREAS, the wholesale water provider for a significant portion of the District's water supply, the San Francisco Public Utilities Commission (SFPUC), requested 10 percent voluntary water use reduction system-wide on January 31, 2014; and

WHEREAS, the District requested 10 percent voluntary water use reduction from all customers on February 11, 2014; and

WHEREAS, Governor Brown issued a proclamation of a continued state of emergency on April 25, 2014 to mitigate the effects of drought conditions upon the people and property of California, and called on residents to refrain from wasting water; and

WHEREAS, the District adopted Resolution 2014-02 on May 13, 2014 urging heightened water use efficiency by customers in response to drought conditions, and

WHEREAS, the State Water Resources Control Board (SWRCB) adopted drought emergency regulations on July 15, 2014 (Resolution No. 2014-0038) that imposed mandatory actions by urban water suppliers that became effective July 28, 2014; and

WHEREAS, the District was required to comply with the 2014 SWRCB drought emergency regulations as an urban water supplier, and one of the mandatory actions requires the District to implement all requirements and actions of the stage of its Water

Shortage Contingency Plan that impose mandatory restrictions on outdoor irrigation of ornamental landscapes or turf with potable water; and

WHEREAS, the District is an urban water supplier that has an adopted Water Shortage Contingency Plan that is considered sufficient by the California Department of Water Resources by review of the District's 2010 Urban Water Management Plan; and

WHEREAS, Stage 2 – Water Shortage Emergency Warning of the District's Water Shortage Contingency Plan describes a menu of options including mandatory restrictions on outdoor water use, irrigation and prohibiting cleaning of exterior surfaces with potable water; and

WHEREAS, by Resolution No. 2014-06, adopted on August 12, 2014, the District implemented Stage 2 – Water Shortage Emergency Warning of its Water Shortage Contingency Plan; and

WHEREAS, by Ordinance No. 2014-02, adopted on August 12, 2014, the District established mandatory water use prohibitions and restrictions under Stage 2-Water Shortage Emergency Warning of its Water Shortage Contingency Plan; and

WHEREAS, the SWRCB extended and expanded the drought emergency regulations on March 17, 2015 (Resolution No. 2015-0013) that imposes mandatory actions by urban water suppliers that became effective March 27, 2015; and

WHEREAS, Governor Brown issued Executive Order B-29-15 on April 1, 2015, that, in part, directed the SWRCB to impose restrictions to achieve a statewide 25 percent reduction in potable urban water usage, to increase enforcement against water waste, and to implement additional restrictions on the outdoor use of potable water; and

WHEREAS, the SWRCB expanded and modified its drought emergency regulations on May 5, 2015 (Resolution 2015-0032) to achieve a statewide 25 percent reduction in potable urban water usage and the emergency regulations went into effect on May 18, 2015; and

WHEREAS, the SWRCB determined that the District had an average July-September 2014 R-GPCD of less than 65, and that the District shall reduce its total potable water production by 8 percent for each month as compared to the amount used in the same month in 2013; and

WHEREAS, by Ordinance No. 2015-01, adopted on June 9, 2015, the District established mandatory water use prohibitions and restrictions under Stage 2-Water Shortage Emergency Warning of its Water Shortage Contingency Plan; and

WHEREAS, the SFPUC's request for all customers to reduce water consumption by 10 percent system-wide, remains in place through fiscal year 2017; and

WHEREAS, Governor Brown issued Executive Order B-37-16 on May 9, 2016, that in part, directed the SWRCB to prepare for another dry winter and adjust emergency water conservation regulations through January 2017; and

WHEREAS, the SWRCB modified its drought emergency regulations on May 18, 2016 (Resolution 2016-0029) to include a water supply reliability self-certification method of compliance, provided for in CCR, Title 23 § 864.5; and

WHEREAS, the District completed an on-line submittal for the water supply reliability self-certification on June 22, 2016 to qualify for a zero conservation standard; and

WHEREAS, the District has exceeded its state mandated 8 percent water savings and has achieved a cumulative water savings from June 2015 through May 2016 of 21.6 percent; and

WHEREAS, based on the District's recent water savings achievement, the District should be able to voluntarily meet a 10 percent water savings without having time of day irrigation restrictions, length of time irrigation restrictions and days of the week irrigation restrictions; and

WHEREAS, conditions still exist, even with a zero conservation standard from the SWRCB, for the District to remain in a Stage 2 – Water Shortage Emergency Warning of its Water Shortage Contingency Plan due to SFPUC requesting a 10 percent voluntary reduction in water consumption system wide, and SWRCB Resolution 2016-0029; and

WHEREAS, the actions taken hereinafter are exempt from the provisions of Section 21000 et seq. of the Public Resources Code as a project undertaken as immediate action necessary to prevent or mitigate an emergency pursuant to Title 14, California Code of Regulations Section 15269 and as a project undertaken to assure the maintenance, restoration or enhancement of a natural resource pursuant to Title 14, California Code of Regulations Section 15307.

Section 2: Definitions

~~— **Agricultural use:** Use that meets the definition of Government Code section 51201, subdivision (b).~~

Customer: Any person, whether within or without the geographical boundaries of the District, who uses water supplied by the District.

District: Coastside County Water District.

General Manager: The General Manager of Coastside County Water District or the General Manager's designee.

~~**Graywater:** Untreated household waste water which has not come in contact with toilet waste, as regulated by the 2013 California Plumbing Code Chapter 16 Section 1602.~~

~~**Irrigation station:** A group of sprinklers controlled by the same valve to correspond to a hydrozone, also referred to as a circuit.~~

~~**Low volume irrigation systems:** Any irrigation system that applies irrigation water at low pressure through a system of tubing or lateral lines and low volume emitters such as drip, driplines, microspray, and bubblers with a very low flow rate (≤ 2 gallons per hour [gph]) measured in gallons per hour, and that is designed to apply small volumes of water very slowly at or near the root zone of plants. This includes but is not limited to properly functioning drip irrigation systems and soaker hoses.~~

Measurable rainfall: Climatological conditions that result in ≥ 0.1 (greater than or equal to one tenth) of an inch of precipitation in any continuous 4 (four) hour period.

Ornamental landscape: Any landscaping where the primary function is of maintaining aesthetic value. An ornamental landscape may serve other purposes but the primary purpose is visual.

Person: Any customer, tenant, property owner, governmental entity, firm, association, organization, company or business using water.

~~**Recycled water:** Treated reclaimed wastewater from a publically owned treatment plant.~~

Turf: Grasses grown for ornamental or recreational use which are mowed regularly. It is also referred to as lawn.

Water: Any water delivered by or originating from Coastside County Water District's transmission and distribution system.

Section 3: Prohibited and Restricted Activities in Promotion of Water Conservation

- A. To promote water conservation, each of the following actions is prohibited, except where necessary to address an immediate health and safety need or to comply with a term or condition in a permit issued by a state or federal agency:
1. The application of water to outdoor landscapes and turf in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, storm-water drainage infrastructure, or structures;
 2. The use of a hose that dispenses water to wash motorized vehicles, boats and trailers, except where the hose is fitted with a positive shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use;

3. The application of water to driveways and sidewalks;
 4. The use of water in a fountain or other decorative water feature, except where the water is part of a recirculating system;
 5. The application of water to outdoor landscapes during and within 48 hours after measurable rainfall; and
 6. The application of water to ornamental turf on public street medians.
- B. To prevent the waste and unreasonable use of water and to further promote water conservation, each of the following actions is prohibited:
1. The use of water that causes flooding or pooling due to super-saturation of the ground or soil;
 2. The use of water when the customer has been given written notice by the District to repair broken or defective plumbing, equipment, appliances, sprinklers, watering or irrigation systems, and has failed to effect such repairs for 24 hours after delivery of the notice;
 3. The indiscriminate running of water or washing with water that causes runoff;
 4. The use of water for single pass through cooling systems. The use of potable water ice making machines and other mechanical equipment that utilizes a single-pass cooling system to remove and discharge heat to the sewer. Water used for all cooling purposes shall be recycled or re-circulated; and
 5. The use of water from any fire hydrant, unless specifically authorized by the District, except by regularly constituted fire protection agencies for fire suppression purposes or for other specifically authorized uses, including water distribution flushing, fire flow testing, and filling of District approved vehicles for sewer system flushing, and street sweeping purposes.
- C. Specific Non-Residential End-User Requirements and Prohibitions in Promotion of Water Conservation:
1. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased; and
 2. Operators of hotels, motels, inns, and bed and breakfast establishments, shall provide guests with the option of choosing not to have towels and linens laundered daily. The operator shall prominently display notice of this option in each guestroom using clear and easily understood language; and

~~3. All commercial, industrial, institutional and irrigation customers that use a water supply any portion of which is from a source other than Coastside County Water District shall:~~

~~(a) Notify the District by July 1, 2015, if there is an alternate water supply associated with their property; and~~

~~(b) Limit outdoor irrigation of ornamental landscapes or turf with potable water to no more than two days per week; or~~

~~(c) Reduce potable water usage by 25 percent for the months of June 2015 through February 2016 as compared to the amount used for the same months in 2013.~~

~~Section 4: Mandatory Restrictions on Outdoor Irrigation of Ornamental Landscapes or Turf~~

Section 4: Voluntary Water Conservation for all Customers

During this statewide drought emergency, the District is asking customers to voluntarily conserve 10 percent for each month, as compared to the amount used in the same month in 2013. The focus is primarily on reductions in outdoor ornamental landscape water use.

~~A. Time of day restriction. No person shall use or cause to be used any water for ornamental landscape or turf irrigation between the hours of 8:00 a.m. and 5:00 p.m.~~

~~B. Length of time restriction. No person shall use or cause to be used any water for ornamental landscape or turf irrigation that exceeds 15 minutes per irrigation station during the designated days and times allowed for irrigation.~~

~~C. Days of the week restrictions. No person shall use or cause to be used any water for ornamental landscape or turf irrigation on Sunday and Saturday. Irrigation of ornamental landscape or turf is allowed only on the following days:~~

~~1. Odd Address: Monday and Thursday~~

~~2. Even Address: Tuesday and Friday~~

~~3. No Address: Monday and Thursday~~

~~4. The address used to determine Irrigation days is as it appears under service address in the utility billing database under account information.~~

~~D. The limitations specified in Section 4. A, B, and C shall not apply to Agricultural use, Floricultural use and Plant Nursery use.~~

~~E. Section 4. A, B, and C does not apply to the following categories of water use for the irrigation of ornamental landscapes or turf:~~

~~1. the use of a hand-held bucket or similar container;~~

- ~~2. the use of a hand-held hose with a positive shut-off valve or similar device;~~
- ~~3. the use of a properly functioning low volume irrigation system;~~
- ~~4. the use for very short periods of time for the express purpose of adjusting or repairing an irrigation system;~~
- ~~5. the use of a graywater system; and~~
- ~~6. the use of recycled water.~~

Section 5: Enforcement

A. Written Notice

If the District believes that water has been or is being used in violation of the above restrictions, the District will send a written notice to the customer specifying the nature of the violation and the date and time of occurrence and request that the customer cease the violation and take remedial action. The District will provide the customer with a copy of the ordinance and inform the customer that failure to comply may result in termination of water service.

B. On-Site Notification

In the event that a further violation(s) is observed by District, after the original written notice, the District will make reasonable efforts to notify the customer of the violation and post a notice on the front door or other point of entry onto the property requiring the customer to cease the violation and take remedial action within 48 hours of the on-site notification. Failure to comply after the on-site notification may result in the temporary termination of water service.

C. Termination of Water Service

1. In the event that a further violation(s) is observed by District personnel 48 or more hours after the on-site notification, it will be deemed a willful violation of the mandatory restrictions on water use and the District may temporarily discontinue water service.
2. The customer shall be responsible for paying the District's costs incurred in enforcing this ordinance, including providing the on-site notification and temporarily terminating and restoring water service, on a time and material basis in accordance with the District's rate and fee schedule.
3. The customer shall pay all fees and charges above, and the customer's account must be in good standing, in order for the District to proceed with the reconnection of water service after it has been temporarily terminated.

Section 6: Appeal

Any customer, who disputes a staff determination of a violation of the above restrictions, may appeal in writing to the General Manager. The decision of the General Manager shall be final.

A. Written Appeal

The written appeal must be addressed to the General Manager and include: (1) the customer's name; (2) the mailing address and site address, if different; (3) the water account number; (4) a description of the violation(s); (5) the enforcement action taken; and (6) a detailed explanation of the basis of the appeal.

Coastside County Water District
Attn: General Manager
766 Main Street
Half Moon Bay, CA 94019

B. Criteria for Appeal

The General Manager will evaluate each written appeal based on the following criteria: (1) public health; (2) public safety; and (3) regulatory requirements of a state or federal agency.

Section 7: Effective Date

All provisions of this amended and restated ordinance shall become effective after the publication of this ordinance and remain in effect until the District cancels implementation of Stage 2 – Water Shortage Emergency Warning of the District's Water Shortage Contingency Plan.

Section 8: Severability

If any provision of this ordinance is held to be invalid, or unenforceable in particular circumstances, such invalidity shall not affect the remainder of the ordinance which shall continue to be in full force and effect and the Board declares this ordinance to be severable for that purpose.

Section 9: Publication

The secretary is hereby directed to arrange for this ordinance to be published in a newspaper of general circulation in the District and to be posted on the District's website.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Coastside County Water District held on this 12th day of July 2016 by the following vote:

AYES:

NOES:

ABSENT:

Arnie Glassberg, President
Board of Directors

ATTEST:

David R. Dickson, General Manager
Secretary of the District

ORDINANCE NO. 2016-01

**AN AMENDED AND RESTATED ORDINANCE OF
THE COASTSIDE COUNTY WATER DISTRICT**

**An ordinance amending mandatory water use restrictions and prohibitions under
Stage 2- Water Shortage Emergency Warning of the District's Water Shortage
Contingency Plan**

Be it ordained by the Board of Directors of the Coastside County Water District (District) as follows:

Section 1: Findings and Determinations

This ordinance is adopted in light of the following facts and circumstances, which are hereby found and declared by the Board of Directors.

WHEREAS, California is experiencing one of the most severe droughts on record; and

WHEREAS, the District implemented Stage 1 – Water Shortage Advisory of its Water Shortage Contingency Plan on October 8, 2013 informing the public of a possible water shortage and requesting voluntary water conservation; and

WHEREAS, Governor Brown declared a drought state of emergency on January 17, 2014, and called on all Californians to do their part to reduce their water use; and

WHEREAS, the wholesale water provider for a significant portion of the District's water supply, the San Francisco Public Utilities Commission (SFPUC), requested 10 percent voluntary water use reduction system-wide on January 31, 2014; and

WHEREAS, the District requested 10 percent voluntary water use reduction from all customers on February 11, 2014; and

WHEREAS, Governor Brown issued a proclamation of a continued state of emergency on April 25, 2014 to mitigate the effects of drought conditions upon the people and property of California, and called on residents to refrain from wasting water; and

WHEREAS, the District adopted Resolution 2014-02 on May 13, 2014 urging heightened water use efficiency by customers in response to drought conditions, and

WHEREAS, the State Water Resources Control Board (SWRCB) adopted drought emergency regulations on July 15, 2014 (Resolution No. 2014-0038) that imposed mandatory actions by urban water suppliers that became effective July 28, 2014; and

WHEREAS, the District was required to comply with the 2014 SWRCB drought emergency regulations as an urban water supplier, and one of the mandatory actions requires the District to implement all requirements and actions of the stage of its Water

Shortage Contingency Plan that impose mandatory restrictions on outdoor irrigation of ornamental landscapes or turf with potable water; and

WHEREAS, the District is an urban water supplier that has an adopted Water Shortage Contingency Plan that is considered sufficient by the California Department of Water Resources by review of the District's 2010 Urban Water Management Plan; and

WHEREAS, Stage 2 – Water Shortage Emergency Warning of the District's Water Shortage Contingency Plan describes a menu of options including mandatory restrictions on outdoor water use, irrigation and prohibiting cleaning of exterior surfaces with potable water; and

WHEREAS, by Resolution No. 2014-06, adopted on August 12, 2014, the District implemented Stage 2 – Water Shortage Emergency Warning of its Water Shortage Contingency Plan; and

WHEREAS, by Ordinance No. 2014-02, adopted on August 12, 2014, the District established mandatory water use prohibitions and restrictions under Stage 2-Water Shortage Emergency Warning of its Water Shortage Contingency Plan; and

WHEREAS, the SWRCB extended and expanded the drought emergency regulations on March 17, 2015 (Resolution No. 2015-0013) that imposes mandatory actions by urban water suppliers that became effective March 27, 2015; and

WHEREAS, Governor Brown issued Executive Order B-29-15 on April 1, 2015, that, in part, directed the SWRCB to impose restrictions to achieve a statewide 25 percent reduction in potable urban water usage, to increase enforcement against water waste, and to implement additional restrictions on the outdoor use of potable water; and

WHEREAS, the SWRCB expanded and modified its drought emergency regulations on May 5, 2015 (Resolution 2015-0032) to achieve a statewide 25 percent reduction in potable urban water usage and the emergency regulations went into effect on May 18, 2015; and

WHEREAS, the SWRCB determined that the District had an average July-September 2014 R-GPCD of less than 65, and that the District shall reduce its total potable water production by 8 percent for each month as compared to the amount used in the same month in 2013; and

WHEREAS, by Ordinance No. 2015-01, adopted on June 9 , 2015, the District established mandatory water use prohibitions and restrictions under Stage 2-Water Shortage Emergency Warning of its Water Shortage Contingency Plan; and

WHEREAS, the SFPUC's request for all customers to reduce water consumption by 10 percent system-wide, remains in place through fiscal year 2017; and

WHEREAS, Governor Brown issued Executive Order B-37-16 on May 9, 2016, that in part, directed the SWRCB to prepare for another dry winter and adjust emergency water conservation regulations through January 2017; and

WHEREAS, the SWRCB modified its drought emergency regulations on May 18, 2016 (Resolution 2016-0029) to include a water supply reliability self-certification method of compliance, provided for in CCR, Title 23 § 864.5; and

WHEREAS, the District completed an on-line submittal for the water supply reliability self-certification on June 22, 2016 to qualify for a zero conservation standard; and

WHEREAS, the District has exceeded its state mandated 8 percent water savings and has achieved a cumulative water savings from June 2015 through May 2016 of 21.6 percent; and

WHEREAS, based on the District's recent water savings achievement, the District should be able to voluntarily meet a 10 percent water savings without having time of day irrigation restrictions, length of time irrigation restrictions and days of the week irrigation restrictions; and

WHEREAS, conditions still exist, even with a zero conservation standard from the SWRCB, for the District to remain in a Stage 2 – Water Shortage Emergency Warning of its Water Shortage Contingency Plan due to SFPUC requesting a 10 percent voluntary reduction in water consumption system wide, and SWRCB Resolution 2016-0029; and

WHEREAS, the actions taken hereinafter are exempt from the provisions of Section 21000 et seq. of the Public Resources Code as a project undertaken as immediate action necessary to prevent or mitigate an emergency pursuant to Title 14, California Code of Regulations Section 15269 and as a project undertaken to assure the maintenance, restoration or enhancement of a natural resource pursuant to Title 14, California Code of Regulations Section 15307.

Section 2: Definitions

Customer: Any person, whether within or without the geographical boundaries of the District, who uses water supplied by the District.

District: Coastside County Water District.

General Manager: The General Manager of Coastside County Water District or the General Manager's designee.

Measurable rainfall: Climatological conditions that result in ≥ 0.1 (greater than or equal to one tenth) of an inch of precipitation in any continuous 4 (four) hour period.

Ornamental landscape: Any landscaping where the primary function is of maintaining aesthetic value. An ornamental landscape may serve other purposes but the primary purpose is visual.

Person: Any customer, tenant, property owner, governmental entity, firm, association, organization, company or business using water.

Turf: Grasses grown for ornamental or recreational use which are mowed regularly. It is also referred to as lawn.

Water: Any water delivered by or originating from Coastside County Water District's transmission and distribution system.

Section 3: Prohibited and Restricted Activities in Promotion of Water Conservation

- A. To promote water conservation, each of the following actions is prohibited, except where necessary to address an immediate health and safety need or to comply with a term or condition in a permit issued by a state or federal agency:
1. The application of water to outdoor landscapes and turf in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, storm-water drainage infrastructure, or structures;
 2. The use of a hose that dispenses water to wash motorized vehicles, boats and trailers, except where the hose is fitted with a positive shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use;
 3. The application of water to driveways and sidewalks;
 4. The use of water in a fountain or other decorative water feature, except where the water is part of a recirculating system;
 5. The application of water to outdoor landscapes during and within 48 hours after measurable rainfall; and
 6. The application of water to ornamental turf on public street medians.
- B. To prevent the waste and unreasonable use of water and to further promote water conservation, each of the following actions is prohibited:
1. The use of water that causes flooding or pooling due to super-saturation of the ground or soil;
 2. The use of water when the customer has been given written notice by the District to repair broken or defective plumbing, equipment, appliances, sprinklers, watering or irrigation systems, and has failed to effect such repairs for 24 hours after delivery of the notice;

3. The indiscriminate running of water or washing with water that causes runoff;
4. The use of water for single pass through cooling systems. The use of potable water ice making machines and other mechanical equipment that utilizes a single-pass cooling system to remove and discharge heat to the sewer. Water used for all cooling purposes shall be recycled or re-circulated; and
5. The use of water from any fire hydrant, unless specifically authorized by the District, except by regularly constituted fire protection agencies for fire suppression purposes or for other specifically authorized uses, including water distribution flushing, fire flow testing, and filling of District approved vehicles for sewer system flushing, and street sweeping purposes.

C. Specific Non-Residential End-User Requirements and Prohibitions in Promotion of Water Conservation:

1. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased; and
2. Operators of hotels, motels, inns, and bed and breakfast establishments, shall provide guests with the option of choosing not to have towels and linens laundered daily. The operator shall prominently display notice of this option in each guestroom using clear and easily understood language.

Section 4: Voluntary Water Conservation for all Customers

During this statewide drought emergency, the District is asking customers to voluntarily conserve 10 percent for each month, as compared to the amount used in the same month in 2013. The focus is primarily on reductions in outdoor ornamental landscape water use.

Section 5: Enforcement

A. Written Notice

If the District believes that water has been or is being used in violation of the above restrictions, the District will send a written notice to the customer specifying the nature of the violation and the date and time of occurrence and request that the customer cease the violation and take remedial action. The District will provide the customer with a copy of the ordinance and inform the customer that failure to comply may result in termination of water service.

B. On-Site Notification

In the event that a further violation(s) is observed by District, after the original written notice, the District will make reasonable efforts to notify the customer of the violation and post a notice on the front door or other point of entry onto the property

requiring the customer to cease the violation and take remedial action within 48 hours of the on-site notification. Failure to comply after the on-site notification may result in the temporary termination of water service.

C. Termination of Water Service

1. In the event that a further violation(s) is observed by District personnel 48 or more hours after the on-site notification, it will be deemed a willful violation of the mandatory restrictions on water use and the District may temporarily discontinue water service.
2. The customer shall be responsible for paying the District's costs incurred in enforcing this ordinance, including providing the on-site notification and temporarily terminating and restoring water service, on a time and material basis in accordance with the District's rate and fee schedule.
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Any customer, who disputes a staff determination of a violation of the above restrictions, may appeal in writing to the General Manager. The decision of the General Manager shall be final.

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Coastside County Water District
Attn: General Manager
766 Main Street
Half Moon Bay, CA 94019

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The General Manager will evaluate each written appeal based on the following criteria: (1) public health; (2) public safety; and (3) regulatory requirements of a state or federal agency.

Section 7: Effective Date

All provisions of this amended and restated ordinance shall become effective after the publication of this ordinance and remain in effect until the District cancels implementation of Stage 2 – Water Shortage Emergency Warning of the District's Water Shortage Contingency Plan.

Section 8: Severability

If any provision of this ordinance is held to be invalid, or unenforceable in particular circumstances, such invalidity shall not affect the remainder of the ordinance which shall continue to be in full force and effect and the Board declares this ordinance to be severable for that purpose.

Section 9: Publication

The secretary is hereby directed to arrange for this ordinance to be published in a newspaper of general circulation in the District and to be posted on the District's website.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Coastside County Water District held on this 12th day of July 2016 by the following vote:

AYES:

NOES:

ABSENT:

Arnie Glassberg, President
Board of Directors

ATTEST:

David R. Dickson, General Manager
Secretary of the District

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: July 12, 2016

Report

Date: July 8, 2016

Subject: Meter Change and Advanced Metering Infrastructure Projects

Recommendation:

1. Waive the requirement in the District's Policies and Procedures for Award of Contracts (Resolution 2012-01) to solicit competitive bids and authorize the General Manager to proceed with sole-source procurement of
 - a. Badger ultrasonic water meters from National Meter and Automation, Inc.
 - b. Meter terminal units, data collector units, and services for automated metering from Aclara Technologies LLC.
2. Authorize the General Manager to contract for purchase of Badger meters and meter box lids for the Fiscal Year 2016-2017 Meter Change Program in an amount not to exceed \$300,000.
3. Direct the General Manager to negotiate and present for Board approval a contract with Aclara Technologies LLC to provide materials and services for the District's Automated Metering Infrastructure.

Background:

Included in the District's Fiscal Year 2016/17 to 2025/26 Capital Improvement Program are line items for implementation of Advanced Metering Infrastructure (AMI) and replacement of the District's revenue generating meters. District staff seeks the approval of the Board to contract with an AMI vendor and to proceed with the Meter Change Program, which will replace all residential and most non-residential meters over the next three years.

Meter Replacement

Independent of the decision to implement AMI, the District needs to replace a majority of its meters over the next few years. The age profile of the District's meters shows that 57% are older than 15 years, and 43% are older than 20 years. Meter accuracy, particularly with mechanical meters, degrades over time, and meters may frequently "slow down", resulting in lost revenue to the District. The American Water Works Association (AWWA) recommends replacement of mechanical meters from 10-20 years, depending on size, use, water quality, and other factors.

STAFF REPORT

Agenda: July 12, 2016

Subject: Meter Change and Advanced Metering Infrastructure Projects

Page 2

Ultrasonic meters represent the new generation of smaller revenue generating meters and typically have a 20 year warranty for accuracy and battery life. Ultrasonic metering is a proven technology, and the availability of residential-size ultrasonic meters has led to their widespread adoption. Advantages of ultrasonic meters include:

- No moving parts – so meters don’t get “stuck” and don’t lose accuracy due to mechanical wear
- Long-term guaranteed accuracy as well as consistent accuracy across all flow ranges
- Higher resolution and the ability to read lower flow rates than mechanical meters can register, increasing revenue
- Built-in ability to detect leaks, backflow, and meter tampering.

Considering the advantages of ultrasonic metering, staff eliminated mechanical metering from further consideration for replacement of residential and smaller non-residential meters.

District staff has piloted Badger ultrasonic meters and have found them to be easy to install and to provide reliable meter reads. We have also investigated meters available from other major manufacturers, including Kamstrup, Sensus (provider of our current mechanical meters), and Neptune. The table below shows key elements of comparison between these functionally similar meters.

Vendor:	Badger	Kamstrup	Sensus	Neptune
<i>Meter Size Availability</i>	Up to 2 inches	Up to 2 inches	Up to 1 inch (iperl)	Up to 1 inch
<i>Experience with Ultrasonic:</i>	10+ years in Europe (Diehl meters)	10+ years in Europe	Limited <5 years	<2 years
<i>Size:</i>	Slimline	Slimline	Largest – would require meter box modification	2 nd largest – would require meter box modification in many cases
<i>Cost:</i>	5/8" - \$109 or less	Competitive – similar to Badger	\$\$\$\$\$	\$\$\$\$\$
<i>Other:</i>	Sturdy lid; flips back and forth hcf to gallons	Flimsy lid		
<i>Warranty:</i>	20 years	20 years	20 years	20 years

Based on the above comparison, staff recommends selecting the Badger meters. We eliminated Sensus and Neptune meters because they are more expensive and because their larger sizes would require replacement of many or all of the

District's existing meter boxes, which would be very costly. Badger and Kamstrup are similar meters with similar costs, but our field staff is concerned that the meter lids of the Kamstrup would be prone to breakage, increasing meter maintenance effort and costs.

Advanced Metering Infrastructure (AMI)

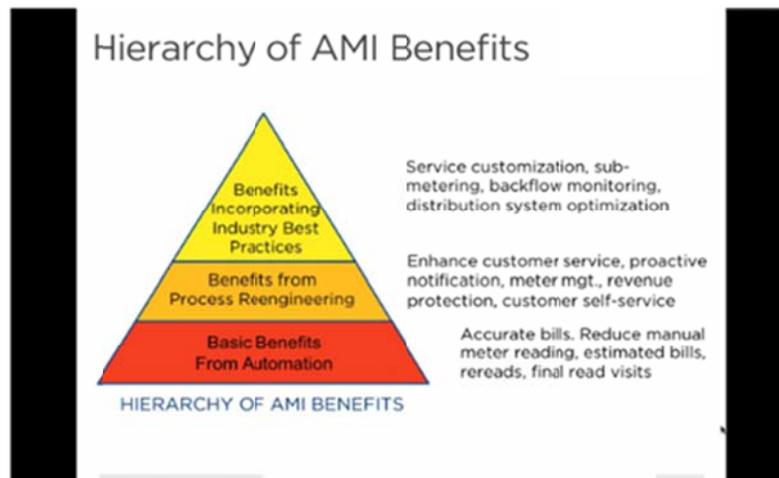
Overview

Advanced metering infrastructure (AMI) is an "integrated system of smart meters, communication networks, and data management systems that enables two-way communication between utilities and customers." (Smartgrid.gov)

AMI provides for meter reading data to be transmitted from a smart meter to our office computer systems on a set frequency (daily, hourly, etc.) via data collectors and utilizing radio or cellular communications. The AMI software will have the capability to interface meter readings with our utility billing system and data analytics programs, as well as a customer internet portal.

Benefits of AMI

The chart below summarizes some of the benefits to be gained by implementing AMI.



Some of the benefits that the District hopes to gain from using AMI include:

- Reduction in manual reads, freeing up time for other field work, leak investigations, systems maintenance, etc., while also reducing the risk of injury and increasing billing efficiency.
- Implementation of monthly billing for residential customers (from bi-monthly), enabling customers to plan for smaller, and more manageable bills.

- Leak detection. Meter reading history (by hour/day) will be available to District staff in order to contact customers who may have potential leaks. Customer Service will also have real-time access to a customer's water use when discussing a high bill complaint.
- Reduction in field visits (field service requests) for ins/outs, rereads, etc. Customer Service will be able to pull meter readings by date and time for processing ins/outs vs. requiring staff to physically go out and read the meter.
- Assistance with water loss estimates. AMI is recognized by the State Water Board as being an effective tool for managing water loss in our distribution system.
- Improved analysis and reporting of water usage to regulatory agencies. Reporting dates can be consistently applied (last day of month, for example) to allow for better comparability. For example, consumption and production can be synced for better comparability and water loss management.
- Backflow detection to help protect water quality.
- Other future possibilities may include acoustic leak detection on distribution system assets and AMI installation on (raw and treated) production water meters.

Data Analytics Software/Customer Web Portal

In considering options for AMI, we will also need to consider data analytics software for managing meter readings, leak and other alerts as well as connectivity to the billing system and customer web portals. Given California's historic drought and the rapid adoption of AMI, there has been an explosion of recent entrants into the data analytics and customer-facing web portal marketplace. The District will be able to choose the software that is the best fit for our data management needs.

Research

Over the past year, the District has undertaken considerable research on options for new meters and AMI. As we reviewed the options, we initially found that most of the meter vendors wanted to sell a complete solution including proprietary meters, radios, and software. These systems would make it difficult to switch vendors in the future or to mix and match equipment from different vendors if we find it advantageous to do so. Our preference is to find a solution that gives us the most flexibility with choice of vendors, so that we can capitalize on a vendor's expertise. (Meter vendors, for example, may have limited expertise and commitment to software development.)

We have investigated and met with representatives of AMI providers including Aclara Technologies LLC, Badger, Sensus, and Neptune. Some of our key priorities include:

- Minimal meter or encoder failure rate/collector system redundancy
- Ease of installation/ease of ongoing maintenance
- Limited in-house expertise required to implement and maintain or use system
- Life and warranty of system components.

The table below summarizes key findings in our comparison of AMI alternatives (green shading indicates advantages of Aclara, the preferred vendor).

<i>Vendor:</i>	<i>Badger</i>	<i>Sensus</i>	<i>Neptune</i>	<i>Aclara</i>
<i>AMI "Package":</i>	Sells AMI as package with Badger meters and proprietary software selection, "Beacon"	Sells AMI as package with Sensus meters and proprietary software selection	Sells AMI as package with Neptune meters and proprietary software selection	Sells AMI and backend software only; not a meter company; not a data analytics company
Use of competitor meters with AMI?	Discouraged (but possible – may require additional hardware)	Discouraged (but possible – may require additional hardware)	Discouraged (but possible – may require additional hardware)	Yes, Aclara works with most meters
Primary AMI offering:	3G cellular endpoints; hourly meter reads are transmitted daily to Beacon website via cell service; collectors available for larger agencies	Collector model – meter reads are transmitted from meter to collector via low band radio frequency; cell transmission from collectors to central office/vendor website	Collector model – meter reads are transmitted from meter to collector via low band radio frequency; cell transmission from collectors to central office/vendor website	Collector model – meter reads are transmitted from meter to collector via low band radio frequency; cell transmission from collectors to central office/vendor website
Ownership and Maintenance:	District-owned; District is responsible for troubleshooting cellular endpoint failure and communications issues (Beacon software will highlight problem issues including need for battery replacement.)	District owned collector infrastructure/radio frequency; maintenance available	District owned collector infrastructure/radio frequency; maintenance available	Aclara owned solution is available. Aclara is responsible for monitoring and troubleshooting data collector system – and replacing infrastructure if it becomes outdated. District is only responsible for replacement of endpoints.

STAFF REPORT**Agenda: July 12, 2016****Subject: Meter Change and Advanced Metering Infrastructure Projects****Page 6**

Vendor:	Badger	Sensus	Neptune	Aclara
Experience with AMI:	5 – 10 years; cell <3 years	5 – 10 years	5 – 10 years	>20 years 5 million endpoints
Example installations	Northstar CSD; UC Santa Cruz; UC Merced; Bakman Water Co-Fresno	local - Redwood City; Foster City; Mid Peninsula; 35M smartpoints in North America across multiple utilities	Includes Westwood, Truckee, Huntington Beach, Indio, La Puente, Vacaville	Installation base – used in 800 utilities worldwide including San Francisco and New York City; used in Half Moon Bay for PG&E
Installation & programming:	Easy – requires limited skills	Complex	Complex	Somewhat complex
Software:	Tied to proprietary “Beacon” software (that includes both administrative, data analytics, and customer facing software)	Tied to Sensus proprietary software (that includes both administrative, data analytics, and customer facing software)	Tied to Neptune proprietary software (that includes both administrative, data analytics, and customer facing software)	Tied to proprietary internal/administrative software; for data analytics and customer facing software District has flexibility in selecting 3 rd party software
Entry Cost:	Encoder– (ap \$90 each) plus meter box lids (no additional data collectors)	Data Collectors >\$100K + Encoders (ap. \$145 ea) + meter box replacement	Data Collectors >\$100K++ Encoders (ap \$90 ea) + meter box replacement	Data Collectors <\$100K plus Encoders (ap. \$95 ea) + meter box lids
Ongoing Cost:	\$.89 per encoder per month - 10 years (ap. \$78K per year)	TBD	TBD	Graduated from \$0 to \$38K per year until year 3; 20 years (10 years also available); plus \$20K for data analytics/customer facing software and portal
Life:	‘Unknown. Reps have indicated replacement of cell encoder is likely within 5-10 years due to changing technologies	15-20 years	15-20 years	15-20 years

After eliminating Sensus and Neptune because their systems would restrict our choice of meters now and in the future, we view Aclara as preferred over Badger. We feel both offerings are attractive and appear to have similar costs, but we are

concerned that the battery life and limited technology lifespan of the Badger cellular radios could result in higher long-term costs and less flexibility with Badger. We would also prefer not to be tied to Badger's proprietary data analytics/customer-facing software. Overall, we are confident that the extensively proven Aclara solution will be the best choice for the District's AMI.

Recommendation:

Staff recommends the following:

- Utilize Badger Ultrasonic Meters initially for up to 2 inch meters, and leave open the ability to change meter suppliers over time given changing technologies and pricing.
- Implement the Aclara AMI with Aclara-owned data collection network. Under the terms, Aclara is responsible for the operation and maintenance of the collectors and replacement for failures, technology updates, etc.
- Select a third party data analytics software program/customer service portal after implementation. (Aclara includes the basic software for acquiring data, providing billing system reads, monitoring high reads, backflow, etc.)
- Meters and AMI will be installed over three years utilizing District staff, saving \$750,000 in labor.
- After signing contract with Aclara to be presented to the Board in August 2016, installation would begin in October 2016.

Fiscal Impact:

Costs up to \$600,000 in Fiscal Year 2016-2017. The approved FY16/17 to FY25/26 Capital Improvement Program includes \$1,800,000 in funding for AMI and the Meter Change Program over Fiscal Years 16/17 through 18/19.

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: July 12, 2016

Report

Date: July 8, 2016

Subject: Proposed Revisions to Policies and Procedures for Award of Contracts

Recommendation:

Approve Resolution No. 2016-__ revising the District's Policies and Procedures for Award of Contracts.

Background:

Revisions to the Policies and Procedures for Award of Contracts shown in Exhibit A authorize the General Manager to designate someone to exercise the GM's authority under the policies. This change will help ensure continuity of District operations when the GM is not available.

Fiscal Impact:

None.

RESOLUTION NO. ~~2016- 2-01~~

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE COASTSIDE COUNTY WATER DISTRICT
AMENDING POLICIES AND PROCEDURES FOR AWARD OF CONTRACTS**

WHEREAS, section 54202 of the California Government Code requires all local agencies to adopt policies and procedures, including bidding requirements, for purchase of equipment and supplies; and

WHEREAS, Section 30579.5 of the California Water Code authorizes the Board of Directors of a county water district to delegate to its General Manager authority to enter into contracts on behalf of the District; and

WHEREAS, the Board of Directors adopted Resolution No. ~~20062012-05-01~~ in ~~February of 2006~~March of 2012 in accordance with the aforementioned statutes to establish "Policies and Procedures for Award of Contracts"; and

WHEREAS, the Board of Directors desires to amend said policies and procedures as set forth herein.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Coastside County Water District hereby adopts the following Policies and Procedures for Award of Contracts, and repeals Resolution No. ~~20062012-0501~~, effective immediately upon adoption of this Resolution:

Policies And Procedures For Award Of Contracts

For purposes of these Policies and Procedures for Award of Contract, all references to the General Manager mean the General Manager or designee. The General Manager shall name all designees in writing, and the General Manager may change the designees at any time in the sole discretion of the General Manager.

A. Professional Services Contracts

1. Advertising and competitive bidding is not required.
2. The General Manager is authorized to employ professional consultants where the cost of work does not exceed \$30,000. Contracts in excess of \$30,000 must be submitted to and approved by the Board of Directors.

B. Construction Contracts

1. When the estimated cost of the work is below \$30,000, the General Manager may award the contract. Contracts for work when the estimated cost is \$30,000 or more must be submitted to and approved by the Board of Directors.
2. When the estimated cost of the work is between \$15,000 and \$30,000, the General Manager shall obtain informal bids but need not formally solicit

sealed competitive bids.

3. When the estimated cost of the work exceeds \$30,000, the General Manager shall obtain sealed competitive bids through posting on the District's website and/or soliciting from a list of contractors known to provide the services, and by implementing other means appropriate for the particular construction project to maximize the number of responsive and responsible bidders.
4. The foregoing policies are not intended to preclude the General Manager from utilizing District employees to carry out work on a force account basis.

C. Purchase of Equipment and Supplies, Including Vehicles

1. When the estimated cost of materials or supplies is below \$30,000, the General Manager may award the contract. Contracts for materials or supplies in excess of \$30,000 must be submitted to and approved by the Board of Directors.
2. When the estimated cost of materials or supplies is between \$15,000 and \$30,000, the General Manager shall obtain informal bids but need not formally solicit sealed competitive bids.
3. When the estimated cost of materials or supplies exceeds \$30,000, the General Manager shall obtain sealed competitive bids through posting on the District's website and/or soliciting from a list of contractors, vendors, or manufacturers known to provide the services, equipment or supplies, and by implementing other means appropriate for the particular procurement to maximize the number of responsive and responsible bidders..

D. Change Orders/Contract Amendments

1. Where the original contract amount is \$30,000 or less, the General Manager is authorized to approve change orders or contract amendments up to an amount that, when combined with the original contract amount, does not exceed \$30,000.
2. Where the original contract amount exceeds \$30,000, the General Manager is authorized to approve change orders or contract amendments when (i) total change orders or contract amendments for the project cumulatively do not exceed the greater of 10% of the original contract amount or \$30,000, and (ii) the change order or contract amendment does not exceed \$30,000.
 - a. In the event that the cumulative total of such change orders

or contract amendments is greater than ten percent (10%) of the original contract amount, the General Manager shall also notify the Board of Directors at the next Board meeting.

3. All other change orders and contract amendments must be submitted to and approved by the Board of Directors.

E. Sole Source Procurements

1. Regardless of the estimated cost of the procurement, the General Manager is not required to obtain bids, either formal or informal, when procuring materials, supplies, equipment or services for which there exists only one source of supply. For sole source procurements, the General Manager need only solicit a quote, bid or proposal from one source.
2. The General Manager may proceed with a sole source procurement when the requirements for the items or services to be procured are so unusual or distinct as to narrow the possible sources down to one, for example, with the procurement of replacement parts for brand name equipment or machinery, or with a contract amendment or change order that is not within the scope of the original contract. The General Manager may also proceed with a sole source of procurement if, after solicitation from a number of sources, competition is determined to be inadequate.
3. When the estimated cost of any sole source procurement exceeds \$30,000, the procurement must be submitted to and approved by the Board of Directors.
4. For all sole source procurements, the General Manager shall document the basis for proceeding with the sole source procurement.

F. Waivers

1. **Board Waiver:** The Board of Directors may waive any or all of the above requirements when the Board determines it is in the best interest of the District.
2. **General Manager Waivers - Emergencies**
 - a. For contracts that require Board approval, the General Manager may waive any or all of the procedural requirements set forth in this policy without prior Board approval in an "emergency." An "emergency" includes, but is not limited to, (1) a breakdown of essential District services, and (2) field conditions that indicate an immediate threat to the public or employee safety or other significant impact to District facilities.
 - b. The General Manager shall advise the President of the Board or other Director, as soon as practicable, of any emergency. The General Manager

must provide a full report of the action taken due to an emergency to the Board of Directors at the next Board meeting following the emergency condition.

PASSED AND ADOPTED this thirteenth day of March, 2012 by the following votes of the Board of Directors:

AYES: Director Coverdell, Vice-President Reynolds, Directors Hannegan and Mickelsen and President Donovan

NOES:

ABSENT:

Jerry C. Donovan, President, Board of Directors
Coastside County Water District

David R. Dickson, Secretary of the Board

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: July 12, 2016

Report

Date: July 5, 2016

Subject: Resolution Requiring Even-Numbered Year Elections for the Board of Directors

Recommendation:

Approve Resolution No. 2016-__ Requiring Even-Numbered Year Elections for the Board of Directors.

Background:

At the request of the Board, staff presents for the Board's consideration a resolution that would, following approval by the San Mateo County Board of Supervisors, change the District's elections from odd-numbered to even-numbered years, corresponding with the statewide general election. The next District election would occur in November 2018. This change would extend the terms of Directors whose terms of office now expire in 2017 (Mickelsen, Feldman) to 2018 and those whose terms expire in 2019 (Coverdell, Glassberg, Reynolds) to 2020.

Special districts making this change, including Montara Water and Sanitary District and Granada Community Services District, cite the increased voter participation associated with the statewide general election as a benefit. In addition, the District should experience lower election costs as a result of the change, as odd-year election expenses are now divided among a smaller number of special districts.

Fiscal Impact:

Minor reduction in typical election costs of about \$25,000 per election.

RESOLUTION NO. 2016-__

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE COASTSIDE COUNTY WATER DISTRICT
REQUIRING EVEN-NUMBERED YEAR ELECTIONS
FOR THE BOARD OF DIRECTORS**

WHEREAS, the Coastside County Water District's (District) enabling legislation, specifically California Water Code Section 30068 *et seq.*, specifies that County Water Districts are subject to the Uniform District Election Law; and

WHEREAS, the Uniform District Election Law, specifically California Elections Code Section 10505, provides that elections for the Board of Directors of the District are held in odd-numbered years, and the District currently holds its election for members of its Board of Directors in odd-numbered years; and

WHEREAS, pursuant to Election Code Sections 10505 and 10404(b), the District's Board of Directors may, by resolution, order that the elections of its directors be held on the same day as a statewide general election; and

WHEREAS, California Elections Code Section 1001 provides that elections held in June and November of each even-numbered year are statewide elections and the dates of those elections are statewide election dates; and

WHEREAS, the terms of two members of the Board of Directors are set to expire in November of 2017 and the terms of three members of the Board of Directors are set to expire in November of 2019; and

WHEREAS, the next statewide general election in November of an even-numbered year at which the members of the Board of Directors could be elected following the expiration of the terms of the current Directors is November 6, 2018; and

WHEREAS, the Board of Directors desires, as permitted by law, to consolidate the election of members of its Board of Directors with the statewide general election held on the first Tuesday after the first Monday in November of each even-numbered year.

NOW, THEREFORE, BE IT RESOLVED that pursuant to its rights, powers and authority, the Board of Directors of the Coastside County Water District hereby:

1. Orders the elections of members of the District's Board of Directors to occur regularly on the same date as statewide general elections occurring on the first Tuesday after the first Monday in November of even-numbered years and to be consolidated with those even-numbered year elections.
2. Orders such elections commence with the statewide general election to be held on November 6, 2018.

3. Acknowledges that those members of the Board of Directors whose terms of office will expire prior to the statewide general election in November 2018 will continue in office until their successors are elected and qualified in accordance with Section 10404(i) of the California Elections Code at the November 2018 election, and that those members of the Board of Directors whose terms of office will expire in December 2019 will continue in office until their successors are elected and qualified in at the November 2020 election.

4. Directs the District Secretary to submit this Resolution to the County of San Mateo Board of Supervisors no later than 240 days prior to the next scheduled District election.

