

July 12, 2019
Sacramento, California

The Board of Trustees of the American River Flood Control District met in regular session in its office at 185 Commerce Circle, Sacramento, CA at 11:00 a.m. on Friday, July 12, 2019. In attendance were Trustee Holloway, Trustee Johns, Trustee Vander Werf and Trustee L'Ecluse. Trustee Shah was absent. Trustee Holloway presided. Also present from the District were General Manager (GM) Tim Kerr, Superintendent Ross Kawamura, Legal Counsel David Aladjem and Office Manager Malane Chapman. One member of the public was present.

Item No. 1 Public Comments on Non-Agenda Items: There were no comments on non-agenda items from members of the public.

Item No. 2 Approval of Consent Agenda Items: On a motion by Trustee Johns seconded by Trustee L'Ecluse, the Board unanimously approved items 2a) Minutes of Regular Meeting on June 14, 2019, 2b) Approval of Report of Investment Transactions May 2019 (City Pool, LAIF, River City) and Treasurer's Certification, 2c) District Financial Reports: Statement of Operations (June 2019) and Cash Flow Report, 2d) Conflict of Interest Code – Biennial Review, 2e) Accounting Services for FY 2018-2019 Audit and 2f) Correspondence: None.

Following explanation by Legal Counsel Aladjem, Trustee Johns motioned to add this item to the agenda based on the facts that this is information that came to our attention after the agenda was posted also due to the fact that we have limited time planning before flood season and because of the implicit or explicit regulatory threat has been posed by DWR in relation to this item seconded by Trustee Vander Werf, the Board unanimously approved this motion.

Added Item: Pipe Inspection Department of Water Resources (DWR): GM Kerr briefed the Board on the Deferred Maintenance Project Grant. In 2017 the District signed an agreement for grant funding to inspect approximately 46 pipes within the District. The City of Sacramento owns 22 of these pipes and they are currently working on this step. The County of Sacramento owns 8, some are with Regional Sanitation and a few are with Caltrans. Our focus has been on the 5 abandoned pipes. Also, there are 84 erroneous "not found" pipes on the list and the State is now asking that some effort be made to look at these 84 pipes. The District hired Mead & Hunt Consultants to investigate the "not found" pipes and per our consultant, efforts have eliminated about 37 of the 84 pipes. The State informed the District that they no longer had the capacity to do any ground penetrating radar (GPR) to find "not found" pipes and they want American River Flood Control District to conduct the work and be reimbursed through the grant. GM Kerr asks the Board if they would like the District to continue with the work. GM Kerr informed the Board that per the grant 100% of the cost would be reimbursed back to the District. Trustee Vander Werf asked about the estimated cost. Mead & Hunt had informed GM Kerr that there are approximately 51 locations that need GPR at a cost of roughly \$2000

per site plus administrative costs. Trustee Vander Werf asked what happens if there is a problem with the inspections. GM Kerr informed the Board that all Phase Two (rehab of pipe) grant work would need to be completed in the Spring as the grant period expires June 30, 2020. GM Kerr asked the Board for permission to engage with Mead & Hunt to start drafting contracts for subcontractors to perform GPR. Trustee Johns moved GM Kerr's request to have Mead & Hunt start drafting contracts seconded by Trustee L'Ecluse, the Board unanimously approved the item.

Item No. 3 Accounts Payable and General Fund Expenses (June 2019): Trustee Vander Werf requested clarification on payments to Signs Now and Sunbelt Rentals. Following explanation by staff and on a motion by Trustee Vander Werf seconded by Trustee Johns, the Board unanimously approved payments on the Schedule of Accounts Payable (June 2019) of \$89,638.37 and General Fund Expenses of \$65,438.28 (total aggregate sum \$155,076.65).

Item No. 4 Sourcewell Contract Bobcat Compact Excavator Purchase: Following explanations by staff and on a motion by Trustee L'Ecluse seconded by Trustee Vander Werf, the Board unanimously approved the purchase of the Bobcat excavator.

Item No. 5 Endorsement of CA Central Valley Flood Board Permit – Applicant: Regional Sanitation – Description: Pipe Abandonment at Two Locations: Following explanation by staff, Trustee Vander Werf motioned to add two special conditions, first the pipe will be removed by Regional Sanitation at any time it comes up in the future and second, that the District wants someone who is qualified to do Quality Control unless the State can satisfy this need seconded by Trustee Johns, the Board unanimously approved this item.