5. Requests the County of San Mateo Board of Supervisors administer this Resolution as set forth in Section 10404 of the California Elections Code and, within 60 days of the submission of this Resolution, approve this Resolution unless it finds that the ballot style, voting equipment, or computer capacity cannot handle additional elections or materials, in accordance with Section 10404(e) of the California Elections Code.

PASSED AND ADOPTED this 12th day of July 2016, by the following vote of the Board:

AYES:

NOES:

ABSENT:

Arnie Glassberg, President
Board of Directors

ATTEST:

David R. Dickson, General Manager
Secretary of the District

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, Assistant General Manager

Agenda: July 12, 2016

Report

Date: July 8, 2016

Subject: Approval of Class Specifications for Customer Service Technician and Administrative Services Manager positions; Approval of Salary Schedule

Recommendation:

1. Approve Class Specification for Customer Service Technician, and approve filling open position (included in FY 2016/17 Budget)
2. Approve Class Specification for Administrative Services Manager, and approve moving Gina Brazil to new classification
3. Approve modifications to Salary Schedule (reflecting new Class Specifications)

Background:

Item (1)

The District has an open position for an Office Specialist that was vacated last October and not yet rehired. Staff has updated the job description as "Customer Service Technician" to better accommodate the current needs of the District.

Attachment A presents the Class Specification for the Customer Service Technician. Proposed annual salary for the position ranges from \$64,792 to \$78,952.

Staff seeks approval of this new Class Specification, and approval to fill this position in lieu of the open Office Specialist II position.

Item (2)

In a recent review of job descriptions, staff has determined that the job description and Class Specification of Office Manager does not appropriately describe the roles and responsibilities of the incumbent, Gina Brazil. For example, Gina's role is responsible for coordinating plan reviews; performing contract administration; managing water purchase and service connection transfers; and ensuring compliance with our regulations and Coastal Development Permits. These responsibilities are not included in the Class Specification of Office Manager, and require a higher level of expertise than the Office Manager Class Specification.

Staff requests that a new Class Specification, Administrative Services Manager, be created to match the job requirements and expectations of the position.

Attachment B presents the Class Specification for the Administrative Services Manager. Proposed annual salary for the position ranges from \$96,200 to \$117,204.

Staff also seeks approval to move Gina Brazil, to this new Class Specification, and to adjust her compensation.

Item (3)

Staff requests the approval to modify the District's salary schedule (Attachment C) to include these two new Class Specifications. The salary schedule also reflects some housekeeping changes (rounding/corrections) since the April, 2016 schedule approval.

Fiscal Impact

(Item 1) - none. Budgeted position is within salary range.

(Item 2) - up to \$15,000.

(Item 3) - none.

**COASTSIDE COUNTY WATER DISTRICT
CLASS SPECIFICATION
CUSTOMER SERVICE TECHNICIAN**

CLASS TITLE: CUSTOMER SERVICE TECHNICIAN

DEFINITION

Under general supervision and working independently, assists customers both in the field and in the office. The position will perform various duties related to servicing customer accounts, including answering customer inquiries both on the phone and in the field; handling meter re-reads and/or investigating high or low usage; turning water service on or off; and placing tags at service addresses. The position will work closely with the Utility Billing Specialist in overseeing the meter reading process, and identifying and troubleshooting meter related issues. The incumbent will also work closely with the field crew in meter reading, as required, and will be responsible for Automated Meter Reading/Infrastructure (AMR/AMI) setup and support. In addition, this position will work closely with the Water Resources Analyst, particularly in implementing the District's water conservation efforts.

DISTINGUISHING CHARACTERISTICS

This is a single-position class reporting to the Office Manager. The position involves working both in the field and in the office and interacting directly with customers and the public as well as District field and office staff. The incumbent will serve in a "bridge" role between office and field staff to ensure that customer-related meter issues are resolved. The incumbent will also be proficient in using computers and meter reading devices and software programs, and is able to effectively communicate issues and findings to customers and District staff, both verbally and in writing.

EXAMPLES OF DUTIES

Duties may include, but are not necessarily limited to:

Field

- Reads customer water meters to verify consumption and to check for customer leaks.
- Investigates and resolves basic customer problems and complaints concerning water services, including high bills.
- Communicates with customers on how to detect leaks and manage water usage.
- Coordinates monthly meter reading activities and schedule with field staff. Provides backup support for meter readings. Handles AMR/AMI reads as well as AMR/AMI programming setup.
- Conducts field inspections and supports the activities of the Water Resources Analyst.

Office

- Responds to on-site and/or telephone inquiries from customers, particularly regarding high water usage. Also able to handle "standard" customer service requests, including responding to billing questions.

- Supports the Water Resources Analyst as required, including promoting water conservation efforts.
- Generates and analyzes reports from utility billing system to flag high or low reads or unusual trends. Assures that meter readings are accurate and reliable, especially prior to billing.
- Proactively contacts customers with high bills and/or unusual activity (and particularly given AMR/AMI data) and on a timely basis. Conduct in-person visits with customers as needed.
- Enters data into the utility billing database to document interaction with customers, resolution of leaks, and other pertinent information.

MINIMUM QUALIFICATIONS

Any combination of education, experience and training which would provide an opportunity to acquire the knowledge, skills and abilities listed. A typical way to obtain the knowledge and abilities would be:

Training and Experience:

High School diploma or equivalent and three (3)+ years experience in customer service, meter reading, utility billing, and/or field operations within a water utility. Familiarity with water metering is considered to be a key skill.

Knowledge

- Proficient with use of computer software and systems, including Microsoft Office and Utility billing systems.
- Understanding of water meters and meter reading technology.
- Basic understanding of residential and commercial water use.
- Basic understanding of plumbing, plumbing fixtures, appliances and irrigation equipment.

Ability and skill to:

- Deal courteously and effectively with the public.
- Read water meters and operate specialized equipment related to assignment such as meter reading devices (AMR/AMI.)
- Evaluate customer problems/concerns and exercise independent judgement to resolve them.
- Perform customer service functions, including answering telephone and/or in-person inquiries; responding to billing questions; preparing service orders; inputting data into District systems.
- Turn on/off water meters;. Also able to work with small tools, pumps, and gardening equipment to access meters as required.
- Organize and schedule assignments and appointments in the field.
- Communicate effectively, verbally and in writing.
- Understand and work effectively within the utility billing software system.

- Coordinate closely with District field staff in managing customer service cross-functional tasks (including meter reading) in order to accommodate scheduling and to maximize staff efficiency.
- Keep concise records and documentation.
- Handle basic unit conversions and calculations.
- Identify, analyze and troubleshoot issues, and highlight issues to District management.

Required Licenses and Certifications

Incumbent must possess and maintain a valid, unrestricted California Driver's License. State of California Water Distribution Operator I (or will obtain certification within one year of hire)

Preferred Licenses and Certifications

State of California Water Distribution Operator II
Cross Connection Control (Backflow) Program Specialist

PHYSICAL REQUIREMENTS

Incumbent must be able to perform job functions in a safe manner to avoid injuries and damage to district property. Vision, hearing and speech are required along with manual dexterity. This position requires prolonged sitting, standing, walking, reaching, twisting, turning, kneeling, bending, and stooping in the performance of daily activities. The ability to drag, lift, and push equipment and materials weighing up to 35 pounds is required. The position requires being in the field in a variety of conditions on uneven and slippery surfaces, and being exposed to water, dirt, pollen and other irritants.

This job specification should not be construed to imply that these requirements are the exclusive standards of the position.

**COASTSIDE COUNTY WATER DISTRICT
CLASS SPECIFICATION
ADMINISTRATIVE SERVICES MANAGER**

CLASS TITLE: ADMINISTRATIVE SERVICES MANAGER

DEFINITION:

Under general supervision, oversees and supervises day-to-day administrative, customer service, human resources, facilities, and financial support functions for the District. Also plays key role in contract administration for the District, including managing administration of water connection purchases and transfers as well as the District bidding/procurement activities. Participates in the development and enforcement of District policy and practices, and serves as a key liaison with governmental and other agencies to ensure compliance with reporting/procedures.

DISTINGUISHING CHARACTERISTICS:

This is a single-position class reports to the Assistant General Manager. Scope of work includes supervision of customer service staff, and ensuring that the administrative functions for the District are handled professionally and in a timely manner. Duties are diversified and require multi-tasking skills and sharp attention to facts, details, historical practices and compliance with District and governmental policies and requirements. Position also serves in a lead problem solving role for the District, and provides direction and guidance to customer service staff in handling customer service related issues.

EXAMPLES OF DUTIES:

Duties may include, but are not necessarily limited to:

- Supervises office/customer service staff in their day-to-day responsibilities including customer interface and problem solving (whether by phone, in person); utility billing; accounts receivable; cash receipts and collections; payroll; and accounts payable. Also performs or supervises other accounting related activities and reporting as required.
- Oversees human resource and payroll functions, including, but not limited to, ensuring compliance with CalPERS; managing medical and other insurances, including administering Workers Compensation claims.
- Manages facilities related infrastructure (and outsourced services) including building; offsite storage; telephone; internet; and computer systems/software. Plans, prepares and monitors budget for the District.
- Develops analyses, spreadsheets, and reports; compiles documents, etc. to respond to requests from Staff; Board of Directors; customers; property owners; and public agencies.
- Coordinates plan reviews and other activities as required with District Staff; District Counsel; District Engineer; public agencies; and other parties to ensure a timely response from the District.

- Coordinates water purchases and service connection transfers from initial request through contract agreement and Counsel and Board approval. Maintains historical accounting of water service connections including installed vs. not installed connections; ownership records; water transfers; and other related data.
- Performs contract administration functions as well as purchasing and bid documentation for the District.
- Serves as principal staff resource providing information to the general public, property owners, customers, realtors, developers, and other agencies regarding water service connection and assessment.

MINIMUM QUALIFICATIONS:

Any combination of education and experience that would provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Training and Experience:

Bachelor's degree from an accredited college or university or equivalent work experience in an administrative or financial role, AND

5+ years of increasingly responsible experience in general administration, preferably at a public utility or public agency, and including 3+ years of lead or supervisory experience.

Knowledge of:

- District rules, regulations, policies, and activities.
- Effective customer service standards and techniques.
- Enterprise/computer systems, including customer service and billing, and financial systems. Proficient in MS Office.
- Principles and practices of supervision, training and performance evaluation.
- Financial controls, reporting, and budget preparation.
- Purchasing and procurement processes and procedures in a public environment.
- Pertinent local, State and Federal laws and ordinances which impact the daily operation of a public agency or special district.
- Human resource policies and practices.

Ability to:

- Supervise, schedule, train and direct the work of assigned personnel.
- Exercise good judgment, keep calm, and make appropriate decisions in emergency situations and under pressure.
- Take a leadership role in resolving customer and other District issues.
- Establish and maintain effective, pleasant, and cooperative working relationships with employees, officials and the general public.

- Communicate effectively, both orally and in writing, with District Staff; Board of Directors; District Counsel; Government agencies, and the public.
- Independently manage assigned projects from concept through research, analysis, recommendation and implementation.

Skill In:

- Accounting functions such as utility billing; cash receipts; general ledger, accounts receivable/payable, payroll.
- Organization and record keeping.

Licenses/Certificates:

Possession of a valid Class C California State operator's license with a driving record acceptable to the District.

State of California Water Distribution Operator I is desirable (but not required.)

PHYSICAL REQUIREMENTS

The incumbent must be able to perform job functions in a safe manner to avoid injuries and damage to district property. Vision, hearing and speech are required along with manual dexterity. This position requires prolonged sitting, standing, walking, reaching, twisting, turning, kneeling, bending, and stooping in the performance of daily activities. The need to drag, lift, and push equipment and materials weighing up to 35 pounds is required.

This job specification should not be construed to imply that these requirements are the exclusive standards of the position. Not all duties are necessarily performed by each incumbent.

**COASTSIDE COUNTY WATER DISTRICT
SALARY SCHEDULE FOR FISCAL YEAR 2016-2017**

EFFECTIVE: July 1, 2016 (Revised)

Approved Board Meeting: _____

JOB TITLE	HOURLY RANGE BOTTOM	ANNUAL	HOURLY RANGE TOP	ANNUAL
MANAGEMENT				
GENERAL MANAGER				\$ 218,348
ASSISTANT GENERAL MANAGER				\$ 172,218
SUPERINTENDENT OF OPERATIONS		\$ 120,120		\$ 150,031
ADMINISTRATIVE				
ADMINISTRATIVE ASSISTANT	\$ 37.15	\$ 77,262	\$ 44.67	\$ 92,923
OFFICE MANAGER	\$ 37.92	\$ 78,880	\$ 46.23	\$ 96,154
ADMINISTRATIVE SERVICES MANAGER (NEW)	\$ 46.25	\$ 96,200	\$ 56.35	\$ 117,204
OFFICE SPECIALIST I	\$ 26.24	\$ 54,574	\$ 31.96	\$ 66,485
OFFICE SPECIALIST II	\$ 28.93	\$ 60,164	\$ 35.25	\$ 73,315
CUSTOMER SERVICE TECHNICIAN (NEW)	\$ 31.15	\$ 64,792	\$ 37.96	\$ 78,952
UTILITY BILLING SPECIALST	\$ 33.55	\$ 69,784	\$ 40.88	\$ 85,022
WATER RESOURCE ANALYST	\$ 38.41	\$ 79,887	\$ 46.82	\$ 97,381
WATER EFFICIENCY SPECIALIST	\$ 31.94	\$ 66,430	\$ 38.91	\$ 80,926
OPERATIONS				
DISTRIBUTION SUPERVISOR	\$ 46.25	\$ 96,200	\$ 56.35	\$ 117,204
MAINTENANCE WORKER	\$ 26.24	\$ 54,574	\$ 31.96	\$ 66,485
MAINTENANCE WORKER II	\$ 27.68	\$ 57,578	\$ 33.55	\$ 69,782
SR. TREATMENT/DISTRIBUTION OPERATOR	\$ 42.95	\$ 89,336	\$ 52.33	\$ 108,836
TREATMENT PLANT SUPERVISOR	\$ 52.33	\$ 108,836	\$ 63.75	\$ 132,606
TREATMENT/DISTRIBUTION OPERATOR	\$ 31.15	\$ 64,792	\$ 37.96	\$ 78,952

* All Coastside County Water District employees are paid on a bi-weekly schedule.

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Patrick Miyaki, Legal Counsel

Agenda: July 12, 2016

Report

Date: July 6, 2015

**Subject: Consider approval of Resolution 2016-___ Establishing
Appropriations Limit Applicable to District during Fiscal Year
2016-2017**

Recommendation

Adopt Resolution establishing appropriations limit applicable to District during Fiscal Year 2016-2017.

Background

Article XIII B of the California Constitution, and its implementing legislation, requires each local agency to review the “appropriations limit” applicable to it annually. The “appropriations limit” is the maximum amount of “proceeds of taxes” which the District can appropriate during the fiscal year. Last year, the Board of Directors adopted the appropriations limit applicable during FY 2015-2016. The District has obtained data from the State Department of Finance concerning inflation and population changes from which the limit for the upcoming fiscal year has been calculated. The calculations are shown on the following page.

Fiscal Impact:

Because the appropriations limit is far in excess of the amount of “proceeds of taxes” available to the District, the increase will not have any effect upon the District’s budget this year or in the foreseeable future.

COASTSIDE COUNTY WATER DISTRICT

NOTICE OF DETERMINATION OF APPROPRIATIONS LIMIT FOR FISCAL YEAR 2016 - 2017

State law (Section 7910 of the Government Code) requires each local government agency to determine during each fiscal year the appropriations limit pursuant to Article XIII B of the California Constitution applicable during the following fiscal year. The limit must be adopted at a regularly scheduled meeting or a noticed special meeting and the documentation used in determining the limit must be made available for public review fifteen days prior to such meeting.

Set out below is the methodology proposed to be used to calculate the fiscal year 2016-2017 appropriations limit for the District. The limit as set forth below will be considered and adopted at the meeting of the Board of Directors on July 12, 2016.

1. Appropriations limit for fiscal year 2015 - 2016	\$5,361,946
2. Population change (January 1, 2015 - January 1, 2016)	1.024%
3. Change in California per Capita Personal Income Fiscal Year 2015 – 2016	5.37%
4. Fiscal year 2016 - 2017 adjustment factor (1.0102 x 1.0537)	1.0644
5. Fiscal year 2016 - 2017 appropriations limit (\$5,361,946 x 1.0644)	\$5,707,255

Dated: June 27, 2016

RESOLUTION NO. 2016-__

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE COASTSIDE COUNTY WATER DISTRICT
ESTABLISHING THE APPROPRIATIONS LIMIT
APPLICABLE TO THE DISTRICT DURING FISCAL YEAR 2016-2017**

WHEREAS, by Resolution No. 2015-09, the Board of Directors established the appropriations limit applicable to the District during Fiscal Year 2015-2016 as \$5,361,946.

WHEREAS, Article XIII B of the California Constitution and Sections 7902(b) and 7910 of the Government Code require that each local agency subject thereto establish by resolution the appropriations limit applicable during Fiscal Year 2016-2017 by applying to the limit for Fiscal Year 2015-2016 the factors, as issued by the California Department of Finance, reflecting changes in population and per capita income; and

WHEREAS, the calculations showing the application of those factors were made available for public review at least fifteen days prior to the date hereof; and

WHEREAS, the applicable factors are as follows: (1) the change in the California Per Capita Personal Income was 5.37%, and (2) the applicable change in population from January 1, 2015 to January 1, 2016 was 1.024%.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Coastsides County Water District that the appropriations limit for Fiscal Year 2016-2017 is hereby established as \$5,707,255.

PASSED AND ADOPTED this 12th day of July 2016, by the following vote of the Board:

AYES:

NOES:

ABSENT:

Arnie Glassberg, President
Board of Directors

ATTEST:

David R. Dickson, General Manager
Secretary of the District

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David R. Dickson, General Manager

Agenda: July 12, 2016

Date: July 5, 2016

Subject: Approval of Water Service Agreement - Stoloski Subdivision Project

Recommendation:

Approve the attached Water Service Agreement between Coastside County Water District and Mark Stoloski & Robert Gonzalez for construction of pipeline extensions along Champs Elysees and Pullman Avenue.

Background:

The attached Water Service Agreement provides for construction of the water utility system that will serve the newly created parcels at the end of Champs Elysees and Pullman Avenue in Half Moon Bay. The project consists of approximately 90 linear feet of 6" diameter pipeline along Pullman Avenue and approximately 80 linear feet of 6" diameter pipeline along Champs Elysees.

Fiscal Impact:

None. All costs for engineering review, construction inspection, meter installation, administrative support, and other District activities associated with providing water service for the subdivision are paid by the applicant.

WATER SERVICE AGREEMENT

STOLOSKI / PULLMAN AVENUE AND CHAMPS ELYSEE BLVD **NON COMPLEX PIPELINE EXTENSION PROJECT**

THIS AGREEMENT is made as of this ____ day of _____, 2016, between COASTSIDE COUNTY WATER DISTRICT ("District"), and MARK STOLOSKI AND ROBERT GONZALEZ (collectively, the "Applicant").

THE PARTIES AGREE AS FOLLOWS:

1. RECITALS

This Agreement is entered into with regard to the following facts and circumstances.

A. District is a public corporation organized under the provisions of the California Water Code and is engaged in the storage, transmission and sale of water for domestic purposes within San Mateo County.

B. Applicant is the owner of real property located within the geographic limits of the District known as Assessor Parcel Numbers (APN) 048-133-030; 048-133-040; 048-133-050 and 048-133-060 in the City of Half Moon Bay, State of California (collectively, the "Property"), which is shown on Exhibit A.

C. Applicant has purchased, and has the right to install, four (4) five-eighth-inch (5/8") non-priority connections assigned as one five-eighth inch (5/8") individually to APN's 048-133-030; 048-133-040; 048-133-050 and 048-133-060.

D. Applicant has requested the installation of the following: (1) a six-inch pipeline extension approximately ninety (90) feet in length along Pullman Avenue; (2) a six-inch pipeline extension approximately eighty (80) feet in length along Champs Elysee Blvd; (3) four three quarter inch domestic service connection; (4) one-inch fire service connections; (5) fire hydrant; and all related appurtenances (collectively, the "Project"). Applicant represents and warrants that Applicant has obtained any and all permits and approvals necessary to construct the Project on the Property, including a Coastal Development Permit.

2. APPROVAL OF PROJECT UTILITY SYSTEM

The Project Utility System, as defined below, shown on and described in the Improvement Plans prepared by Sigma Prime Geosciences, Inc., dated February 29, 2106 and the Bridge Plan prepared by Praxis, dated December 14, 2015 (collectively, the "reviewed submittal documents") are approved. Copies of the reviewed submittal documents are incorporated herein by this reference as Exhibit B.

"Project Utility System" means the water mains, service lines, fittings, valves and housing thereof, fire hydrant, manholes, and all appurtenances thereto, as depicted and described in the reviewed submittal documents. The Project Utility System does not include the water mains on the Applicant side of the meter or the backflow prevention devices, all of which will be owned and maintained by Applicant.

3. INSTALLATION

A. Applicant shall commence installation of the Project Utility System no later than three (3) months, subject to extension for force majeure events not the fault of Applicant, after the date of this Agreement and shall complete its installation within twelve (12) months after the date of this Agreement. If installation is not commenced or completed by such dates, the District may terminate this Agreement, unless the delay is solely attributable to events, such as fire, flood or earthquake, which are beyond the control of, and not the fault of, Applicant.

B. Applicant shall install the Project Utility System in accordance with (1) the location and sizes shown on the reviewed submittal documents identified in Section 2; (2) the District's "Standard Specifications and Construction Details," a copy of which has previously been furnished to Applicant; and (3) the further reasonable directions of the District Engineer.

4. SUBMITTAL OF PROPOSAL FOR REVIEW AND APPROVAL BY DISTRICT.

Applicant is responsible for obtaining a proposal for construction of the Project from a licensed, qualified contractor to construct the Project ("Proposal"). The contractor shall possess a valid California Contractor's License (Class A or C34). The contractor shall have satisfactorily completed construction of a minimum of 5 similar pipeline projects, and shall, if requested, submit a list of these projects together with the telephone number of the owner's representative who can be contacted regarding the work. Prior to commencement of construction, Applicant

shall furnish a copy of the Proposal, along with evidence satisfactory to the District that the contractor possesses the necessary license and experience to construct the Project Utility System.

5. INSPECTION; CONSTRUCTION

A. Prior to commencing construction, Applicant shall furnish to the District Engineer, at Applicant's expense, a report by a competent soils engineer or soils laboratory indicating that the compaction of the fills within which said facilities are to be installed is at least equal to ninety-five percent (95%) compaction, as that phrase is defined in the latest edition of the Standard Specifications, State of California, Department of Transportation, or meets such other criteria as the District Engineer may prescribe.

B. Applicant shall notify District in writing at least ten (10) days in advance of the proposed starting date for construction and shall not commence construction unless the District Engineer or other authorized District inspector is at the site of the work when construction begins. District agrees to make the District Engineer or other authorized District inspector available to be on site, provided the ten (10) days advance notice is given by Applicant. If construction is not continuous, District shall be notified at least forty-eight (48) hours in advance of the resumption of construction. Any work performed without notice to District may be rejected by District on that ground alone. The District Engineer will observe and inspect facilities solely to protect the interests of the District and to determine whether the completed work is acceptable to District and can be incorporated into the District system. The District does not assume thereby any responsibility for the operations or safety practices of Applicant. Applicant is responsible for correct location of all facilities which it installs. The District Engineer will not inspect facilities installed "downstream" of the individual meter boxes.

C. Applicant shall permit District's employees and authorized representatives to inspect the Project Utility System, and the plans and materials therefore, at any reasonable time before, during, or after installation.

D. Applicant shall repair at its expense (or, at the option of District, shall reimburse District for the actual cost of repairs effected by it) any damage to District property caused by Applicant, its agents, employees, or contractors in constructing the Project Utility System.

6. PAYMENT OF FEES AND CHARGES

The Applicant will pay applicable fees and charges as follows:

A. Transmission and Storage Fees. None Due. Applicant has previously paid transmission and storage fees for four (4) five eighth-inch non-priority service connections.

B. Water Meter and Water Meter Installation Fees. None Due. Applicant will be billed separately for actual cost of the required meters at the time of plan review and meter installation for each parcel.

C. Initial Filing Fee. None due. The District acknowledges receipt of a non-refundable initial filing fee in the amount of \$250.

D. Plan Check and Construction Inspection Fees. Concurrently with the execution this Agreement, Applicant shall pay the sum of six thousand five hundred dollars (\$6,500.00), which is the amount due for the District staff and Engineer's costs in reviewing final plans, inspecting the construction of the project Utility System, modification of water system maps, administrative, legal and auditing costs. A final accounting will be performed prior to acceptance of the Project Utility System. Applicant shall pay additional fees if the deposit does not cover District costs for providing these services.

E. Total Payment Due with Agreement. The total payment due concurrently with the execution of the Agreement shall be six thousand five hundred dollars (\$6,500.00), which represents the sum of fees listed in paragraphs A, B, C and D above.

7. BONDS

Prior to commencement of construction, Applicant shall furnish to District the following bonds:

A. A Payment Bond in the amount of 100% of the Proposal amount, to guarantee payment of the obligations referred to in Section 3248 of the Civil Code;

B. A Performance Bond in the amount 100% of the Proposal amount, to guarantee faithful performance of the terms of this Agreement; and

C. A Maintenance Bond in the amount of 10% of the Proposal amount, to guarantee against defective materials and faulty workmanship for a period of two (2) years from and after the acceptance of the Project Utility System by District.

The bonds shall be in a form satisfactory to District. The surety or sureties must be qualified to do business in California. If any of the sureties, in the sole opinion of District, is or becomes irresponsible, District may require other or additional sureties which Applicant shall furnish to the satisfaction of District within ten (10) days after notice from District. In default thereof, District shall be released from all obligations under this Agreement. No prepayment or delay in payment and no change, extension, addition, or alteration or any provision of this Agreement or in the approved submittal documents referred to in Section 2, above, and no forbearance or acceptance by or on the part of District shall operate to release any surety from liability on a bond.

8. INDEMNITY

A. District shall not be responsible or held liable in any manner whatsoever for any injury or damage which may be done to any person or property (or other loss or liability) arising from the performance or failure to perform the obligations set forth in this Agreement and the installation of the Project Utility System by or on behalf of Applicant.

B. Applicant, on its behalf and on behalf of its successors in interest, hereby agrees to waive any claims against District arising from or related to the events and activities described in Subsection A, above, and to indemnify, defend and hold harmless the District, its directors, officers, employees, and agents from and against any and all liability for the death of or injury to any person and for the loss of, or damage to, any property (including the loss of its use) which may arise from such events and activities. The agreements contained in this paragraph shall survive the performance of the remainder of this Agreement and shall remain in full force and effect notwithstanding such performance.

9. INSURANCE

A. Applicant or its construction contractor shall, at its cost, maintain in full force and effect during the period beginning with commencement of construction of the Project Utility System and terminating no earlier than thirty (30) days after completion thereof and

approval by District for its connection with the District's distribution system, a policy or policies of liability insurance, as follows:

1. Bodily and personal injury liability in an amount not less than One Million Dollars (\$1,000,000.00) per person and Two Million Dollars (\$2,000,000.00) per occurrence; and

2. Property damage insurance in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence.

Such policies shall insure District as an additional insured against any and all liability for the death of or injury to any person and for the loss of or damage to any property which may arise by reason of acts done or omitted to be done as a result of the installation of the Project Utility System by or on behalf of Applicant and shall further insure District against any and all costs and expenses, including attorneys fees, which District may incur in resisting any claim which may be made against District for any such injury or damage.

B. Each such policy shall:

1. be issued by an insurance company or companies qualified to do business in California and approved in writing by District;

2. name District, its Directors, officers, agents and employees, as additional insureds;

3. specify that it acts as Primary Insurance; the insurer being liable thereunder for the full amount of any loss up to and including the total limit of liability without right of contribution from any insurance effected by District;

4. provide that the policy shall not be cancelled or altered without thirty (30) days' prior written notice to District (or Applicant shall provide this written notice to the District); and

5. otherwise be in form reasonably satisfactory to District.

C. Applicant or its contractor shall provide, and maintain at all times during the course of installation of the Project Utility System, Worker's Compensation Insurance in conformance with the laws of the State of California. Such policy shall provide that the

underwriter thereof waives all right of subrogation against District by reason of any claim arising out of or connected with installation of the Project Utility System and that such policy shall not be cancelled or altered without thirty (30) days' prior written notice to District.

D. Copies of all policies required above (or Certificates of Insurance satisfactory to District) shall be delivered to District at least ten (10) days prior to commencement of construction of the Project Utility System.

10. CONVEYANCE OF TITLE TO PROJECT UTILITY SYSTEM

Full right, title and interest in and to all elements of the Project Utility System installed pursuant hereto will be granted to District upon written notice of acceptance thereof by District and without the necessity for any further action by Applicant. There shall be no obligation upon District to pay or reimburse to Applicant any part of the cost of Project Utility System. Applicant warrants that upon such passage of title to District, the title shall be free and clear from any and all mechanics and materialmen liens that could arise from construction of the Project Utility System, charges and encumbrances whatsoever. The water meters described in Section 2, above, are and will remain the property of District.

11. ACCEPTANCE BY DISTRICT

District shall accept the Project Utility System when all of the following conditions have been met: (1) completion of the Project Utility System; (2) certification by Superintendent and or District Engineer upon completion that the Project Utility System has been constructed in accordance with this Agreement; (3) furnishing by Applicant of evidence that it has paid all costs incurred in constructing the Project Utility System; (4) performance by Applicant of all of its obligations under this Agreement which are to be completed prior to acceptance of the Project Utility System, including payment of all sums due the District; and conveyance of all easements; and (5) furnishing by Applicant of two sets of nonammonia-type mylar reproducible drawings of the completed improvements showing "as-built" conditions.

Upon acceptance, and payment for the cost of meter installation, District shall provide water utility service to the Project.

Upon acceptance, Applicant shall be relieved of all future obligation to maintain the Project Utility System, subject to its obligation to repair defects, which obligation is secured

by the maintenance bond provided for in Section 6.C., for the duration of the term of such bond (i.e., two years after acceptance).

12. EXECUTION AND PERFORMANCE OF AGREEMENT

Execution of this Agreement is a condition precedent to issuance by District of any letters, approvals, consents, or communications to any state, municipal, local or other public bodies regarding the availability of water service to the Property from the Project. Full performance of and compliance with each and every term of this Agreement by Applicant is a condition precedent to water service by District.

13. DISTRICT REGULATIONS

Applicant shall at all times abide by and faithfully observe any and all District ordinances, resolutions, rules and regulations presently in effect, including current fee schedules, or which may hereafter be enacted or amended from time to time, including but not limited to *Regulations Regarding Water Service Extensions and Water System Improvements; Engineering and Construction Standards; Approved Materials* (codified through Resolution No. 2003-11, March 2004), a copy of which has previously been furnished to Applicant.

14. ASSIGNMENT

Applicant's rights under this Agreement may be assigned only in connection with a sale or conveyance of the Property. No such assignment shall be valid or binding on the District unless the assignee executes a written instrument, in form and substance satisfactory to District, assuming all of Applicant's obligations under this Agreement, which have not been fully performed as of the date of assignment. Such assignment shall not release Applicant from any of its obligations to District under this Agreement.

This Agreement shall be binding upon and shall inure to the benefit of the parties and their successors and permitted assigns. If the Applicant or a permitted successor or assign shall disincorporate, forfeit its articles or right of incorporation, or otherwise fully terminate without a successor or assign, District shall as of the date of disincorporation, forfeiture or termination own the Project Utility System free and clear of any obligation to any party.

15. NOTICE

Any notice required by this Agreement shall be satisfied by a notice in writing, either delivered personally or sent by regular or certified mail, postage prepaid, and addressed as follows:

District: Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019
Attention: David R. Dickson, General Manager

Applicant: Mark Stoloski & Robert Gonzalez
727 Main Street
Half Moon Bay, CA 94019

16. CONSTRUCTION OF AGREEMENT

Both parties have participated in preparing this Agreement. This Agreement shall be construed reasonably and not in favor of or against either party hereto on the grounds that one party prepared the Agreement.

17. ENTIRE AGREEMENT

This Agreement, including the Exhibits which are hereby incorporated by reference, contains the entire agreement between the parties hereto. No oral understandings, statements, promises or inducements contrary to the terms of this Agreement exist.

18. APPLICABLE LAW

This Agreement shall be governed by and construed and enforced in accordance with and subject to the laws of the State of California. Except as expressly provided for herein, this Agreement is not intended to, and does not, modify the District's rights to exercise the legislative discretion accorded to it by the laws of California. Any lawsuit related to this Agreement shall be commenced and prosecuted in the County of San Mateo, State of California.

19. AMENDMENT

Any amendment hereof, including any oral modification allegedly supported by new consideration, shall not be effective unless reduced to a writing signed by both parties.

20. AUTHORIZED SIGNATURE

The individuals whose names are subscribed to this Agreement represent that they are authorized to act on behalf of the party for whom they sign.

21. TIME

Time is of the essence of the Agreement.

IN WITNESS WHEREOF the parties hereto have executed this Agreement as of the day and year first above written.

**DISTRICT:
COASTSIDE COUNTY WATER DISTRICT**

**APPLICANT:
MARK STOLOSKI & ROBERT
GONZALEZ**

By: _____
President, Board of Directors

By: _____
Mark Stoloski, Owner

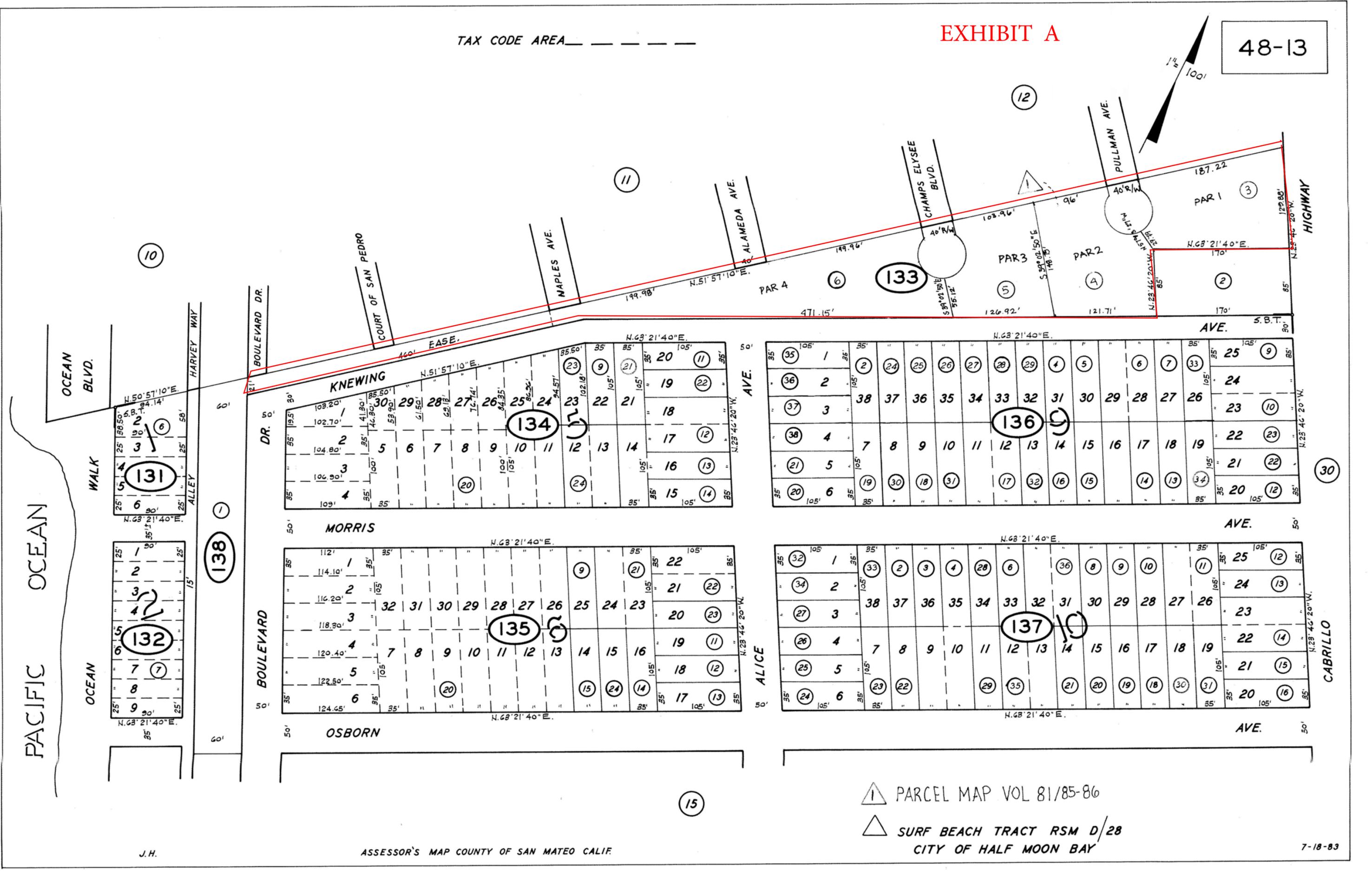
By: _____
Secretary

By: _____
Robert Gonzalez, Owner

TAX CODE AREA _____

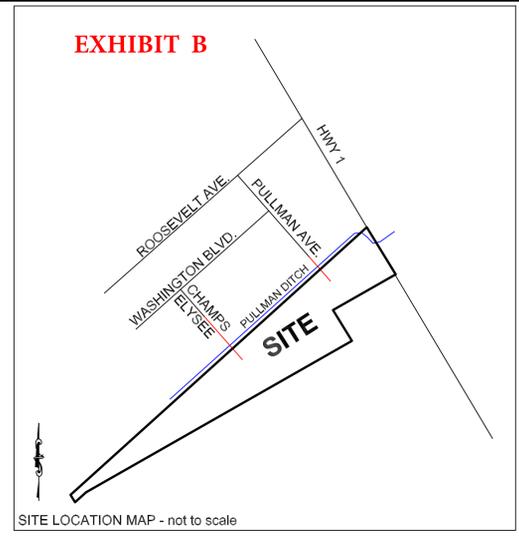
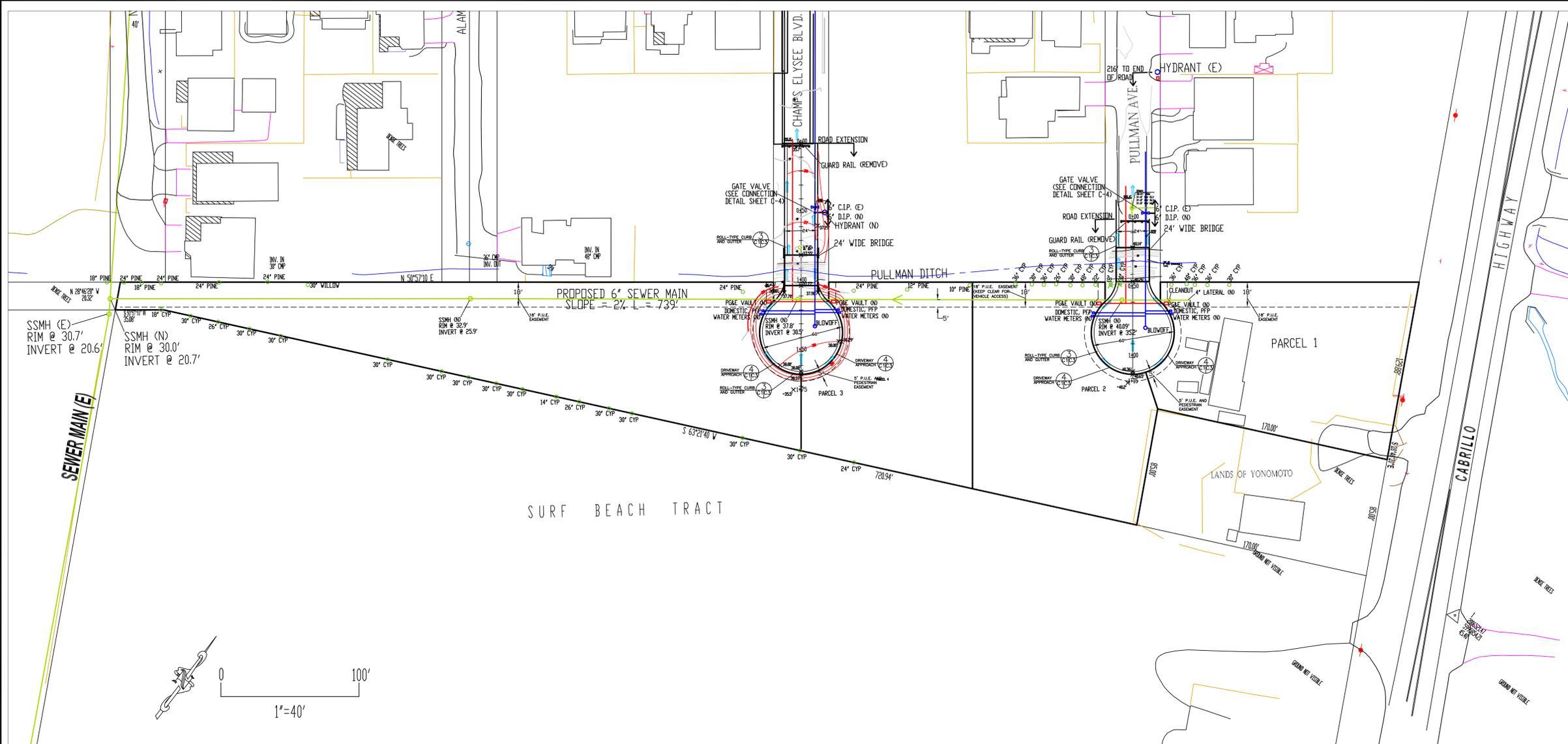
EXHIBIT A

48-13



▲ PARCEL MAP VOL 81/85-86

▲ SURF BEACH TRACT RSM D/28
CITY OF HALF MOON BAY



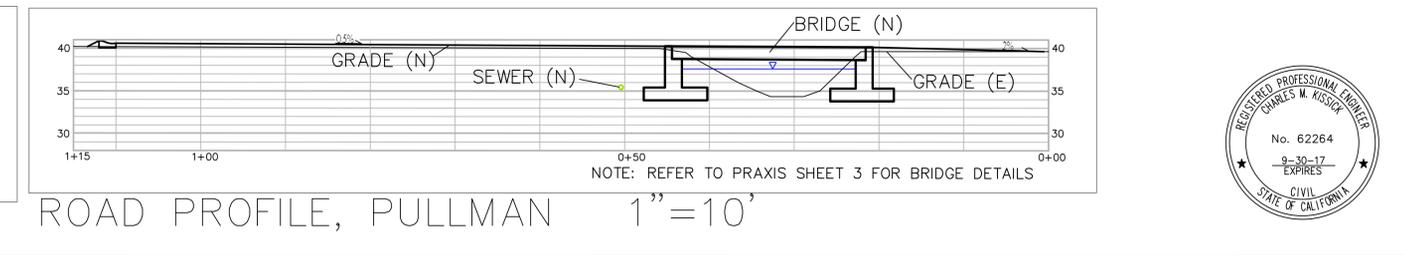
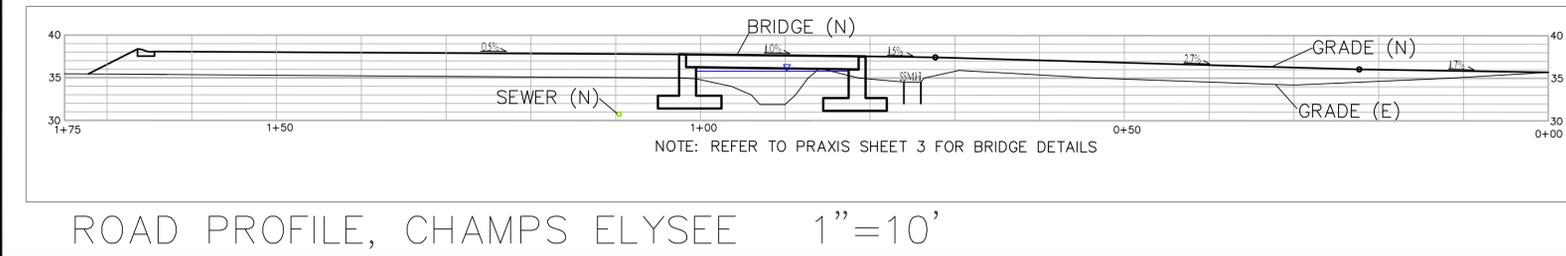
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- CHAMPS ELYSEE BLVD: 100 CY
 - PULLMAN AVENUE: 70 CY
 - TOTAL = 170 CY
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 - REMOVE ALL EXISTING TREES AND BRUSH WITHIN THE P.U.E., EXCEPT FOR TREES SHOWN ON THIS SHEET.

- ### SEWER NOTES
- NEW SEWER MAIN SHALL BE 6-INCH DIAMETER SDR-26 PVC.
 - LATERAL CONNECTIONS TO SEWER MAIN FOR PARCELS 2, 3, AND 4 SHALL BE MADE USING FITTINGS (6"x4") ON THE SEWER MAIN PER STANDARD DETAILS 14. LOCATIONS OF CONSTRUCTED CONNECTIONS FOR PARCELS 2, 3, AND 4 SHALL BE SHOWN ON THE AS-BUILT DRAWINGS SUBMITTED TO THE DISTRICT.
 - ALL WORK SHALL FOLLOW GRANADA SANITARY DISTRICT STANDARD SPECIFICATIONS AND DETAILS FOR DESIGN AND CONSTRUCTION OF SANITARY SEWER COLLECTION AND CONVEYANCE FACILITIES. FEBRUARY 2003. THE STANDARD DETAILS THAT APPLY TO THIS SEWER MAIN INSTALLATION ARE AS FOLLOWS:
 - DETAIL STANDARD 1: MANHOLE FRAME AND COVER
 - DETAIL STANDARD 3: STANDARD MANHOLE
 - DETAIL STANDARD 4: MANHOLE STEP
 - DETAIL STANDARD 6: STANDARD BACKFILL
 - DETAIL STANDARD 10: TYPICAL LATERAL SERVICE CLEANOUT
 - DETAIL STANDARD 14: LATERAL CONNECTION
 - SEWER DETAILS ARE SHOWN ON PLAN SHEET 6.
 - CONTACT UNDERGROUND SERVICE ALERT (USA) 800-227-2600 OR 811 AT LEAST 48 HOURS PRIOR TO ANY UNDERGROUND ACTIVITIES.



2-29-16	IN RESPONSE TO COMMENTS IN EMAIL DATED 2-24-16.	CMK	AZG	CMK	DATE 2-10-16	SUBMITTED	DATE	APPROVED	DATE
					CMK	DESIGNED			
					DATE 2-10-16	SUBMITTED	DATE	APPROVED	DATE
					CMK	DELINATED			
					DATE 2-10-16	APPROVED	DATE	APPROVED	DATE
					AZG	CHECKED			
					DATE	SYMBOL	REVISIONS	BY	CHECKED

HALF MOON BAY

ENGINEERING DIVISION CALIFORNIA

FILE NO.: 10-119

SCALE: AS SHOWN

CAD FILE: C1 C2 C3 IMPROVEMENT PLANS

REGISTERED PROFESSIONAL ENGINEER

CHARLES W. KESSIA

No. 62264

9-30-17 EXPIRES

CIVIL STATE OF CALIFORNIA

IMPROVEMENT PLAN

STOLOSKI PROPERTY

CABRILLO HIGHWAY

HALF MOON BAY

APN 048-133-010

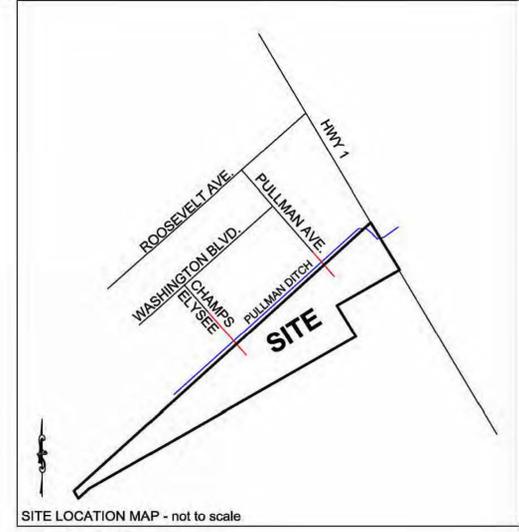
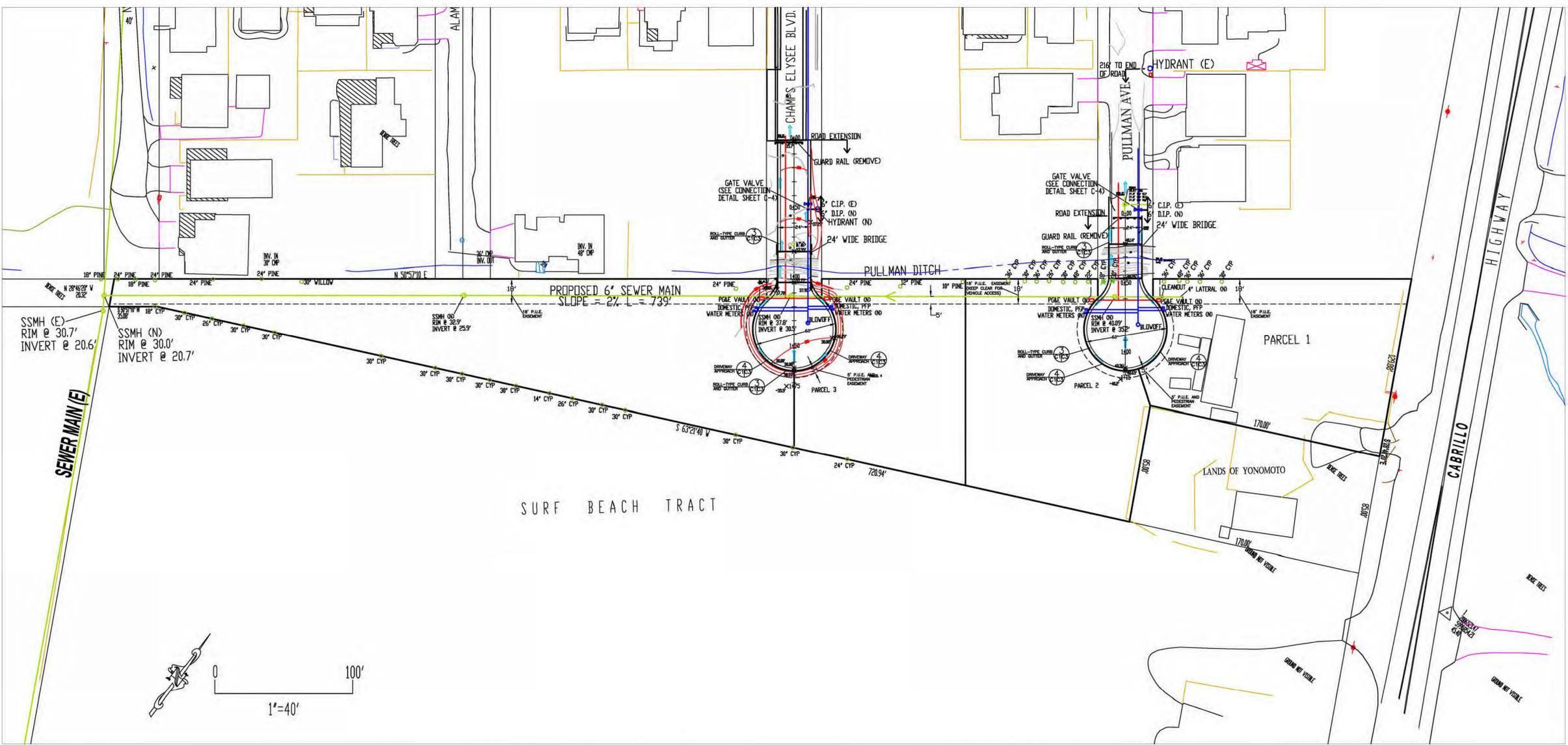
SHEET NO.

1

OF

6

SHEETS



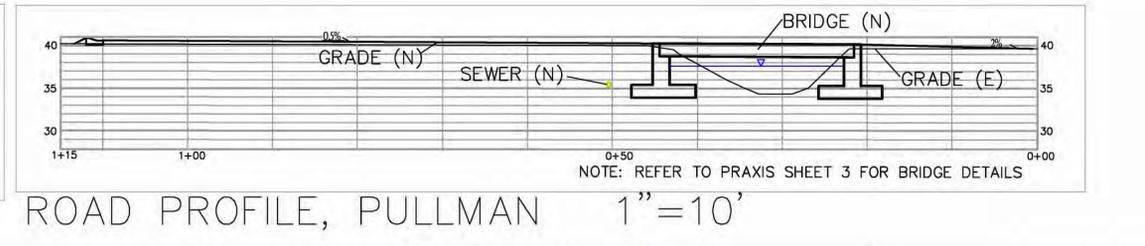
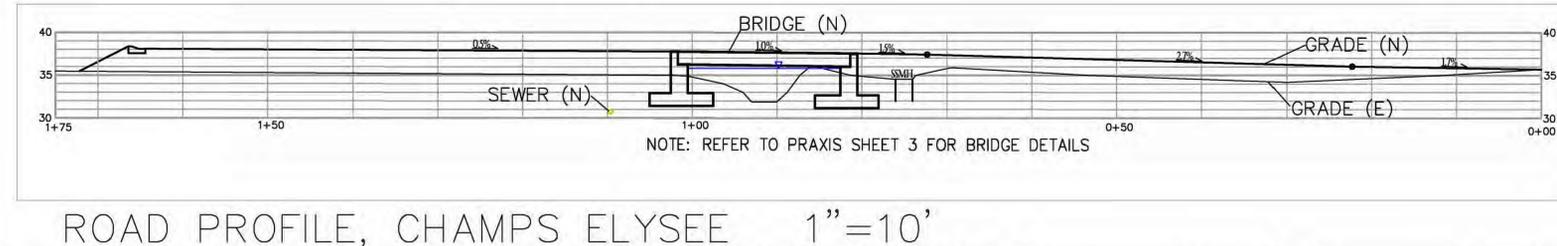
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- ### SEWER NOTES
- NEW SEWER MAIN SHALL BE 6-INCH DIAMETER SDR-26 PVC.
 - LATERAL CONNECTIONS TO SEWER MAIN FOR PARCELS 2, 3, AND 4 SHALL BE MADE USING FITTINGS (6"x4") ON THE SEWER MAIN PER STANDARD DETAILS 14. LOCATIONS OF CONSTRUCTED CONNECTIONS FOR PARCELS 2, 3, AND 4 SHALL BE SHOWN ON THE AS-BUILT DRAWINGS SUBMITTED TO THE DISTRICT.
 - ALL WORK SHALL FOLLOW GRANADA SANITARY DISTRICT STANDARD SPECIFICATIONS AND DETAILS FOR DESIGN AND CONSTRUCTION OF SANITARY SEWER COLLECTION AND CONVEYANCE FACILITIES, FEBRUARY 2003. THE STANDARD DETAILS THAT APPLY TO THIS SEWER MAIN INSTALLATION ARE AS FOLLOWS:
 - DETAIL STANDARD 1: MANHOLE FRAME AND COVER
 - DETAIL STANDARD 3: STANDARD MANHOLE
 - DETAIL STANDARD 4: MANHOLE STEP
 - DETAIL STANDARD 6: STANDARD BACKFILL
 - DETAIL STANDARD 10: TYPICAL LATERAL SERVICE CLEANOUT
 - DETAIL STANDARD 14: LATERAL CONNECTION
 - SEWER DETAILS ARE SHOWN ON PLAN SHEET 6.
 - CONTACT UNDERGROUND SERVICE ALERT (USA) 800-227-2600 OR 811 AT LEAST 48 HOURS PRIOR TO ANY UNDERGROUND ACTIVITIES.



2-29-16	IN RESPONSE TO COMMENTS IN EMAIL DATED 2-24-16.	CMK	AZG	CMK	DATE 2-10-16	SUBMITTED	DATE	APPROVED	DATE
					CMK	DESIGNED			
					DATE 2-10-16	PROJECT ENGINEER	DATE	APPROVED	DATE
					CMK	SUBMITTED			
					DATE 2-10-16	PROJECT ENGINEER	DATE	APPROVED	DATE
					AZG	DELINEATED			
					DATE 2-10-16	APPROVED	DATE	APPROVED	DATE
DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED			

HALF MOON BAY

ENGINEERING DIVISION CALIFORNIA

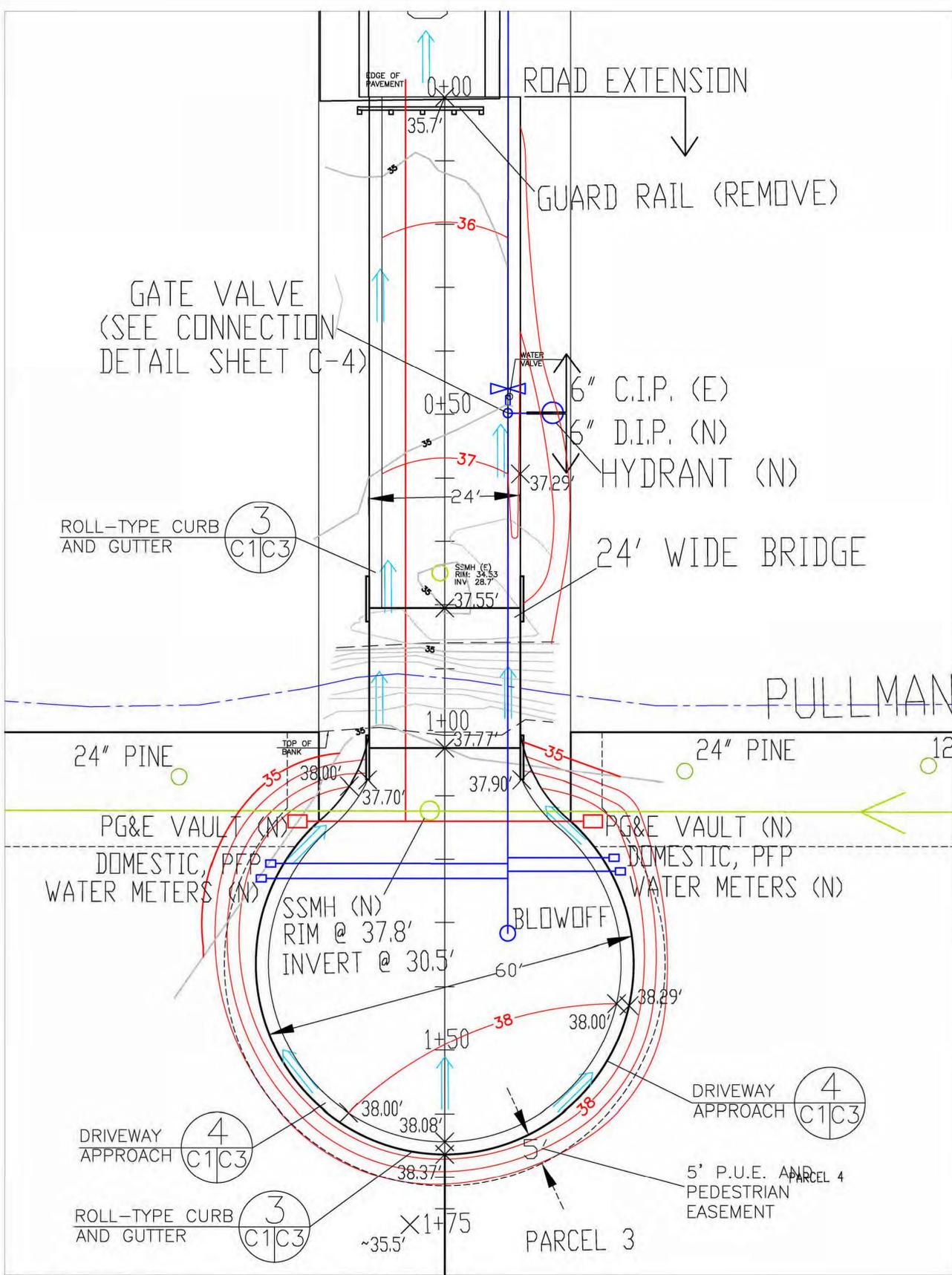
FILE NO.: 10-119 SCALE: AS SHOWN CAD FILE: C1 C2 C3 IMPROVEMENT PLANS

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 HALF MOON BAY, CA 94019
 (650) 728-3590
 FAX 728-3593

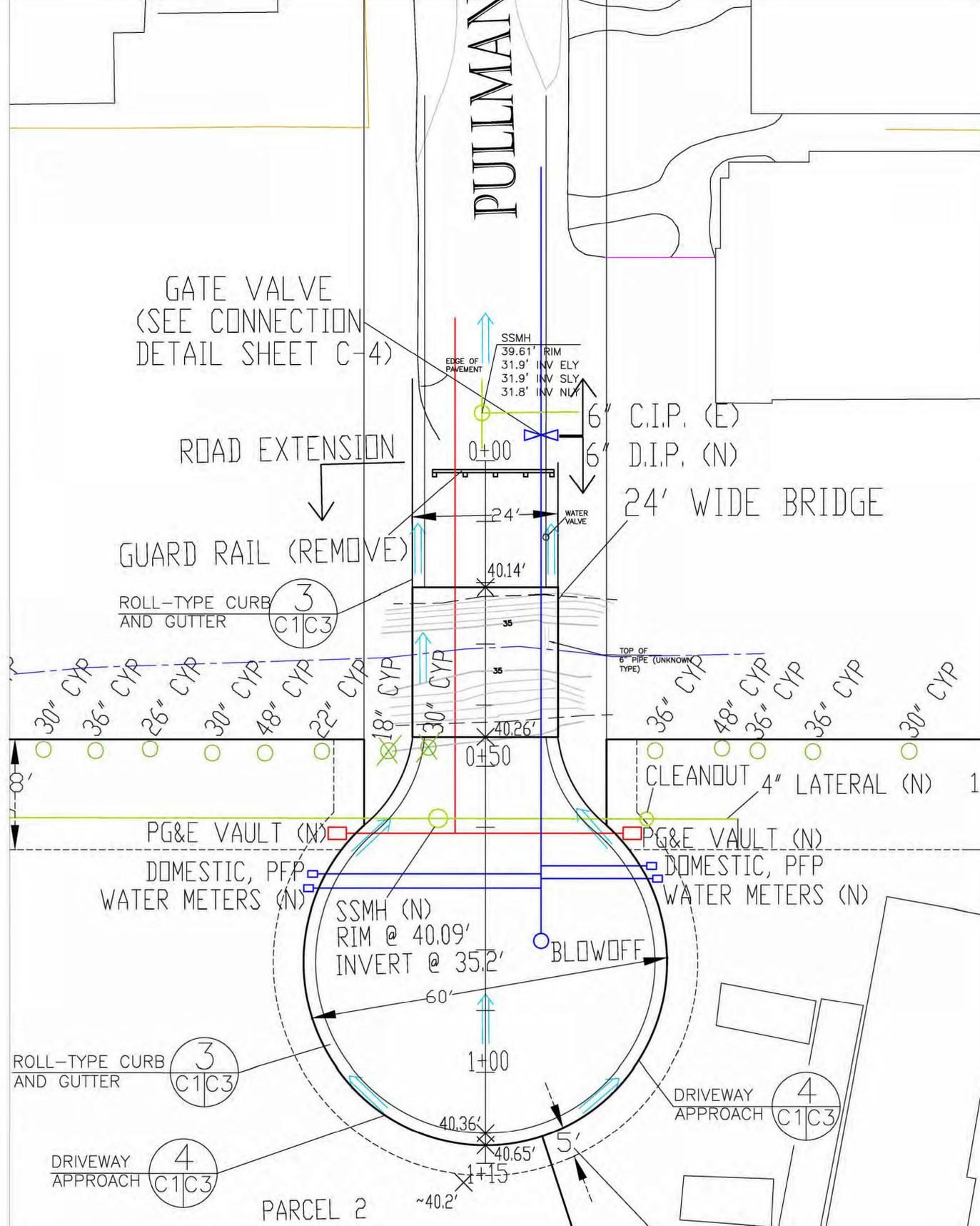
IMPROVEMENT PLAN
 STOLOSKI PROPERTY
 CABRILLO HIGHWAY
 HALF MOON BAY
 APN 048-133-010

REGISTERED PROFESSIONAL ENGINEER
 CHARLES M. KISSICK
 No. 62264
 9-30-17
 EXPIRES
 CIVIL
 STATE OF CALIFORNIA

SHEET NO. **1**
 OF **6**
 SHEETS



PROPOSED CHAMPS ELYSEE BRIDGE 1"=10'



PROPOSED PULLMAN BRIDGE 1"=10'



2-29-16		IN RESPONSE TO COMMENTS IN EMAIL DATED 2-24-16.			CMK	AZG	CMK	DATE 2-10-16	SUBMITTED	DATE	APPROVED	DATE
					CMK			DESIGNED	PROJECT ENGINEER	DATE	APPROVED	DATE
					CMK			DATE 2-10-16	SUBMITTED	DATE	APPROVED	DATE
					CMK			DELINEATED	PROJECT ENGINEER	DATE	APPROVED	DATE
					AZG			DATE 2-10-16	APPROVED	DATE	APPROVED	DATE
DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED							

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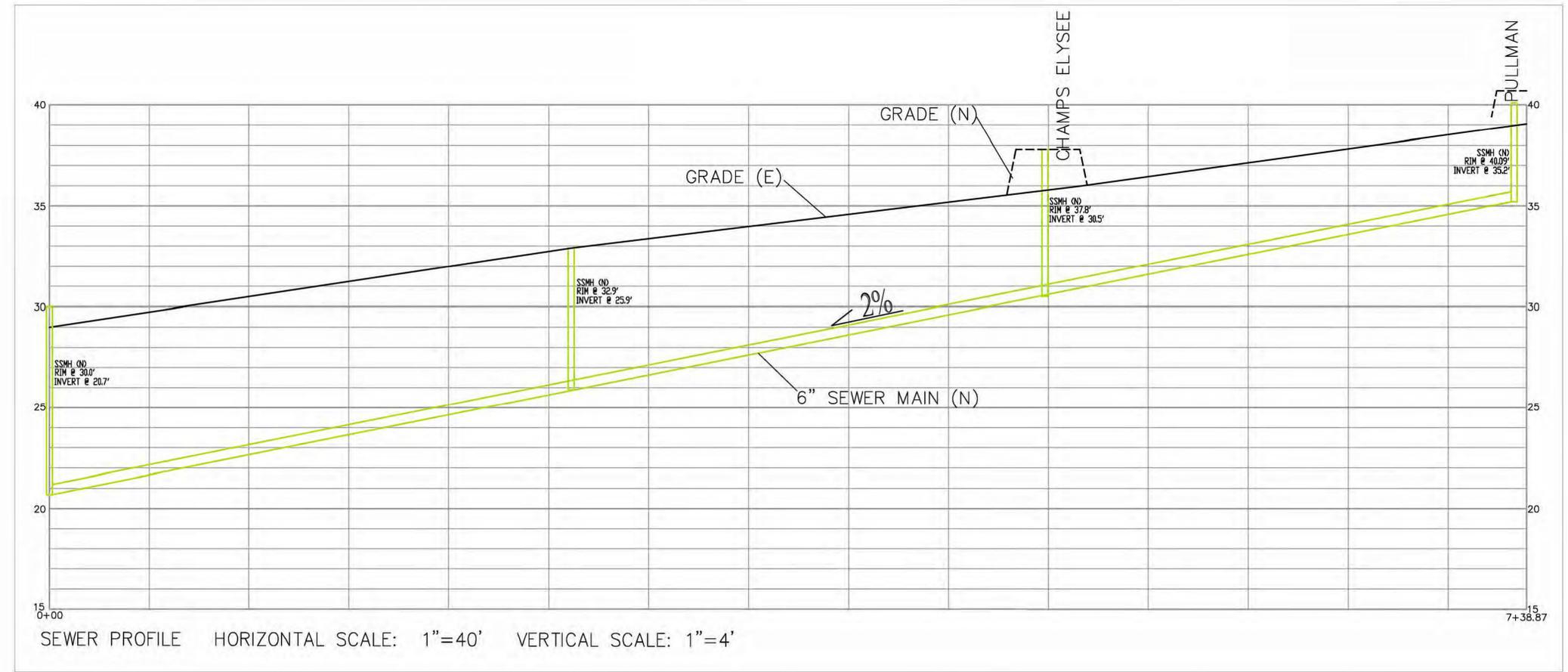
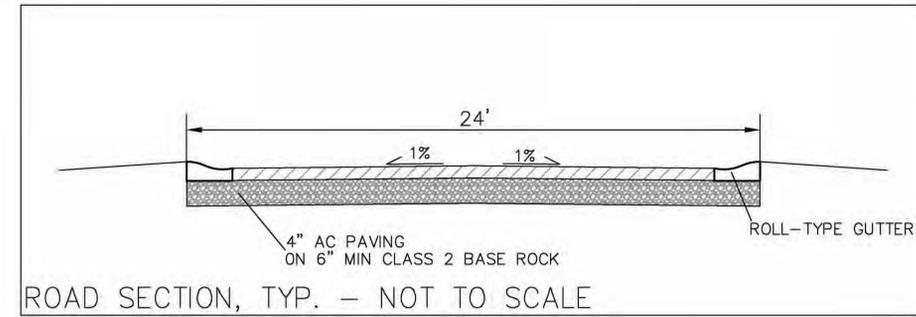
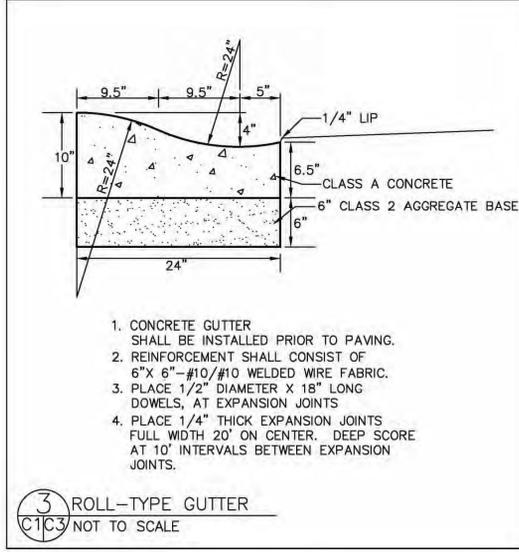
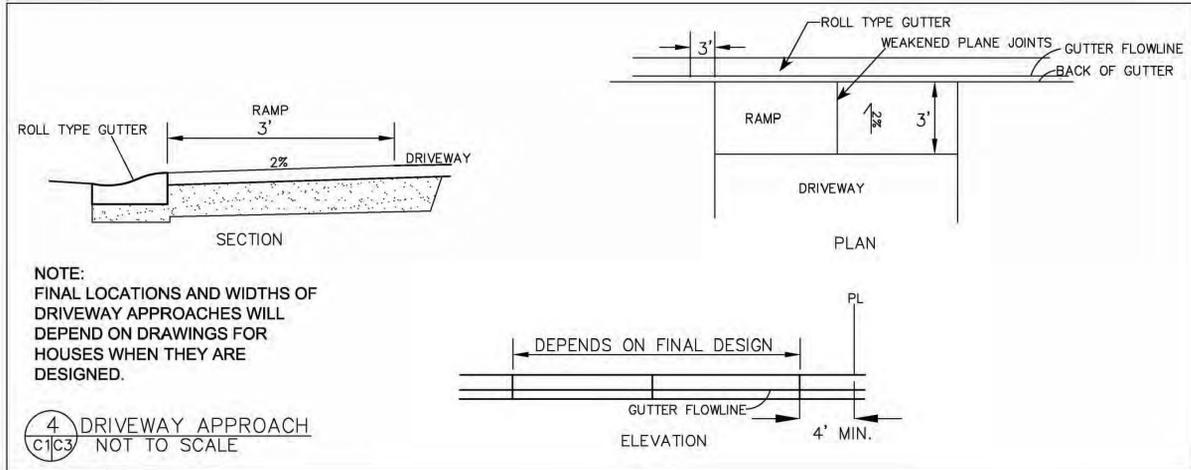
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BRIDGE CROSSINGS

STOLOSKI PROPERTY
CABRILLO HIGHWAY
HALF MOON BAY
APN 048-133-010

SHEET NO. **2** OF **6** SHEETS



2-29-16	IN RESPONSE TO COMMENTS IN EMAIL DATED 2-24-16.	CMK	AZG	CMK	DATE 2-18-16	SUBMITTED	DATE	APPROVED	DATE
					CMK	DESIGNED	PROJECT ENGINEER	DATE	APPROVED
					DATE 2-18-16	SUBMITTED	DATE	APPROVED	DATE
					CMK	DELINEATED	PROJECT ENGINEER	DATE	APPROVED
					DATE 2-18-16	APPROVED	DATE	APPROVED	DATE
					AZG	CHECKED	BRIAN LEE - CITY ENGINEER		

HALF MOON BAY

ENGINEERING DIVISION
CALIFORNIA

FILE NO.: 10-119 SCALE: AS SHOWN CAD FILE: C1 C2 C3 IMPROVEMENT PLANS

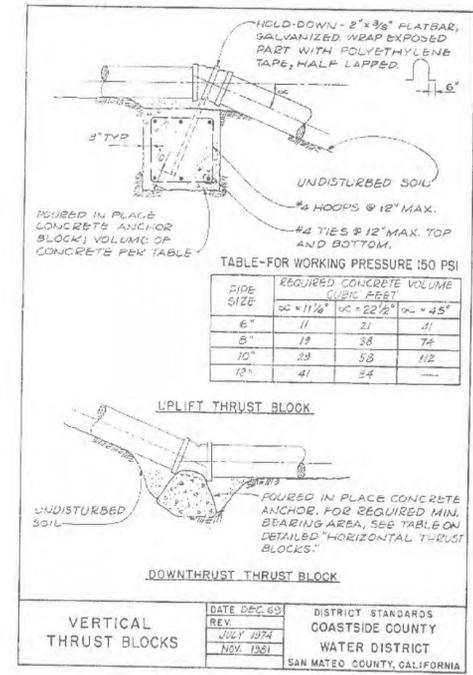
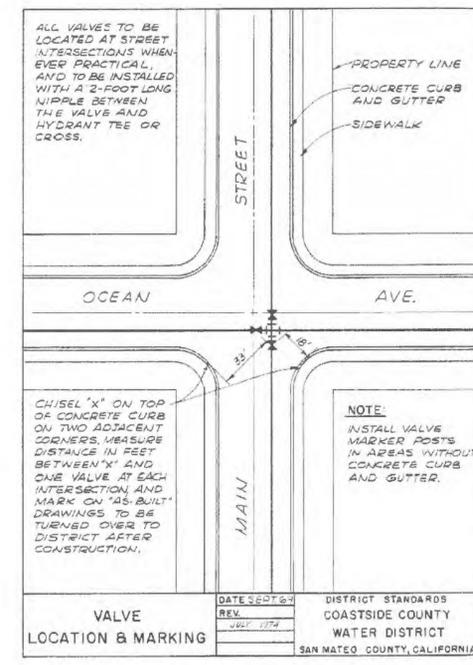
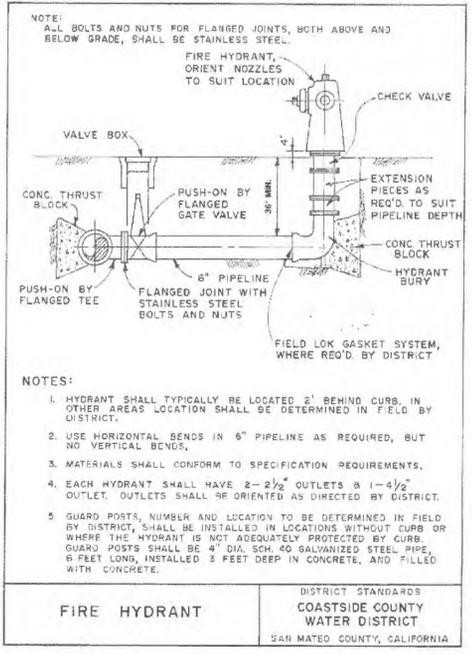
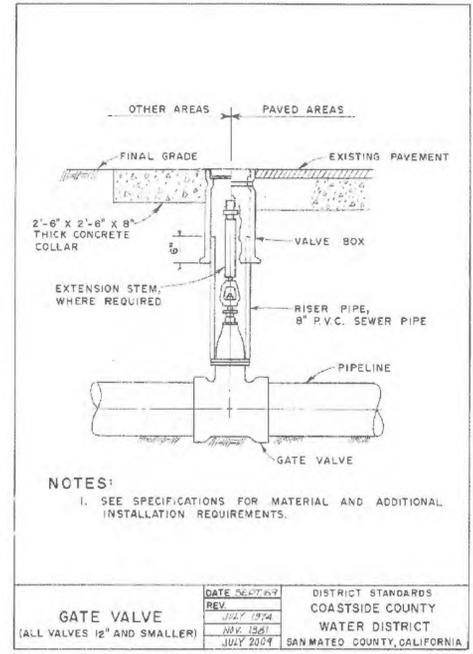
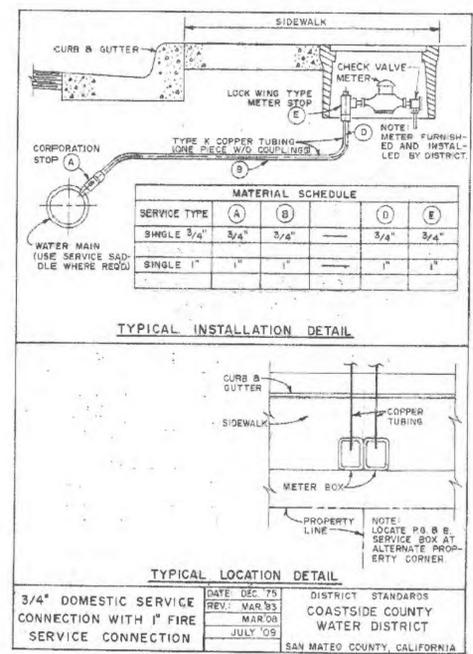
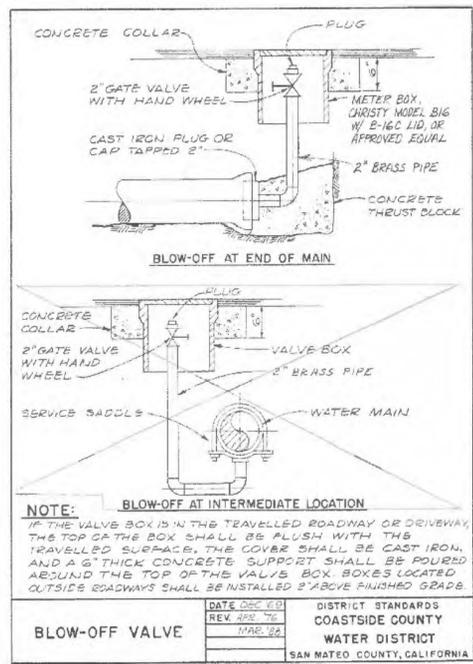
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**ROAD DETAILS,
SEWER PROFILE**

STOLOSKI PROPERTY
CABRILLO HIGHWAY
HALF MOON BAY
APN 048-133-010

SHEET NO. **3** OF **6** SHEETS



2-28-16	IN RESPONSE TO COMMENTS IN EMAIL DATED 2-24-16.	CMK	AZG	CMK	DATE 2-18-16	SUBMITTED	DATE	APPROVED	DATE
					DATE 2-18-16	SUBMITTED	DATE	APPROVED	DATE
					DATE 2-18-16	APPROVED	DATE	APPROVED	DATE

HALF MOON BAY

ENGINEERING DIVISION
CALIFORNIA

FILE NO.: 10-119 SCALE: AS SHOWN CAD FILE: C4 WATER DETAILS

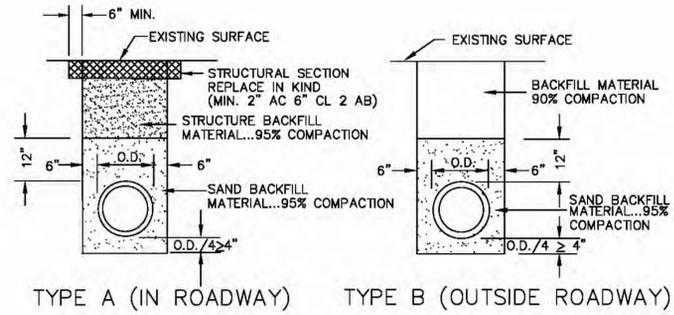
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WATER DETAILS

STOLOSKI PROPERTY
CABRILLO HIGHWAY
HALF MOON BAY
APN 048-133-010

SHEET NO. **4** OF **6** SHEETS



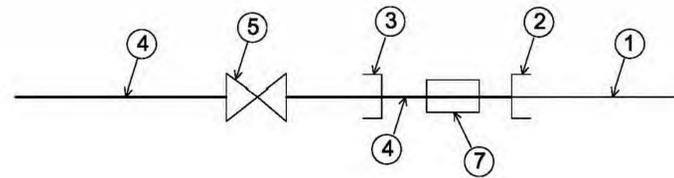
TYPE A (IN ROADWAY) TYPE B (OUTSIDE ROADWAY)

- NOTES:
- SAND... MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEVE
No. 4	100
No. 200	0-5
 - STRUCTURE BACKFILL MATERIAL... MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

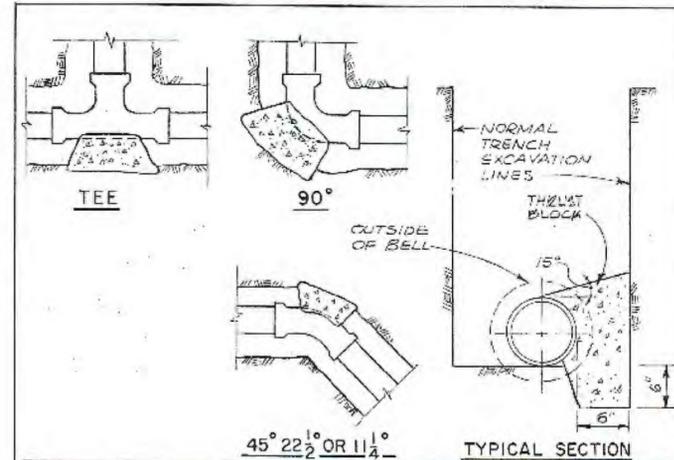
SIEVE SIZE	% PASSING SIEVE
3"	100
No. 4	35-100
No. 30	20-100
 - BACKFILL MATERIAL... MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.

STANDARD TRENCH BACKFILL AND BEDDING DETAIL FOR D.I.P. WATER PIPE



- EXISTING 6" CAST IRON PIPELINE.
- EXISTING CAP OR PLUG AT END OF EXISTING PIPELINE.
- NEW CAP FOR LEAKAGE TESTING AND DISINFECTION.
- NEW 6" DUCTILE IRON PIPE.
- NEW 6" GATE VALVE.
- FOLLOWING COMPLETION OF LEAKAGE TESTING AND DISINFECTION, REMOVE EXISTING CAP/PLUG AND TEMPORARY END CAP, AND CONNECT THE NEW AND EXISTING PIPELINES WITH NEW 6" DUCTILE IRON PIPE AND A MECHANICAL JOINT SLEEVE.
- NEW MECHANICAL JOINT SLEEVE.

CONNECTION DETAIL FOR NEW AND EXISTING PIPELINES



MINIMUM REQUIRED BEARING AREA AGAINST UNDISTURBED EARTH WALL

PIPE SIZE	AREA IN SQUARE FEET AT FITTINGS				
	TEE & CROSS	90°	45°	22 1/2°	11 1/4°
6	3	5	3	2	2
8	6	8	4	2	2
10	8	11	6	3	2
12	11	15	8	4	2
16	18	25	14	7	4

- NOTES:
- THRUST BLOCKS SHALL BE PLAIN CONCRETE POURED AGAINST UNDISTURBED EARTH.
 - CAPS AND PLUGS SHALL HAVE THRUST BLOCKS WITH AREAS AS SPECIFIED FOR CAPS, PLUGS, FLANGES, AND MECHANICAL JOINTS SHALL BE COVERED WITH 2 MILS OF POLYETHYLENE BEFORE THRUST BLOCKS ARE POURED.
 - AREA IS IN A FLANGE AT RIGHT ANGLES TO THE LINE OF PIPE/FLANGE THRUST.
 - THRUST BLOCKS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING VALUE OF 3000 LB/S.F. AND 200 P.S.I.G. TEST PRESSURE. AREAS SHALL BE INCREASED FOR SOILS WITH LOWER BEARING VALUES OR FOR HIGHER TEST PRESSURE.

HORIZONTAL THRUST BLOCKS

DATE SEPT 69
REV. APR. 72
DISTRICT STANDARDS
COASTSIDE COUNTY
WATER DISTRICT
SAN MATEO COUNTY, CALIFORNIA



DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED
2-28-18	▲	IN RESPONSE TO COMMENTS IN EMAIL DATED 2-24-18.	CMK	AZG	CMK	

DATE	DESIGNED	DATE	APPROVED
2-10-18	PROJECT ENGINEER		
	CMK		
2-10-18	PROJECT ENGINEER		
	AZG		

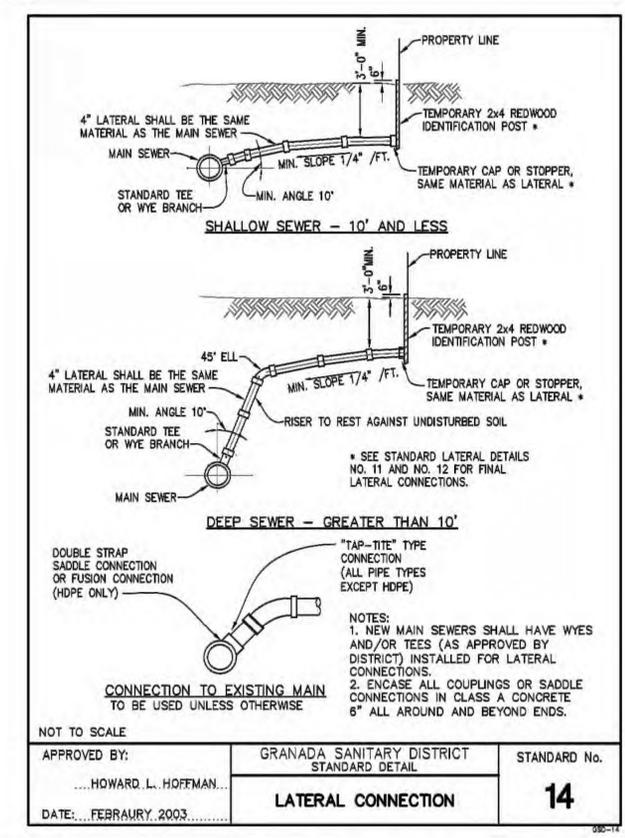
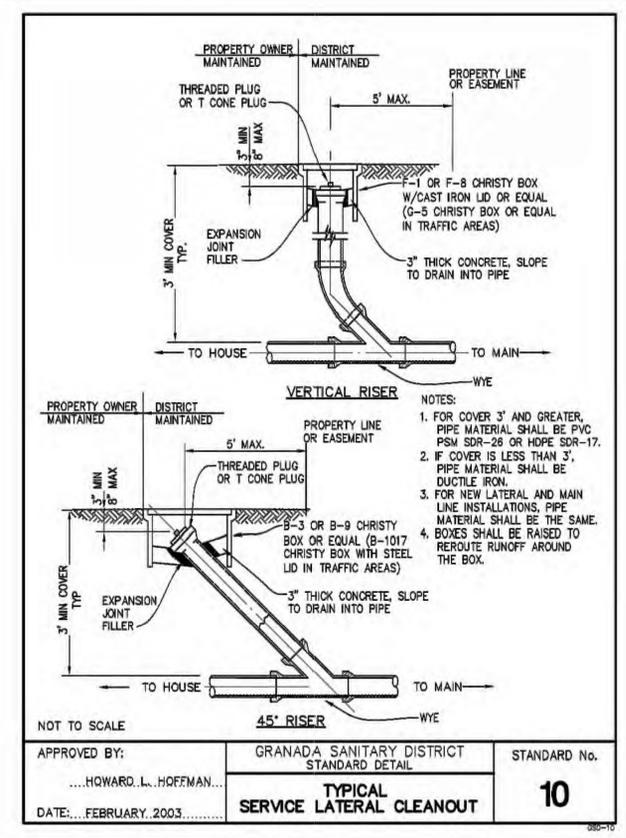
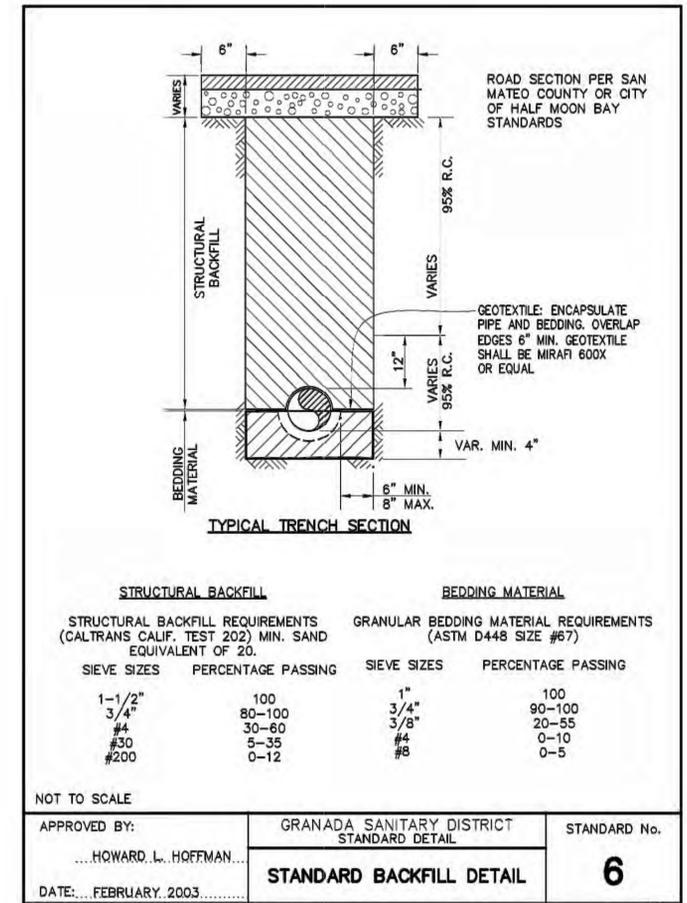
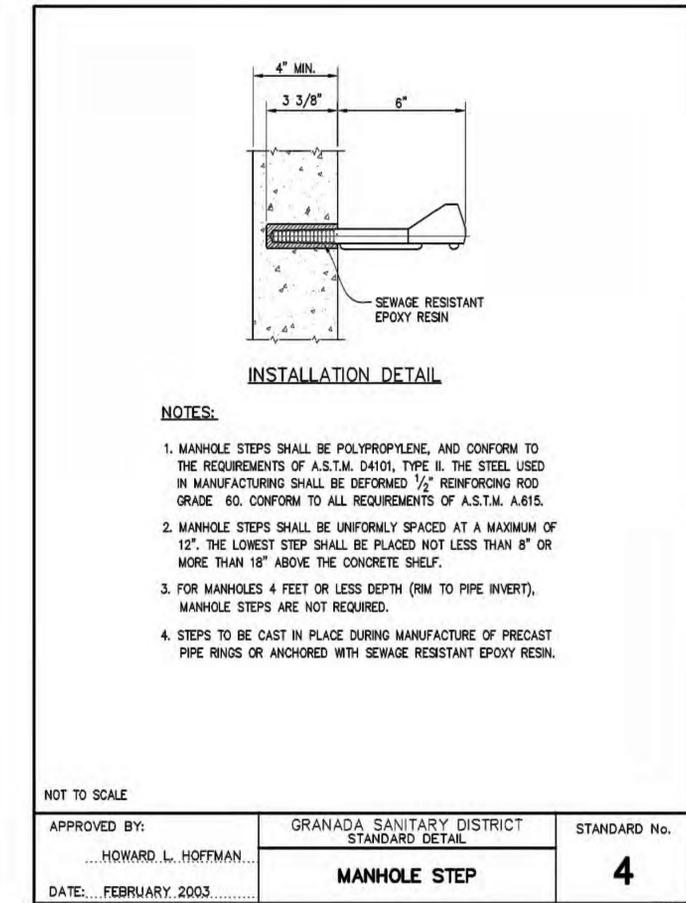
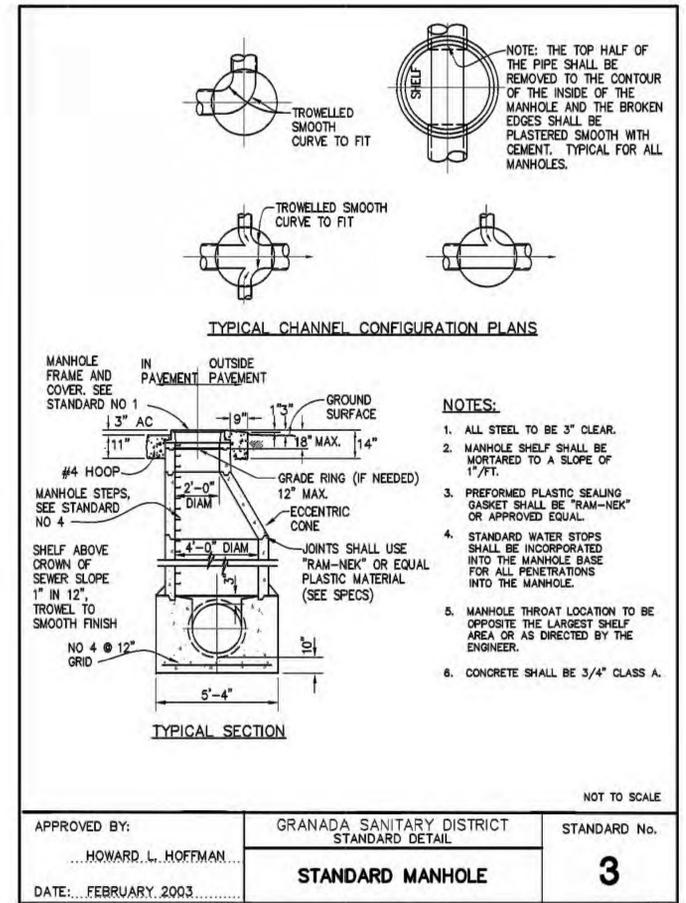
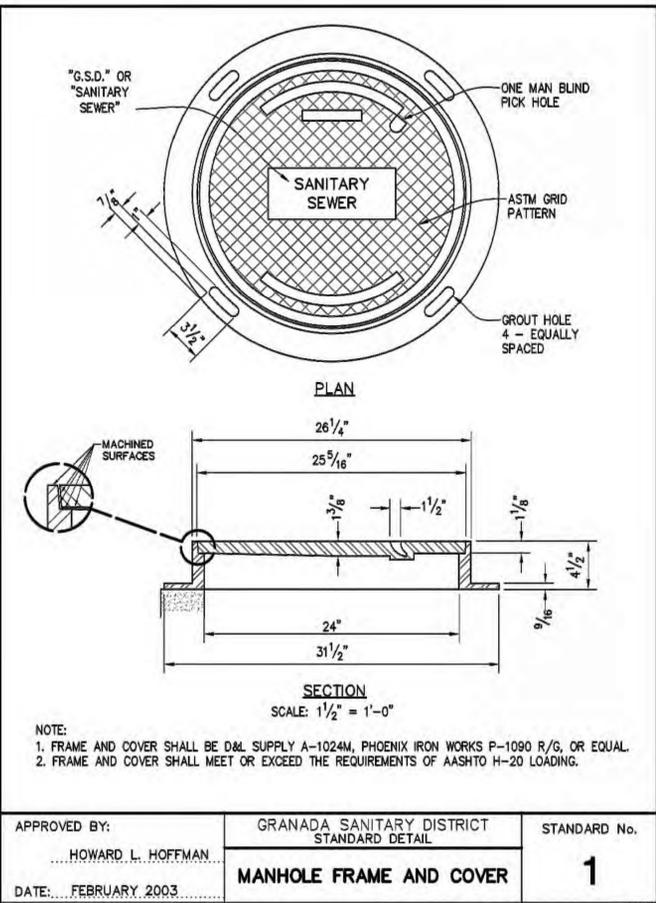
BRIAN LEE - CITY ENGINEER