Item No. 6 Assembly Bill 137 – Declaring Levees as Critical Public Infrastructure: Following explanation by staff and on a motion by Trustee L'Ecluse seconded by Trustee Johns, the Board unanimously supports Assembly Bill 137.

Item No. 7 North Sac Land Co - Lease: Following explanation by staff and on a motion by Trustee Johns seconded by Trustee Vander Werf, the Board unanimously approved the North Sac Land Co. lease.

Item No. 8 Administrative Staff Reports:

a) *General Manager Tim Kerr reported on the following:*

- General Manager's June Meeting Summary;
- *Policy Committee Meeting – Recreational Trails Policy;*
- *CVFPB Enforcement Action – Best Western Sandman Motel;*
- *CVFBB Tour of District Levees;*
- Hydrologic Conditions: Folsom Lake 91% of capacity with an outflow 4,302 cfs. The gauge at the I Street Bridge shows a water surface elevation of 8 feet above sea level;
- Next Board Meeting and District Tour is scheduled for August 9, 2019.

b) *Legal Counsel David Aladjem had nothing further to report.*

c) *Office Manager Malane Chapman*

- 2019-2020 Newsletter: Hope to schedule a Newsletter Committee Meeting within the next couple of months.

Item No. 9 Operations and Maintenance Staff Reports:

a) *Superintendent Ross Kawamura reported on:*

- Crew activities including fence repair, mowing, tree removal, equipment maintenance, camp cleanup and trimming.

Item No. 10 Questions and Comments by Trustees: Trustees Holloway and Trustee Vander Werf attended the College Green National Night Out. Trustee Vander Werf suggested changing the name of the Newsletter Committee to Public Outreach. Trustee L'Ecluse attended the bridge opening in Rio Linda and asked what as Trustees is there to indicate that Trustees are Trustees of the Board. Trustee Holloway suggested ordering business cards and getting name plates.

Item No. 11 and 12 Tour of District Facilities/Adjourn: There being no further business requiring action by the Board, the meeting was adjourned to a tour of the District levees and facilities by Trustee Holloway at 12:43 p.m.

Attest:

Secretary

President

**American River Flood Control District
Staff Report**

Investment Transactions Summary; June 2019

LAIF:

- There were no transactions in this account during the month of June.

City Pool A

- On June 17, 2019 a transfer was received from River City Bank in the amount of \$500,000.00.
- Accrued Interest Receivable for the month of June was \$17,536.14.
- As of June 30, 2019, the balance of Interest Receivable in this account was \$194,073.47.

Interest Receivable is accrued and transferred to the Cash Balance at the discretion of the City.

River City Bank Money Market:

- On June 17, 2019 a transfer was received from River City Bank Checking in the amount of \$50,000.00.
- On June 17, 2019 a transfer was sent to City Pool A in the amount of \$500,000.00.
- On June 30, 2019, a monthly interest payment was deposited in the amount of \$477.49.
- Total amount of Accounts Payable cleared during the month of June was \$35.00.

River City Bank Checking:

- On June 12, 2019 a miscellaneous deposit was made in the amount of \$42.04.
- On June 17, 2019 a transfer was sent to City Pool A in the amount of \$500,000.00.
- On June 30, 2019, a monthly interest payment was deposited in the amount of \$41.66.
- Total amount of Accounts Payable cleared during the month of May was \$132,774.04.

**American River Flood Control District
Investment Transaction Report
June 2019**

Item 2b

Balance and Transactions

Account		LAIF	City Pool A	River City Bank Money Market	River City Bank Checking
Beginning Balance	6/1/19	\$452,875.51	\$7,933,300.92	\$473,750.96	\$569,840.53
Transactions					
City Pool A Interest **	6/30/19		17,536.14		
Miscellaneous Deposit	6/12/19				42.04
Transfer from River City Money Market to City Pool A	6/17/19		500,000.00	(500,000.00)	
Transfer from River City Checking to River City Money Market	6/17/19			50,000.00	(50,000.00)
River City Bank Interest	6/30/19			477.49	41.66
Accounts Payable (cleared)				(35.00)	(132,774.04)
Ending Balance:	6/30/19	\$452,875.51	\$8,433,300.92	\$24,193.45	\$387,150.19