HALF MOON BAY
ENGINEERING DIVISION
CALIFORNIA

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WATER DETAILS
STOLOSKI PROPERTY
CABRILLO HIGHWAY
HALF MOON BAY
APN 048-133-010

SHEET NO.
5
OF
6
SHEETS



DATE	SYMBOL	REVISIONS	BY	CHECKED	APPROVED	CHECKED
2-28-16	▲	IN RESPONSE TO COMMENTS IN EMAIL DATED 2-24-16.	CMK	AZG	CMK	

DATE	2-28-16	DATE	DATE	DATE	DATE
DESIGNED	PROJECT ENGINEER	DATE	DATE	DATE	DATE
CMK	PROJECT ENGINEER	DATE	DATE	DATE	DATE
DELINEATED	PROJECT ENGINEER	DATE	DATE	DATE	DATE
AZG	PROJECT ENGINEER	DATE	DATE	DATE	DATE

DATE: 2-28-16 SUBMITTED DATE: APPROVED DATE: APPROVED DATE: APPROVED DATE: APPROVED DATE: APPROVED

BRIAN LEE - CITY ENGINEER

HALF MOON BAY

ENGINEERING DIVISION
 CALIFORNIA

FILE NO.: 10-119 SCALE: AS SHOWN CAD FILE: C1 C2 C3 IMPROVEMENT PLANS

Sewer Details

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STOLOSKI PROPERTY
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 APN 048-133-010

SHEET NO. 6 OF 6 SHEETS

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ABBREVIATIONS

ABUT. ACI ADD. ADJ. AGGR. AISC AISI ALT. ANSI APPROX. ASCE ASPH. ASTM AVG. AWS BM. BP BS BOT. BRG. CF CJ CJP CL CLR. CONC. COORD. CONN. CONT. CSK. CTR. CY db DBL. DET. DIA. DKG. DWL. DWLS. E EA. EF EJ EMBED. ENGR. EQUIP. ES ESR FF FS FT. FTG. GA. GALV. GC HGT. HORIZ. ID IN. JT(S). K LB(S). L LG. LGTH. LHE LLV LONGIT. MATL. MAX. MECH. MFR. MIN. MISC. MIX. MULT. N NF NS NTS NWC	ABUTMENT AMERICAN CONCRETE INSTITUTE ADDITIONAL ADJACENT AGGREGATE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE ALTERNATE AMERICAN NATIONAL STANDARDS INSTITUTE APPROXIMATE AMERICAN SOCIETY OF CIVIL ENGINEERS ASPHALT AMERICAN SOCIETY FOR TESTING AND MATERIALS AVERAGE AMERICAN WELDING SOCIETY BEAM BASE PLATE BOTH SIDES BOTTOM BEARING CUBIC FOOT CONTROL OR CONSTRUCTION JOINT COMPLETE JOINT PENETRATION CENTER LINE CLEAR CONCRETE COORDINATE CONNECTION CONTINUOUS COUNTERSINK CENTER CUBIC YARD BAR DIAMETER DOUBLE DETAIL DIAMETER DECKING DOWEL DOWELS EAST EACH EACH FACE EXPANSION JOINT EMBEDMENT ENGINEER EQUAL EQUIPMENT EACH SIDE EVALUATION SERVICE REPORT FAR FACE FAR SIDE FEET OR FOOT FOOTING GAGE OR GAUGE GALVANIZE OR GALVANIZED GENERAL CONTRACTOR HEIGHT HORIZONTAL INSIDE DIAMETER INCHES JOINT(S) KIP (1,000 LBS.) POUND(S) ANGLE LONG LENGTH LOW HYDROGEN ELECTRODE LONG LEG VERTICAL LONGITUDINAL MATERIAL MAXIMUM MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MIXTURE MULTIPLE NORTH NEAR FACE NEAR SIDE NOT TO SCALE NORMAL WEIGHT CONCRETE	OC OD OF PCF PL. PLF PSF PSI QTY. REINF. REV. REQD. S SECT. SIM. SP. SPECS. STAGG. STD. STIR. STL. STRUCT. SYMM. T&B THK. THRU TRANS. TYP. UNO VERT. VIF W W/ W/O WP WT.	ON CENTER OUTSIDE DIAMETER OUTSIDE FACE POUNDS PER CUBIC FOOT PLATE POUNDS PER LINEAR FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH QUANTITY REINFORCE, REINFORCEMENT OR REINFORCING REVISE OR REVISION REQUIRED SOUTH SECTION SIMILAR SPIRAL SPECIFICATIONS STAGGERED STANDARD STIRRUP STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM THICK THROUGH TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL VERIFY IN THE FIELD WEST WITH WITHOUT WORK POINT WEIGHT
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SYMBOL LEGEND

FOR ADDITIONAL SYMBOLS SEE THE FOLLOWING:

WELDING	AWS
STEEL	AISC SYMBOLS
CONCRETE	ACI SYMBOLS

SYMBOLS AND ABBREVIATIONS FOR CONCRETE (as per ACI)

#	TO INDICATE SIZE OF DEFORMED BAR.	
Ø	PLAIN ROUNDS, AS SPIRALS	
AT	SPACING CENTER TO CENTER	

DRAWING LIST

1	STRUCTURAL COVER SHEET AND GENERAL NOTES
2	STRUCTURAL GENERAL NOTES
3	BRIDGE PLANS AND PROFILES
4	BRIDGE FOUNDATION PLANS
5	BRIDGE AND ABUTMENT DETAILS
6	TYPICAL DETAILS

GENERAL NOTES

- A. GENERAL**
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
 - DO NOT SCALE THE DRAWINGS.
 - NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND THE TYPICAL DETAILS.
 - ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: THE 2012 (SIXTH EDITION) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH CALIFORNIA AMENDMENTS (AASHTO-CA BDS-6), CALTRANS STANDARD SPECIFICATIONS 2010, AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS.
 - SEE THE CIVIL ENGINEER'S DRAWINGS FOR THE FOLLOWING:
 - SIZES AND LOCATIONS OF CONCRETE CURBS, SLOPES, CHANGES IN LEVEL, ETC.
 - DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
 - THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
 - NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.
 - ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS PROJECT.
 - CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTH WORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
 - SHOP DRAWINGS SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW SHALL CONSIST OF 2 BOND SETS. ONLY ONE COPY WILL BE RETURNED.
 - CIVIL ENGINEER'S/STRUCTURAL ENGINEER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM THE CONTRACT DOCUMENTS.
 - DESIGN LIVE LOADS: 250 PSF SIDEWALKS AND VEHICULAR DRIVEWAYS SUBJECT TO TRUCK LOADING
H-20 AND HS-20 AXEL TRUCK LOADING
 - SEISMIC DESIGN CRITERIA:
SPECTRAL RESPONSE ACCELERATIONS: $S_s = 1.361$
 $S_1 = 0.537$
SPECTRAL RESPONSE COEFFICIENTS: $S_{s1} = 0.907$
 $S_{s2} = 0.537$
SITE CLASS: D
SEISMIC DESIGN CATEGORY: D
- B. FOUNDATION**
- FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY: SIGMA PRIME GEOSCIENCES, INC.
PROJECT 10-119
DATED MARCH 3, 2015

COPIES ARE AVAILABLE FOR REVIEW AT THE CITY ENGINEER'S OFFICE.
 - SPREAD FOOTINGS FOR ABUTMENTS ARE DESIGNED BASED ON AN ALLOWABLE SOIL PRESSURE OF 1500 PSF WITH AN ALLOWABLE INCREASE OF ONE-THIRD FOR LOADS OF SHORT DURATION, INCLUDING WIND AND SEISMIC FORCES.
 - CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.
 - CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS AND ANY EXISTING STRUCTURE.
 - EXCAVATIONS FOR FOOTINGS SHALL MEET THE REQUIREMENTS OF SECTION 19 OF THE CALTRANS STANDARD SPECIFICATIONS. EXCAVATION INSPECTIONS SHALL BE IN ACCORDANCE WITH THE CITY OF HALF MOON BAY'S QUALITY ASSURANCE PROGRAM (QAP). THE GEOTECHNICAL ENGINEER AND PROJECT INSPECTOR SHALL APPROVE EXCAVATIONS FOR FOOTINGS PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT AT LETTER OF COMPLIANCE TO THE OWNER.
 - ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PITWALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING SLABS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
 - FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE GEOTECHNICAL ENGINEER, FOOTING ELEVATIONS OR FOOTING DESIGNS WILL BE ALTERED.
 - FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE STRUCTURE PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE CITY ENGINEER. FLOODING WILL NOT BE PERMITTED.
 - ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED.
- C. CONCRETE**
- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE 2012 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH CALIFORNIA AMENDMENTS (AASHTO-CA BDS-6), THE 2010 CALTRANS STANDARD SPECIFICATIONS, THE 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE', ACI 318, AND THE 'SPECIFICATIONS FOR STRUCTURAL CONCRETE', ACI 301, LATEST EDITIONS, WITH MODIFICATIONS AS NOTED ON THE DESIGN DRAWINGS OR SPECIFICATIONS.
 - REINFORCED CONCRETE DESIGN IS BY THE ULTIMATE STRENGTH DESIGN METHOD.
 - ALL MIX DESIGNS SHALL BE PREPARED BY A QUALIFIED CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND BEAR HIS WET SEAL AND SIGNATURE. THE DESIGNS FOR EACH TYPE OF CONCRETE STRENGTH SPECIFIED SHALL STATE THE PROJECT NAME AND LOCATION OF USAGE.
 - SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS & TYPES:

LOCATIONS IN STRUCTURE	STRENGTH, PSI	TYPE
FOOTINGS	4000	HARD ROCK
SLABS	4000	HARD ROCK
WALLS	4000	HARD ROCK
 - PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE V IN CONTACT WITH SOIL AND TYPE II ELSEWHERE.
 - MIX DESIGN SHALL CONTAIN SIKKA AIR-360 AIR ENTRAINING ADMIXTURE (OR EQUIVALENT).
 - CONCRETE MIXES MAY CONTAIN FLY ASH. THE FLY ASH SHALL CONFORM TO ASTM C618 CLASS F AND SHALL NOT EXCEED 15% OF THE TOTAL CEMENTITIOUS MATERIAL.



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HALF MOON BAY BRIDGES

PULLMAN AVENUE AND CHAMPS ELYSEE BOULEVARD

Project

STRUCTURAL COVER SHEET AND GENERAL NOTES

Drawing Title

No.	Date	Description	By

Project No. AE15068	Checked MKH	Date 12/14/2015	
Drawn MME/SMM	Approved MKH	Scale PER PLAN	

Sheet

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GENERAL NOTES

<p>C. CONCRETE (CONT.)</p> <p>8. AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.</p> <p>9. FORMS FOR CONCRETE SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS SHOWN ON THE DRAWINGS.</p> <p>10. NON-SHRINK, NON METALLIC GROUT UNDER BASEPLATES, SILL PLATES, ETC. SHALL HAVE A MINIMUM $F'_{c}=7000$ PSI.</p> <p>11. CONCRETE MIXING OPERATIONS, ETC., SHALL CONFORM TO ASTM C94.</p> <p>12. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS. SANDBLAST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.</p> <p>13. THOROUGHLY CLEAN AND ROUGHEN ALL EXISTING CONCRETE, CONCRETE PREVIOUSLY POURED AND HARDENED TO RECEIVE NEW CONCRETE. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF $\frac{1}{4}$" UNLESS NOTED OTHERWISE.</p> <p>14. CLEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:</p> <table style="margin-left: 40px; border: none;"> <tr> <td style="text-align: right;">MINIMUM COVER,</td> <td></td> </tr> <tr> <td style="text-align: right;">INCHES</td> <td></td> </tr> <tr> <td style="text-align: right;">A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: right;">B. CONCRETE EXPOSED TO EARTH OR WEATHER:</td> <td></td> </tr> <tr> <td style="text-align: right;">NO. 6 THROUGH NO. 18 BAR</td> <td style="text-align: center;">2 UNO</td> </tr> <tr> <td style="text-align: right;">NO. 5 BAR AND SMALLER</td> <td style="text-align: center;">$\frac{1}{2}$ UNO</td> </tr> </table> <p>15. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.</p> <p>16. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB AND WALLS DO NOT REQUIRE SLEEVES, UNLESS OTHERWISE INDICATED IN THE PROJECT SPECIFICATIONS OR CIVIL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.</p> <p>17. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A $\frac{1}{4}$ INCH CHAMFER, UNLESS OTHERWISE NOTED ON CIVIL DRAWINGS.</p> <p>18. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE A RESILIENT TILE FINISH SHALL BE APPROVED BY THE CIVIL ENGINEER BEFORE USE.</p>	MINIMUM COVER,		INCHES		A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3	B. CONCRETE EXPOSED TO EARTH OR WEATHER:		NO. 6 THROUGH NO. 18 BAR	2 UNO	NO. 5 BAR AND SMALLER	$\frac{1}{2}$ UNO	<p>E. STRUCTURAL STEEL</p> <p>1. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE 2012 (SIXTH EDITION) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH CALIFORNIA AMENDMENTS (AASHTO-CA BDS-6), THE 2010 CALTRANS STANDARD SPECIFICATIONS, THE AISC 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS', AND THE 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES' (LATEST EDITION AND SUPPLEMENTS).</p> <p>2. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270 (ASTM A992 GRADE 50), EXCEPT ANGLES, CHANNELS, PLATES AND BARS WHICH SHALL CONFORM TO ASTM DESIGNATION A36, UNLESS NOTED OTHERWISE.</p> <p>3. PIPE COLUMNS SHALL CONFORM TO ASTM DESIGNATION A53 GRADE B. HSS ROUNDS SHALL CONFORM TO ASTM A500 GRADE B WITH $F_y = 42$ KSI. HSS TUBES SHALL CONFORM TO ASTM A500 GRADE B COLD FORMED WITH $F_y = 46$ KSI.</p> <p>4. BOLTS SHALL CONFORM TO AASHTO M164 (ASTM A325N), UNO. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE .36/55/105, UNO.</p> <p>5. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR CIVIL ENGINEER'S AND STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.</p> <p>6. BOLT HOLES IN STEEL SHALL BE $\frac{1}{8}$ INCH LARGER THAN NOMINAL SIZE OF BOLT USED, EXCEPT ANCHOR BOLT HOLES. FOR ANCHOR BOLTS, REF. AISC 13TH ED., TABLE 14-2.</p> <p>7. STRUCTURAL STEEL SURFACES THAT ARE NOT EXPOSED TO WEATHER SHALL BE LEFT UNPAINTED. EXPOSED STEEL SHALL BE SHOP PAINTED OR GALVANIZED PER ASTM A123.</p> <p>8. WELDED JOINTS SHALL CONFORM TO THE PREQUALIFIED JOINT DETAILS AS INDICATED IN THE STRUCTURAL WELDING CODE (AWS D1.1) BY THE AMERICAN WELDING SOCIETY. WELDS SHALL BE MADE USING A FILLER METAL HAVING 70 KSI MINIMUM TENSILE STRENGTH. FILLER METAL SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT 0 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE. SHAW OR FCAW PROCESSES ARE ACCEPTABLE PROVIDED ALL POWER, CURRENT, AND FEED RATES ARE SET IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>9. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED.</p> <p>10. ALL STEEL SHALL MEET "BUY AMERICA" REQUIREMENTS.</p>	<p>G. TESTING AND INSPECTIONS</p> <p>1. TESTING AND INSPECTIONS SHALL BE IN ACCORDANCE WITH THE CITY OF HALF MOON BAY'S QUALITY ASSURANCE PROGRAM (QAP).</p>
MINIMUM COVER,														
INCHES														
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3													
B. CONCRETE EXPOSED TO EARTH OR WEATHER:														
NO. 6 THROUGH NO. 18 BAR	2 UNO													
NO. 5 BAR AND SMALLER	$\frac{1}{2}$ UNO													
<p>D. REINFORCING STEEL (FOR CONCRETE AND MASONRY)</p> <p>1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 2012 (SIXTH EDITION) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH CALIFORNIA AMENDMENTS (AASHTO-CA BDS-6), THE 2010 CALTRANS SPECIFICATIONS, THE 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE' (ACI 318) AND THE 'MANUAL OF STANDARD PRACTICE' BY CRSI AND WCRSI, AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.</p> <p>2. DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706, UNLESS NOTED OTHERWISE.</p> <p>3. WELDING OF REINFORCING SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.</p> <p>4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.</p> <p>5. SPLICES SHALL BE MADE ONLY AS AND WHERE INDICATED ON THE STRUCTURAL DRAWINGS.</p> <p>6. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE SPECIFIED VERTICAL REINFORCING, UNLESS NOTED OTHERWISE.</p> <p>7. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.</p> <p>8. ALL STEEL SHALL MEET "BUY AMERICA" REQUIREMENTS.</p>	<p>F. EPOXY</p> <p>1. INSTRUCTIONS FOR ADHESIVE ANCHORING OF REBAR AND BOLTS REFERRED TO BELOW AS BAR(S).</p> <p>2. BARS MUST BE DEFORMED OR THREADED FOR THE FULL EMBEDMENT DEPTH IN ADHESIVE.</p> <p>3. EPOXY MUST MEET THE REQUIREMENTS OF ASTM C881.</p> <p>4. DRILLED HOLE DIAMETER SHALL BE PER MANUFACTURER RECOMMENDATIONS AS SET FORTH IN THE ICC REPORT. DRILL TO DEPTH RECOMMENDED BY THE MANUFACTURER AS SET FORTH IN THE ICC REPORT UNLESS OTHERWISE INDICATED ON THE DRAWINGS.</p> <p>5. REMOVE ALL DIRT, DUST, WATER, AND ICE BY VACUUM UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER IN THE ICC REPORT FROM THE HOLES.</p> <p>6. CLEAN DIRT, RUST, AND OIL FROM THE BARS.</p> <p>7. DURING THE EPOXY MIXING AND APPLICATION PROCESS, FOLLOW THE EPOXY MANUFACTURER'S SPECIFICATIONS EXACTLY. INSPECTOR TO VERIFY EXPIRATION DATE OF EPOXY.</p> <p>8. VERTICAL HOLES TO BE FILLED FROM THE BOTTOM ARE TO USE AN EPOXY GEL.</p> <p>9. THE FOLLOWING EPOXIES ARE ACCEPTABLE: FOR CONCRETE HILTI HTE 50 (CALTRANS APPROVED) OR APPROVED EQUAL</p>	<p>H. STRUCTURAL OBSERVATIONS</p> <p>1. THE ENGINEER OF RECORD REQUIRES STRUCTURAL OBSERVATION AT STAGES OF CONSTRUCTION NOTED BELOW. THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATIONS.</p> <p>2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS BEFORE COMPLETION OR COVERING UP THE FOLLOWING STAGES OF CONSTRUCTION:</p> <p style="margin-left: 20px;">A. FOUNDATION REINFORCING PLACEMENT AND WALL REINFORCING PLACEMENT. B. REINFORCING PLACEMENT FOR FORMED BRIDGE SEGMENTS.</p>												



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HALF MOON BAY BRIDGES

**PULLMAN AVENUE
AND
CHAMPS ELYSEE
BOULEVARD**

Project

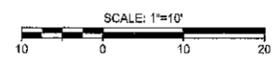
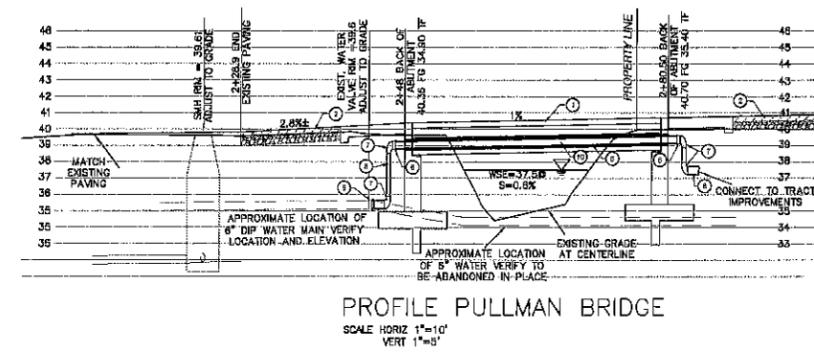
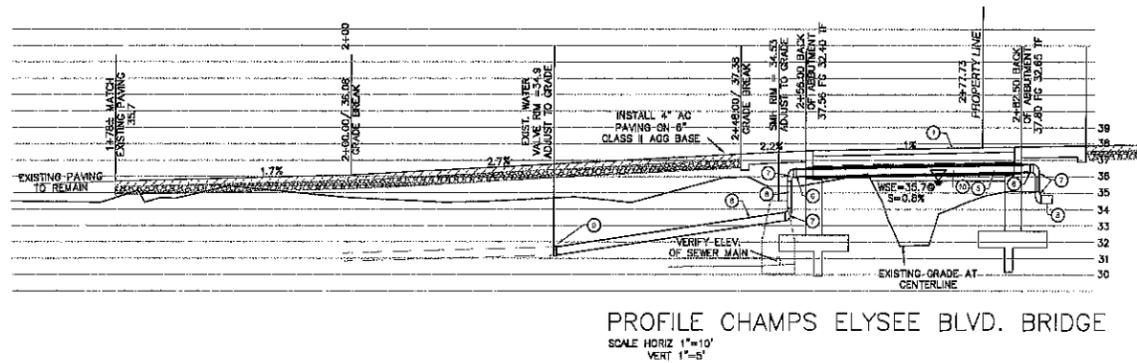
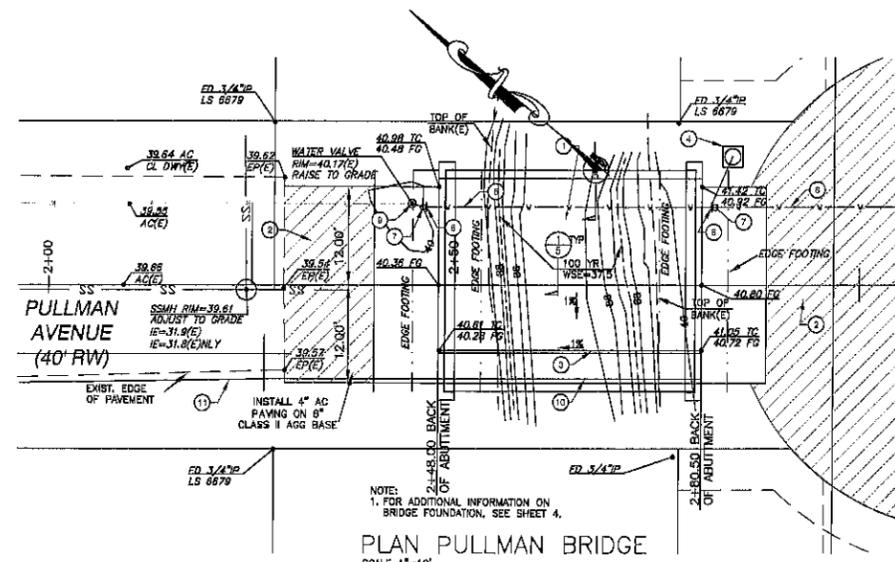
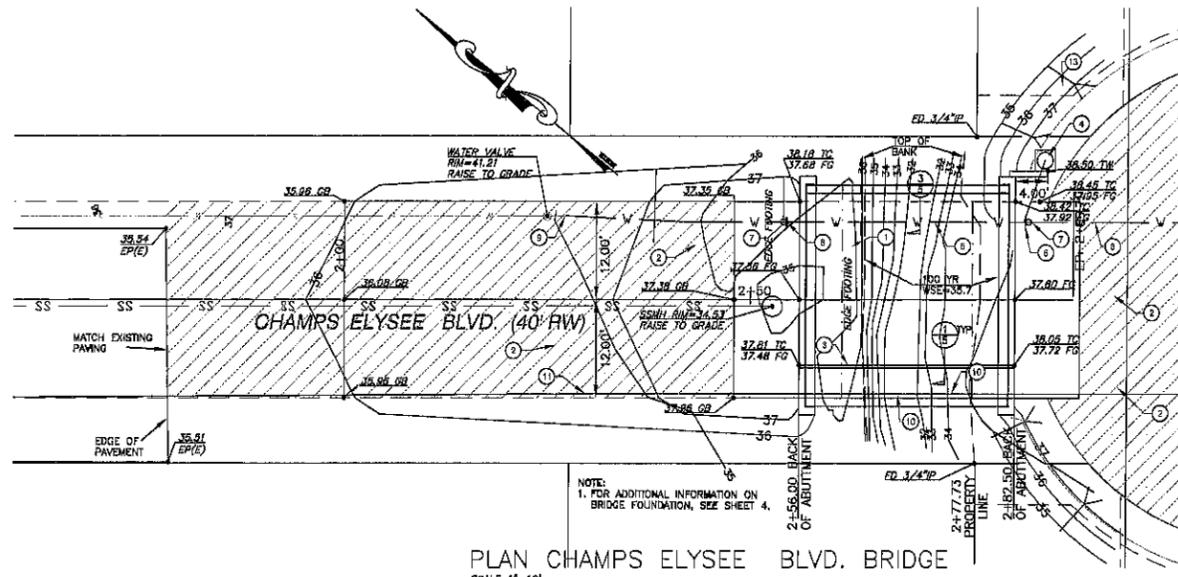
GENERAL NOTES

Drawing Title

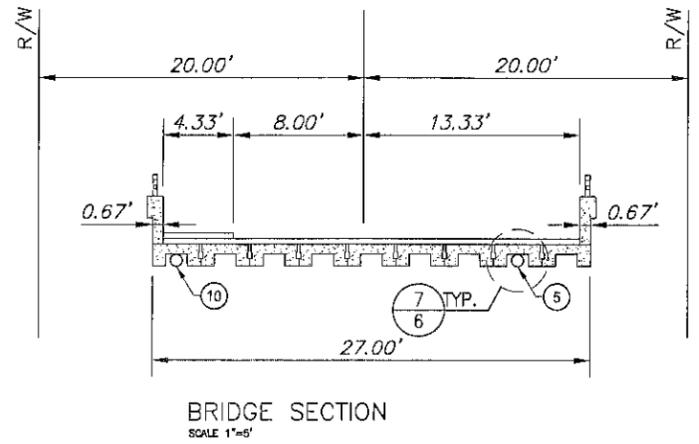
No.	Date	Description	By

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- BRIDGE CONSTRUCTION NOTES:**
1. INSTALL BRIDGE PER STRUCTURAL PLANS
 2. CONSTRUCT PAVEMENT SECTIONS PER PROJECT CIVIL PLANS.
 3. INSTALL 4" CONCRETE CURB AND 4 FOOT CONCRETE SIDEWALK
 4. INSTALL AIR AND VACUUM RELIEF ASSEMBLY PER COWI STANDARDS.
 5. INSTALL 6" WELDED STEEL WATER MAIN IN 6" MINIMUM STEEL CASING 9.5 FEET NWLY OF CENTERLINE. ATTACHED TO BRIDGE PER STRUCTURAL DETAILS.
 6. INSTALL 6" MJ 90° BEND WITH TRANSITION GASKET.
 7. INSTALL 6" X 90° BEND WITH RESTRAINED JOINTS.
 8. INSTALL 6" DIP WATER MAIN, 3 FEET MIN COVER, WITH RESTRAINED JOINTS.
 9. VERIFY LOCATION AND ELEVATION AND CONNECT TO EXISTING 6" DIP WATER MAIN SEE PROJECT CIVIL PLANS.
 10. INSTALL 4" STEEL CASING 11.5 FEET NWLY OF CENTERLINE ATTACHED TO BRIDGE PER STRUCTURAL DETAILS FOR FUTURE UTILITIES.
 11. VERIFY LOCATION AND ELEVATION OF EXISTING GAS MAIN AND CONNECT TO EXISTING SEE PROJECT CIVIL PLANS.
 12. BACKFILL TRENCH PER AGENCY STANDARDS.
 13. 2:1 MAXIMUM SLOPE PER PROJECT CIVIL PLANS.



CALL UNDERGROUND SERVICE ALERT (USA) NORTH 811 FOURTY-EIGHT (48) PRIOR TO START OF CONSTRUCTION.

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HALF MOON BAY BRIDGES
PULLMAN AVENUE AND CHAMPS ELYSEE BOULEVARD
Project

BRIDGE PLANS AND PROFILES
Drawing Title

No.	Date	Description	By

Project No. AE15068	Checked MKH	Date 12/14/2015
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HALF MOON BAY BRIDGES

PULLMAN AVENUE AND CHAMPS ELYSEE BOULEVARD

Project

BRIDGE FOUNDATION PLANS

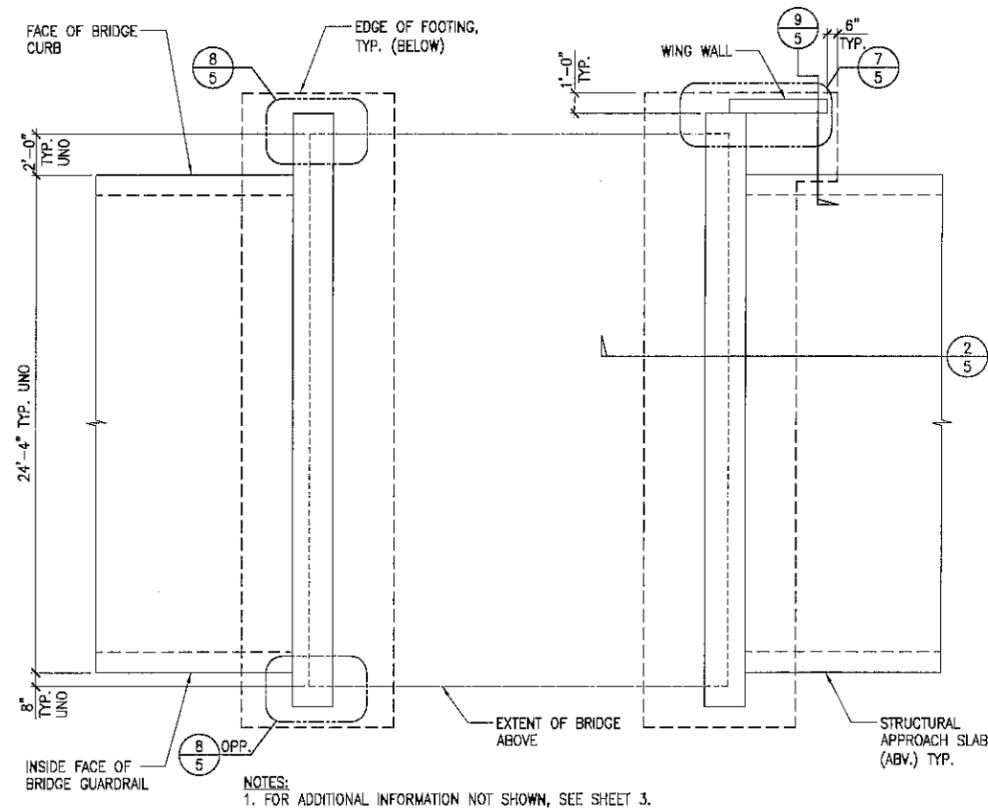
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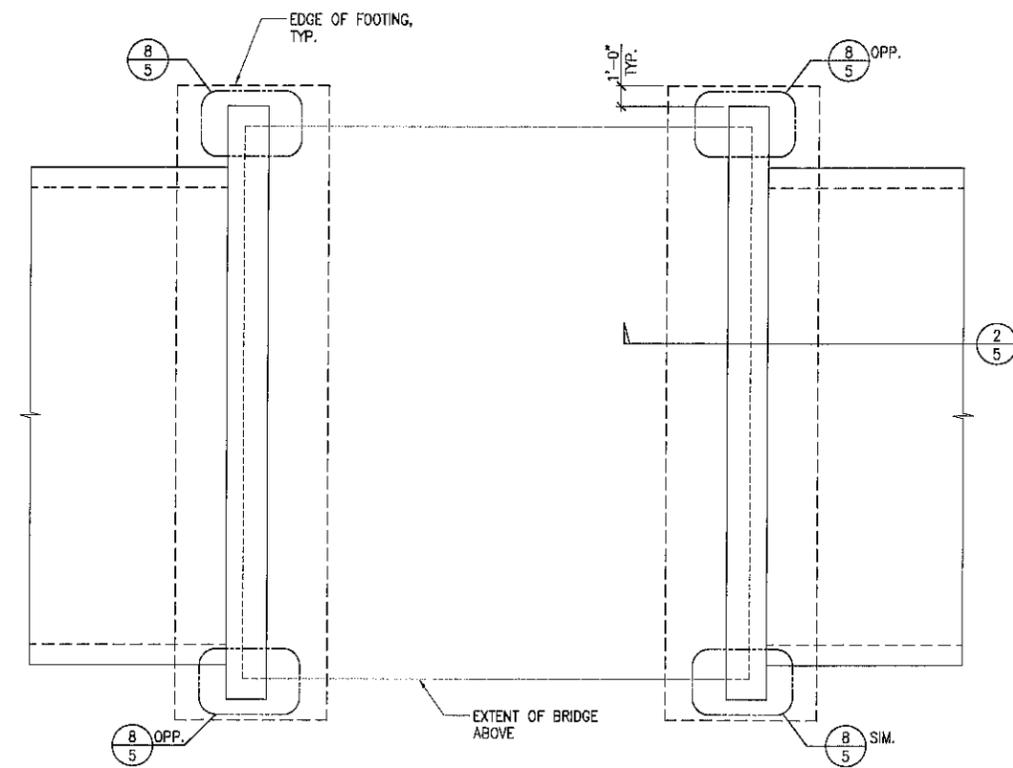
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4 of 6

Sheet



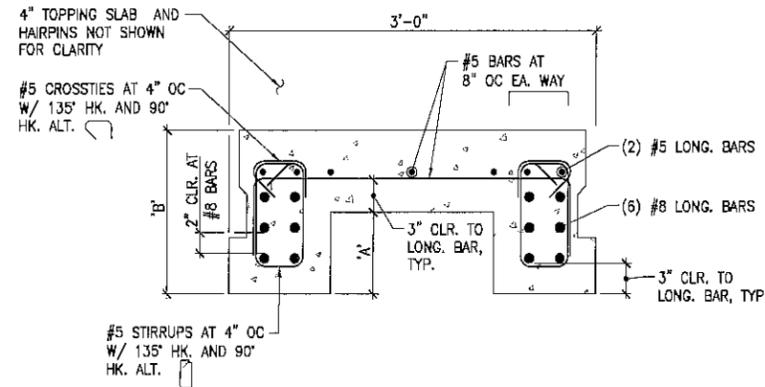
**CHAMPS ELYSEE BOULEVARD
 FOUNDATION PLAN**
 1" = 4'-0"



PULLMAN AVENUE FOUNDATION PLAN
 1" = 4'-0"



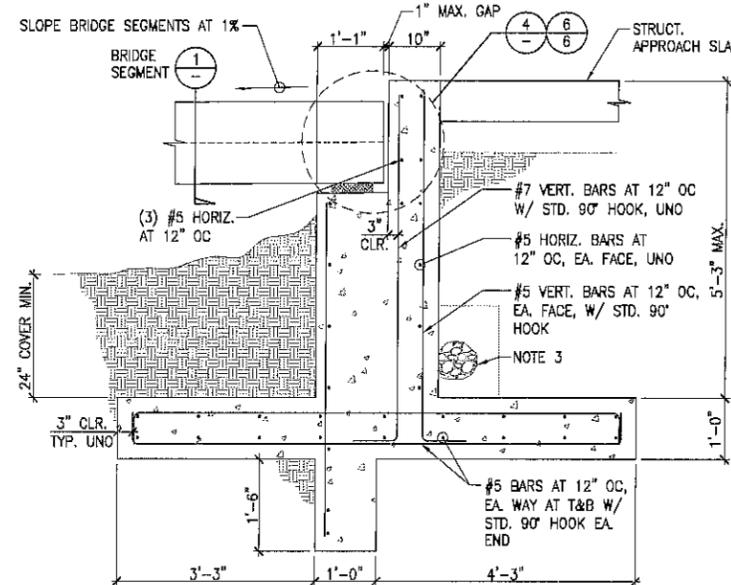
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- NOTES:
- FOR ADDITIONAL INFORMATION ON KEYWAY SEE (5)
 - FOR EXTERIOR SEGMENT AND GUARDRAIL SEE (3)
 - FOR TOPPING SLAB AND HAIRPINS SEE (6)

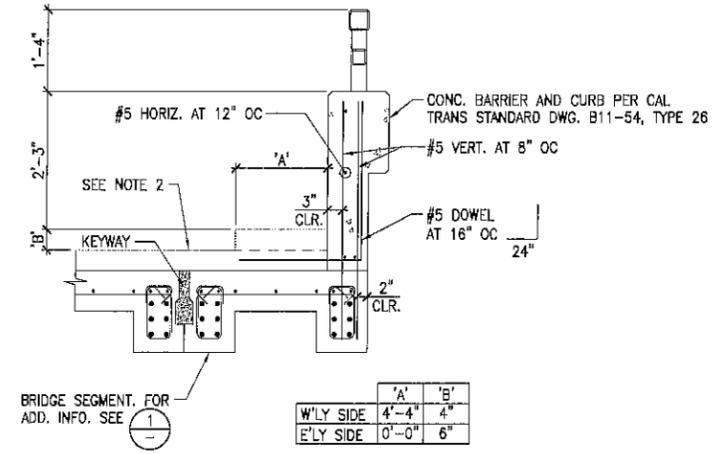
BRIDGE	'A'	'B'
CHAMPS	6 3/4"	16"
PULLMAN	11 1/2"	18 1/2"

INTERIOR BRIDGE SEGMENT SECTION (1)
 1/2" = 1'-0"



- NOTES:
- FOOTING TOE SHALL BE 5'-0" MINIMUM TO DAYLIGHT
 - TOPPING SLAB AND HAIRPINS NOT SHOWN FOR CLARITY
 - PROVIDE DRAINAGE BEHIND ABUTMENT PER CAL TRANS STANDARD DRAWING BO-3, BRIDGE DETAIL 3-1

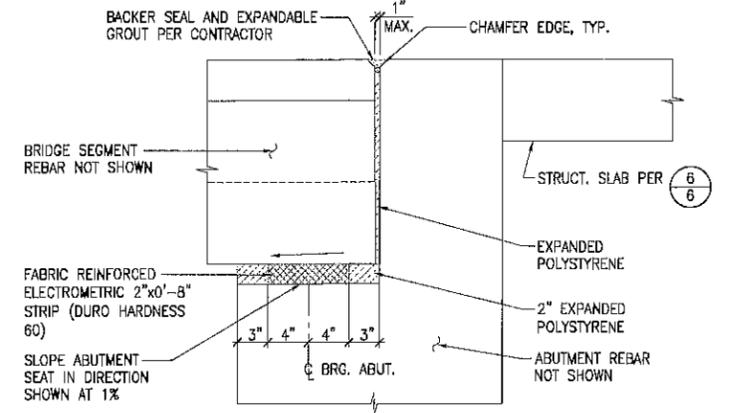
BRIDGE ABUTMENT SECTION (2)
 3/4" = 1'-0"



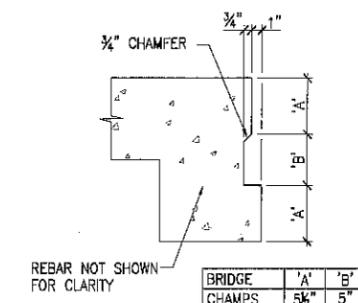
- NOTES:
- FOR ADDITIONAL INFORMATION ON KEYWAY, SEE (5)
 - FOR TOPPING SLAB AND HAIRPINS, SEE (6)

	'A'	'B'
W'LY SIDE	4'-4"	4"
E'LY SIDE	0'-0"	6"

BRIDGE EDGE SEGMENT WITH RAILING (3)
 3/4" = 1'-0"

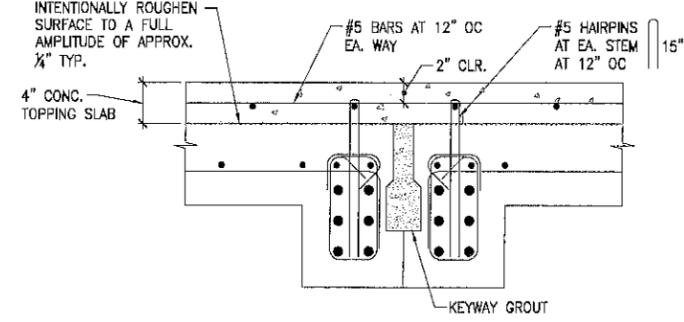


BEARING PAD DETAIL (4)
 1/2" = 1'-0"

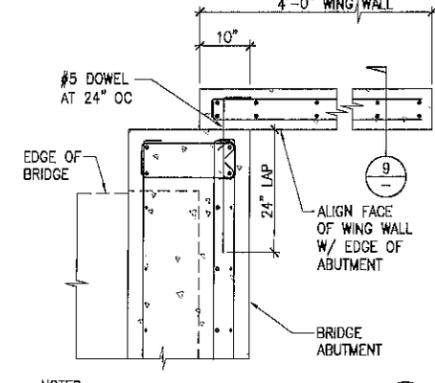


- NOTES:
- FILL KEYWAY WITH NON-SHRINK GROUT PRIOR TO INSTALLING TOPPING SLAB

KEYWAY DIMENSIONS (5)
 1/2" = 1'-0"

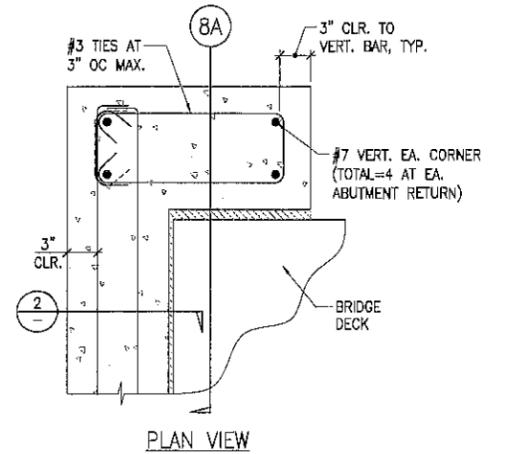


TOPPING SLAB DETAIL (6)
 1/2" = 1'-0"

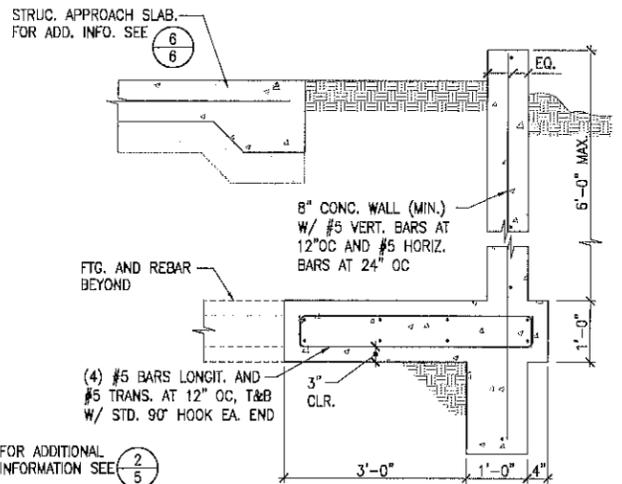
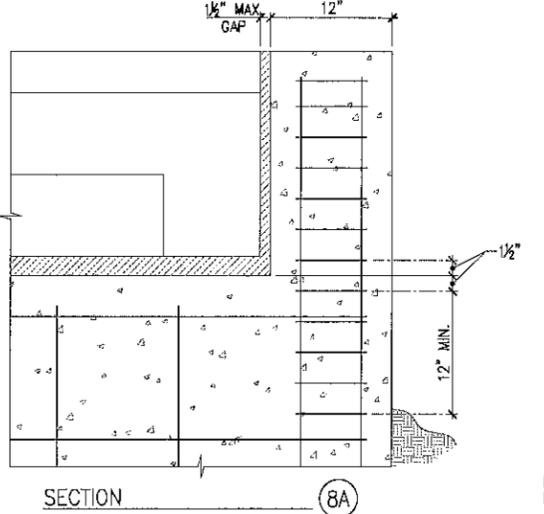


- NOTES:
- FOR ADDITIONAL INFORMATION NOT SHOWN, SEE (8)

PLAN AT WING WALL (7)
 3/4" = 1'-0"



ABUTMENT RETURN (8)
 1/2" = 1'-0"



- FOR ADDITIONAL INFORMATION SEE (2)

WING WALL SECTION (9)
 3/4" = 1'-0"



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HALF MOON BAY BRIDGES

PULLMAN AVENUE AND CHAMPS ELYSEE BOULEVARD

Project

BRIDGE AND ABUTMENT DETAILS

Drawing Title

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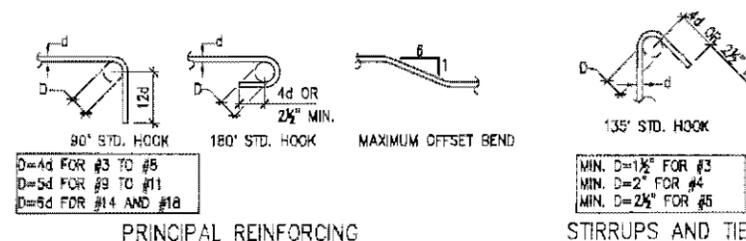
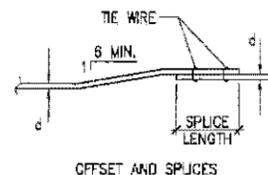


$f_c = 4000$ PSI

BAR SIZE	Q_d
#3	12
#4	12
#5	15
#6	16
#7	23
#8	30
#9	36
#10	48
#11	56
#14	81
#18	105

NOTES:

- TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCEMENT BARS. FOR LIGHTWEIGHT AGGREGATE MULTIPLY VALUE IN TABLE BY 1.3.
- WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BEING DEVELOPED, MULTIPLY VALUE IN TABLE BY 1.4.
- FOR EPOXY-COATED BARS WITH COVER LESS THAN 3 BAR DIAMETERS OR WITH CLEAR SPACING BETWEEN BARS LESS THAN 6 BAR DIAMETERS, MULTIPLY VALUE IN TABLE BY 1.5. FOR ALL OTHER EPOXY-COATED BARS, MULTIPLY VALUE IN TABLE BY 1.2.
- FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, MULTIPLY VALUE IN TABLE BY 0.75, BUT DO NOT USE LESS THAN 12" MINIMUM.
- DEVELOPMENT AND LAP SPLICE OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE THE VALUE IN THE TABLE MULTIPLIED BY 1.2 FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33 FOR A 4-BAR BUNDLE. FOR DETERMINING THE APPROPRIATE TENSION DEVELOPMENT LENGTH FACTORS, A UNIT OF BUNDLED BARS SHALL BE TREATED AS SINGLE BAR OF A DIAMETER DERIVED FROM THE EQUIVALENT TOTAL AREA.
- FOR TENSION LAP SPLICES, Q_d , ALL NOTES APPLY. CLASS A, B, AND C ARE DEFINED AS FOLLOWS:
CLASS A: CLASS A LAP SPLICES MUST BE VERIFIED AND APPROVED FOR USE BY ENGINEER, RATIO OF PROVIDED STEEL AREA OVER REQUIRED STEEL AREA IS GREATER THAN 2. USE TENSION DEVELOPMENT LENGTH, Q_d .
CLASS B: HALF OR LESS OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. MULTIPLY VALUE IN TABLE BY 1.3.
CLASS C: MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. MULTIPLY VALUE IN TABLE BY 1.7.
- THIS TABLE IS NOT INTENDED FOR USE IN FINDING DEVELOPMENT LENGTHS OF HOOKS, WIRES IN TENSION, OR FLEXURAL REINFORCEMENT.