**City Pool A Interest is accrued and deposited in the account at the discretion of the City.

Interest

Date:	July 2018	Aug 2018	Sep 2018	Oct 2018
LAIF	1.94	2.00	2.06	2.14
City Pool A	2.12	2.20	2.89	2.27
River City Bank Money Market	0.99	1.65	1.73	1.79
River City Bank Checking	0.00	0.06	0.06	0.08
Date:	Nov 2018	Dec 2018	Jan 2019	Feb 2019
LAIF	2.21	2.29	2.36	2.39
City Pool A	2.33	2.41	2.45	2.63
River City Bank Money Market	1.87	1.95	2.01	2.10
River City Bank Checking	0.09	0.06	0.09	0.10
Date:	Mar 2019	Apr 2019	May 2019	June 2019
LAIF	2.44	2.45	2.45	2.43
City Pool A	2.5	2.58	2.56	2.56
River City Bank Money Market	2.14	2.19	2.22	2.23
River City Bank Checking	0.10	0.10	0.10	0.10

**American River
Flood Control
District**

AMERICAN RIVER FLOOD CONTROL DISTRICT

MONTHLY REVIEW – JUNE 2019

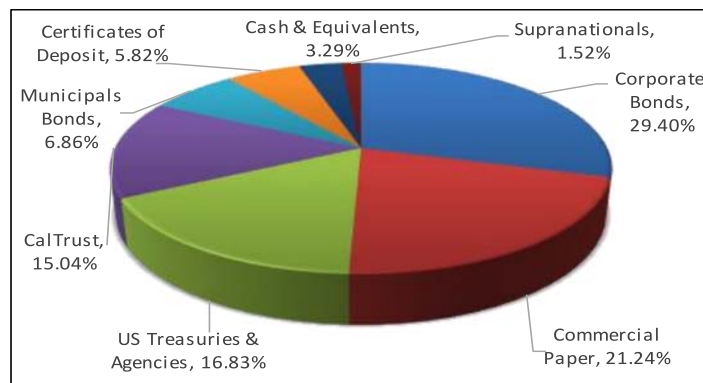
STRATEGY

The ARFCD funds are invested in the City of Sacramento’s Pool A investment fund. The Fund is invested pursuant to the objectives and requirements set forth in the City’s investment policy. The three objectives of the investment policy, in order of priority, are (1) the preservation of capital by the investment in safe instruments, (2) the liquidity needs of the City and pool participants so such parties will have access to cash when they need it, and (3) the maximizing of current income while remaining consistent with the other more important objectives. The City’s investment policy incorporates applicable provisions of state law including, among other things, the prudent person standard and California Code Section 53601 pertaining to eligible investments.

PORTFOLIO STATISTICS

Beginning Balance	8,109,838
Contributions	500,000
Withdrawals	-
Interest Earned	17,536
Ending Balance	8,627,374

CITY POOL A PORTFOLIO COMPOSITION



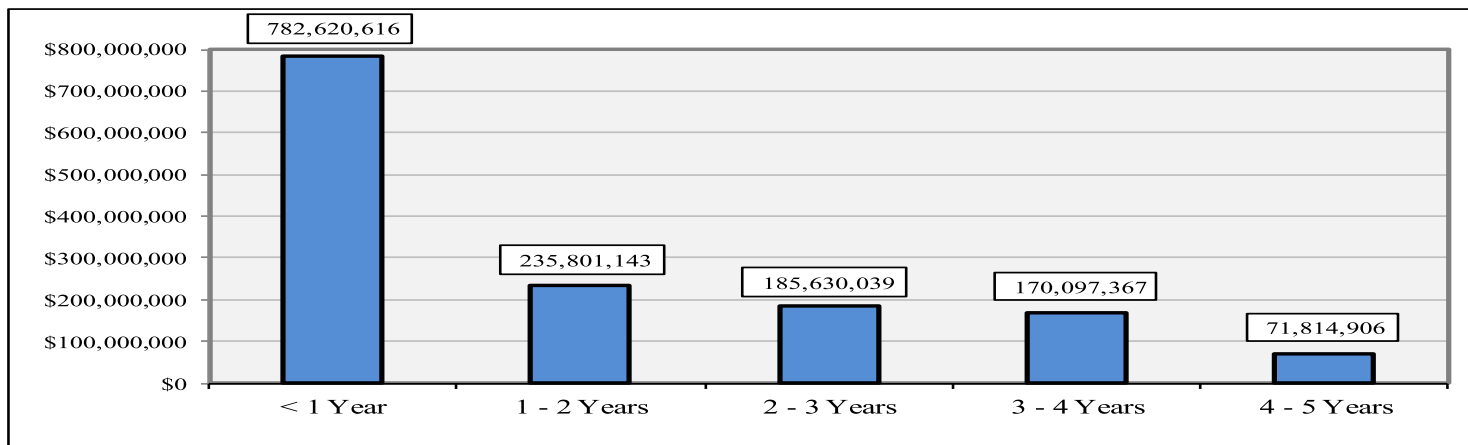
PERFORMANCE COMPARISON

City Pool A	2.56%
LAIF	2.43%
90 Day T-Bill	2.13%
Federal Funds	2.36%

Asset Type	Pct. Assets	YTM
Corporate Bonds	29.40%	2.61%
Commercial Paper	21.24%	2.75%
US Treasuries & Agencies	16.83%	2.24%
CalTrust	15.04%	2.50%
Municipals Bonds	6.86%	2.23%
Certificates of Deposit	5.82%	2.62%
Cash & Equivalents	3.29%	2.17%
Supranationals	1.52%	2.04%

CITY POOL A MATURITY SCHEDULE

Maturity	Market Value	Pct. Holdings
< 1 Year	782,620,616	54.12%
1 - 2 Years	235,801,143	16.31%
2 - 3 Years	185,630,039	12.84%
3 - 4 Years	170,097,367	11.76%
4 - 5 Years	71,814,906	4.97%
Total	1,445,964,071	100.00%



City of Sacramento
 CASH LEDGER
American River Flood Control District
From 06-01-19 To 06-30-19

Item 2b

All Cash Accounts

<u>Trade Date</u>	<u>Settle Date</u>	<u>Tran Code</u>	<u>Quantity</u>	<u>Security</u>	<u>Amount</u>	<u>Cash Balance</u>
Pool A Cash						
06-01-19				Beginning Balance		7,933,300.92
06-17-19	06-17-19	li		Pool A Cash	500,000.00	8,433,300.92
					500,000.00	
06-30-19				Ending Balance		8,433,300.92
Pool A Interest Receivable						
06-01-19				Beginning Balance		176,537.33
06-30-19	06-30-19	in		Pool A Cash	17,536.14	194,073.47
					17,536.14	
06-30-19				Ending Balance		194,073.47

Local Agency Investment Fund
P.O. Box 942809
Sacramento, CA 94209-0001
(916) 653-3001

www.treasurer.ca.gov/pmia-laif/laif.asp
July 01, 2019

AMERICAN RIVER FLOOD CONTROL DISTRICT

DISTRICT ENGINEER/MANAGER
165 COMMERCE CIRCLE, SUITE D
SACRAMENTO, CA 95815

PMIA Average Monthly Yields

Account Number:
90-34-002

Tran Type Definitions

June 2019 Statement

Account Summary

Total Deposit:	0.00	Beginning Balance:	452,875.51
Total Withdrawal:	0.00	Ending Balance:	452,875.51



River City Bank

WWW.RIVERCITYBANK.COM
PO Box 15247, Sacramento, CA 95851-0247
Return Service Requested

Item 2b



Last statement: May 31, 2019
This statement: June 30, 2019
Total days in statement period: 30

AMERICAN RIVER FLOOD CONTROL DISTRICT
C/O ROBERT MERRITT, CPA
4000 MAGNOLIA HILLS DR
EL DORADO HILLS CA 95762-6561

Page 1
0811100952
(1)

Direct inquiries to:
916-567-2836

Public Fund Money Market

Account number	0811100952	Beginning balance	\$473,750.96
Enclosures	1	Total additions	50,477.49
Low balance	\$23,715.96	Total subtractions	500,035.00
Average balance	\$263,734.63	Ending balance	\$24,193.45
Avg collected balance	\$263,734		
Interest paid year to date	\$4,822.01		