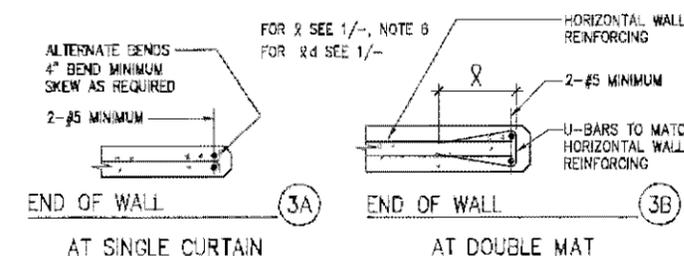


TENSION DEVELOPMENT LENGTH, Q_d (IN INCHES) AND TENSION LAP SPLICE, Q (IN INCHES)

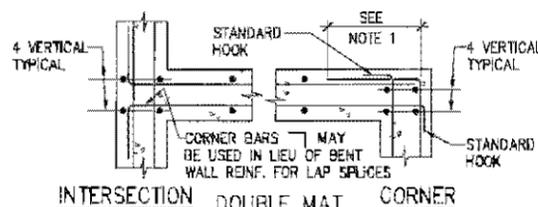
NO SCALE

BAR BENDS

- NOTES:**
1. ALL BENDS SHALL BE MADE COLD.
2. #14 AND #18 BARS SHALL BE BEND TESTED AND LAB APPROVED PRIOR TO BENDING.

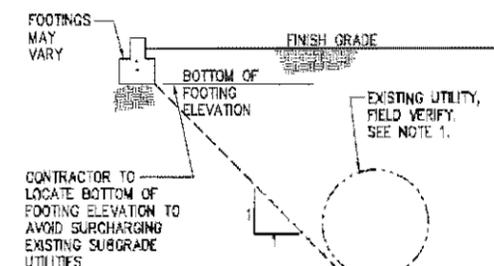
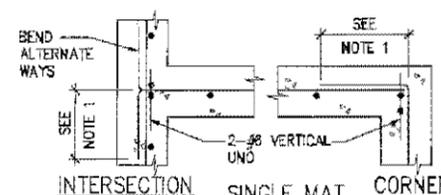


CONCRETE WALL DETAILS



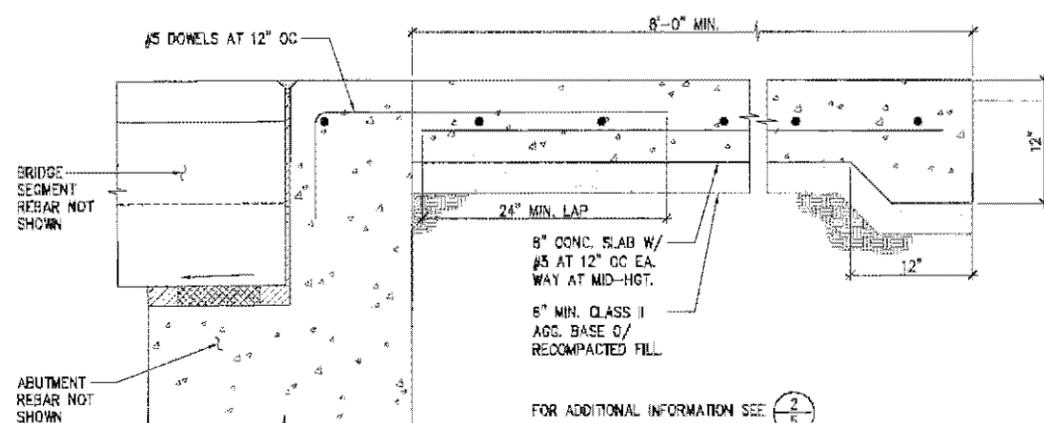
REINFORCING AT WALL INTERSECTIONS

- NOTES:**
1. USE TENSION LAP SPLICES PER NOTE 6 OF DETAIL 1/-.



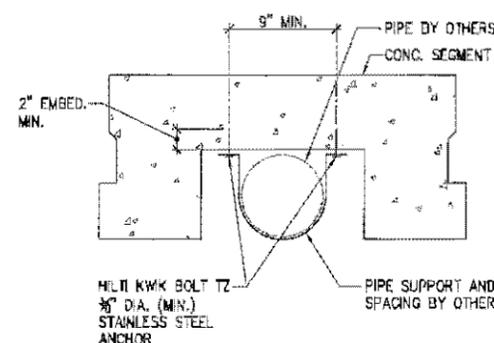
- NOTES:**
1. WHERE EXISTING UTILITY IS WITHIN THE INFLUENCE LINE, CONTACT ENGINEER. UTILITY MAY NEED TO BE RELOCATED OUTSIDE OF THE INFLUENCE LINE.

FOOTING PARALLEL TO EXISTING UTILITY



STRUCTURAL APPROACH SLAB

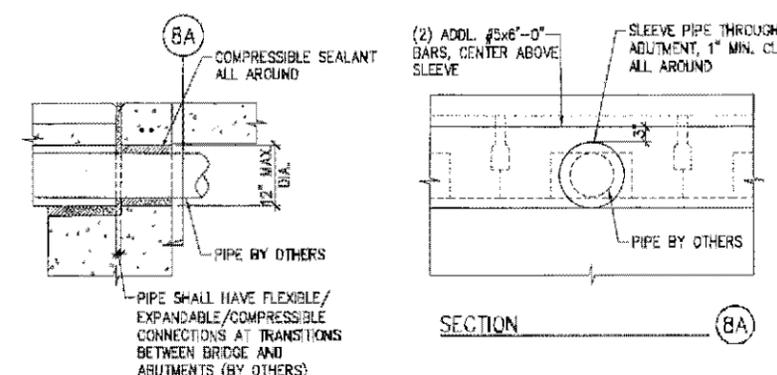
1/2" = 1'-0"



- NOTES:**
1. ANCHOR CAPACITY PER PAIR OF ANCHORS = 1000 POUNDS (UNFACTORED SERVICE LOAD).
2. ANCHOR INSTALLATION REQUIRES SPECIAL INSPECTION PER ICC ESR-1917.
3. CONCRETE SHALL BE CURED A MINIMUM OF 28 DAYS PRIOR TO INSTALLATION OF ANCHORS.
4. DO NOT DISTURB OR DAMAGE SLAB REINFORCING BARS.
5. SLAB REINFORCING NOT SHOWN FOR CLARITY. FOR ADDITIONAL INFORMATION SEE 2/5.

PIPE SUPPORT

1/2" = 1'-0"



- NOTES:**
1. PIPE SLEEVE SHALL NOT INTERFERE WITH ADJUTMENT REINFORCING.
2. FOR ADDITIONAL INFORMATION NOT SHOWN, SEE 4/5.

PIPE SUPPORT

3/4" = 1'-0"

HALF MOON BAY BRIDGES

PULLMAN AVENUE AND CHAMPS ELYSEE BOULEVARD

TYPICAL DETAILS

No.	Date	Description	By

Project No. AE15068	Checked MKH	Date 12/14/2015
Drawn MME/SMM	Approved MKH	Scale PER PLAN

April 20, 2016

Coastside County Water District

**WATER SYSTEM SPECIFICATIONS
FOR
STOLOSKI PROPERTY PROJECT**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Specifications. This document contains the technical specifications for all water system facilities for which ownership upon project completion will be conveyed by the Applicant, Mark Stoloski, to the Coastside County Water District (CCWD). This document is not a complete set of specifications for the project; the Applicant and their engineer are responsible for all project specifications and contract documents other than this Water System Specifications document.
- B. Drawings. This Specifications document shall be used in conjunction with the following engineering drawings for the project:
 - 1. Improvement Plan Sheets C-1, C-2, C-3, C-4 and C-5 of the drawings titled "Stoloski Property, Cabrillo Highway", prepared by Sigma Prime Geosciences, Inc., latest revision of each sheet.
 - 2. Sheets 1-6 of the plans titled "Half Moon Bay Bridges", prepared by Praxis, latest revision of each sheet.
- C. Conflicts Between Specifications and Drawings. Where conflicts occur between this Specification document and the engineering drawings, this Specifications document shall take precedence. Conflict resolution shall be performed by the Coastside County Water District.

1.02 REGULATORY AGENCIES

- A. Water System. All water system work shall be in conformance with the rules and regulations of the Coastside County Water District, County of San Mateo Department of Health Services, and the State Department of Health Services.
- B. Safety. All work shall be in conformance with applicable State and Federal laws and regulations, rules and orders and as may be necessary in order that the work is performed in a safe manner and that the safety and health of the employees and the people of local communities is safeguarded.

- C. Work Within Street Right of Way Area Including Trench Backfill and Repaving. All work within the street right of way area shall be performed in conformance with the requirements of the agency having jurisdiction over the right of way area. For the Stoloski Property project, the agency having jurisdiction over the right of way area is the City of Half Moon Bay.
- D. Pollution Abatement. All work shall be performed in conformance with NPDES (National Pollutant Discharge Elimination System) regulations as well as with all other applicable pollution abatement rules and regulations.

1.03 PERMITS

Prior to beginning work, the Applicant or the project Contractor shall obtain all permits required for the work.

1.04 INSPECTION

- A. Responsible Agency:
 - 1. Water System Work. Inspection of water system facilities including sand backfill around piping will be performed by the CCWD. CCWD inspection fees shall be paid by the Applicant. In areas that are not public right of way areas, the Applicant or the Contractor shall retain a qualified soils engineer who shall perform field tests and certify in writing prior to project acceptance that the backfill is in conformance with project requirements.
 - 2. Work in Public Right of Way Areas. In public right of way areas, trench backfill and repaving will be inspected by the agency having jurisdiction over the right of way area. All inspection fees and soils testing costs shall be paid by the Applicant or the Contractor.
 - 3. Work in Private Property Areas. Inspection of trench backfill and repaving shall be performed by the Applicant or a qualified representative of the Applicant.
- B. Notification. The CCWD shall be notified by the Contractor 10 days prior to the proposed start of construction of water system facilities. If construction is not continuous, the CCWD shall be notified at least 48 hours in advance of the resumption of construction.
- C. Observation. The CCWD and their authorized representatives shall at all times have access to the work, and the Contractor shall furnish every reasonable facility for ascertaining that the materials and workmanship are in accordance with CCWD requirements. All work performed and all materials furnished shall be subject to the CCWD's on-site and off-site observations. The CCWD will observe and inspect facilities solely to protect the interests of the CCWD and to determine whether the completed work is acceptable for incorporation into the CCWD system. The CCWD does not assume thereby any responsibility for the

safety practices of the Contractor. The Contractor is responsible for the correct location of all facilities which are installed. All work shall be inspected by the CCWD prior to backfill. Work which has been backfilled prior to inspection by the CCWD shall be uncovered for observation at the expense of the Contractor.

1.05 CHANGES

All work shall be performed in conformance with the project documents approved by the CCWD. Changes shall not be made without the written approval of the CCWD.

1.06 REPAIR OF DAMAGE

The Contractor shall repair at his expense any damage to CCWD or other property caused by his work. At the option of the CCWD, repairs to CCWD facilities will be completed by the CCWD with the cost of the repair work being paid by the Contractor.

1.07 SITE CONDITIONS

The CCWD has performed no investigation of subsurface conditions in the work area. The Contractor shall visit the site prior to submitting his bid and shall be responsible for making his own evaluations, inspections and determinations of all site conditions, including subsurface.

1.08 LINES AND GRADES

The Contractor will be solely responsible for all lines and grades. At no cost to the Contractor, the CCWD will field locate existing water system facilities based on best available information. However, this CCWD locating assistance is not guaranteed to be either accurate or complete. The Contractor shall uncover all existing facilities by hand excavation (potholing) ahead of his machine excavation work. Where the project drawings indicate the location of water system facilities with respect to property corners or easement boundaries, the Applicant or the Contractor shall retain the services of a licensed land surveyor to field locate each property corner and easement boundary required for installation of the new water system facilities at the proper locations.

1.09 SALVAGEABLE MATERIALS

Existing CCWD materials removed during the normal prosecution of work deemed salvageable by the CCWD, except as otherwise noted on the project drawing to be reused, shall remain under CCWD ownership and shall be delivered to the CCWD corporation yard by the Contractor.

1.10 PERSONAL LIABILITY

Neither the CCWD, its Engineer, nor any of the CCWD officers or employees shall be personally responsible for any liability arising under or by virtue of the Contractor's work.

1.11 QUALITY ASSURANCE

- A. Performance Test. Prior to project completion, the Contractor shall demonstrate to the CCWD that all water system facilities perform in the manner in which they are intended for use.
- B. Leakage Test. All water pipelines, service tubing and piping accessories shall be tested for leakage in conformance with the requirements contained in Part 3 of this document.
- C. Disinfection. All potable water pipelines, service tubing and piping accessories shall be disinfected in conformance with the requirements contained in Part 3 of this document.

1.12 REFERENCES TO STANDARD SPECIFICATIONS AND REGULATIONS

- A. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in effect at the time the project documents are prepared (date shown on Specification document).

PART 2 - MATERIALS

2.01 GENERAL REQUIREMENTS

- A. All materials shall be in conformance with CCWD rules and regulations for "approved" materials.
- B. All materials shall be new.

- C. Manufacturers furnishing pipe, valves, or piping accessories shall have had similar products in successful operation under similar operating conditions for a period of at least 5 years, and shall if requested submit a list of representative installations.
- D. Materials in contact with drinking water shall be certified as meeting the specifications of NSF International/American National Standard Institute (NSF/ANSI)1-2005/Addendum 1.0-2005(Drinking Water System Components—Health Effects). This requirement shall be met under testing conducted by a product certification organization accredited for this purpose by the American National Standards Institute.
- E. Pipe materials, plumbing fittings or fixtures, and solder or flux shall be “lead free” as defined in California Health & Safety Code, Paragraph 116875, subd.(a). and subd. (d).

2.02 SHOP DRAWING REQUIREMENTS

- A. CCWD-Approved Materials. Where specific materials are listed below by manufacturer’s name and model number, they are District-approved materials by CCWD Resolution No. 2003-11. No shop drawing submittals are required for these CCWD-approved materials.
- B. Approved Equal Materials. Where the term “or approved equal” is used below, the Contractor may propose the use of alternative materials to those named by submitting shop drawings for the proposed alternative materials. Five copies of each shop drawing shall be submitted to the CCWD for review. The shop drawing submittal information shall be as required to demonstrate to the satisfaction of the CCWD that the material is equal to the District-approved material. No alternative materials shall be incorporated into the work until they have received the CCWD’s favorable review. Where the term “or approved equal” is not utilized below, no alternatives will be considered by the CCWD.
- C. Contractor Verification. Where model, style or types of manufacturer’s products are listed below, they are intended to indicate a standard of quality. The Contractor shall verify that the referenced model, style or type is correct for the actual project application prior to ordering the materials. When listed model numbers are no longer available or are incorrect, the District will provide new model numbers for District-approved materials.

2.03 DUCTILE IRON PIPE

- A. Pipe. Pipe shall normally be ductile iron pipe with push-on joints conforming to AWWA Standard C151, thickness Class 52. Where flanged joint pipe is required it shall conform to AWWA Standard C115, thickness Class 53.

- B. Pipe Joints:
1. Push-On Pipe Joints. Push-on pipe shall normally be utilized for all buried piping except where otherwise indicated on the project drawings or otherwise required. Push-on joints shall conform to AWWA Standard C111 with restrained type "Field-Lok" gaskets as manufactured by U.S. Pipe and Foundry Co.
 2. Flanged Joint Pipe. Flanged joint pipe shall be utilized in buried piping where shown on the Contract Drawings or required. All above grade pipe shall have flanged joints. Flanges shall be in conformance with AWWA C115. Flanges shall be Class 125, B16.1, rated for a service pressure of 250 psi. Bolts and nuts for all flanged joints shall be Type 316 stainless steel.
- C. Fittings:
1. Fittings for Push-On Joint Pipe. Fittings shall be ductile iron conforming to AWWA Standard C153. Fittings shall be mechanical joint type. Fittings shall be furnished and installed with joint restraint devices. Joint restraint devices for mechanical joint fittings shall be Series 1100 Megalug Retainer glands as manufactured by EBBA Iron Sales, Inc. Retainer glands shall be factory coated with the manufacturer's mega-bond system. The accessory kit shall be Type 316 stainless steel.
 2. Fittings for Flanged Pipe. Fittings shall be ductile iron conforming to AWWA C110. Fittings shall be screw-on type, normally Class 125, B16.1 Type, designed for a service pressure of 250 psi. Bolts and nuts for flanged joints shall be Type 316 stainless steel. Gaskets shall normally be 1/8 inch thick non-asbestos composition type.
- D. Exterior Coating. Pipe and fittings shall be furnished with a 1 mil thick asphaltic coating. The finished coating shall be the manufacturer's standard conforming to AWWA requirements.
- E. Interior Lining. Pipe and fittings shall be cement lined in conformance with AWWA Standard C104.
- F. Polyethylene Encasement. Polyethylene encasement shall be tube type, conforming to AWWA Standard C105. Color may be Class A natural or Class C black.

2.04 COPPER TUBING

- A. Tubing:
1. Buried Tubing. Copper tubing for buried service shall be Type K (soft) conforming to ASTM B88.
- B. Tubing Joints and Fittings.

1. Buried Tubing. Joints and fittings for buried copper tubing shall be compression type which do not require flaring or soldering. Service fittings shall be Mueller Series 110 compression connections.

2.05 BRASS PIPE

- A. Brass pipe shall be in conformance with ASTM-B43, regular. Joints shall be threaded type.

2.06 STEEL WATER PIPE

- A. The 6 inch diameter pipe used for the water pipe at each of the bridge crossings shall be steel cylinder pipe conforming to the following requirements:
 1. Cylinder: ASTM A53, Grade B, and AWWA C200. thickness = 0.322 inch.
 2. Length: 40 ft.
 3. Ends: plain ends.
 4. Lining: 3/8" cement lining conforming to AWWA C205.
 5. Coating: 50 mils thickness comprised of the following: surface preparation: SSPC Sp-6; prime coat Polyken 1027, 4 mils DFT; inner layer Polyken 980, 20 mils DFT; outer layer Polyken 955, 30 mils DFT.
 6. Field Joint Repair Materials: Following cutting of the pipe for field installation, damaged pipe shall be repaired using an appropriate Polyken material for the exterior and cement for the interior.
 7. Manufacturer: Jifco Fabricated Piping.

2.07 STEEL CASING PIPE

- A. The 8 inch diameter pipe used for the casing pipe at each of the bridge crossings shall be steel cylinder pipe conforming to the following requirements:
 1. Cylinder: ASTM A53, Grade B, and AWWA C200. Thickness = 1/4 inch.
 2. Length: 40 ft.
 3. Ends: plain ends
 4. Lining: none.
 5. Coating: none.
 6. Manufacturer: Cal-Sierra Pipe, Inc.

2.08 GATE VALVES

- A. Gate Valves 4 Inches in Diameter and Larger. Gate valves shall be resilient-wedge type conforming to AWWA C509 and the following additional requirements. Valves shall be rated at 250 psi working pressure. All body and bonnet bolts, studs, and nuts shall be Type 316 stainless steel. Stem seals shall

be O-ring type. Valve operators shall be bronze 2 inch square nut type. Valve end connections shall be normally push-on or mechanical joint type except where flanged end connections are required. The interior and exterior of the valve body shall be coated with 10 mils minimum of epoxy material which conforms to AWWA Standard C550. The CCWD-approved valve is the Mueller Co. A-2362 Series.

- B. Gate Valves 3 Inches in Diameter and Smaller. Valves shall be rated for 200 psi service, and shall be bronze body, solid wedge disc, non-rising stem, handwheel operated type with screwed end connections.

2.09 TAPPING SLEEVES AND TAPPING VALVES

- A. Tapping Sleeves. The CCWD-approved tapping sleeve is the JCM Model 6432 all stainless steel tapping sleeve with Type 316 stainless steel body, bolts and nuts.
- B. Tapping Valves. The CCWD-approved tapping valve is the Mueller tapping gate valve conforming to the specifications requirements for Gate Valves in Paragraph 2.06 above. The valve outlet end connection shall be a mechanical joint type.

2.10 VALVE BOXES AND RISER PIPE

- A. Valve Boxes. Valve boxes shall be Christy Model G-5 with cast iron lids with the work "Water" cast into the lid.
- B. Riser Pipe. Riser pipe for the valve operator shall be 8 inch diameter PVC sewer pipe conforming to ASTM D-3034, SDR 35.

2.11 FIRE HYDRANT ASSEMBLIES

- A. Each fire hydrant assembly shall consist of a Clow 960 fire hydrant, a Clow No. 400A breakoff check valve, a 26 inch long hydrant bury piece with a mechanical joint 6 inch diameter end connection, and extension pieces as required. Bolts and nuts for flanged joints shall be Type 316 stainless steel.

2.12 SERVICE FITTINGS FOR COPPER TUBING

- A. Service fitting shall be Mueller Series 110 compression connections as listed below:

<u>Description</u>	<u>Mueller Model Number</u>	
	<u>3/4" & 1" Size</u>	<u>1-1/2" & 2" Size</u>
Ball Corporation Valve	B-25008	B-25008
Meter Angle Ball Valve	B-24258	B-24276
Union	H-15403	H-15403
Tee	H-15381	H-15381
Quarter Bend Union	H-15526	H-15526

B. Angle Check Valves shall be products of Ford as listed below:

<u>Size</u>	<u>Model Number</u>
3/4"	HA31-323
1"	HA31-444
1-1/2"	HFA31-666
2"	HFA31-777

2.13 WATER METERS

A. Water meters shall be Sensus meters with Orion automatic read devices. The Contractor shall purchase the meters through the CCWD.

2.14 METER BOXES

A. Meter boxes shall be concrete, and shall be products of Christy Concrete Products, Inc. Meter box lids in non-traffic areas shall normally be concrete, and in traffic areas shall be galvanized steel. Lids shall have the work "Water" cast into the top. Extension pieces shall be provided as required so that the bottom of the meter box assembly is equal in elevation with the bottom of the meter or other device inside the box or as shown on the District Standard Installation Details or as directed by District field personnel. For water meter service connections, the following boxes and lids shall be provided:

CHRISTY METER BOXES AND LIDS

<u>Water Meter Size</u>	<u>Box No.</u>	<u>Non-Traffic Lid No.</u>
3/4"	B9	B9P
1"	B16	B16P
1-1/2"	As Req'd.	P Type

The "P" type lids are fabricated of reinforced concrete with a 1-3/4 inch hole for the automatic meter reading device. Where meter boxes are utilized for air release assemblies, blow off valve assemblies and other non-meter applications use the "D" type lid.

Where traffic-type lids are required, provide lid type as required by the District.

2.15 SERVICE SADDLES

- A. Service saddles shall be rated for a working pressure of 200 psi, and shall be bronze double strap type. Outlet shall be either AWWA taper or IPT as required for the pipe to be connected to the saddle. The District-approved service saddle is the Mueller BR2B Series.

2.16 FIRE HYDRANT GUARD POSTS

- A. Fire hydrant guard posts (bollards) shall be 4 inch diameter Schedule 40 galvanized steel pipe, 6 feet long.

2.17 CONCRETE

- A. Concrete shall contain a minimum 564 pounds of Portland cement per cubic yard. Minimum compressive strength after 28 days shall be 3,500 psi.

2.18 SAND BEDDING AND BACKFILL MATERIAL

Sand for use in bedding and backfilling water pipelines and service tubing shall conform the requirements contained in the current edition of "Standard Specifications" issued by Caltrans (California Department of Transportation), Section 19. Use of beach sand will not be permitted. In addition, the material shall have a resistivity of 1,000 ohm-cm or higher when tested by the water-saturated soil box method.

2.19 WATER

Water shall be potable water unless otherwise permitted by the CCWD, and will be made available to the Contractor by the CCWD from available facilities at or in the vicinity of the work site. Cost of water shall be paid by the Contractor using a portable meter obtained from the District.

2.20 TRENCH BACKFILL MATERIALS AND REPAVING MATERIALS

- A. Public Right of Way Areas. Materials within public right of way areas shall conform to the requirements of the agency having jurisdiction over the right of

way area which for this project is the City of Half Moon Bay. In addition, the materials shall have a resistivity of 1,000 ohm-cm or higher when tested by the water-saturated soil box method.

- B. Non-Public Right of Way Areas. Materials shall conform to the requirements contained in the current edition of "Standard Specifications" issued by Caltrans (California Department of Transportation), Section 19. In addition, the material shall have a resistivity of 1,000 ohm-cm or higher when tested by the water-saturated soil box method.

2.21 PIPE STRAPS

Pipe straps for attaching the steel casing pipe to the bridges shall be 2 hole, Type 316 stainless steel, similar and equal to Tripac Model 2STR-8". Attachment devices shall be as shown on the bridge drawings.

2.22 CASING INSULATORS

Casing insulators shall be provided which shall support the carrier pipe within the casing pipe, prevent the carrier pipe from floating, and electrically insulate the carrier pipe from the casing pipe. Casing insulators shall be fabricated of solid polyethylene and shall have a minimum band width of 4 inches. All insulator assembly bolts and nuts shall be Type 304 stainless steel. Casing insulators shall be Model AC as manufactured by Advance Products & Systems, Inc., or approved equal.

2.23 CASING END SEALS

Casing end seals shall be fabricated of synthetic rubber, minimum thickness 1/8 inch. Banding straps shall be stainless steel. End seals shall be Model AC as manufactured by Advance Products & Systems, Inc., or approved equal.

2.24 FLEXIBLE EXPANSION JOINTS

Flexible expansion joints shall be double ball type, fabricated of ductile iron, rated for 350 psi working pressure, with mechanical joint end connections. All wetted parts shall be coated with a fusion bonded epoxy of a type approved by NSF61. Flexible expansion joints shall be EBBA Iron Inc. Flex-Tend model. No alternatives will be acceptable.

2.25 AIR VALVES

Air valves shall be combination type conforming to the requirements of AWWA Standard C512. Valve size shall be as shown on the Contract Drawings. Combination air valves shall be APCO Series 140C or equivalent ValMatic model. No alternatives will be permitted.

PART 3 - EXECUTION

3.01 SEQUENCE OF UNDERGROUND UTILITY CONSTRUCTION

- A. The sequence of underground utility construction shall be that the deepest utility system shall be constructed first and the shallowest last, except that construction of water pipelines shall in all instances be constructed before the joint electrical trench facilities.

3.02 EXISTING UNDERGROUND UTILITIES

- A. Prior to beginning work the Contractor shall notify USA to have the location of all underground utilities marked in the field. Prior to beginning machine excavation the Contractor shall verify the exact location of each underground utility by hand excavation (potholing).

3.03 SITE MEETING WITH DISTRICT FIELD PERSONNEL

- A. General. Prior to beginning work the Contractor shall arrange a meeting at the site with District field personnel to review the work requirements. The District will require satisfactory evidence such as field survey stakes or property corner survey markers of the location of the property line adjacent to which meter boxes and fire hydrants are to be installed before the exact location of meter boxes and fire hydrants can be determined.
- B. Easement Staking. For pipelines to be constructed on private property within an easement, the Applicant shall retain the services of a licensed land surveyor to install stakes on the edges of the easement. A stake shall be installed at each easement angle point and at a maximum distance of 50 feet apart between angle points. The surveyor shall provide a letter to the District describing the work performed, and a copy of the easement description shall be attached to the letter.

3.04 TRENCH EXCAVATION, BACKFILL AND REPAVING

- A. Trench Excavation. Trenching for pipe and service tubing shall be in open cut unless otherwise permitted by the CCWD. Existing pavement shall be cut with a pavement saw. Existing vegetation shall be preserved and protected. Tree roots over 2 inches in diameter shall not be cut or otherwise damaged. In unpaved areas topsoil shall be removed, stockpiled, and replaced after completion of trench backfilling. Work shall be performed to minimize disruption of traffic and so as not to obstruct driveways and other access roadways. Excavation shall be to a minimum depth of 4 inches below the pipe grade to accommodate the pipe bedding material. All pipe and service tubing shall be bedded in a 4 inch thick layer of sand.
- B. Trench Backfill:
1. Pipe Zone Backfill. Backfilling work shall not begin until the CCWD has completed its inspection of the piping work. All pipe and service tubing shall be backfilled with sand to a depth of 12 inches over the pipe. The sand shall be compacted to a minimum relative compaction of 95%.
 2. Upper Level Backfill:
 - a. Public Right of Way Areas. Backfilling shall conform to the requirements of the agency having jurisdiction over the right of way area which for this project is the City of Half Moon Bay.
 - b. Non-Public Right of Way Areas. Under paved areas, backfill with structure backfill material compacted to a minimum 95% relative compaction. Under unpaved areas backfill with suitable excavated material compacted to a minimum 90% relative compaction.
- C. Trench Repaving:
1. Public Right of Way Areas. Conform to the requirements of the agency having jurisdiction over the right of way area which for this project is the City of Half Moon Bay.
 2. Non-Public Right of Way Areas. Repave to restore paved area to a condition equal or better than that which existed prior to start of work including restoration of gravel, crushed rock or oiled surfaces.
 3. Steel Traffic Plates. Contractor shall have available in the vicinity of the job site a sufficient number of steel traffic plates to cover 20 linear feet of trench. These plates shall be utilized as required to maintain traffic flow in streets, allow access to driveways and similar private roadways, and for passage of emergency vehicles. Normally all trenches shall be backfilled at the completion of each work day and temporary asphalt concrete paving installed in all areas which had existing pavement including sidewalks.
 4. Disposal of Excavated Materials. Excess and unsuitable materials shall be disposed of off the site in conformance with the requirements of regulatory agencies.
 5. Curb, Gutter and Sidewalk. All damaged areas shall be replaced with new materials.

- a. Public Right of Way Areas. Work shall be performed in conformance with the requirements of the agency having jurisdiction over the right of way area which for this project is the City of Half Moon Bay.
- b. Non-Public Right of Way Areas. In privately owned areas restoration shall be to a condition equal or better than that which existed prior to start of work.

3.05 PIPING GENERAL REQUIREMENTS

A. Location:

1. Pipelines. Pipelines shall be installed true to line and grade as shown on the project drawings. Buried pipelines shall be installed at a continuously sloping grade between points of given elevation without low or high points. If high points cannot be avoided, an air release valve assembly shall be provided. Location of the pipeline may be modified by the CCWD to clear obstructions. Depth of cover over the pipeline to finish grade shall be as shown on the Improvement Plans.
2. Service Connection Tubing. Tubing shall be installed at a continuously sloping grade upward from the connection point with the water pipeline to the water meter box without low or high points. Tubing shall be installed with a minimum depth of cover of 30 inches unless otherwise permitted by the CCWD.

- #### B. Handling.
- Pipe and service tubing shall be handled carefully to prevent damage. Pipe and service tubing shall be plugged at the end of each work day and at other times as required to prevent the entry of water or foreign material.

- #### C. Trench Conditions.
- Pipe and service tubing shall have a full, even bearing on the top of the trench bedding material. All piping shall be laid in the dry; the Contractor shall dewater the trench as required. Piping ends shall be clean when joints are made.

- #### D. Clearance Distances of Water Pipelines from Other Underground Utilities and Facilities.
- Water pipelines and service tubing shall be installed with the following minimum clearances from other underground utilities:

1. Electrical Wires or Conduits, Storm Drains, Telephone Conduits, Cable TV Wires or Conduits, Other Utilities, and Other Facilities. Minimum horizontal clearance shall be 4 feet; minimum vertical clearance shall be one foot.
2. Sanitary Sewers Including House Laterals. Minimum horizontal clearance shall be 10 feet; minimum vertical clearance shall be one foot. Water pipelines shall pass over sanitary sewers where feasible. The Contractor shall provide written documentation to the CCWD for each instance where a sanitary sewer line is passing over a water pipeline.

- E. Thrust Restraints. All piping shall be adequately braced against thrust. Buried pipe shall be provided with concrete thrust blocks in conformance with the CCWD Standard Installation Details. Concrete thrust blocks are required for restrained joint type pipe fittings.
- F. Connections to Existing Water Pipelines. Connections of new water pipelines to existing water pipelines shall be made in a manner which does not require taking the existing water pipeline out of service. Where required, connections shall be made by the "hot tap" method. It shall be the responsibility of the Contractor to verify by actual field measurement all existing site conditions including the size and type of the existing pipeline prior to ordering the tapping sleeve and tapping valve for the hot-tap connection.
- G. Fire Hydrant Guard Posts. Guard posts (bollards) shall be installed at all fire hydrants not protected by curbing and at locations with curbing where in the opinion of the District the fire hydrant is not adequately protected from vehicle traffic. The number and location of required guard posts will be determined in the field by the District. The posts shall be installed 3 feet into the ground using concrete encasement. Following installation the interior of the pipe shall be filled with concrete.
- H. Leakage Test. All piping shall be tested for leakage in conformance with the requirements specified for each type of pipe. The Contractor shall provide all materials and labor required for the leakage test including the pump, pressure gauge, corporation stops, and temporary plugs and thrust blocks. The procedure shall be to (1) fill the pipeline with water to the required test pressure, (2) disconnect the test pump hose and wait for the duration of the test period to elapse, (3) reconnect the test pump and measure the volume of water required to re-establish the test pressure. Following completion of the test the Contractor shall dispose of the leakage test water in conformance with NPDES regulations. It shall be the Contractor's responsibility to block off during the testing all piping appurtenances which may be damaged by the test pressure and to provide suitable thrust restraints. Leakage testing shall be witnessed by the District.
- I. Disinfection and Bacteriological Testing:
 - 1. General. All piping systems conveying potable water shall be disinfected. Disinfection shall be in conformance with AWWA Standard C651 except as otherwise required by this document. The Contractor shall provide all materials and labor required for the disinfection process and shall dispose of the disinfection solution in conformance with NPDES requirements including dechlorination.
 - 2. Procedure:
 - a. Preliminary Preparation. The system shall be flushed with water to remove and dirt introduced into the piping during construction

operations. All service outlets and fire hydrants shall be opened and the flushing operations continued until clear water flows from each outlet (Note: flushing shall be deferred until after completion of the disinfection process if tablets have been placed in the pipeline during the construction for disinfection).

- b. Introduction of Disinfection Agent. The disinfection agent may be any chlorine compound approved by AWWA C651. The disinfection agent shall be injected slowly and continuously into the system until tests indicate a chlorine residual concentration of at least 25 mg/L at each pipeline outlet. All outlets shall then be closed and this condition maintained for 24 hours.
- c. Preliminary Tests. After 24 hours tests shall be made for residual chlorine at each pipeline outlet. The minimum acceptable concentration shall be 10 mg/L. If the concentration is less than 10 mg/L, the disinfection procedure shall be repeated. If the concentration at each outlet is over 10 mg/L, the system shall be flushed out until a test at each outlet indicates a chlorine residual of less than 1.0 mg/L.
- d. Bacteriological Analyses. The CCWD will obtain samples from the piping being disinfected and have bacteriological analyses performed by a State certified laboratory. The number of samples taken shall conform to AWWA C651 (unless otherwise permitted by the District) and State Department of Health Services requirements. Costs of bacteriological analyses shall be paid by the Contractor.
- e. Final Approval. The requirement for final approval is that each water sample analyzed shall be in conformance with State disinfection requirements. If all bacteriological analyses are not in conformance with these requirements the disinfection procedure shall be repeated.
- f. Disinfection by Spraying or Swabbing. Water piping installations which cannot be disinfected using the procedure described above shall be disinfected by spraying or swabbing the pipeline interior with a minimum 1% chlorine solution immediately prior to installation.

3.06 DUCTILE IRON PIPE INSTALLATION

- A. General. Pipe installation shall be in conformance with Sections 1 through 3 of AWWA Standard C600 except as otherwise required by this Specification section. Pipe installation shall also be in conformance with the recommendations of the manufacturers of the pipe and fittings.
- B. Handling. Pipe shall be handled using pipe slings. Use of a forklift will not be permitted. Pipe ends shall be kept clean and shall be plugged at the end of each day's work or when pipe is not being laid to prevent the entry of water or foreign material.

- C. Restrained Joints and Concrete Thrust Blocks. All pipe joints shall be restrained using the materials described in Part 2 of this Specification section and also with a concrete thrust block.
- D. Pipe Taps. Pipe taps will be permitted in accordance with the following schedule:

Pipe Tap Schedule

<u>Pipe Diameter</u>	<u>Maximum Tap Size</u>	
	<u>Without Saddle</u>	<u>With Saddle</u>
4"	3/4"	2-1/2"
6"	1-1/4"	2-1/2"
8"	1-1/2"	2-1/2"
10" and larger	2"	2-1/2"

If the piping connection of larger pipes than permitted for taps is required, standard tee fitting shall be utilized.

- E. Maximum Pipe Joint Deflection. Special care shall be taken so as not to exceed the manufacturer's recommendations for joint deflection. For bends exceeding the applicable deflection, fittings shall be installed.
- F. Polyethylene Encasement. All ductile iron piping including pipe, fittings, valves and piping appurtenances shall be polyethylene encased. Installation shall be in conformance with either Methods A or B of AWWA Standard C105. The polyethylene encasement shall prevent contact between the piping and the surrounding backfill and bedding material but is not intended to be a completely airtight or watertight enclosure. Overlaps shall be secured by the use of adhesive tape furnished with the polyethylene encasement.
- G. Leakage Test. All ductile iron piping shall be tested for leakage for a duration of 2 hours at a test pressure of 250 psi. Allowable leakage for below grade piping shall not exceed the following:

<u>Pipe Diameter</u>	<u>Allowable Leakage per 1000 Linear Feet of Pipe During the 2 Hour Test Period</u>
4"	0.47 gallons
6"	0.71 gallons
8"	0.95 gallons
10"	1.19 gallons

3.07 COPPER SERVICE TUBING INSTALLATION

- A. Installation. Installation of copper tubing including jointing shall be in conformance with the recommendations of the manufacturers of the tubing and fittings.
- B. Leakage Test. Copper tubing shall be hydrostatically tested for leakage at 250 psi for a 2 hour duration test period. No leakage will be permitted.

3.08 INSTALLATION OF VALVES AND OTHER PIPING ACCESSORIES

- A. Installation of valves and other piping accessories shall be in conformance with the recommendations of the manufacturer of the product and in conformance with the District Standard Installation Details. A valve box shall be provided for each below grade valve. The Contactor shall demonstrate to the satisfaction of the District the proper performance of each piping accessory prior to project acceptance.
- B. Air Relief Valve Assemblies. An air relief valve assembly shall be installed at each pipeline high point where in the opinion of the CCWD entrapment of air could occur. The known locations where air relief valves are required are shown on the project Drawings. During construction, if additional pipeline high points are created which in the opinion of the CCWD could result in air entrapment, an air relief valve shall be installed at each of these additional locations.
- C. Tapping Sleeve and Valve Installation. Installation of tapping sleeves and tapping valves shall be performed only by CCWD-approved contractors. The only currently approved tapping contractor is DC Tapping.

3.09 FIRE HYDRANT GUARD POSTS

- A. The number of guard posts (bollards) to be installed and their location will be determined in the field by the CCWD. Each post shall be installed 3 feet into the ground using concrete encasement, and following installation the post shall be filled with concrete.

3.10 SERVICE CONNECTION INSTALLATION

- A. Piping for Water Meter Installation. The piping for the water meter installation shall be constructed at a sufficient depth below grade to allow sufficient space for installation of the water meter and its automatic metering reading head. The required distance will vary depending on the size of water meter. CCWD personnel will provide the Contractor with the required information. Water meter boxes shall be located with the following horizontal clearance distances: (1) minimum of 10 feet from sanitary sewer laterals, (2) minimum of 5 feet from other utility service boxes. Water meter boxes shall not be located within driveways
- B. Irrigation Service Connections. Irrigation service connections where shown on the project drawings shall consist of both an irrigation water meter service connection and a backflow prevention device.

3.11 AS-BUILT DRAWINGS

- A. Prior to project acceptance, the Contractor shall provide the District with a set of the project drawings marked for As-Built conditions. The as-built markings shall include the following (1) all changes made to the project drawings during construction, (2) field measurements locating the actual location of the pipeline horizontally from property corners and other surface facilities, (3) horizontal distance of each valve from a minimum of 2 permanent surface facilities such as utility poles, curb and gutter, etc., (4) depth of cover for the pipeline at all locations, as constructed, and (5) the locations of all underground facilities encountered during construction including horizontal location and depth of cover. In addition, documentation shall be provided describing each location where a sanitary sewer pipeline passes over a water pipeline.

3.12 CCWD STANDARD INSTALLATION DETAILS AND SPECIAL INSTALLATION DETAILS

- A. General. Installation of piping and appurtenances shall be in conformance with CCWD Standard Installation Details and special installation details prepared by the CCWD for the project. If there are conflicts between the CCWD Standard Installation Details and the project Improvement Plans, conflict resolution shall be performed by the CCWD.
- B. Standard Installation Details. Details known to be required for the project are shown on the project drawings.
- C. Special Installation Details. There are no special installation details known to be required for this project. If required, special installation details will be prepared by the District and provided to the Contractor.

END OF WRITTEN DOCUMENT

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David R. Dickson, General Manager

Agenda: July 12, 2016

Date: July 5, 2016

Subject: Approval of Water Service Agreement - Churchside Court Subdivision

Recommendation:

Approve the attached Water Service Agreement between Coastside County Water District and Churchside Court LLC for construction of a pipeline extension along Church Street, in Half Moon Bay.