DEBITS

Date	Description	Subtractions
06-17	Outgoing Wire 201906170054664 CITY OF SACRAMENTO	500,000.00
06-17	Wire Fee Out Manual 201906170054664 CITY OF SACRAMENTO	35.00

CREDITS

Date	Description	Additions
06-17	Cash Mgmt Trsfr Cr REF 1681258L FUNDS TRANSFER FRMDEP XXXXX0736 FROM	50,000.00
06-30	Interest Credit	477.49

DAILY BALANCES

Date	Amount	Date	Amount	Date	Amount
05-31	473,750.96	06-17	23,715.96	06-30	24,193.45

AMERICAN RIVER FLOOD CONTROL DISTRICT
June 30, 2019

Page 2
0811100952

INTEREST INFORMATION

Annual percentage yield earned	2.23%
Interest-bearing days	30
Average balance for APY	\$263,734.63
Interest earned	\$477.49

OVERDRAFT/RETURN ITEM FEES

	Total for this period	Total year-to-date
Total Overdraft Fees	\$0.00	\$0.00
Total Returned Item Fees	\$0.00	\$0.00



River City Bank

WWW.RIVERCITYBANK.COM

PO Box 15247, Sacramento, CA 95851-0247

Return Service Requested

Item 2b



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AMERICAN RIVER FLOOD CONTROL DISTRICT
C/O ROBERT MERRITT, CPA
4000 MAGNOLIA HILLS DR
EL DORADO HILLS CA 95762-6561

Page 1
0811090736
(33)

Direct inquiries to:
916-567-2836

Public Fund Interest Checking

Account number	0811090736	Beginning balance	\$569,840.53
Enclosures	33	Total additions	83.70
Low balance	\$387,108.53	Total subtractions	182,774.04
Average balance	\$506,791.04	Ending balance	\$387,150.19
Avg collected balance	\$506,789		

CHECKS

Number	Date	Amount	Number	Date	Amount
7011	06-17	47.22	7029	06-24	2,026.21
7012	06-24	26,554.06	7030	06-24	76.42
7013	06-27	28.55	7031	06-20	7,200.00
7014	06-24	344.38	7032	06-25	3,250.50
7015	06-25	172.94	7033	06-24	41.59
7016	06-25	683.03	7034	06-25	36.48
7017	06-25	105.16	7037 *	06-27	30.00
7018	06-27	295.00	7038	06-24	1,023.08
7019	06-25	350.00	7039	06-24	1,012.67
7021 *	06-24	213.75	7040	06-24	775.44
7022	06-25	92.00	7041	06-25	761.40
7023	06-24	70.00	7042	06-25	3,129.50
7024	06-24	3,018.00	7043	06-28	183.66
7025	06-24	49.00	7044	06-25	870.42
7026	06-24	2,091.32	7045	06-25	459.37
7027	06-26	721.33			
7028	06-25	528.52			

* Skip in check sequence

AMERICAN RIVER FLOOD CONTROL DISTRICT
June 30, 2019

Page 2
0811090736

DEBITS

Date	Description	Subtractions
06-03	' Direct S/C STOP PAYMENT FEE	30.00
06-14	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 190614 946000047	25,187.91
06-17	' Cash Mgmt Trsfr Dr REF 1681258L FUNDS TRANSFER TO DEP XXXXX0952 FROM	50,000.00
06-18	' ACH Withdrawal CALPERS 1900 100000015697147	2,796.34
06-18	' ACH Withdrawal CALPERS 1900 100000015699342	2,826.12
06-18	' ACH Withdrawal HEALTHEQUITY INC HealthEqui 190618	302.95
06-18	' ACH Withdrawal CALPERS 3100 100000015665840	230.42
06-18	' ACH Withdrawal CALPERS 3100 100000015665789	959.28
06-18	' ACH Withdrawal CALPERS 3100 100000015636195	1,151.14
06-18	' ACH Withdrawal CALPERS 3100 100000015665701	2,849.36
06-18	' ACH Withdrawal CALPERS 3100 100000015636157	3,059.18
06-18	' ACH Withdrawal CALPERS 1900 100000015689286	4,322.61
06-20	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 190620 946000047	535.65
06-26	' ACH Withdrawal CALPERS 3100 100000015665840	1,189.70
06-26	' ACH Withdrawal CALPERS 3100 100000015665743	2,849.36
06-27	' ACH Withdrawal CALPERS 1900 100000015704164	2,826.12
06-28	' ACH Withdrawal HEALTHEQUITY INC HealthEqui 190628	150.00
06-28	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 190628 946000047	25,266.90

CREDITS

Date	Description	Additions
06-12	Deposit	42.04

AMERICAN RIVER FLOOD CONTROL DISTRICT
 June 30, 2019

Page 3
 0811090736

Date	Description	Additions
06-30	Interest Credit	41.66

DAILY BALANCES

Date	Amount	Date	Amount	Date	Amount
05-31	569,840.53	06-18	476,120.04	06-27	412,709.09
06-03	569,810.53	06-20	468,384.39	06-28	387,108.53
06-12	569,852.57	06-24	431,088.47	06-30	387,150.19
06-14	544,664.66	06-25	420,649.15		
06-17	494,617.44	06-26	415,888.76		

INTEREST INFORMATION

Annual percentage yield earned	0.10%
Interest-bearing days	30
Average balance for APY	\$506,789.64
Interest earned	\$41.66

OVERDRAFT/RETURN ITEM FEES

	Total for this period	Total year-to-date
Total Overdraft Fees	\$0.00	\$0.00
Total Returned Item Fees	\$0.00	\$0.00

CERTIFICATION

The American River Flood Control District's investment portfolio [] is [is not] in compliance with the District's Financial Management Investments Plan.

The District's investment portfolio is not in compliance in the following respects:

A cash flow analysis confirms that the District [is] [is not] expected to be able to meet its expenditure requirements for the next six months.

The District's cash is insufficient to meet obligations for the next six months as a result of the following:

Attached hereto are the most recent statements of accounts of the following District accounts:

- LAIF Account, State Treasurer's Office **Dated June 2019**
- Investment Pool A Account, City of Sacramento **Dated June 2019**
- District Checking Account, River City Bank **Dated June 2019**
- District Repurchase Account, River City Bank **Dated June 2019**

Certified by: _____ Date: _____
Rachelanne Vander Werf, District Treasurer

American River Flood Control District
Statement of Operations
July 1, 2018 to June 30, 2019 (Twelve Months Ending of Fiscal 2019)
For Internal Use Only

	Year to Date July 1, 2018 to June 30, 2019	Budget	Percent of Budget	
Revenues				
Benefit assessment	\$ 1,330,394	\$ 1,429,793	93.05%	
Consolidated capital assessment	980,000	980,000	100.00%	
Interest	216,148	77,267	279.74%	
O & M agreements	-	231,801	0.00%	
Miscellaneous	6,021	-	Not budgeted	
Total Revenues	2,532,563	2,718,861	93.15%	
M & O Expenses				
Salaries and wages	675,897	730,938	92.47%	
Payroll tax expense	50,558	58,475	86.46%	
Pension expense	139,732	132,418	105.52%	
Compensation insurance	34,286	36,547	93.81%	
Medical/dental/vision	179,145	211,112	84.86%	
Fuel/oil reimbursement	28,185	30,000	93.95%	
Equipment rental	48,386	20,000	241.93%	
Equipment repairs/parts	49,096	40,000	122.74%	
Equipment purchases (< \$5,000)	16,907	15,000	112.71%	
Shop supplies	15,807	12,000	131.73%	
Levee maint. (supp. & material)	27,900	10,000	279.00%	
Levee maint. chemicals	12,066	20,000	60.33%	
Levee maint. services	58,642	60,000	97.74%	
Rodent abatement (supplies & materials)	5,570	10,000	55.70%	
Employee uniforms	1,145	5,000	22.90%	
Staff training	4,303	10,000	43.03%	
Miscellaneous	1,251	2,000	62.55%	
Small tools & equipment	5,120	6,000	85.33%	
Emergency preparedness program	9,700	15,000	64.67%	
Engineering services	22,602	20,000	113.01%	
Encroachment remediation	-	15,000	0.00%	
Test urban camp cleanup	-	100,000	0.00%	
Environmental services/studies	3,948	-	Not budgeted	
Total M & O Expenses	1,390,246	1,559,490	89.15%	
Administration Expenses				
Board of trustees compensation	6,339	7,600	83.41%	
Trustee expenses	1,742	1,750	99.54%	
Accounting services	16,300	15,000	108.67%	
Legal services (general)	29,219	50,000	58.44%	
Utilities	35,864	35,000	102.47%	
Telephone	16,450	18,000	91.39%	
Retiree benefits	131,943	135,650	97.27%	
Office equipment/furniture	2,484	7,500	33.12%	
Office supplies	-	2,000	0.00%	
Auto allowance	7,093	6,600	107.47%	
Parking reimbursement	-	500	0.00%	
General office expense	13,225	13,000	101.73%	
Technology and software	4,905	10,000	49.05%	
Dues and associations	22,126	25,000	88.50%	
Property and liability insurance	19,821	30,000	66.07%	
Conference/workshop/seminar	-	3,000	0.00%	
Public relations/information	24,748	30,000	82.49%	
Miscellaneous	2,684	5,000	53.68%	
Employee morale/wellness	208	2,000	10.40%	
Investment fees	11,969	15,000	79.79%	
Community services	1,210	1,500	80.67%	
Bookkeeping services	8,813	14,000	62.95%	
Property taxes	1,767	3,000	58.90%	
Building maintenance	20,708	10,000	207.08%	
County Dtech fees for DLMS	36,313	40,000	90.78%	
Election expense	2,008	96,819	2.07%	
County assessment fees	22,507	-	Not budgeted	Non cash expense, netted against assessment revenue
Interest expense	488	-	Not budgeted	
Total Administration Expenses	440,934	577,919	76.30%	
Special Projects Expenses				
Engineering studies/survey studies	-	15,000	0.00%	
Levee standards compliance	71,163	100,000	71.16%	
Small capital projects	32,564	50,000	65.13%	
Total Special Project Expenses	103,727	165,000	62.86%	
Capital Outlay				
Equipment purchases (over \$5,000)	73,825	93,000	79.38%	
Total Capital Outlay	73,825	93,000		
Capital Outlay: District Headquarters				
Building improvements/maintenance	30,503	40,000	76.26%	
La Riviera improvements/maintenance	4,322	10,000	43.22%	
	34,825	50,000		