Background:

The attached Water Service Agreement provides for construction of the water utility system that will serve the twelve (12) newly created parcels along Church Street in Half Moon Bay. The project consists of approximately 600 linear feet of 6" diameter pipeline along Church Street.

Fiscal Impact:

None. All costs for engineering review, construction inspection, meter installation, administrative support, and other District activities associated with providing water service for the subdivision are paid by the applicant.

WATER SERVICE AGREEMENT

CHURCHSIDE COURT LLC / PHASE 2 CHURCH STREET PIPELINE EXTENSION PROJECT

THIS AGREEMENT is made as of this ____ day of _____, 2016, between COASTSIDE COUNTY WATER DISTRICT ("District"), and CHURCHSIDE COURT LLC (collectively, the "Applicant").

THE PARTIES AGREE AS FOLLOWS:

1. RECITALS

This Agreement is entered into with regard to the following facts and circumstances.

A. District is a public corporation organized under the provisions of the California Water Code and is engaged in the storage, transmission and sale of water for domestic purposes within San Mateo County.

B. Applicant is the owner of real property located within the geographic limits of the District known as Assessor Parcel Number (APN) 056-150-120 and APN 056-150-010 in the City of Half Moon Bay, State of California (collectively, the "Property"), which is shown on Exhibit A. A subdivision of these APN's is in the process of being completed with the City of Half Moon Bay and the County of San Mateo.

C. Applicant does not have any uninstalled water service connections assigned to these parcels. There is currently one 5/8" Pre-Crystal Springs Project installed meter that served APN 056-150-120 and will be reassigned to one of the newly created parcels.

D. Applicant has requested the installation of the following: (1) a 6-inch pipeline extension approximately six hundred (600) feet in length; (2) twelve three-quarter inch domestic service connections; (3) twelve fire service connections; (4) fire hydrant; and all related appurtenances (collectively, the "Project"). Applicant represents and warrants that Applicant has obtained any and all permits and approvals necessary to construct the Project on the Property, including a Coastal Development Permit.

2. APPROVAL OF PROJECT UTILITY SYSTEM

The Project Utility System, as defined below, shown on and described in the plans prepared by Sigma Prime Geosciences, Inc., dated August 17, 2015 (collectively, the "reviewed submittal documents") are approved. Copies of the reviewed submittal documents are incorporated herein by this reference as Exhibit B.

"Project Utility System" means the water mains, service lines, fittings, valves and housing thereof, fire hydrant, manholes, and all appurtenances thereto, as depicted and described in the reviewed submittal documents. The Project Utility System does not include the water mains on the Applicant side of the meter or the backflow prevention devices, all of which will be owned and maintained by Applicant.

3. INSTALLATION

A. Applicant shall commence installation of the Project Utility System no later than three (3) months, subject to extension for force majeure events not the fault of Applicant, after the date of this Agreement and shall complete its installation within twelve (12) months after the date of this Agreement. If installation is not commenced or completed by such dates, the District may terminate this Agreement, unless the delay is solely attributable to events, such as fire, flood or earthquake, which are beyond the control of, and not the fault of, Applicant.

B. Applicant shall install the Project Utility System in accordance with (1) the location and sizes shown on the reviewed submittal documents identified in Section 2; (2) the District's "Standard Specifications and Construction Details," a copy of which has previously been furnished to Applicant; and (3) the further reasonable directions of the District Engineer.

4. SUBMITTAL OF PROPOSAL FOR REVIEW AND APPROVAL BY DISTRICT.

Applicant is responsible for obtaining a proposal for construction of the Project from a licensed, qualified contractor to construct the Project ("Proposal"). The contractor shall possess a valid California Contractor's License (Class A or C34). The contractor shall have satisfactorily completed construction of a minimum of 5 similar pipeline projects, and shall, if requested, submit a list of these projects together with the telephone number of the owner's representative who can be contacted regarding the work. Prior to commencement of construction, Applicant shall furnish a copy of the Proposal, along with evidence satisfactory to the District that the

contractor possesses the necessary license and experience to construct the Project Utility System.

5. INSPECTION; CONSTRUCTION

A. Prior to commencing construction, Applicant shall furnish to the District Engineer, at Applicant's expense, a report by a competent soils engineer or soils laboratory indicating that the compaction of the fills within which said facilities are to be installed is at least equal to ninety-five percent (95%) compaction, as that phrase is defined in the latest edition of the Standard Specifications, State of California, Department of Transportation, or meets such other criteria as the District Engineer may prescribe.

B. Applicant shall notify District in writing at least ten (10) days in advance of the proposed starting date for construction and shall not commence construction unless the District Engineer or other authorized District inspector is at the site of the work when construction begins. District agrees to make the District Engineer or other authorized District inspector available to be on site, provided the ten (10) days advance notice is given by Applicant. If construction is not continuous, District shall be notified at least forty-eight (48) hours in advance of the resumption of construction. Any work performed without notice to District may be rejected by District on that ground alone. The District Engineer will observe and inspect facilities solely to protect the interests of the District and to determine whether the completed work is acceptable to District and can be incorporated into the District system. The District does not assume thereby any responsibility for the operations or safety practices of Applicant. Applicant is responsible for correct location of all facilities which it installs. The District Engineer will not inspect facilities installed "downstream" of the individual meter boxes.

C. Applicant shall permit District's employees and authorized representatives to inspect the Project Utility System, and the plans and materials therefore, at any reasonable time before, during, or after installation.

D. Applicant shall repair at its expense (or, at the option of District, shall reimburse District for the actual cost of repairs effected by it) any damage to District property caused by Applicant, its agents, employees, or contractors in constructing the Project Utility System.

6. PAYMENT OF FEES AND CHARGES

The Applicant will pay applicable fees and charges as follows:

A. Transmission and Storage Fees. None Due at this time. Applicant will be purchasing and/or transferring water service connections at a later time.

B. Water Meter and Water Meter Installation Fees. None Due. Applicant will be billed separately for actual cost of the required meters at the time of plan review and meter installation for each parcel.

C. Initial Filing Fee. None due. The District acknowledges receipt of a non-refundable initial filing fee in the amount of \$250.

D. Plan Check and Construction Inspection Fees. The Applicant is required to deposit the sum of Four Thousand Dollars and No Cents (\$4,000.00), which is the cost estimate for the District staff and Engineer's costs in preparing and reviewing final plans, inspecting the construction of the Project Utility System, modifications of water system maps, and administrative, legal, and auditing costs. A final accounting will be performed prior to acceptance of the Project Utility System. Applicant shall pay additional fees if the deposit does not cover District costs for providing these services.

E. Total Payment Due with Agreement. The amount of four thousand dollars and no cents (\$4,000.00).

7. BONDS

Prior to commencement of construction, Applicant shall furnish to District the following bonds:

A. A Payment Bond in the amount of 100% of the Proposal amount, to guarantee payment of the obligations referred to in Section 3248 of the Civil Code;

B. A Performance Bond in the amount 100% of the Proposal amount, to guarantee faithful performance of the terms of this Agreement; and

C. A Maintenance Bond in the amount of 10% of the Proposal amount, to guarantee against defective materials and faulty workmanship for a period of two (2) years from and after the acceptance of the Project Utility System by District.

The bonds shall be in a form satisfactory to District. The surety or sureties must be qualified to do business in California. If any of the sureties, in the sole opinion of District, is or becomes irresponsible, District may require other or additional sureties which Applicant shall furnish to the satisfaction of District within ten (10) days after notice from District. In default thereof, District shall be released from all obligations under this Agreement. No prepayment or delay in payment and no change, extension, addition, or alteration or any provision of this Agreement or in the approved submittal documents referred to in Section 2, above, and no forbearance or acceptance by or on the part of District shall operate to release any surety from liability on a bond.

8. INDEMNITY

A. District shall not be responsible or held liable in any manner whatsoever for any injury or damage which may be done to any person or property (or other loss or liability) arising from the performance or failure to perform the obligations set forth in this Agreement and the installation of the Project Utility System by or on behalf of Applicant.

B. Applicant, on its behalf and on behalf of its successors in interest, hereby agrees to waive any claims against District arising from or related to the events and activities described in Subsection A, above, and to indemnify, defend and hold harmless the District, its directors, officers, employees, and agents from and against any and all liability for the death of or injury to any person and for the loss of, or damage to, any property (including the loss of its use) which may arise from such events and activities. The agreements contained in this paragraph shall survive the performance of the remainder of this Agreement and shall remain in full force and effect notwithstanding such performance.

9. INSURANCE

A. Applicant or its construction contractor shall, at its cost, maintain in full force and effect during the period beginning with commencement of construction of the Project Utility System and terminating no earlier than thirty (30) days after completion thereof and

approval by District for its connection with the District's distribution system, a policy or policies of liability insurance, as follows:

1. Bodily and personal injury liability in an amount not less than One Million Dollars (\$1,000,000.00) per person and Two Million Dollars (\$2,000,000.00) per occurrence; and

2. Property damage insurance in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence.

Such policies shall insure District as an additional insured against any and all liability for the death of or injury to any person and for the loss of or damage to any property which may arise by reason of acts done or omitted to be done as a result of the installation of the Project Utility System by or on behalf of Applicant and shall further insure District against any and all costs and expenses, including attorney's fees, which District may incur in resisting any claim which may be made against District for any such injury or damage.

B. Each such policy shall:

1. be issued by an insurance company or companies qualified to do business in California and approved in writing by District;

2. name District, its Directors, officers, agents and employees, as additional insureds;

3. specify that it acts as Primary Insurance; the insurer being liable thereunder for the full amount of any loss up to and including the total limit of liability without right of contribution from any insurance effected by District;

4. provide that the policy shall not be cancelled or altered without thirty (30) days' prior written notice to District (or Applicant shall provide this written notice to the District); and

5. Otherwise be in form reasonably satisfactory to District.

C. Applicant or its contractor shall provide, and maintain at all times during the course of installation of the Project Utility System, Worker's Compensation Insurance in conformance with the laws of the State of California. Such policy shall provide that the

underwriter thereof waives all right of subrogation against District by reason of any claim arising out of or connected with installation of the Project Utility System and that such policy shall not be cancelled or altered without thirty (30) days' prior written notice to District.

D. Copies of all policies required above (or Certificates of Insurance satisfactory to District) shall be delivered to District at least ten (10) days prior to commencement of construction of the Project Utility System.

10. CONVEYANCE OF TITLE TO PROJECT UTILITY SYSTEM

Full right, title and interest in and to all elements of the Project Utility System installed pursuant hereto will be granted to District upon written notice of acceptance thereof by District and without the necessity for any further action by Applicant. There shall be no obligation upon District to pay or reimburse to Applicant any part of the cost of Project Utility System. Applicant warrants that upon such passage of title to District, the title shall be free and clear from any and all mechanics and materialmen liens that could arise from construction of the Project Utility System, charges and encumbrances whatsoever. The water meters described in Section 2, above, are and will remain the property of District.

11. ACCEPTANCE BY DISTRICT

District shall accept the Project Utility System when all of the following conditions have been met: (1) completion of the Project Utility System; (2) certification by Superintendent and or Superintendent of Operations upon completion that the Project Utility System has been constructed in accordance with this Agreement; (3) furnishing by Applicant of evidence that it has paid all costs incurred in constructing the Project Utility System; (4) performance by Applicant of all of its obligations under this Agreement which are to be completed prior to acceptance of the Project Utility System, including payment of all sums due the District; and conveyance of all easements; and (5) furnishing by Applicant of two sets of non-ammonia-type Mylar reproducible drawings of the completed improvements showing "as-built" conditions.

Upon acceptance, and payment for the cost of meter installation, District shall provide water utility service to the Project.

Upon acceptance, Applicant shall be relieved of all future obligations to maintain the Project Utility System, subject to its obligation to repair defects, which obligation is secured

by the maintenance bond provided for in Section 6.C., for the duration of the term of such bond (i.e., two years after acceptance).

12. EXECUTION AND PERFORMANCE OF AGREEMENT

Execution of this Agreement is a condition precedent to issuance by District of any letters, approvals, consents, or communications to any state, municipal, local or other public bodies regarding the availability of water service to the Property from the Project. Full performance of and compliance with each and every term of this Agreement by Applicant is a condition precedent to water service by District.

13. DISTRICT REGULATIONS

Applicant shall at all times abide by and faithfully observe any and all District ordinances, resolutions, rules and regulations presently in effect, including current fee schedules, or which may hereafter be enacted or amended from time to time, including but not limited to *Regulations Regarding Water Service Extensions and Water System Improvements; Engineering and Construction Standards; Approved Materials* (codified through Resolution No. 2003-11, March 2004), a copy of which has previously been furnished to Applicant.

14. ASSIGNMENT

Applicant's rights under this Agreement may be assigned only in connection with a sale or conveyance of the Property. No such assignment shall be valid or binding on the District unless the assignee executes a written instrument, in form and substance satisfactory to District, assuming all of Applicant's obligations under this Agreement, which have not been fully performed as of the date of assignment. Such assignment shall not release Applicant from any of its obligations to District under this Agreement.

This Agreement shall be binding upon and shall inure to the benefit of the parties and their successors and permitted assigns. If the Applicant or a permitted successor or assign shall disincorporate, forfeit its articles or right of incorporation, or otherwise fully terminate without a successor or assign, District shall as of the date of disincorporation, forfeiture or termination own the Project Utility System free and clear of any obligation to any party.

15. NOTICE

Any notice required by this Agreement shall be satisfied by a notice in writing, either delivered personally or sent by regular or certified mail, postage prepaid, and addressed as follows:

District: Attention: David R. Dickson, General Manager
Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019

Applicant: Cameron Jeffs
Churchside Court LLC
6 Ashdown Place
Half Moon Bay, CA 94019

16. CONSTRUCTION OF AGREEMENT

Both parties have participated in preparing this Agreement. This Agreement shall be construed reasonably and not in favor of or against either party hereto on the grounds that one party prepared the Agreement.

17. ENTIRE AGREEMENT

This Agreement, including the Exhibits which are hereby incorporated by reference, contains the entire agreement between the parties hereto. No oral understandings, statements, promises or inducements contrary to the terms of this Agreement exist.

18. APPLICABLE LAW

This Agreement shall be governed by and construed and enforced in accordance with and subject to the laws of the State of California. Except as expressly provided for herein, this Agreement is not intended to, and does not, modify the District's rights to exercise the legislative discretion accorded to it by the laws of California. Any lawsuit related to this Agreement shall be commenced and prosecuted in the County of San Mateo, State of California.

19. AMENDMENT

Any amendment hereof, including any oral modification allegedly supported by new consideration, shall not be effective unless reduced to a writing signed by both parties.

20. AUTHORIZED SIGNATURE

The individuals whose names are subscribed to this Agreement represent that they are authorized to act on behalf of the party for whom they sign.

21. TIME

Time is of the essence of the Agreement.

IN WITNESS WHEREOF the parties hereto have executed this Agreement as of the day and year first above written.

**DISTRICT:
COASTSIDE COUNTY WATER DISTRICT**

**APPLICANT:
CHURCHSIDE COURT, LLC**

By: _____
President, Board of Directors

By: _____

By: _____
Secretary

14

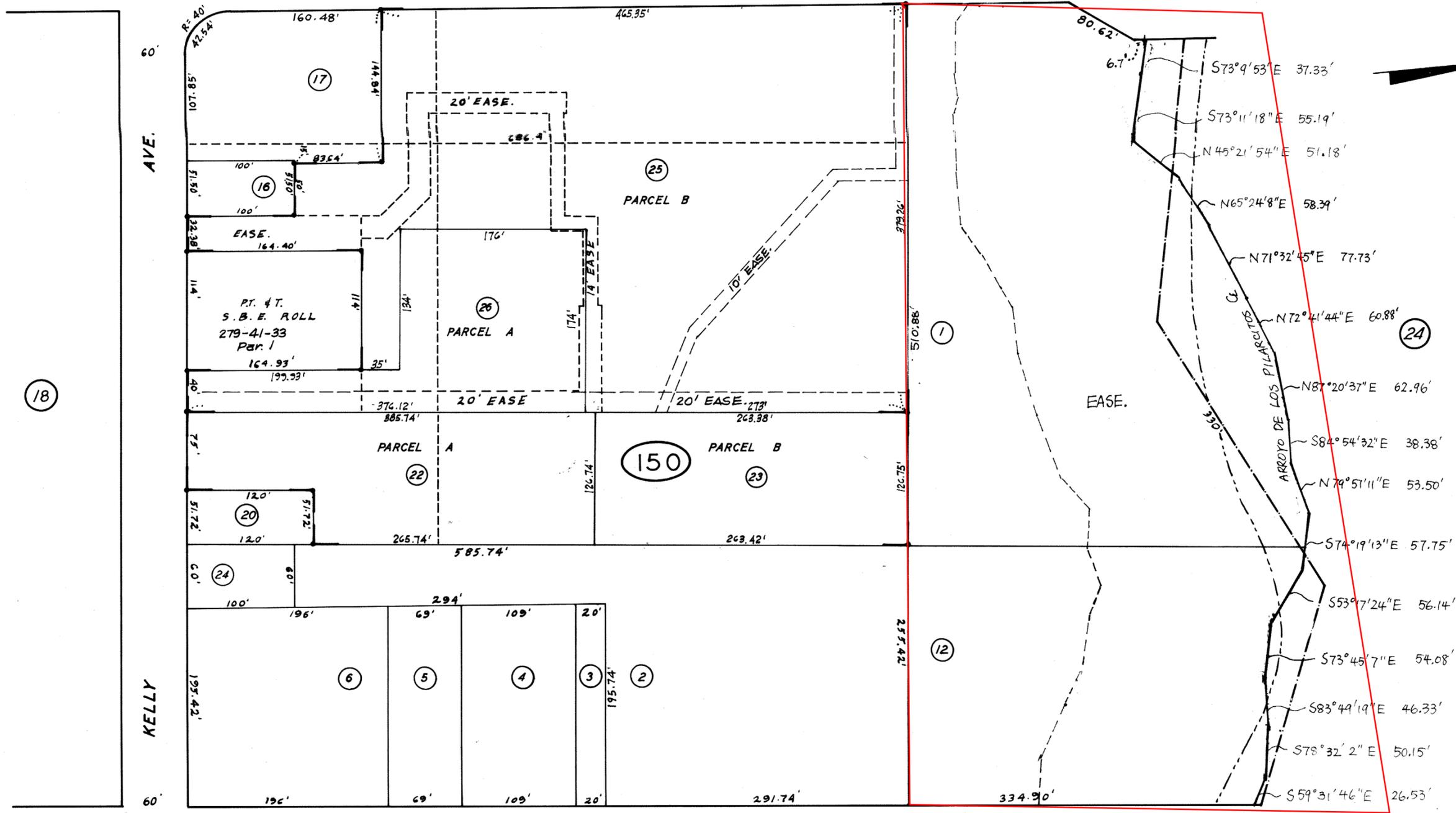
TAX CODE AREA

EXHIBIT A

56-15

COAST

HWY.



18

60' AVE. KELLY

60'

CHURCH

ST.

SPANISH

TOWN

MILL ST.

- △ PARCEL MAP VOL 55/33-34
- △ PARCEL MAP VOL 52/77-78

CITY OF HALF MOON BAY

SHEET INDEX

- C-1 TITLE SHEET
- C-2 ROAD AND DRAINAGE PLAN
- C-3 GENERAL DETAILS
- C-4 PROPERTY MAP
- C-5 EROSION CONTROL PLAN
- C-6 OFF-SITE STREET IMPROVEMENTS
- U-1 UTILITY PLAN
- U-2 SEWER DETAILS AND NOTES
- U-3 WATER DETAILS
- U-4 PG&E DETAIL AND NOTES

GENERAL NOTES

1. PLANS PREPARED AT REQUEST OF:
CAMERON JEFFS
413 MAIN STREET, SUITE A
HALF MOON BAY, CA 94019
2. ELEVATION DATUM: NGVD88.
3. CONTOUR INTERVAL IS 1 FOOT.
4. SITE SURVEYED BY SIGMA PRIME GEOSCIENCES.
5. THIS IS NOT A BOUNDARY SURVEY.

SIGNATURE BLOCK

WATER DISTRICT	PRINTED NAME:	SIGNATURE:	DATE:
FIRE DISTRICT	PRINTED NAME:	SIGNATURE:	DATE:
CITY ENGINEER	PRINTED NAME:	SIGNATURE:	DATE:
GEOTECHNICAL ENGINEER	PRINTED NAME:	SIGNATURE:	DATE:

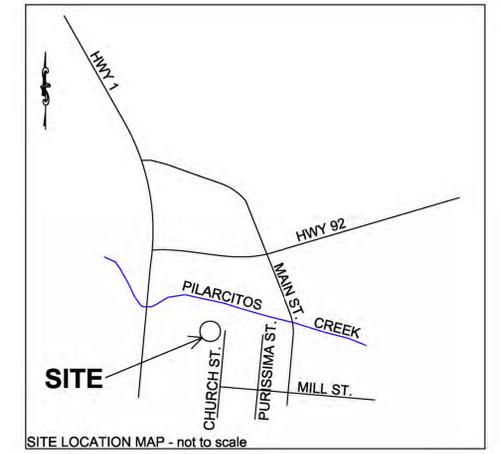
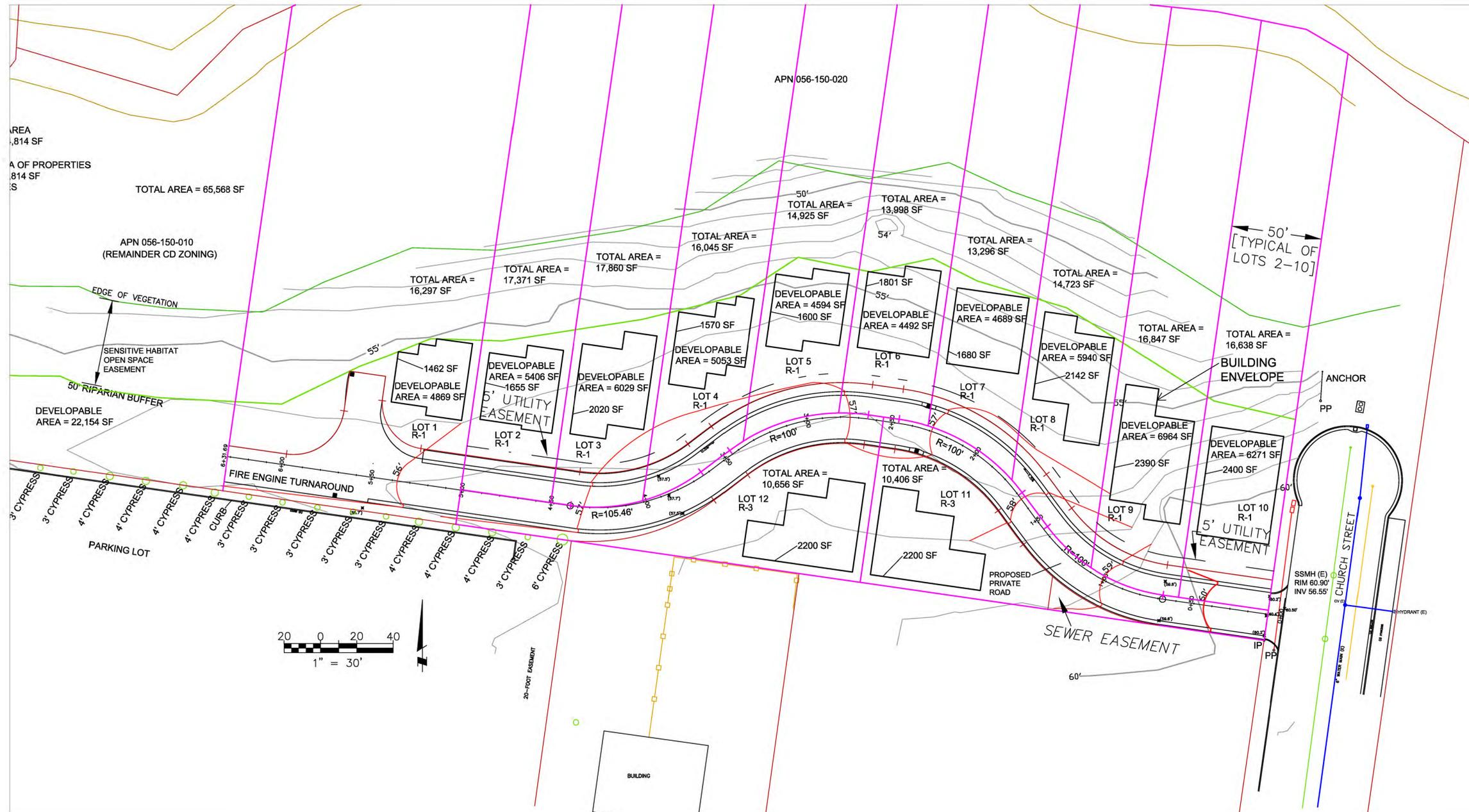


EXHIBIT B



Sigma Prime Geosciences, Inc. SIGMA PRIME GEOSCIENCES, INC. 332 PRINCETON AVENUE HALF MOON BAY, CA 94019 (650) 728-3990 FAX: 728-3993	
DATE: 8-17-15	DRAWN BY: CMK
REV. DATE:	CHECKED BY: AZG
REV. DATE:	REV. DATE:
REV. DATE:	REV. DATE:
REV. DATE:	REV. DATE:

TITLE SHEET
CHURCHSIDE COURT
CONSTRUCTION

SHEET
C-1

LEGEND

- 60.12' X EXISTING SPOT ELEVATION
- (57.1') X PROPOSED SPOT ELEVATION
- EXISTING 1' CONTOUR
- PROPOSED 1' CONTOUR
- SURFACE DRAINAGE FLOW
- E EXISTING
- N NEW, OR PROPOSED
- SSMH SANITARY SEWER MANHOLE
- SS SEWER MAIN
- INV INVERT
- AC ASPHALT

GENERAL NOTES

1. PLANS PREPARED AT REQUEST OF: CAMERON JEFFS, 6 ASHDOWN PLACE, HALF MOON BAY, CA 94019
2. ELEVATION DATUM: NGVD88.
3. CONTOUR INTERVAL IS 1 FOOT.
4. SITE SURVEYED BY SIGMA PRIME GEOSCIENCES.
5. THIS IS NOT A BOUNDARY SURVEY.

EARTHWORK NOTES

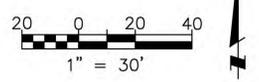
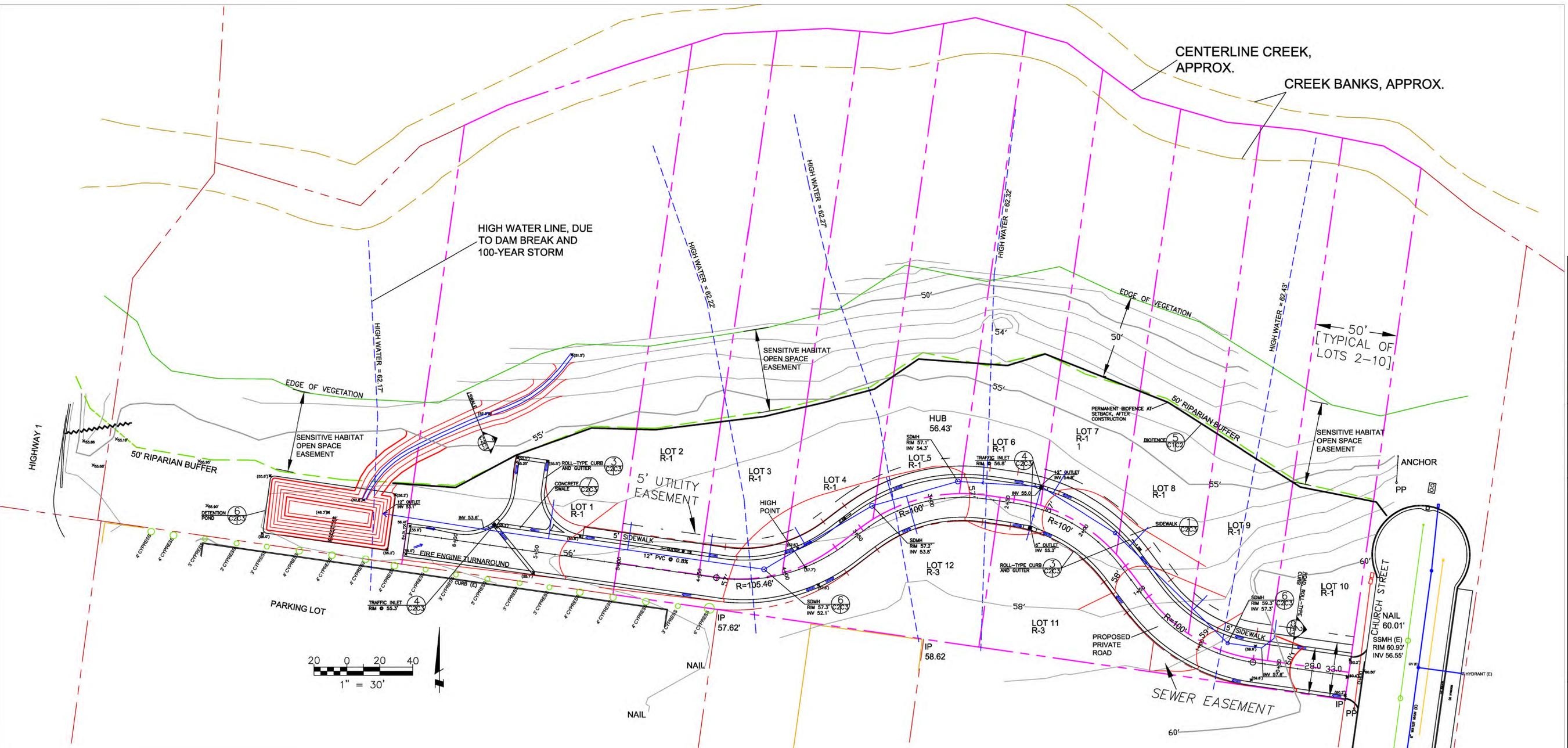
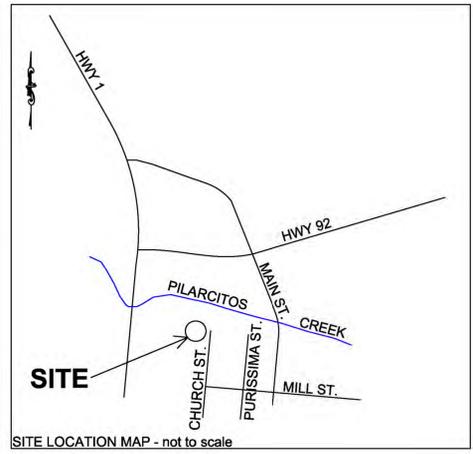
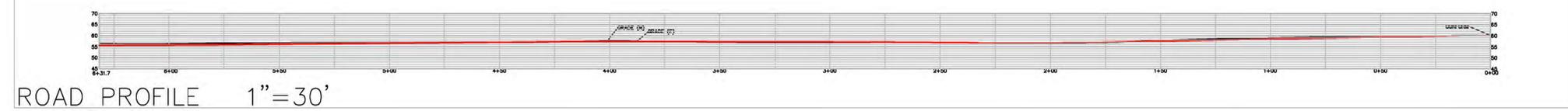
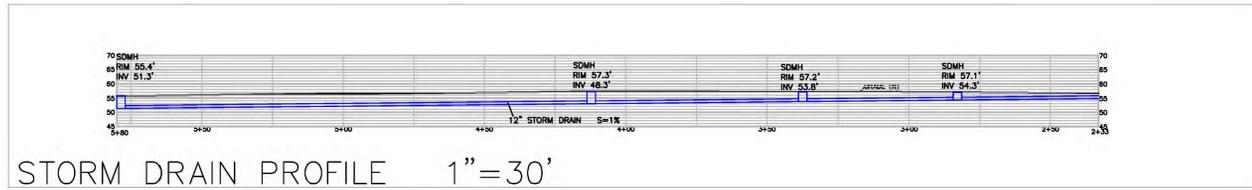
CUT VOLUME : 530 CY (ESTIMATE, BASED ON 1-FOOT STRIPPING DEPTH BELOW ASPHALT, EXCAVATION FOR OIL/WATER SEPARATORS AND TRENCHES.)
 FILL VOLUME : 265 CY (6" CLASS 2 BASE ROCK BELOW ASPHALT AND CONCRETE)
 LENGTH OF IMPROVED ROAD = 659.70 FT
 WIDTH OF NEW ROAD = 26.0 FT (BETWEEN BACKS OF ROLL-TYPE CURBS)
 AREA OF PROPOSED ASPHALT = 17,152 SF
 ROAD SUBGRADE SHALL BE SCARIFIED AND COMPACTED TO 90% PRIOR TO PLACING BASE ROCK.
 REMOVE ALL ASPHALT, SHRUBS, PLANT DEBRIS, AND ORGANIC SOIL PRIOR TO PLACING BASE ROCK.

DRAINAGE NOTES

ROAD TO BE SLOPED TO SHED RUNOFF AS SHOWN IN PLAN VIEW AND SECTION:
 CROSS SLOPE SHALL BE A MINIMUM OF 1%.
 RUNOFF FROM ROAD TO BE DIRECTED TO CATCH BASINS, AS SHOWN.

FLOOD ELEVATION NOTES

OIL/WATER SEPARATOR REQUIRED AFTER CATCH BASINS. SEE DETAIL 4.
 HIGH WATER LINES SHOWN ON PLAN ARE BASED ON STUDY BY BALANCE HYDROLOGICS, INC.
 HIGH WATER LINES ARE BASED PEAK FLOW FROM ON FAILURE OF PILARCITOS DAM, COMBINED WITH PEAK FLOW DURING A 100-YEAR STORM.



DATE: 1-28-11
 DRAWN BY: CMK
 CHECKED BY: AZG
 REV. DATE: 4-23-12
 REV. DATE: 9-24-12
 REV. DATE: 9-10-13
 REV. DATE: 2-6-15
 REV. DATE: 4-6-15
 REV. DATE: 4-29-15
 REV. DATE: 8-17-15

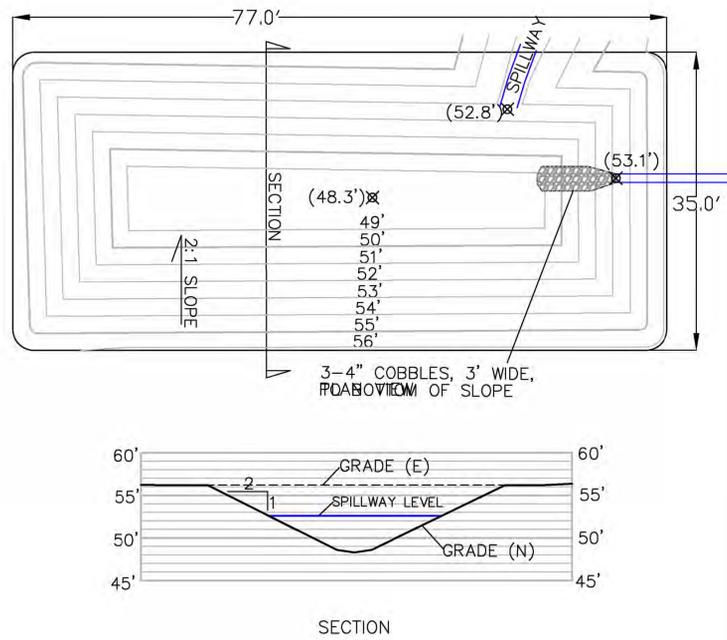
Sigma Prime Geosciences, Inc.
 SIGMA PRIME GEOSCIENCES, INC.
 332 PRINCETON AVENUE
 HALF MOON BAY, CA 94019
 (650) 770-3888
 FAX: 728-3588

ROAD AND DRAINAGE PLAN
 CHURCH STREET CONSTRUCTION

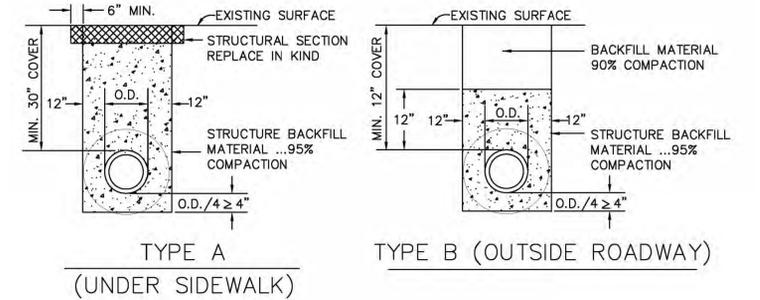
SHEET
 C-2

NOTES:

1. DIMENSIONS OF POND SHOULD MATCH THAT SHOWN, SO AS TO HOLD AT LEAST 1390 CUBIC FEET OF WATER. SHAPE OF POND SHOULD BE STAKED IN FIELD BY SURVEYING.
2. INFILTRATION INTO UNDERLYING SOILS WILL BE BENEFICIAL. DO NOT PLACE CLAY OR PLASTIC LINER AND DO NOT COMPACT SOIL IN BOTTOM OF POND.
3. SPILLWAY INVERT ELEVATION = 52.8 FEET, TO AVOID WATER BACKING UP STORM DRAIN SYSTEM.
4. SPILLWAY SHALL FLOW ONTO A SWALE OF 3-4 INCH COBBLES, 2 FEET WIDE, ALONG LENGTH OF SWALE, TO DISSIPATE ENERGY AND REDUCE POTENTIAL EROSION.



6 DETENTION POND
C2C3 1" = 10'



STRUCTURE BACKFILL MATERIAL...MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

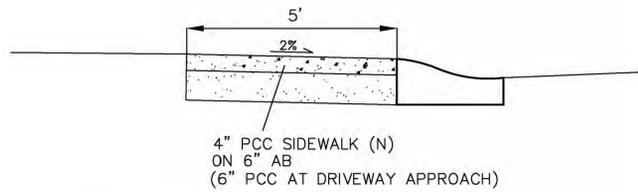
SIEVE SIZE	% PASSING SIEVES
3"	100
NO. 4	35-100
NO. 30	20-100

BACKFILL MATERIAL...MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES IN GREATEST DIMENSION, VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL.

STANDARD TRENCH BACKFILL AND BEDDING DETAIL STORM DRAIN PIPES

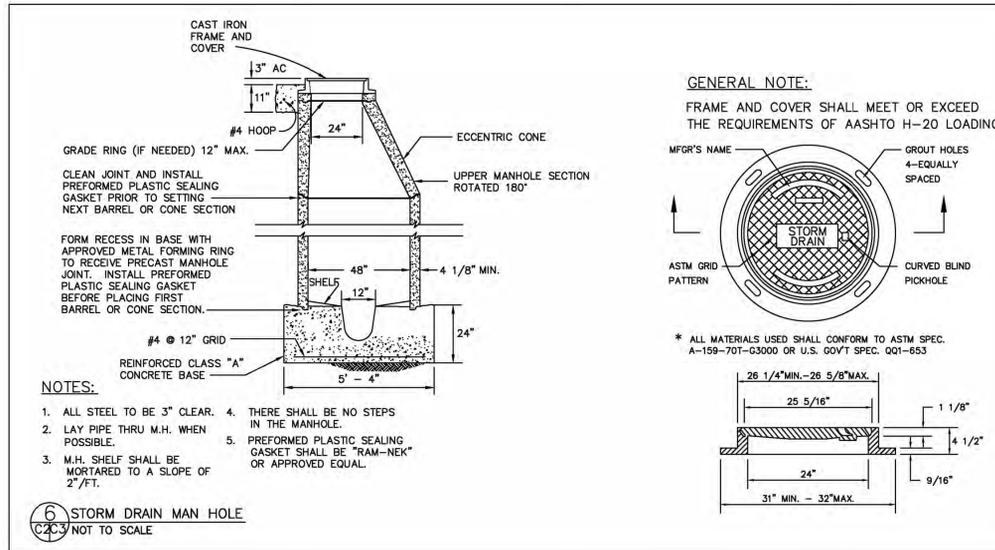
SIDEWALK NOTES

1. SIDEWALK SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED ON 10' SPACING, AT ENDS OF CURB RETURNS. MINIMUM JOINT DEPTH SHALL BE 1-1/4" WITH EDGER FINISH (R=1/8").
3. COLOR ADDITIVES OR PATTERN STAMP CONCRETE SHALL NOT BE USED WITHIN PUBLIC RIGHT-OF-WAY UNLESS APPROVED BY THE CITY ENGINEER.

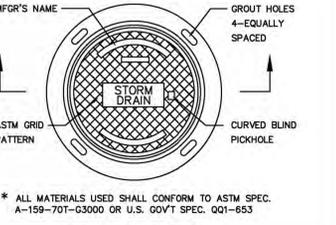


NOTE: DETAIL IS TAKEN FROM HMB CITY DETAILS SI-3 AND SI-8, WITH REQUIRED DIMENSIONS FOR THIS PROJECT.

1 SIDEWALK
C2C3 NOT TO SCALE



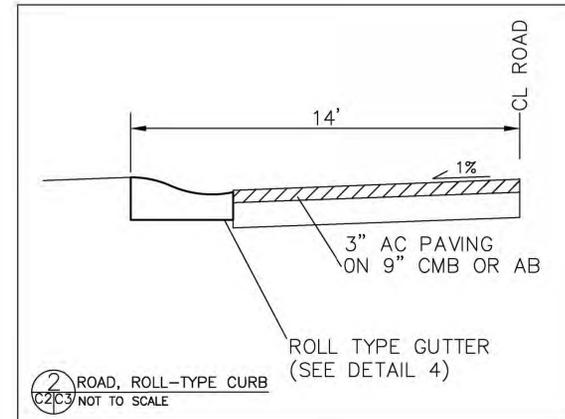
GENERAL NOTE:
FRAME AND COVER SHALL MEET OR EXCEED THE REQUIREMENTS OF AASHTO H-20 LOADING.



* ALL MATERIALS USED SHALL CONFORM TO ASTM SPEC. A-159-70T-G3000 OR U.S. GOV'T SPEC. 001-653

- NOTES:**
1. ALL STEEL TO BE 3" CLEAR.
 2. LAY PIPE THRU M.H. WHEN POSSIBLE.
 3. M.H. SHELF SHALL BE MORTARED TO A SLOPE OF 2"/FT.
 4. THERE SHALL BE NO STEPS IN THE MANHOLE.
 5. PREFORMED PLASTIC SEALING GASKET SHALL BE "RAM-NEK" OR APPROVED EQUAL.

6 STORM DRAIN MAN HOLE
C2C3 NOT TO SCALE



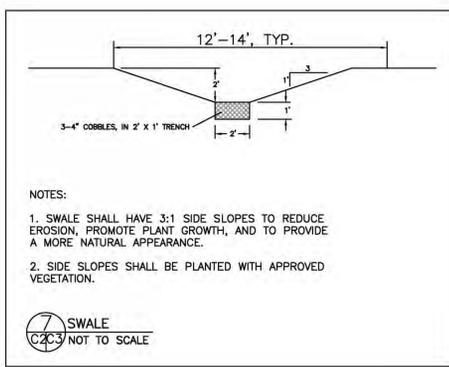
2 ROAD, ROLL-TYPE CURB
C2C3 NOT TO SCALE



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DUBLIN, CALIF. 94568
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FAX: 728-3883

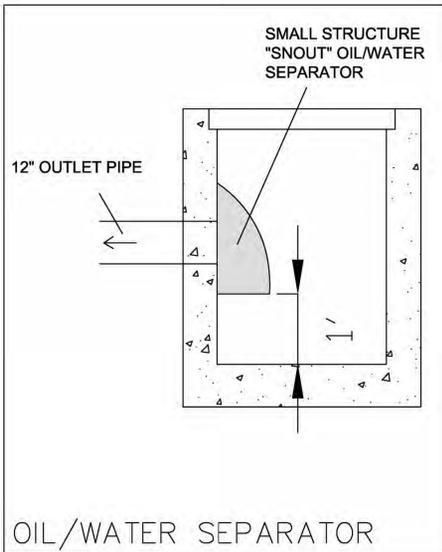
DATE: 1-28-11
DRAWN BY: CMK
CHECKED BY: AZG
REV. DATE: 4-23-12
REV. DATE: 2-6-15
REV. DATE: 4-6-15
REV. DATE: 4-23-15

GENERAL DETAILS
CHURCH STREET CONSTRUCTION

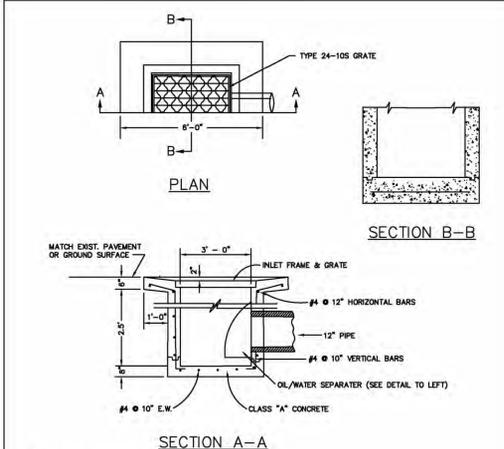


- NOTES:**
1. SWALE SHALL HAVE 3:1 SIDE SLOPES TO REDUCE EROSION, PROMOTE PLANT GROWTH, AND TO PROVIDE A MORE NATURAL APPEARANCE.
 2. SIDE SLOPES SHALL BE PLANTED WITH APPROVED VEGETATION.

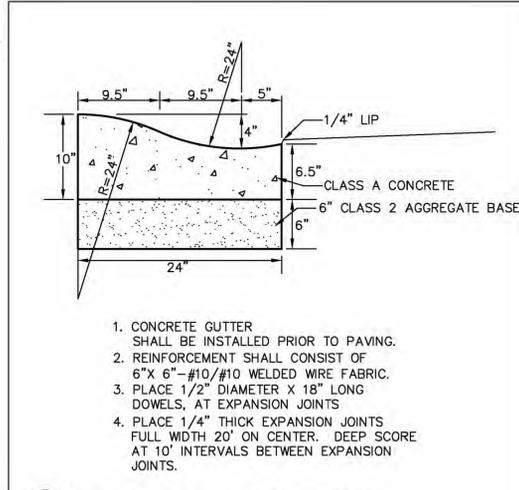
7 SWALE
C2C3 NOT TO SCALE



4 OIL/WATER SEPARATOR
C2C3 NOT TO SCALE

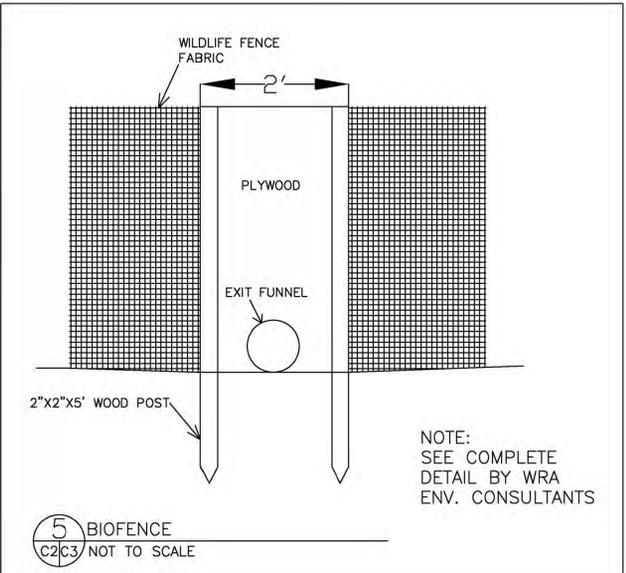


4 TRAFFIC INLET
C2C3 NOT TO SCALE



3 ROLL-TYPE GUTTER AND GUTTER
C2C3 NOT TO SCALE

- NOTES:**
1. CONCRETE GUTTER SHALL BE INSTALLED PRIOR TO PAVING.
 2. REINFORCEMENT SHALL CONSIST OF 6" X 6" - #10/#10 WELDED WIRE FABRIC.
 3. PLACE 1/2" DIAMETER X 18" LONG DOWELS, AT EXPANSION JOINTS.
 4. PLACE 1/4" THICK EXPANSION JOINTS FULL WIDTH 20' ON CENTER. DEEP SCORE AT 10' INTERVALS BETWEEN EXPANSION JOINTS.

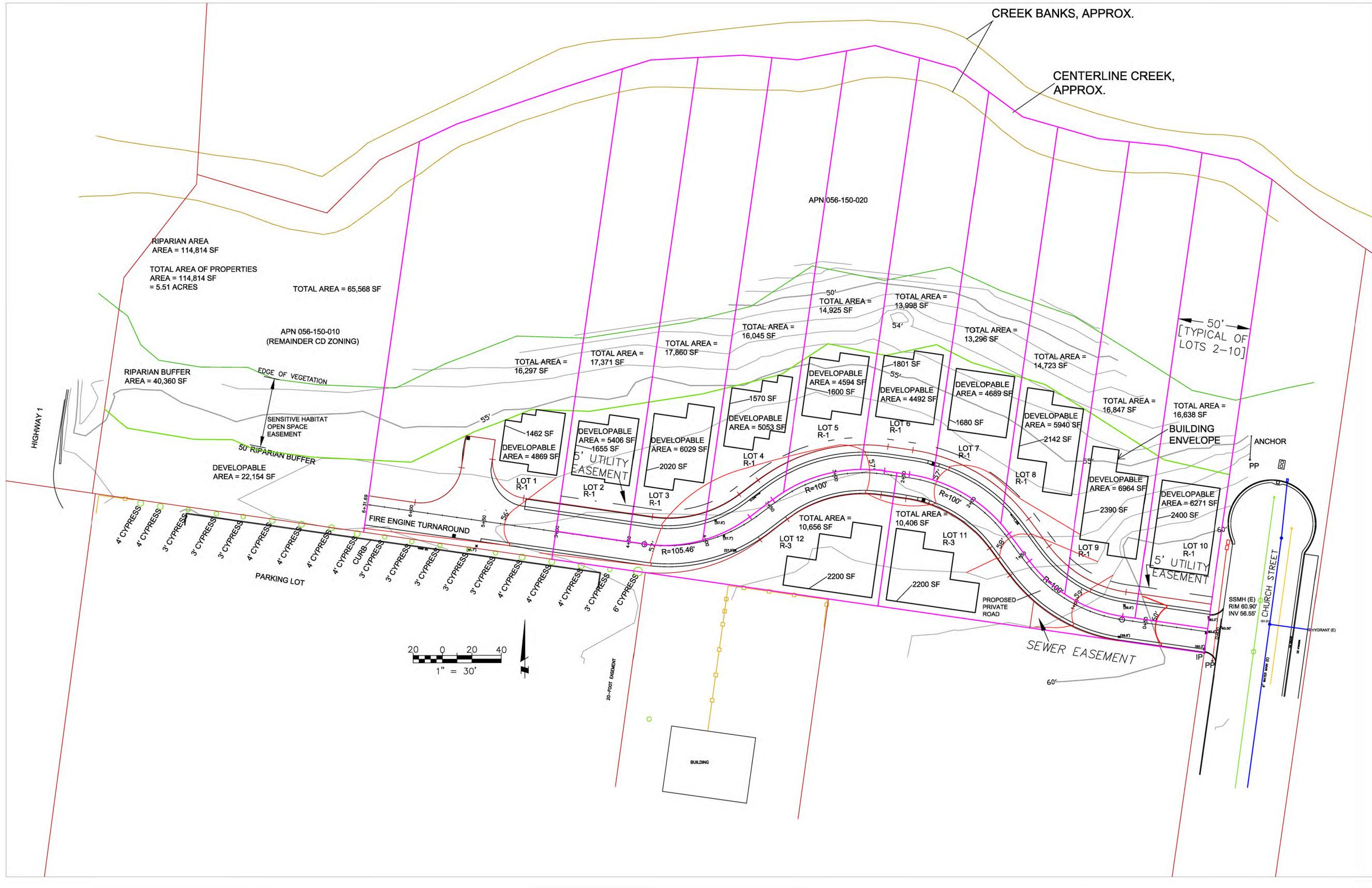


5 BIOFENCE
C2C3 NOT TO SCALE

NOTE: SEE COMPLETE DETAIL BY WRA ENV. CONSULTANTS

LEGEND

- PROPOSED PROPERTY BOUNDARY
- PROPOSED EASEMENT LINE
- EXISTING 1' CONTOUR
- PROPOSED 1' CONTOUR



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 FAX: 726-5693

DATE:	1-28-11
DRAWN BY:	CMK
CHECKED BY:	AZG
REV. DATE:	4-23-12
REV. DATE:	9-24-12
REV. DATE:	1-28-15
REV. DATE:	4-6-15
REV. DATE:	8-17-15

PROPERTY MAP
 CHURCH STREET
 CONSTRUCTION

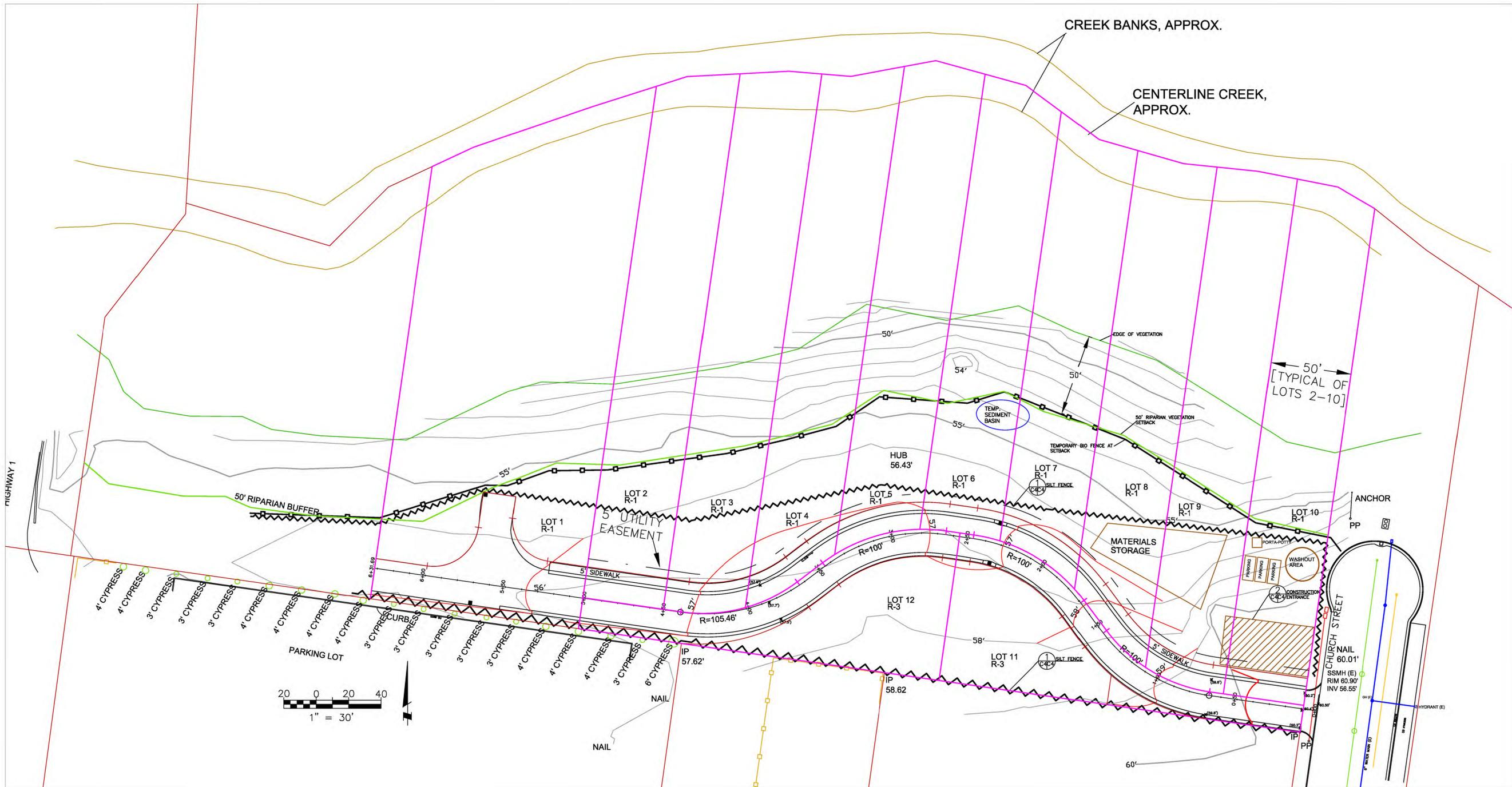
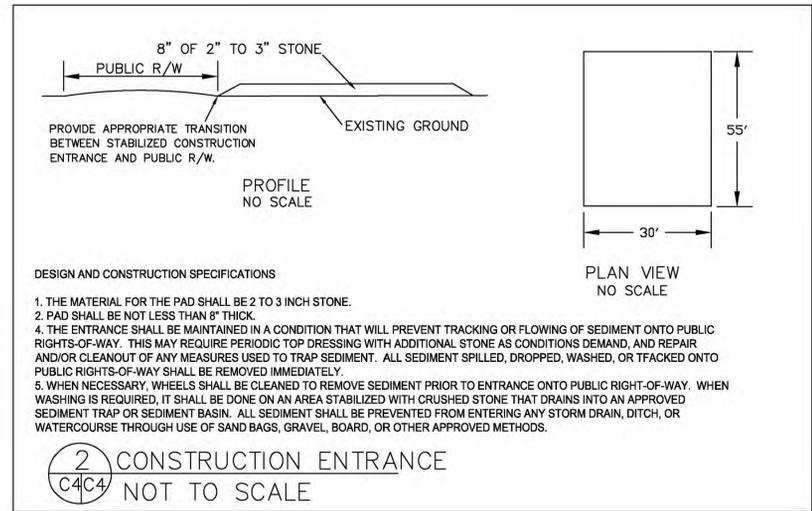
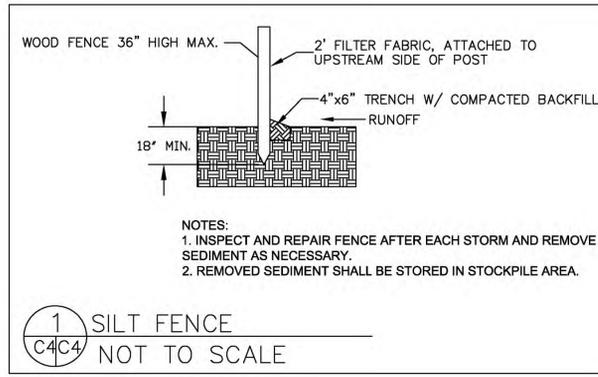
SHEET
 C-4

LEGEND

-  EXISTING 1' CONTOUR
-  PROPOSED 1' CONTOUR

EROSION AND SEDIMENT CONTROL NOTES

- FIBER ROLL: INSTALL AT LOCATIONS SHOWN. AFFIX AS SHOWN IN DETAIL 1.
1. FOR CONSTRUCTION DURING DRY SEASON, ALL EXPOSED SURFACES SHALL BE WETTED PERIODICALLY TO PREVENT SIGNIFICANT DUST.
 2. ALL EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. SUCH PROTECTION SHALL CONSIST OF JUTE MATTING ON SLOPES.
 3. ALL STOCKPILED SOIL SHALL BE COVERED DURING PERIODS OF RAIN.
 4. BEFORE COMPLETION OF PROJECT ALL EXPOSED OR DISTURBED SURFACES SHALL BE PERMANENTLY PROTECTED FROM EROSION.
 5. AREAS TO RECEIVE NATURAL VEGETATION SHALL BE SEEDED PRIOR TO DCT 15 WITH 75# PER ACRE OF ANNUAL RYEGRASS OR APPROVED SUBSTITUTE, AS PER LANDSCAPE PLAN. SEED MAY BE COVERED WITH STRAW MULCH AT A RATE OF 2 TONS/ACRE.
 6. SEDIMENT PONDS ONLY NECESSARY IF EARTHWORK TAKES PLACE DURING RAINY SEASON. DIMENSIONS AND GENERAL DESIGN AS PER DETAIL 6, SHEET C-2. WESTERN POND SHALL BE CLEANED AND FINISHED AS A PERMANENT STRUCTURE, PER DETAIL 6, SHEET C-2.
 7. SEDIMENT PONDS SHALL BE CLEANED AFTER EACH RAIN EVENT.
 8. REFER TO STORMWATER POLLUTION PROTECTION PLAN FOR ADDITIONAL EROSION CONTROL MEASURES AND BEST MANAGEMENT PRACTICES.

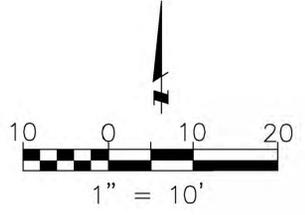
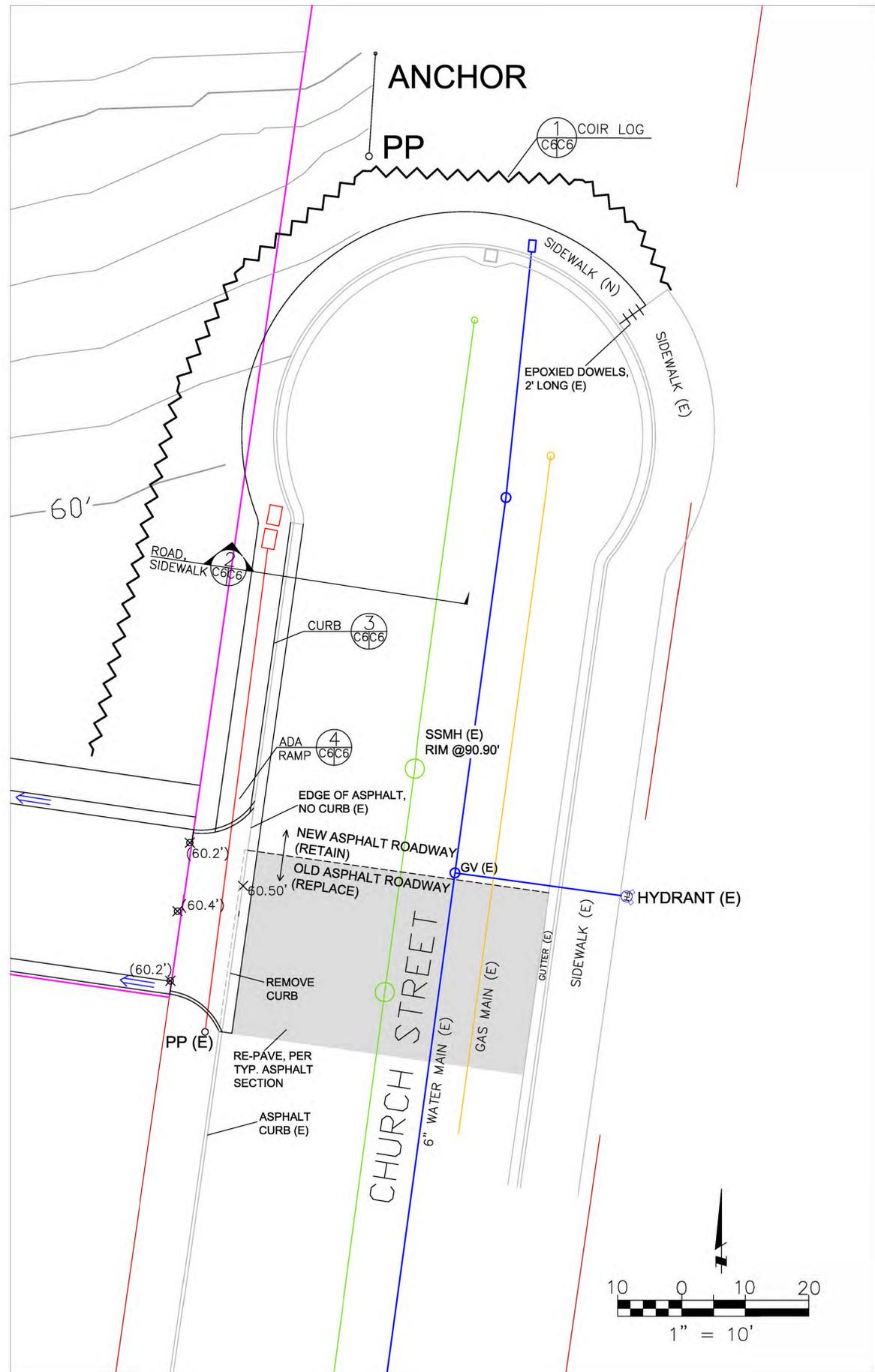


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 HALF MOON BAY, CA 94019
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DATE:	1-28-15
DRAWN BY:	CMK
CHECKED BY:	AZG
REV. DATE:	4-6-15
REV. DATE:	4-29-15
REV. DATE:	8-17-15
REV. DATE:	

EROSION CONTROL PLAN
CHURCH STREET CONSTRUCTION

SHEET
C-5

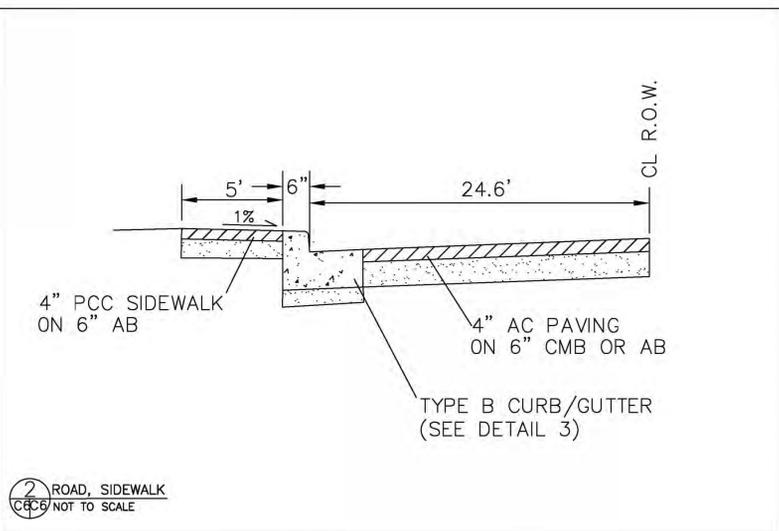


LEGEND

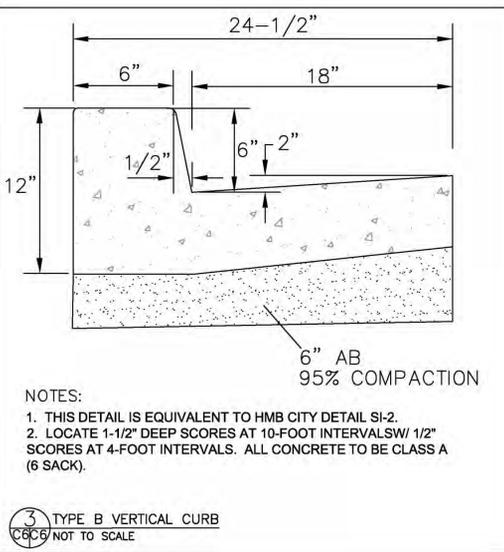
20.37' X	EXISTING SPOT ELEVATION	E	EXISTING
		N	NEW, OR PROPOSED
X	PROPOSED SPOT ELEVATION	SSMH	SANITARY SEWER MANHOLE
(20.4')		SS	SEWER MAIN
		INV	INVERT
←	SURFACE DRAINAGE FLOW	AC	ASPHALT

SIDEWALK NOTES

1. SIDEWALK SHALL BE BUILT UNDER THIS CONTRACT STATING AT LINE SHOWN ON PLAN.
2. SIDEWALK SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED ON 10' SPACING, AT ENDS OF CURB RETURNS. MINIMUM JOINT DEPTH SHALL BE 1-1/4" WITH EDGEER FINISH (R=1/8").
4. IN EXPANSIVE SOIL AREAS, THE SUBGRADE UNDER CURB AND GUTTER AND SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FROM THE SOIL ENGINEER.
5. MINIMUM SIDEWALK WIDTH AT HORIZONTAL OBSTRUCTIONS SHALL BE 4'.
6. COLOR ADDITIVES OR PATTERN STAMP CONCRETE SHALL NOT BE USED WITHIN PUBLIC RIGHT-OF-WAY UNLESS APPROVED BY THE CITY ENGINEER.

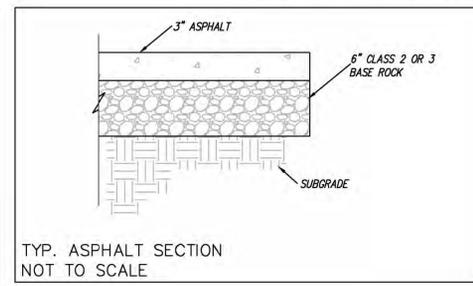


2 ROAD, SIDEWALK
C8C6 NOT TO SCALE

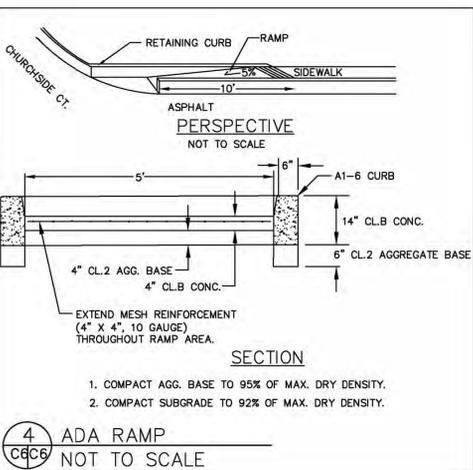


- NOTES:
1. THIS DETAIL IS EQUIVALENT TO HMB CITY DETAIL SI-2.
 2. LOCATE 1-1/2" DEEP SCORES AT 10-FOOT INTERVALS/ 1/2" SCORES AT 4-FOOT INTERVALS. ALL CONCRETE TO BE CLASS A (6 SACK).

3 TYPE B VERTICAL CURB
C8C6 NOT TO SCALE



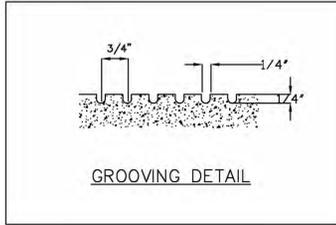
TYP. ASPHALT SECTION
NOT TO SCALE



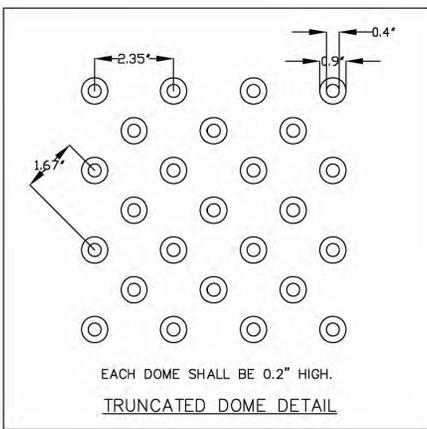
4 ADA RAMP
C8C6 NOT TO SCALE

RAMP NOTES

1. THE SURFACE OF RAMP SHALL HAVE TRUNCATED DOMES, AS SHOWN. (SEE TRUNCATED DOME DETAIL)
2. TRANSITIONS FROM RAMP TO WALKS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BOTTOM OF THE RAMP SHALL HAVE A 1/2" LIP AT 45°.
3. INSTALL SLIP DOWELS 18" O.C. AT EXPANSION JOINTS.
4. MINIMUM WIDTH OF RAMP, NOT INCLUDING RETAINING CURBS, SHALL BE 5 FEET.
5. BACKFILL MATERIAL IN PLANTERS TO BE PLACED FLUSH WITH TOP OF CURB.
6. SUB-BASE MATERIAL WITHIN 2.5' OF SUBGRADE SHALL BE COMPACTED TO 95%.
7. AREA BELOW NEW RAMP SHALL HAVE GROOVES, AS SHOWN. (SEE GROOVING DETAIL)



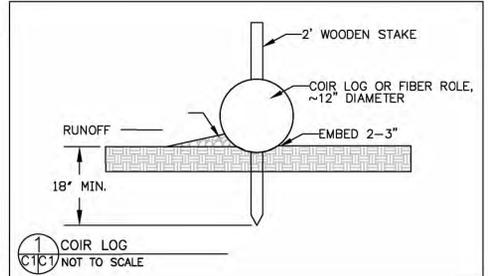
GROOVING DETAIL



EACH DOME SHALL BE 0.2" HIGH.
TRUNCATED DOME DETAIL

EROSION AND SEDIMENT CONTROL NOTES

- COIR LOG OR EQUIVALENT FIBER ROLL: INSTALL AT LOCATIONS SHOWN. AFFIX AS SHOWN IN DETAIL 1.
1. FOR CONSTRUCTION DURING DRY SEASON, ALL EXPOSED SURFACES SHALL BE WETTED PERIODICALLY TO PREVENT SIGNIFICANT DUST.
 2. ALL EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. SUCH PROTECTION SHALL CONSIST OF JUTE MATTING ON SLOPES.
 3. ALL STOCKPILED SOIL SHALL BE COVERED DURING PERIODS OF RAIN.
 4. BEFORE COMPLETION OF PROJECT ALL EXPOSED OR DISTURBED SURFACES SHALL BE PERMANENTLY PROTECTED FROM EROSION.
 5. AREAS TO RECEIVE NATURAL VEGETATION SHALL BE SEEDED PRIOR TO OCT 15 WITH 75# PER ACRE OF ANNUAL RYEGRASS OR APPROVED SUBSTITUTE, AS PER LANDSCAPE PLAN. SEED MAY BE COVERED WITH STRAW MULCH AT



1 COIR LOG
C8C6 NOT TO SCALE



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HALF MOON BAY, CA 94019
(650) 728-3590
FAX: 728-3593

DATE: 8-17-15	DRAWN BY: CMK	CHECKED BY: AZG
REV. DATE:	REV. DATE:	REV. DATE:
REV. DATE:	REV. DATE:	REV. DATE:

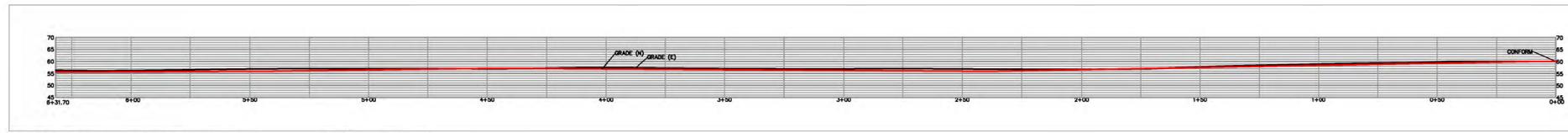
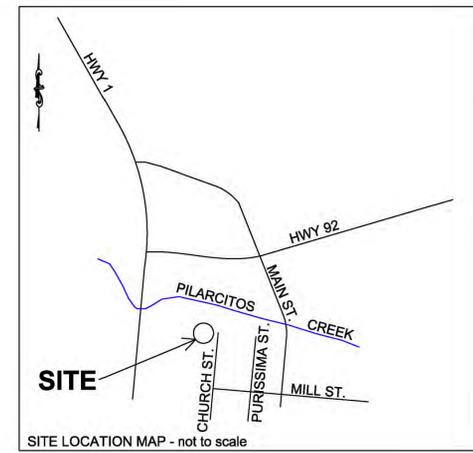
OFF-SITE STREET IMPROVEMENTS
CHURCH STREET CONSTRUCTION

GENERAL NOTES

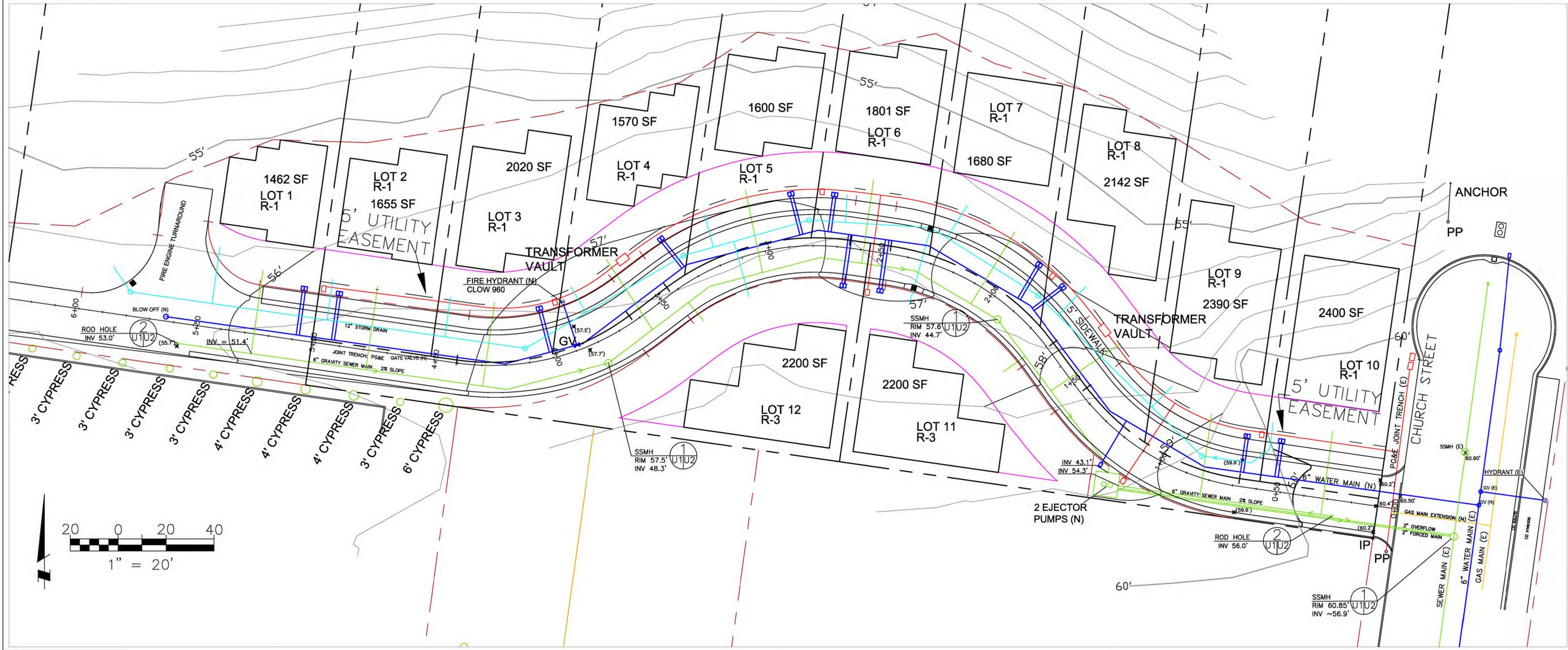
1. PLANS PREPARED AT REQUEST OF:
CAMERON JEFFS
CHURCH STREET
HALF MOON BAY, CA 94019
2. ELEVATION DATUM: NGVD88.
3. CONTOUR INTERVAL IS 1 FOOT.
4. SITE SURVEYED BY SIGMA PRIME GEOSCIENCES.
5. THIS IS NOT A BOUNDARY SURVEY.

LEGEND

- | | | | |
|-----------|--|------|------------------------|
| 60.12' X | EXISTING SPOT ELEVATION | E | EXISTING |
| (57.1') X | PROPOSED SPOT ELEVATION | N | NEW, OR PROPOSED |
| | EXISTING 1' CONTOUR | SSMH | SANITARY SEWER MANHOLE |
| | PROPOSED 1' CONTOUR | SS | SEWER MAIN |
| | SURFACE DRAINAGE FLOW | INV | INVERT |
| | WATER SERVICE CONNECTIONS,
DOMESTIC AND FIRE PROTECTION | AC | ASPHALT |



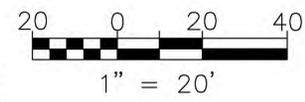
ROAD PROFILE 1"=30'

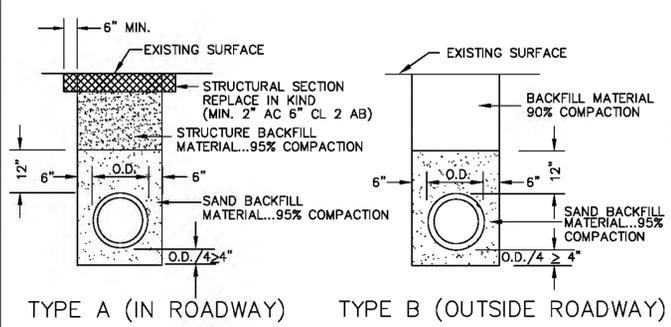


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UTILITY PLAN
CHURCH ST. PIPELINE
EXTENSION PROJECT,
PHASE 2

SHEET
U-1





TYPE A (IN ROADWAY) TYPE B (OUTSIDE ROADWAY)

NOTES:
1. SAND... MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:

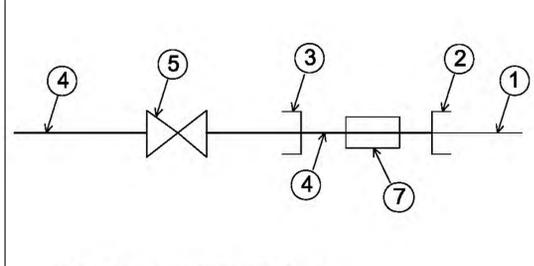
SIEVE SIZE	% PASSING SIEVE
No. 4	100
No. 200	0-5

2. STRUCTURE BACKFILL MATERIAL... MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEVE
3"	100
No. 4	35-100
No. 30	20-100

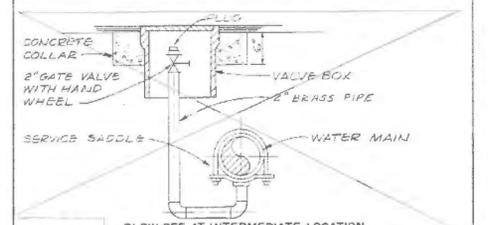
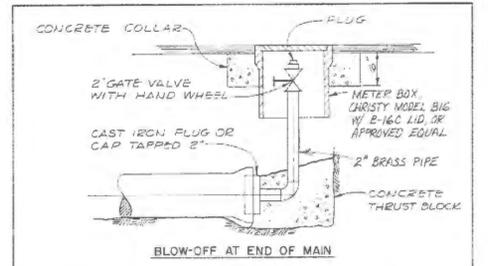
3. BACKFILL MATERIAL... MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.

STANDARD TRENCH BACKFILL AND BEDDING DETAIL FOR D.I.P. WATER PIPE



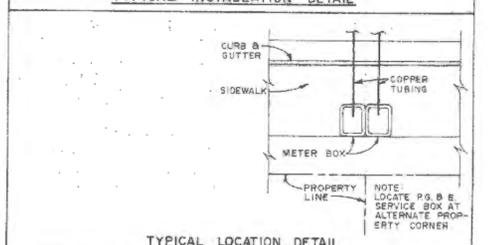
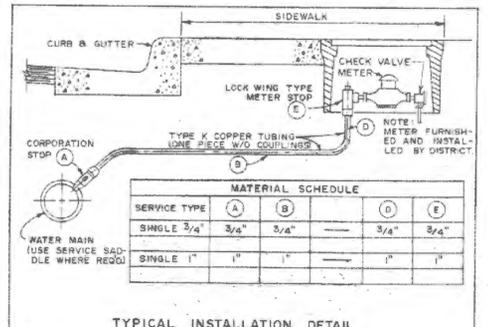
- EXISTING 6" CAST IRON PIPELINE.
- EXISTING CAP OR PLUG AT END OF EXISTING PIPELINE.
- NEW CAP FOR LEAKAGE TESTING AND DISINFECTION.
- NEW 6" DUCTILE IRON PIPE.
- NEW 6" GATE VALVE.
- FOLLOWING COMPLETION OF LEAKAGE TESTING AND DISINFECTION, REMOVE EXISTING CAP/PLUG AND TEMPORARY END CAP, AND CONNECT THE NEW AND EXISTING PIPELINES WITH NEW 6" DUCTILE IRON PIPE AND A MECHANICAL JOINT SLEEVE.
- NEW MECHANICAL JOINT SLEEVE.

CONNECTION DETAIL FOR NEW AND EXISTING PIPELINES

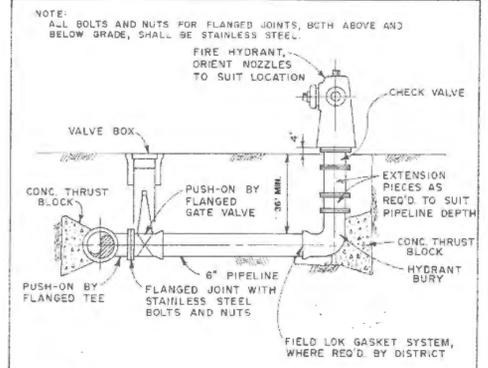


NOTE:
IF THE VALVE BOX IS IN THE TRAVELLED ROADWAY OR DRIVEWAY, THE TOP OF THE BOX SHALL BE FLUSH WITH THE TRAVELLED SURFACE. THE COVER SHALL BE CAST IRON, AND A 2" THICK CONCRETE SUPPORT SHALL BE CAST AROUND THE TOP OF THE VALVE BOX. BOXES LOCATED OUTSIDE ROADWAYS SHALL BE INSTALLED 2" ABOVE FINISHED GRADE.

DATE DEC 03	DISTRICT STANDARDS
REV. MAR 76	COASTSIDE COUNTY
MAR 84	WATER DISTRICT
	SAN MATEO COUNTY, CALIFORNIA

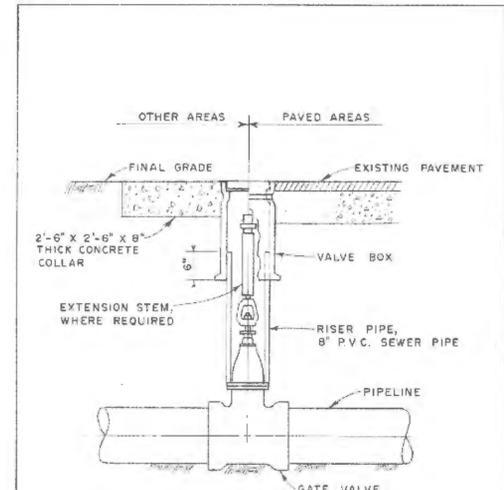


DATE DEC 75	DISTRICT STANDARDS
REV. MAR 85	COASTSIDE COUNTY
MAR 85	WATER DISTRICT
JULY 09	SAN MATEO COUNTY, CALIFORNIA



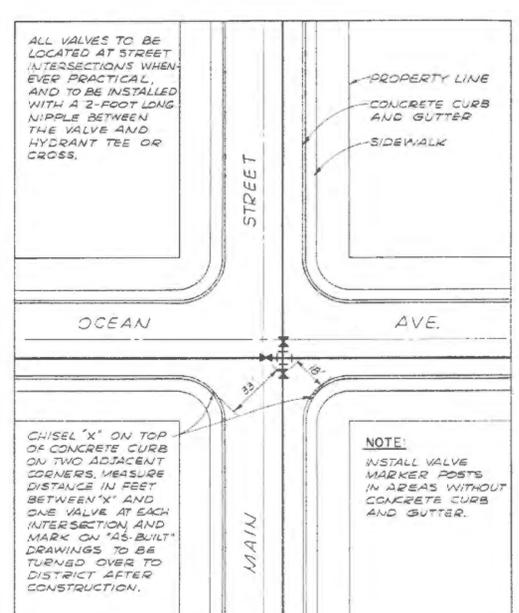
- NOTE:
ALL BOLTS AND NUTS FOR FLANGED JOINTS, BOTH ABOVE AND BELOW GRADE, SHALL BE STAINLESS STEEL.
- NOTE:
1. HYDRANT SHALL TYPICALLY BE LOCATED 2' BEHIND CURB. IN OTHER AREAS LOCATION SHALL BE DETERMINED IN FIELD BY DISTRICT.
2. USE HORIZONTAL BENDS IN 6" PIPELINE AS REQUIRED, BUT NO VERTICAL BENDS.
3. MATERIALS SHALL CONFORM TO SPECIFICATION REQUIREMENTS.
4. EACH HYDRANT SHALL HAVE 2-2 1/2" OUTLETS & 1-4 1/2" OUTLET. OUTLETS SHALL BE ORIENTED AS DIRECTED BY DISTRICT.
5. GUARD POSTS, NUMBER AND LOCATION TO BE DETERMINED IN FIELD BY DISTRICT, SHALL BE INSTALLED IN LOCATIONS WITHOUT CURB OR WHERE THE HYDRANT IS NOT ADEQUATELY PROTECTED BY CURB. GUARD POSTS SHALL BE 4" DIA. SCH. 40 GALVANIZED STEEL PIPE, 6 FEET LONG, INSTALLED 3 FEET DEEP IN CONCRETE, AND FILLED WITH CONCRETE.

DATE DEC 75	DISTRICT STANDARDS
REV. MAR 85	COASTSIDE COUNTY
MAR 85	WATER DISTRICT
JULY 09	SAN MATEO COUNTY, CALIFORNIA

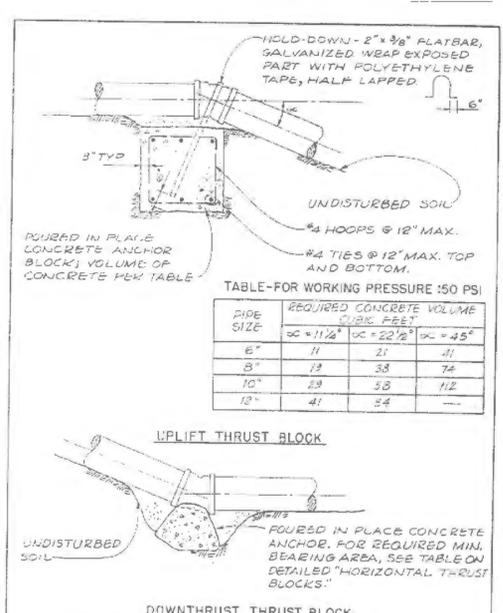


NOTES:
1. SEE SPECIFICATIONS FOR MATERIAL AND ADDITIONAL INSTALLATION REQUIREMENTS.

DATE DEC 03	DISTRICT STANDARDS
REV. JUL 1974	COASTSIDE COUNTY
MAR 1987	WATER DISTRICT
JULY 2007	SAN MATEO COUNTY, CALIFORNIA



DATE DEC 03	DISTRICT STANDARDS
REV. JUL 1974	COASTSIDE COUNTY
MAR 1987	WATER DISTRICT
JULY 2007	SAN MATEO COUNTY, CALIFORNIA



DATE DEC 03	DISTRICT STANDARDS
REV. JULY 1974	COASTSIDE COUNTY
NOV. 1981	WATER DISTRICT
	SAN MATEO COUNTY, CALIFORNIA

WATER SERVICE NOTES

- NEW WATER MAIN SHALL BE 6-INCH DIAMETER DUCTILE IRON PIPE.
- NEW WATER MAIN TO BE LOCATED AS SHOWN, UNDER ROAD WITH MINIMUM 36-INCH COVER.
- MINIMUM DISTANCE BETWEEN WATER MAIN AND SEWER MAIN SHALL BE 10 FEET.
- MINIMUM DISTANCE BETWEEN WATER MAIN AND STORM DRAIN LINE AND ALL OTHER UTILITIES SHALL BE 4 FEET.
- WATER MAIN TRENCH SHALL INCLUDE 4 INCHES OF BEDDING SAND AND 12 INCHES OF SAND OVER THE PIPE.
- ONE NEW FIRE HYDRANT SHALL BE INSTALLED AT LOCATION SHOWN. NO STRUCTURES SHALL BE MORE THAN 250 FEET FROM ANY FIRE HYDRANT.
- NEW 6-INCH WATER MAIN SHALL CONNECT TO EXISTING 6-INCH WATER MAIN IN CHURCH STREET USING A 6 X 6 INCH TAPPING SLEEVE AND GATE VALVE.
- WATER SERVICE LATERALS SHALL BE A MINIMUM DISTANCE OF 10 FEET FROM SANITARY SERVICE LATERALS, AND 5 FEET FROM OTHER UTILITY LATERALS. WATER METER BOXES SHALL NOT BE LOCATED WITHIN DRIVEWAYS.
- WATER LATERALS SHALL CROSS OVER THE SEWER MAIN WITH MINIMUM 12" SEPARATION.
- WATER SYSTEM FACILITIES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE DOCUMENT TITLED "WATER SYSTEM SPECIFICATIONS FOR PHASE 2 CHURCH STREET PIPELINE EXTENSION PROJECT, LATEST REVISION".