Note: Amounts above are not audited

The above information is current through the last day of the previous month's bank activity.

Data has been verified by the bookkeeper and physical copies of checks have not been reviewed or received and some checks may not have cleared the bank account.

AMERICAN RIVER FLOOD CONTROL DISTRICT
Cash Flow Report
July 2019 through June 2020

Cash Flow Report													
Maintenance and Operations Expens	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	TOTAL
500 - Salary/Wages	58,116.53	59,270.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	117,387.13
501 - Payroll Taxes	4,470.68	4,523.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,994.14
502 - Pension	9,373.16	8,896.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18,269.44
503 - Compensation Insurance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
504 - Medical/Dental/Vision	15,684.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,684.32
508 - Fuel/Oil	2,188.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,188.69
509 - Equipment Rental	3,129.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,129.50
510 - Equipment Purchase(< \$5000	297.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	297.26
511 - Equipment Repair/Parts	5,655.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,655.89
512 - Shop Supplies	1,231.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,231.54
514 - Levee Maint(Supplies&Materi	134.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.09
515 - Levee Maintenance Services	4,645.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,645.16
516 - Employee Uniforms	492.64	4,447.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,939.92
518 - Staff Training	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,500.00
519 - Miscellaneous O&M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
521 - Small Tools & Equip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
523 - Levee Maint. (Chemicals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
525 - Emergency Preparedness Pr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
530 - Encroachment Remediation I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
532 - Rodent Abatement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
605 - Engineering Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
615 - Survey Services	164.97	44.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	209.22
616 - Environmental Services/Studi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total M&O Expense	107,084.43	77,181.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184,266.30