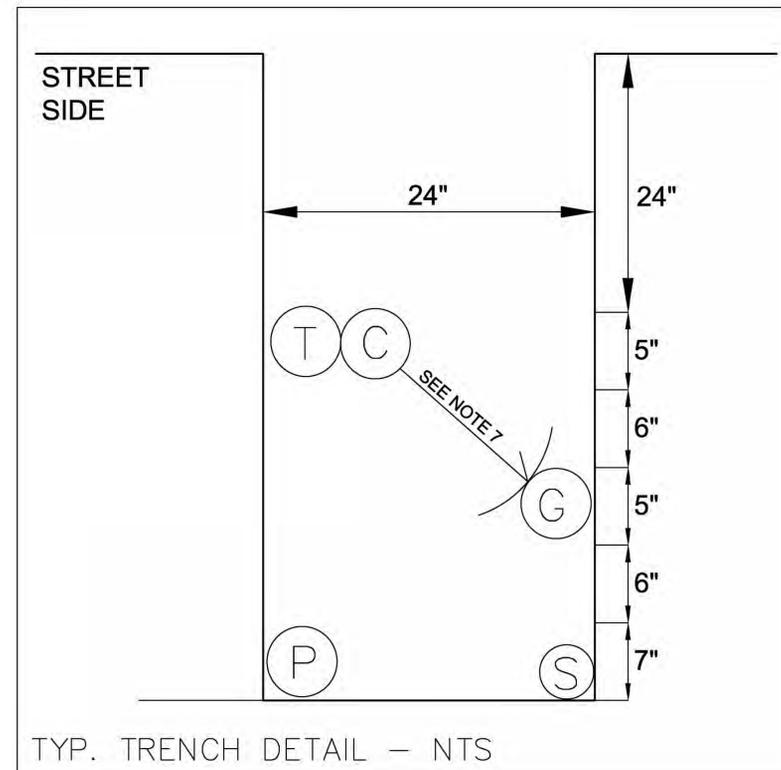


DATE: 9-5-14	DISTRICT STANDARDS
DRAWN BY: CNK	COASTSIDE COUNTY
CHECKED BY: AZG	WATER DISTRICT
REV. DATE: 12-15-14	SAN MATEO COUNTY, CALIFORNIA
REV. DATE: 1-28-15	
REV. DATE: 4-29-15	
REV. DATE: 6-14-15	
REV. DATE:	

WATER DETAILS
CHURCH ST. PIPELINE EXTENSION PROJECT, PHASE 2

SHEET
U-3

- The preferred trench location is in a Public Utility easement (P.U.E.).
- All depths and resulting cover requirements are measured from final grade.
- Cover, clearances, and separation shall be as great as practicable under the circumstances, but under no circumstances shall be less than the minimum cover, clearance, and separation requirements set forth in General Order 128 and 49CFR 192.321, 49CFR 192.325, and 49CFR 192.327. All facilities shall be anchored in place prior to compaction, or other means shall be taken to ensure no motion of the facilities. Dimensional requirements for shading, leveling, and backfilling shall be determined subsequent to compaction.
- Trench dimensions shown are typical. Trench sizes and configurations may vary depending upon occupancy and/or field conditions. Trench size and configuration must at all times be constructed in a manner that ensures proper clearances and cover requirements are met. Any "change" to the trench width and configurations as shown in this exhibit must be designed to ensure this requirement.
- It is preferred to have non-PG&E owned streetlights at a level other than the gas or electric level. Non-PG&E owned streetlights may be at the electric level of the trench as long as minimum clearances are provided and comply with all special notes for a joint trench with a second electric utility.
- Non-Utility facilities are not allowed in any Joint Utility trench, e.g., irrigation control lines, building fire alarm systems, private telephone systems, outdoor electrical cable, etc.
- When communication ducts are installed, a minimum of 12" radial separation shall be maintained from gas facilities. Exception: With mutual agreement, when 4-inch diameter or smaller gas pipe is installed, the separation may be reduced to not less than 6 inches.
- Provide separation from trench wall and other facilities sufficient to ensure proper compaction.
- Maintain proper separation between PG&E facilities and "wet" utility lines as described in UO Standard S5453. The minimum allowable horizontal separation between Company facilities and "wet" facilities is 3' with a minimum 1' of undisturbed earth or the installation of a suitable barrier between the facilities. If a 3' horizontal separation cannot be attained between "wet" utilities and Company dry facilities, a variance may be approved by the local Inspection Supervisor and submitted to the Service Planning Support Program Manager for approval. Separations of 1' or less are not permissible and will not be allowed. The Company may agree to waive the minimum 3' separation requirement at the request of an applicant if warranted and the need is justified. The request for a waiver must:
 - Be made in writing and submitted to the Company ADE during the planning and design phase of the project,
 - Clearly describe the conditions necessitating the waiver,
 - Include a proposed design,
 - And, include a design for a barrier between the "wet" utilities and Company dry facilities in the event 1' of undisturbed earth cannot be maintained.
- Note: Drain lines connected to downspouts on buildings are considered a "wet" utility for the purposes of this standard.
- Separations shall be maintained at aboveground termination points.
- Procedures for approving native backfill for shading of PG&E gas facilities:
 - Random soil samples shall be taken from a minimum of 3 locations per 1,000' of trench. 100% of the sample must pass through a 1/2" sieve and 75% must pass through a #4 screen. Additional samples must be taken if existing soil conditions change and are to be taken at the discretion of the PG&E representative on site.
 - The soils must not contain any rocks that have sharp edges or that may otherwise be abrasive.
 - The soils must not contain clods larger than 1/2" if to be used as shading, bedding, or leveling materials.
 - Compaction requirements must meet any applicable PG&E, Federal, State, County, or local requirements.
 - At no time shall the over saturation of native soils be used to achieve these requirements. The sieves and screens shall be:
 - 1/2" Sieve: 8" diameter by 2" deep, stainless steel mesh screen.
 - #4 Screen: 8" diameter by 2" deep, stainless steel mesh screen.
- Procedures for approving native backfill for shading at PG&E electric facilities:
 - Random soil samples shall be taken from a minimum of 3 locations per 1,000' of trench. Additional samples must be taken if existing soil conditions change and are to be taken at the discretion of the PG&E representative on site.
 - Shading material containing large rock, paving material, cinders, sharply angular substances, or corrosive material shall not be placed in the trench where such material may damage the conduits and/or prevent proper compaction over or around the conduits.
 - Native soils containing clods not to exceed 6" in diameter may be included in the shading material provided the clods are readily breakable by hand.
- Note: Soils consisting primarily of adobe, hard compact (dense) clay, and bay muds shall not be used as shading material.
 - At no time shall the over saturation of native soils be used to achieve these requirements.
- Competent native soils are preferred to be used for shading, bedding, and backfilling throughout the trench.
 - Where native soils exceed 1/2" minus and/or where gas is to be placed at the bottom of a trench in areas that exceed 1/2" minus soil conditions, or where the bottom of a trench is considered to consist of hard pan, PG&E approved 1/2" minus import material shall be used for shading and/or bedding of gas facilities.
 - PG&E approved import material is per CGT Engineering Guideline 4123.
 - If a leveling course is required for gas facilities, the use of native soils is preferred, but if 1/2" minus conditions are not attainable with the native soils, then the use of PG&E approved import materials is required. Bedding under gas facilities will be a minimum of 2" of compacted 1/2" minus native soils or PG&E approved import material.
 - For electric facilities, refer to Note 12. This applies to leveling courses as well as shading.
 - The minimum PG&E approved bedding material may be increased at the discretion of PG&E when warranted by existing field conditions (e.g., rocky soils, hard pan, etc.).
 - The use of any imported material for backfilling purposes shall be limited to those situations when native soils do not allow for required compaction.
- The applicant is responsible for the removal of excess spoil and associated costs.
- Separation between gas facilities and electric facilities may be reduced to 6" when crossing.
- Service saddles are the preferred service fittings for use throughout the joint trench project. All projects will be designed and estimated using service saddles. However, service tees may be used if all clearances, separation, and coverage requirements are maintained.



MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS

	G	T	C	S	P
G (GAS) SEE NOTES 4, 7 & 13	--	12"	12"	6"	12"
T TELEPHONE DUCT	12"	--	1"	12"	12"
C (CATV)	12"	1"	--	12"	12"
S (ELECTRIC SECONDARY)	6"	12"	12"	--	3"
P (ELECTRIC PRIMARY)	12"	12"	12"	3"	--

SEPARATION AND CLEARANCE DEFINITIONS

- Cover:** The term "cover" means the radial distance between the surface of an underground cable, conduit, pipe, or other substructure and the surface elevation (grade).
- Backfill:** The term "backfill" refers to the materials used to refill a cut or other excavation, or the act of such refilling after any needed shading is performed.
- Shading:** The term "shading" refers to the materials used to provide a measure of separation between facilities installed at different levels within an excavation or cut.
- Lift:** The term "lift" is a layer of fill as spread or as compacted or a measurement of material depth that is the rated effective soil depth a compactor can achieve.
- Bedding:** The term "bedding" refers to the materials installed beneath facilities at the bottom of a cut or other excavation and intended to provide support and/or protection for those facilities.



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 FAX: 728-3893

DATE: 4-29-15	DRAWN BY: ONK	CHECKED BY: AZG
REV. DATE: 8-14-15	REV. DATE:	REV. DATE:
REV. DATE:	REV. DATE:	REV. DATE:

PG&E DETAIL AND NOTES
CHURCH ST. PIPELINE EXTENSION PROJECT, PHASE 2

SHEET
U-4

June 25, 2015

Coastside County Water District

**WATER SYSTEM SPECIFICATIONS
FOR
PHASE 2 CHURCH STREET PIPELINE EXTENSION PROJECT**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Specifications. This document contains the technical specifications for all water system facilities for which ownership upon project completion will be conveyed by the Applicant, Cameron Jeffs, to the Coastside County Water District (CCWD). This document is not a complete set of specifications for the project; the Applicant and their engineer are responsible for all project specifications and contract documents other than this Water System Specifications document.
- B. Drawing. This Specifications document shall be used in conjunction with the following engineering drawings for the project: Utility Plan Sheets U-1, U-2 and U-3 of the drawings titled Church St. Pipeline Extension Project, Phase 2 prepared by Sigma Prime Geosciences, Inc., dated 9/3/14, revised 4/29/15/
- C. Conflicts Between Specifications and Drawings. Where conflicts occur between this Specification document and the engineering drawings, this Specifications document shall take precedence. Conflict resolution shall be performed by the Coastside County Water District.

1.02 REGULATORY AGENCIES

- A. Water System. All water system work shall be in conformance with the rules and regulations of the Coastside County Water District, County of San Mateo Department of Health Services, and the State Department of Health Services.
- B. Safety. All work shall be in conformance with applicable State and Federal laws and regulations, rules and orders and as may be necessary in order that the work is performed in a safe manner and that the safety and health of the employees and the people of local communities is safeguarded.
- C. Work Within Street Right of Way Area Including Trench Backfill and Repaving. All work within the street right of way area shall be performed in conformance

with the requirements of the agency having jurisdiction over the right of way area. For the Phase 2 Church Street Pipeline Extension Project, the agency having jurisdiction over the right of way area is the City of Half Moon Bay.

- D. Pollution Abatement. All work shall be performed in conformance with NPDES (National Pollutant Discharge Elimination System) regulations as well as with all other applicable pollution abatement rules and regulations.

1.03 PERMITS

Prior to beginning work, the Applicant or the project Contractor shall obtain all permits required for the work.

1.04 INSPECTION

- A. Responsible Agency:
 - 1. Water System Work. Inspection of water system facilities including sand backfill around piping will be performed by the CCWD. CCWD inspection fees shall be paid by the Applicant. In areas that are not public right of way areas, the Applicant or the Contractor shall retain a qualified soils engineer who shall perform field tests and certify in writing prior to project acceptance that the backfill is in conformance with project requirements.
 - 2. Work in Public Right of Way Areas. In public right of way areas, trench backfill and repaving will be inspected by the agency having jurisdiction over the right of way area. All inspection fees and soils testing costs shall be paid by the Applicant or the Contractor.
 - 3. Work in Private Property Areas. Inspection of trench backfill and repaving shall be performed by the Applicant or a qualified representative of the Applicant.
- B. Notification. The CCWD shall be notified by the Contractor 10 days prior to the proposed start of construction of water system facilities. If construction is not continuous, the CCWD shall be notified at least 48 hours in advance of the resumption of construction.
- C. Observation. The CCWD and their authorized representatives shall at all times have access to the work, and the Contractor shall furnish every reasonable facility for ascertaining that the materials and workmanship are in accordance with CCWD requirements. All work performed and all materials furnished shall be subject to the CCWD's on-site and off-site observations. The CCWD will observe and inspect facilities solely to protect the interests of the CCWD and to determine whether the completed work is acceptable for incorporation into the CCWD system. The CCWD does not assume thereby any responsibility for the safety practices of the Contractor. The Contractor is responsible for the correct location of all facilities which are installed. All work shall be inspected by the

CCWD prior to backfill. Work which has been backfilled prior to inspection by the CCWD shall be uncovered for observation at the expense of the Contractor.

1.05 CHANGES

All work shall be performed in conformance with the project documents approved by the CCWD. Changes shall not be made without the written approval of the CCWD.

1.06 REPAIR OF DAMAGE

The Contractor shall repair at his expense any damage to CCWD or other property caused by his work. At the option of the CCWD, repairs to CCWD facilities will be completed by the CCWD with the cost of the repair work being paid by the Contractor.

1.07 SITE CONDITIONS

The CCWD has performed no investigation of subsurface conditions in the work area. The Contractor shall visit the site prior to submitting his bid and shall be responsible for making his own evaluations, inspections and determinations of all site conditions, including subsurface.

1.08 LINES AND GRADES

The Contractor will be solely responsible for all lines and grades. At no cost to the Contractor, the CCWD will field locate existing water system facilities based on best available information. However, this CCWD locating assistance is not guaranteed to be either accurate or complete. The Contractor shall uncover all existing facilities by hand excavation (potholing) ahead of his machine excavation work. Where the project drawings indicate the location of water system facilities with respect to property corners or easement boundaries, the Applicant or the Contractor shall retain the services of a licensed land surveyor to field locate each property corner and easement boundary required for installation of the new water system facilities at the proper locations.

1.09 SALVAGEABLE MATERIALS

Existing CCWD materials removed during the normal prosecution of work deemed salvageable by the CCWD, except as otherwise noted on the project

drawing to be reused, shall remain under CCWD ownership and shall be delivered to the CCWD corporation yard by the Contractor.

1.10 PERSONAL LIABILITY

Neither the CCWD, its Engineer, nor any of the CCWD officers or employees shall be personally responsible for any liability arising under or by virtue of the Contractor's work.

1.11 QUALITY ASSURANCE

- A. Performance Test. Prior to project completion, the Contractor shall demonstrate to the CCWD that all water system facilities perform in the manner in which they are intended for use.
- B. Leakage Test. All water pipelines, service tubing and piping accessories shall be tested for leakage in conformance with the requirements contained in Part 3 of this document.
- C. Disinfection. All potable water pipelines, service tubing and piping accessories shall be disinfected in conformance with the requirements contained in Part 3 of this document.

1.12 REFERENCES TO STANDARD SPECIFICATIONS AND REGULATIONS

- A. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in effect at the time the project documents are prepared (date shown on Specification document).

PART 2 - MATERIALS

2.01 GENERAL REQUIREMENTS

- A. All materials shall be in conformance with CCWD rules and regulations for "approved" materials.
- B. All materials shall be new.
- C. Manufacturers furnishing pipe, valves, or piping accessories shall have had similar products in successful operation under similar operating conditions for a

period of at least 5 years, and shall if requested submit a list of representative installations.

- D. Materials in contact with drinking water shall be certified as meeting the specifications of NSF International/American National Standard Institute (NSF/ANSI)1-2005/Addendum 1.0-2005(Drinking Water System Components—Health Effects). This requirement shall be met under testing conducted by a product certification organization accredited for this purpose by the American National Standards Institute.
- E. Pipe materials, plumbing fittings or fixtures, and solder or flux shall be “lead free” as defined in California Health & Safety Code, Paragraph 116875, subd.(a). and subd. (d).

2.02 SHOP DRAWING REQUIREMENTS

- A. CCWD-Approved Materials. Where specific materials are listed below by manufacturer’s name and model number, they are District-approved materials by CCWD Resolution No. 2003-11. No shop drawing submittals are required for these CCWD-approved materials.
- B. Approved Equal Materials. Where the term “or approved equal” is used below, the Contractor may propose the use of alternative materials to those named by submitting shop drawings for the proposed alternative materials. Five copies of each shop drawing shall be submitted to the CCWD for review. The shop drawing submittal information shall be as required to demonstrate to the satisfaction of the CCWD that the material is equal to the District-approved material. No alternative materials shall be incorporated into the work until they have received the CCWD’s favorable review. Where the term “or approved equal” is not utilized below, no alternatives will be considered by the CCWD.
- C. Contractor Verification. Where model, style or types of manufacturer’s products are listed below, they are intended to indicate a standard of quality. The Contractor shall verify that the referenced model, style or type is correct for the actual project application prior to ordering the materials. When listed model numbers are no longer available or are incorrect, the District will provide new model numbers for District-approved materials.

2.03 DUCTILE IRON PIPE

- A. Pipe. Pipe shall normally be ductile iron pipe with push-on joints conforming to AWWA Standard C151, thickness Class 52. Where flanged joint pipe is required it shall conform to AWWA Standard C115, thickness Class 53.
- B. Pipe Joints:

1. Push-On Pipe Joints. Push-on pipe shall normally be utilized for all buried piping except where otherwise indicated on the project drawings or otherwise required. Push-on joints shall conform to AWWA Standard C111 with restrained type "Field-Lok" gaskets as manufactured by U.S. Pipe and Foundry Co.
2. Flanged Joint Pipe. Flanged joint pipe shall be utilized in buried piping where shown on the Contract Drawings or required. All above grade pipe shall have flanged joints. Flanges shall be in conformance with AWWA C115. Flanges shall be Class 125, B16.1, rated for a service pressure of 250 psi. Bolts and nuts for all flanged joints shall be Type 316 stainless steel.

C. Fittings:

1. Fittings for Push-On Joint Pipe. Fittings shall be ductile iron conforming to AWWA Standard C153. Fittings shall be push-on type ("Tyton" style) or mechanical joint type as directed by the District. Fittings shall be furnished and installed with joint restraint devices as described below:
 - a. Restraint Device for Push-On Fittings: "Field-Lok" gaskets as manufactured by U.S. Pipe and Foundry Co.
 - b. Restraint Device for Mechanical Joint Fittings: Series 1110HD Megalug Retainer Glands as manufactured by EBBA Iron Sales, Inc.
2. Fittings for Flanged Pipe. Fittings shall be ductile iron conforming to AWWA C110. Fittings shall be screw-on type, normally Class 125, B16.1 Type, designed for a service pressure of 250 psi. Bolts and nuts for flanged joints shall be Type 316 stainless steel. Gaskets shall normally be 1/8 inch thick non-asbestos composition type.

- D. Exterior Coating. Pipe and fittings shall be furnished with a 1 mil thick asphaltic coating. The finished coating shall be the manufacturer's standard conforming to AWWA requirements.
- E. Interior Lining. Pipe and fittings shall be cement lined in conformance with AWWA Standard C104.
- F. Polyethylene Encasement. Polyethylene encasement shall be tube type, conforming to AWWA Standard C105. Color may be Class A natural or Class C black.

2.04 COPPER TUBING

A. Tubing:

1. Buried Tubing. Copper tubing for buried service shall be Type K (soft) conforming to ASTM B88.

B. Tubing Joints and Fittings.

1. Buried Tubing. Joints and fittings for buried copper tubing shall be compression type which do not require flaring or soldering. Service fittings shall be Mueller Series 110 compression connections.

2.05 BRASS PIPE

- A. Brass pipe shall be in conformance with ASTM-B43, regular. Joints shall be threaded type.

2.06 GATE VALVES

- A. Gate Valves 4 Inches in Diameter and Larger. Gate valves shall be resilient-wedge type conforming to AWWA C509 and the following additional requirements. Valves shall be rated at 250 psi working pressure. All body and bonnet bolts, studs, and nuts shall be Type 316 stainless steel. Stem seals shall be O-ring type. Valve operators shall be 2 inch square nut type. Valve end connections shall be normally push-on or mechanical joint type except where flanged end connections are required. The interior and exterior of the valve body shall be coated with 10 mils minimum of epoxy material which conforms to AWWA Standard C550. The CCWD-approved valves shall be Mueller Co. A-2361-E393 Series or Clow Corp. Model 2639.
- B. Gate Valves 3 Inches in Diameter and Smaller. Valves shall be rated for 200 psi service, and shall be bronze body, solid wedge disc, non-rising stem, handwheel operated type with screwed end connections.

2.07 TAPPING SLEEVES AND TAPPING VALVES

- A. Tapping Sleeves. The CCWD-approved tapping sleeve is the JCM Model 6432 all stainless steel tapping sleeve with Type 316 stainless steel body, bolts and nuts.
- B. Tapping Valves. The CCWD-approved tapping valve is the Mueller tapping gate valve conforming to the specifications requirements for Gate Valves in Paragraph 2.06 above. The valve outlet end connection shall be a mechanical joint type.

2.08 VALVE BOXES AND RISER PIPE

- A. Valve Boxes. Valve boxes shall be Christy Model G-5 with cast iron lids with the work "Water" cast into the lid.

- B. Riser Pipe. Riser pipe for the valve operator shall be 8 inch diameter PVC sewer pipe conforming to ASTM D-3034, SDR 35.

2.09 FIRE HYDRANT ASSEMBLIES

- A. Each fire hydrant assembly shall consist of a Clow 960 fire hydrant, a Clow No. 400A breakoff check valve, a 26 inch long hydrant bury piece with a mechanical joint 6 inch diameter end connection, and extension pieces as required. Bolts and nuts for flanged joints shall be Type 316 stainless steel.

2.10 SERVICE FITTINGS FOR COPPER TUBING

- A. Service fitting shall be Mueller Series 110 compression connections as listed below:

<u>Description</u>	<u>Mueller Model Number</u>	
	<u>3/4" & 1" Size</u>	<u>1-1/2" & 2" Size</u>
Ball Corporation Valve	B-25008	B-25008
Meter Angle Ball Valve	B-24258	B-24276
Union	H-15403	H-15403
Tee	H-15381	H-15381
Quarter Bend Union	H-15526	H-15526

- B. Angle Check Valves shall be products of Ford as listed below:

<u>Size</u>	<u>Model Number</u>
3/4"	HA31-323
1"	HA31-444
1-1/2"	HFA31-666
2"	HFA31-777

2.11 THRUST RESTRAINT DEVICES

- A. The following thrust restraint devices shall be provided where shown on the project drawings or otherwise permitted by the CCWD:
 1. Mechanical Joint Retainer Glands: Series 1110 HD Megalug Retainer Glands, a product of EBBA Iron Sales, Inc.
 2. Push-On Pipe Bell Restraint System: "Field-Lok" gasket, a product of U.S. Pipe and Foundry Co.

2.12 WATER METERS

- A. Water meters shall be Sensus meters with Orion automatic read devices. The Contractor shall purchase the meters through the CCWD.

2.13 METER BOXES

- A. Meter boxes shall be concrete, and shall be products of Christy Concrete Products, Inc. Meter box lids in non-traffic areas shall normally be concrete, and in traffic areas shall be galvanized steel. Lids shall have the work "Water" cast into the top. Extension pieces shall be provided as required so that the bottom of the meter box assembly is equal in elevation with the bottom of the meter or other device inside the box or as shown on the District Standard Installation Details or as directed by District field personnel. For water meter service connections, the following boxes and lids shall be provided:

CHRISTY METER BOXES AND LIDS

<u>Water Meter Size</u>	<u>Box No.</u>	<u>Non-Traffic Lid No.</u>
3/4"	B9	B9P
1"	B16	B16P
1-1/2"	As Req'd.	P Type

The "P" type lids are fabricated of reinforced concrete with a 1-3/4 inch hole for the automatic meter reading device. Where meter boxes are utilized for air release assemblies, blow off valve assemblies and other non-meter applications use the "D" type lid.

Where traffic-type lids are required, provide lid type as required by the District.

2.14 SERVICE SADDLES

- A. Service saddles shall be rated for a working pressure of 200 psi, and shall be bronze double strap type. Outlet shall be either AWWA taper or IPT as required for the pipe to be connected to the saddle. The District-approved service saddle is the Mueller BR2B Series.

2.15 FIRE HYDRANT GUARD POSTS

- A. Fire hydrant guard posts (bollards) shall be 4 inch diameter Schedule 40 galvanized steel pipe, 6 feet long.

2.16 CONCRETE

- A. Concrete shall contain a minimum 564 pounds of Portland cement per cubic yard. Minimum compressive strength after 28 days shall be 3,500 psi.

2.17 SAND BEDDING AND BACKFILL MATERIAL

Sand for use in bedding and backfilling water pipelines and service tubing shall conform the requirements contained in the current edition of "Standard Specifications" issued by Caltrans (California Department of Transportation), Section 19. Use of beach sand will not be permitted. In addition, the material shall have a resistivity of 1,000 ohm-cm or higher when tested by the water-saturated soil box method.

2.18 WATER

Water shall be potable water unless otherwise permitted by the CCWD, and will be made available to the Contractor by the CCWD from available facilities at or in the vicinity of the work site. Cost of water shall be paid by the Contractor using a portable meter obtained from the District.

2.19 TRENCH BACKFILL MATERIALS AND REPAVING MATERIALS

- A. Public Right of Way Areas. Materials within public right of way areas shall conform to the requirements of the agency having jurisdiction over the right of way area which for this project is the City of Half Moon Bay. In addition, the materials shall have a resistivity of 1,000 ohm-cm or higher when tested by the water-saturated soil box method.
- B. Non-Public Right of Way Areas. Materials shall conform to the requirements contained in the current edition of "Standard Specifications" issued by Caltrans (California Department of Transportation), Section 19. In addition, the material shall have a resistivity of 1,000 ohm-cm or higher when tested by the water-saturated soil box method.

PART 3 - EXECUTION

3.01 SEQUENCE OF UNDERGROUND UTILITY CONSTRUCTION

- A. The sequence of underground utility construction shall be that the deepest utility system shall be constructed first and the shallowest last, except that construction

of water pipelines shall in all instances be constructed before the joint electrical trench facilities.

3.02 EXISTING UNDERGROUND UTILITIES

- A. Prior to beginning work the Contractor shall notify USA to have the location of all underground utilities marked in the field. Prior to beginning machine excavation the Contractor shall verify the exact location of each underground utility by hand excavation (potholing).

3.03 SITE MEETING WITH DISTRICT FIELD PERSONNEL

- A. General. Prior to beginning work the Contractor shall arrange a meeting at the site with District field personnel to review the work requirements. The District will require satisfactory evidence such as field survey stakes or property corner survey markers of the location of the property line adjacent to which meter boxes and fire hydrants are to be installed before the exact location of meter boxes and fire hydrants can be determined.
- B. Easement Staking. For pipelines to be constructed on private property within an easement, the Applicant shall retain the services of a licensed land surveyor to install stakes on the edges of the easement. A stake shall be installed at each easement angle point and at a maximum distance of 50 feet apart between angle points. The surveyor shall provide a letter to the District describing the work performed, and a copy of the easement description shall be attached to the letter.

3.04 TRENCH EXCAVATION, BACKFILL AND REPAVING

- A. Trench Excavation. Trenching for pipe and service tubing shall be in open cut unless otherwise permitted by the CCWD. Existing pavement shall be cut with a pavement saw. Existing vegetation shall be preserved and protected. Tree roots over 2 inches in diameter shall not be cut or otherwise damaged. In unpaved areas topsoil shall be removed, stockpiled, and replaced after completion of trench backfilling. Work shall be performed to minimize disruption of traffic and so as not to obstruct driveways and other access roadways. Excavation shall be to a minimum depth of 4 inches below the pipe grade to accommodate the pipe bedding material. All pipe and service tubing shall be bedded in a 4 inch thick layer of sand.
- B. Trench Backfill:
 - 1. Pipe Zone Backfill. Backfilling work shall not begin until the CCWD has completed its inspection of the piping work. All pipe and service tubing shall

be backfilled with sand to a depth of 12 inches over the pipe. The sand shall be compacted to a minimum relative compaction of 95%.

2. Upper Level Backfill:

- a. Public Right of Way Areas. Backfilling shall conform to the requirements of the agency having jurisdiction over the right of way area which for this project is the City of Half Moon Bay.
- b. Non-Public Right of Way Areas. Under paved areas, backfill with structure backfill material compacted to a minimum 95% relative compaction. Under unpaved areas backfill with suitable excavated material compacted to a minimum 90% relative compaction.

C. Trench Repaving:

1. Public Right of Way Areas. Conform to the requirements of the agency having jurisdiction over the right of way area which for this project is the City of Half Moon Bay.
2. Non-Public Right of Way Areas. Repave to restore paved area to a condition equal or better than that which existed prior to start of work including restoration of gravel, crushed rock or oiled surfaces.
3. Steel Traffic Plates. Contractor shall have available in the vicinity of the job site a sufficient number of steel traffic plates to cover 20 linear feet of trench. These plates shall be utilized as required to maintain traffic flow in streets, allow access to driveways and similar private roadways, and for passage of emergency vehicles. Normally all trenches shall be backfilled at the completion of each work day and temporary asphalt concrete paving installed in all areas which had existing pavement including sidewalks.
4. Disposal of Excavated Materials. Excess and unsuitable materials shall be disposed of off the site in conformance with the requirements of regulatory agencies.
5. Curb, Gutter and Sidewalk. All damaged areas shall be replaced with new materials.
 - a. Public Right of Way Areas. Work shall be performed in conformance with the requirements of the agency having jurisdiction over the right of way area which for this project is the City of Half Moon Bay.
 - b. Non-Public Right of Way Areas. In privately owned areas restoration shall be to a condition equal or better than that which existed prior to start of work.

3.05 PIPING GENERAL REQUIREMENTS

A. Location:

1. Pipelines. Pipelines shall be installed true to line and grade as shown on the project drawings. Buried pipelines shall be installed at a continuously sloping grade between points of given elevation without low or high points. If high points cannot be avoided, an air release valve assembly shall be provided. Location of the pipeline may be modified by the CCWD to clear

- obstructions. Depth of cover over the pipeline to finish grade shall be as shown on the Improvement Plans.
2. Service Connection Tubing. Tubing shall be installed at a continuously sloping grade upward from the connection point with the water pipeline to the water meter box without low or high points. Tubing shall be installed with a minimum depth of cover of 30 inches unless otherwise permitted by the CCWD.
- B. Handling. Pipe and service tubing shall be handled carefully to prevent damage. Pipe and service tubing shall be plugged at the end of each work day and at other times as required to prevent the entry of water or foreign material.
 - C. Trench Conditions. Pipe and service tubing shall have a full, even bearing on the top of the trench bedding material. All piping shall be laid in the dry; the Contractor shall dewater the trench as required. Piping ends shall be clean when joints are made.
 - D. Clearance Distances of Water Pipelines from Other Underground Utilities and Facilities. Water pipelines and service tubing shall be installed with the following minimum clearances from other underground utilities:
 1. Electrical Wires or Conduits, Storm Drains, Telephone Conduits, Cable TV Wires or Conduits, Other Utilities, and Other Facilities. Minimum horizontal clearance shall be 4 feet; minimum vertical clearance shall be one foot.
 2. Sanitary Sewers Including House Laterals. Minimum horizontal clearance shall be 10 feet; minimum vertical clearance shall be one foot. Water pipelines shall pass over sanitary sewers where feasible. The Contractor shall provide written documentation to the CCWD for each instance where a sanitary sewer line is passing over a water pipeline.
 - E. Thrust Restraints. All piping shall be adequately braced against thrust. Buried pipe shall be provided with concrete thrust blocks in conformance with the CCWD Standard Installation Details. Concrete thrust blocks are required for restrained joint type pipe fittings.
 - F. Connections to Existing Water Pipelines. Connections of new water pipelines to existing water pipelines shall be made in a manner which does not require taking the existing water pipeline out of service. Where required, connections shall be made by the "hot tap" method. It shall be the responsibility of the Contractor to verify by actual field measurement all existing site conditions including the size and type of the existing pipeline prior to ordering the tapping sleeve and tapping valve for the hot-tap connection.
 - G. Fire Hydrant Guard Posts. Guard posts (bollards) shall be installed at all fire hydrants not protected by curbing and at locations with curbing where in the

opinion of the District the fire hydrant is not adequately protected from vehicle traffic. The number and location or required guard posts will be determined in the field by the District. The posts shall be installed 3 feet into the ground using concrete encasement. Following installation the interior of the pipe shall be filled with concrete.

- H. Leakage Test. All piping shall be tested for leakage in conformance with the requirements specified for each type of pipe. The Contractor shall provide all materials and labor required for the leakage test including the pump, pressure gauge, corporation stops, and temporary plugs and thrust blocks. The procedure shall be to (1) fill the pipeline with water to the required test pressure, (2) disconnect the test pump hose and wait for the duration of the test period to elapse, (3) reconnect the test pump and measure the volume of water required to re-establish the test pressure. Following completion of the test the Contractor shall dispose of the leakage test water in conformance with NPDES regulations. It shall be the Contractor's responsibility to block off during the testing all piping appurtenances which may be damaged by the test pressure and to provide suitable thrust restraints. Leakage testing shall be witnessed by the District.
- I. Disinfection and Bacteriological Testing:
1. General. All piping systems conveying potable water shall be disinfected. Disinfection shall be in conformance with AWWA Standard C651 except as otherwise required by this document. The Contractor shall provide all materials and labor required for the disinfection process and shall dispose of the disinfection solution in conformance with NPDES requirements including dechlorination.
 2. Procedure:
 - a. Preliminary Preparation. The system shall be flushed with water to remove and dirt introduced into the piping during construction operations. All service outlets and fire hydrants shall be opened and the flushing operations continued until clear water flows from each outlet (Note: flushing shall be deferred until after completion of the disinfection process if tablets have been placed in the pipeline during the construction for disinfection).
 - b. Introduction of Disinfection Agent. The disinfection agent may be any chlorine compound approved by AWWA C651. The disinfection agent shall be injected slowly and continuously into the system until tests indicate a chlorine residual concentration of at least 25 mg/L at each pipeline outlet. All outlets shall then be closed and this condition maintained for 24 hours.
 - c. Preliminary Tests. After 24 hours tests shall be made for residual chlorine at each pipeline outlet. The minimum acceptable concentration shall be 10 mg/L. If the concentration is less than 10 mg/L, the disinfection procedure shall be repeated. If the concentration at each outlet is over 10 mg/L, the system shall be

flushed out until a test at each outlet indicates a chlorine residual of less than 1.0 mg/L.

- d. Bacteriological Analyses. The CCWD will obtain samples from the piping being disinfected and have bacteriological analyses performed by a State certified laboratory. The number of samples taken shall conform to AWWA C651 (unless otherwise permitted by the District) and State Department of Health Services requirements. Costs of bacteriological analyses shall be paid by the Contractor.
- e. Final Approval. The requirement for final approval is that each water sample analyzed shall be in conformance with State disinfection requirements. If all bacteriological analyses are not in conformance with these requirements the disinfection procedure shall be repeated.
- f. Disinfection by Spraying or Swabbing. Water piping installations which cannot be disinfected using the procedure described above shall be disinfected by spraying or swabbing the pipeline interior with a minimum 1% chlorine solution immediately prior to installation.

3.06 DUCTILE IRON PIPE INSTALLATION

- A. General. Pipe installation shall be in conformance with Sections 1 through 3 of AWWA Standard C600 except as otherwise required by this Specification section. Pipe installation shall also be in conformance with the recommendations of the manufacturers of the pipe and fittings.
- B. Handling. Pipe shall be handled using pipe slings. Use of a forklift will not be permitted. Pipe ends shall be kept clean and shall be plugged at the end of each day's work or when pipe is not being laid to prevent the entry of water or foreign material.
- C. Restrained Joints and Concrete Thrust Blocks. All pipe joints shall be restrained using the materials described in Part 2 of this Specification section and also with a concrete thrust block.
- D. Pipe Taps. Pipe taps will be permitted in accordance with the following schedule:

Pipe Tap Schedule

<u>Pipe Diameter</u>	<u>Maximum Tap Size</u>	
	<u>Without Saddle</u>	<u>With Saddle</u>
4"	3/4"	2-1/2"
6"	1-1/4"	2-1/2"
8"	1-1/2"	2-1/2"
10" and larger	2"	2-1/2"

If the piping connection of larger pipes than permitted for taps is required, standard tee fitting shall be utilized.

- E. Maximum Pipe Joint Deflection. Special care shall be taken so as not to exceed the manufacturer's recommendations for joint deflection. For bends exceeding the applicable deflection, fittings shall be installed.

- F. Polyethylene Encasement. All ductile iron piping including pipe, fittings, valves and piping appurtenances shall be polyethylene encased. Installation shall be in conformance with either Methods A or B of AWWA Standard C105. The polyethylene encasement shall prevent contact between the piping and the surrounding backfill and bedding material but is not intended to be a completely airtight or watertight enclosure. Overlaps shall be secured by the use of adhesive tape furnished with the polyethylene encasement.
- G. Leakage Test. All ductile iron piping shall be tested for leakage for a duration of 2 hours at a test pressure of 250 psi. Allowable leakage for below grade piping shall not exceed the following:

<u>Pipe Diameter</u>	<u>Allowable Leakage per 1000 Linear Feet of Pipe During the 2 Hour Test Period</u>
4"	0.47 gallons
6"	0.71 gallons
8"	0.95 gallons
10"	1.19 gallons

3.07 COPPER SERVICE TUBING INSTALLATION

- A. Installation. Installation of copper tubing including jointing shall be in conformance with the recommendations of the manufacturers of the tubing and fittings.
- B. Leakage Test. Copper tubing shall be hydrostatically tested for leakage at 250 psi for a 2 hour duration test period. No leakage will be permitted.

3.08 INSTALLATION OF VALVES AND OTHER PIPING ACCESSORIES

- A. Installation of valves and other piping accessories shall be in conformance with the recommendations of the manufacturer of the product and in conformance with the District Standard Installation Details. A valve box shall be provided for each below grade valve. The Contactor shall demonstrate to the satisfaction of the District the proper performance of each piping accessory prior to project acceptance.
- B. Air Relief Valve Assemblies. An air relief valve assembly shall be installed at each pipeline high point where in the opinion of the CCWD entrapment of air could occur. The known locations where air relief valves are required are shown on the project Drawings. During construction, if additional pipeline high points are created which in the opinion of the CCWD could result in air entrapment, an air relief valve shall be installed at each of these additional locations.

- C. Tapping Sleeve and Valve Installation. Installation of tapping sleeves and tapping valves shall be performed only by CCWD-approved contractors. The only currently approved tapping contractor is DC Tapping.

3.09 FIRE HYDRANT GUARD POSTS

- A. The number of guard posts (bollards) to be installed and their location will be determined in the field by the CCWD. Each post shall be installed 3 feet into the ground using concrete encasement, and following installation the post shall be filled with concrete.

3.11 SERVICE CONNECTION INSTALLATION

- A. Piping for Water Meter Installation. The piping for the water meter installation shall be constructed at a sufficient depth below grade to allow sufficient space for installation of the water meter and its automatic metering reading head. The required distance will vary depending on the size of water meter. CCWD personnel will provide the Contractor with the required information. Water meter boxes shall be located with the following horizontal clearance distances: (1) minimum of 10 feet from sanitary sewer laterals, (2) minimum of 5 feet from other utility service boxes. Water meter boxes shall not be located within driveways
- B. Irrigation Service Connections. Irrigation service connections where shown on the project drawings shall consist of both an irrigation water meter service connection and a backflow prevention device.

3.12 AS-BUILT DRAWINGS

- A. Prior to project acceptance, the Contractor shall provide the District with a set of the project drawings marked for As-Built conditions. The as-built markings shall include the following (1) all changes made to the project drawings during construction, (2) field measurements locating the actual location of the pipeline horizontally from property corners and other surface facilities, (3) horizontal distance of each valve from a minimum of 2 permanent surface facilities such as utility poles, curb and gutter, etc., (4) depth of cover for the pipeline at all locations, as constructed, and (5) the locations of all underground facilities encountered during construction including horizontal location and depth of cover. In addition, documentation shall be provided describing each location where a sanitary sewer pipeline passes over a water pipeline.

3.13 CCWD STANDARD INSTALLATION DETAILS AND SPECIAL INSTALLATION DETAILS

- A. General. Installation of piping and appurtenances shall be in conformance with CCWD Standard Installation Details and special installation details prepared by the CCWD for the project. If there are conflicts between the CCWD Standard Installation Details and the project Improvement Plans, conflict resolution shall be performed by the CCWD.
- B. Standard Installation Details. Details known to be required for the Phase 2 Church Street Pipeline Extension Project are described below and shown on the project drawings:
1. Gate Valve.
 2. Valve Location and Marking.
 3. Blow Off Valve. Location of blow off valve box shall be as generally shown on the project engineering drawing. The exact location shall be determined by CCWD field personnel in the field.
 4. Fire Hydrant. Location of fire hydrants shall be as generally as shown on the project engineering drawing. The exact location shall be as determined by CCWD field personnel in the field. Minimum clearance distance from fire hydrant piping and joint trench facilities shall be: 4 feet horizontal and 1 foot vertical.
 5. Horizontal Thrust Blocks.
 6. Vertical Thrust Blocks.
 7. $\frac{3}{4}$ " Domestic Service Connection with 1" Fire Service Connection. Location of service connection facilities shall be as generally as shown on the project engineering drawing. The exact locations shall be as determined by CCWD field personnel in the field. Minimum clearance distance from service connection piping and joint trench facilities shall be: 4 feet horizontal and 1 foot vertical. Meter boxes shall not be located within driveways.
- C. Special Installation Details. There are no special installation details known to be required for this project. If required, special installation details will be prepared by the District and provided to the Contractor.

END OF WRITTEN DOCUMENT

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: July 12, 2016

Report

Date: July 8, 2016

Subject: General Manager's Report

Recommendation:

None. Information only.

Background:

For this month's report, I would like to highlight the following:

1. My Partial Retirement Schedule:

I have transitioned to my 50% schedule effective July 11. I will generally be in the office two days per week and will be available to the Board and staff by phone or email at other times.

2. Strategic Planning Retreat:

Board members have expressed interest in having a strategic planning retreat. I would like to discuss potential dates for such a session.

MONTHLY REPORT

To: David Dickson, General Manager
From: Joe Guistino, Superintendent of Operations
Agenda: July 12, 2016

Report

Date: July 7, 2016

Monthly Highlights

Unidirectional Flushing Program (UFP) - We have completed two weeks of the 4 week flushing program scheduled for 2016.

California Water Resources Control Board (CWRCB) - Our new state engineer toured the treatment plants and reservoir sites and only had minor issues.

Source of Supply

Crystal Springs, Pilarcitos and Denniston Reservoirs and Denniston Well #9 were the sources of supply in June, supplying 62 million gallons (MG) of water. Thirty percent of production was from Denniston Water Treatment Plant (WTP), which ran every day in June.

System Improvements

Vegetation Management

A number of diseased trees were cut at Nunes WTP some of which were threatening to fall on our facility or which were contributing excessive needles and debris to the open water areas. Crews also started our annual program of weed abatement at our tanks and pump stations.

Tank Mixers

We acquired two more PAX mixers (existing one in Miramar Tank) to help reduce the Total Trihalomethane (TTHM) formation in El Granada Tanks 1 and 2. District staff will install them in July.

Other Activities Update:

Unidirectional Flushing Program

The UFP for 2016 focusses on the mains in the El Granada area and was initiated on 6 June. We have placed notices in the Half Moon Bay (HMB) Review as well as posted signage at the El Granada Post Office. The first day of flushing caused brown water complaints but we quickly remedied the problem. At this time we have completed two weeks of flushing with no further brown water issues. The mains are quite dirty but are cleaning up well. We have two more weeks of flushing, one at the end of July and the other the beginning of August.

Regulatory Agency Interaction

California Water Resources Control Board

We toured District facilities with our new CWRCB inspector Ryan Thissen on 14 and 28 June. We gave him a comprehensive tour of Denniston and Nunes WTP on the 14th and the District tank sites on the 28th. He was impressed with the condition and operation of our facilities and had only a few recommendations. The report is pending at this time but he did mention the following:

- El Granada (EG) Tank #2 overflow needs a proper air gap and HMB Tank overflow needs to be screened.
- Miramar Tank roof needs to be swept of debris
- Denniston Tank roof needs to be coated and the hatch has a small hole
- The fiberglass ladder at Miramontes Tank is slivering and should be replaced.

Safety/Training/Inspections/Meetings

Meetings Attended

7 June - Prebid meeting for the El Granada Tank 3 Rehabilitation Project

14 June - Met with Ryan Thissen of SWRCB to discuss status of the District

17 June - Met with Andreini Bros in the field to discuss Avenue Cabrillo Project changes in staging.

20 June - Met with Carnoustie to discuss a new development in the works.

27 June - Tour of Denniston WTP with Angelica Hugh

29 June - Met with CalCon to discuss Supervisory Control And Data Acquisition (SCADA) program status and communication options.

29 June - Interviewed potential temp worker Cody Dexter

Tailgate safety sessions in October

13 June - Listen Up to Protect Your Hearing

17 June - Striking Safely Against Lightning

20 June - Temperature Extremes Can Be Deadly

27 June - Job Hazard Analysis: Identify and Reduce Hazards

Preventive Solutions Safety Committee and Training

There was a quarterly Safety Committee meeting in June. Part of the discussion was on the highlights of the Confined Space Training with the Coastside Fire Protection District.

Safety Training for June was on back injury prevention and industrial ergonomics. Damrosch, Jahns, Donovan, Schmidt, Patterson and Davis were in attendance.

Training

Treatment/Distribution Operator Dustin Jahns took and his Department of Motor Vehicle (DMV) Class B license test. He passed the written part and must retake the practical part.

Injury

Senior Treatment Operator Don Patterson tripped and fell while reading meters and sprained his left hand and fractured his little finger. He was sent to the doctor who put him on light duty. He will be visiting the doctor again in July for an update.

Safety Improvement

We have procured halon fire extinguishers for the treatment plants and Crystal Springs Pump Station. These types of extinguishers will not cause damage to electrical systems if we ever have the need to use them.

Projects

El Granada Pump Stations 1 and 2 Emergency Generator Project

Notice to proceed will be issued in July.

El Granada Tank 3 Rehabilitation and Coating Project

We received 4 bids for this project which were opened on 21 June. The lowest bid was for \$614,800 and the highest \$760,000. The lowest bidder was disqualified for noncompliance with our contractor requirements. See staff report.

Avenue Cabrillo Project Phase 3B

This project is presently under construction and is estimated to be complete in August.

Denniston Pump Station and Bridgeport Pipeline Project

Went out to bid in June. The mandatory walk-through was on 7 July and bids are scheduled to be opened on 26 July.