Administrative Expenses	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	TOTAL
505 - Telephone	1,131.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,131.79
506 - Utility Charges	2,905.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,905.15
507 - Office/Shop Lease	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	600.00
513 - Office Supplies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
517 - Auto Allowance	550.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,100.00
520 - Retiree Benefits	10,968.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10,968.74
522 - Office Equipment/Furniture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
526 - Mileage/Parking Reimburse	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
527 - General Office Expense	1,050.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,050.23
529 - Pre-funding Retiree Benefits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
531 - Technology & Software	341.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	341.55
600 - Board of Trustees Compensa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
601 - Trustee Expenses	380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	380.00
602 - Accounting Services	53.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.92
603 - Legal Fees (General)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
604 - Flood Litigation	3,810.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,810.00
606 - Legislative Services	0.00	(16,569.19)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(16,569.19)
607 - Dues and Assoc. Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
608 - Insurance Premiums	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
609 - Conference /Workshops/Sem	14,314.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14,314.08
610 - Public Relations Information	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
611 - Election Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
612 - District Annexations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
613 - Community Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
614 - Miscellaneous Admin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
617 - Investment Fees	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
618 - Property Tax	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
619 - Building Maintenance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
620 - Bookkeeping Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
621 - County Assessment Fees	675.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	675.00
622 - County DTEch Fees for DLMS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
623 - Employee Morale/Wellness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AMERICAN RIVER FLOOD CONTROL DISTRICT
Cash Flow Report
July 2019 through June 2020

Total Administrative	36,780.46	(16,019.19)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20,761.27
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Special Projects Expenses	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	TOTAL
702 - Engineering/Survey Studies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
703 - Encroachment Remediation &	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
704 - Vegetation Management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
705 - Small Capital Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
707 - Levee Standards Compliance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Special Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Capital Outlay: Flood Control	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	TOTAL
700 - Bank Protection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
701 - Magpie Creek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
706 - Property Acquisition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
709 - Equipment Purchase (> \$500)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capital Outlay: Flood Control	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Income	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20	TOTAL
120 - Benefit Assessment	0.00	38,024.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38,024.99
122 - SAFCA CAD4	980,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	980,000.00
123 - Interest	3,819.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,819.31
124 - O&M Agreements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126 - Miscellaneous Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Income	983,819.31	38,024.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,021,844.30

Fund Balance

District Operations Fund	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20
Beginning Balance	1,204,681.07	2,044,635.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Income	983,819.31	38,024.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	143,864.89	61,162.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	2,044,635.49	2,021,497.80	0.00	0.00	0.00	0.00	0.00	TRUE	0.00	0.00	0.00	0.00

Capital Outlay Reserve Fund	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20
Beginning Balance	1,270,000.00	1,270,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	1,270,000.00	1,270,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Retiree Health Benefit Reserve Fund	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20
Beginning Balance	3,480,014.00	3,480,014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	3,480,014.00	3,480,014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Flood Emergency Response Reserve Fund	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20
Beginning Balance	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emergency Repair Reserve Fund	Jul 19	Aug 19	Sept 19	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Apr 20	May 20	Jun 20
Beginning Balance	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Balance	9,794,649.49	9,771,511.80	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
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YOUR BEST PROTECTION

July 24, 2019

Mr. Tim Kerr, General Manager
American River Flood Control District
185 Commerce Circle
Sacramento, California 95815-4201

RE: LIABILITY, PROPERTY, AND WORKERS' COMPENSATION RISK ASSESSMENT

Dear Mr. Kerr:

It was a pleasure meeting with you and your staff on July 11, 2019. The purpose was to obtain an update on District operations, provide an update on JPIA resources, and assess any risk exposures. Please thank Malane Chapman, Office Manager; and Ross Kawamura, Field Supervisor; for their time and consideration during my visit.

Last year we discussed staff's occupational exposure to unsanitary conditions when doing maintenance or repair on the levees. Many of these biohazard wastes are associated with unsheltered homeless, transients, or homeless encampments. We agreed that the appropriate county or city agency should handle all relocation and clean-up of these areas, and the District should develop a formal bloodborne pathogens exposure control plan. I would like to extend my appreciation to the District for establishing work practice controls of the appropriate protective clothing and footwear, trash picker and grabber tools, and placing Sharps containers on vehicles. As part of its exposure determination assessment, the District offered staff to receive the Hepatitis B vaccine and elected to go beyond the Cal/OSHA standard, by reimbursing staff who elected to receive the Hepatitis A vaccine.

In addition to discussing bloodborne pathogens, we spoke on Cal/OSHA's Heat Illness Prevention Program. Ross was provided resources and web links to the JPIA's Risk Control Manual, so he could download our template and create a District specific written compliance plan. Ross shared that he recently attended a Heat Illness Prevention Training class conducted by the JPIA, and has implemented formal heat illness prevention procedures as well as a written plan.

As referenced above, the District continues to demonstrate its commitment to eliminating workplace hazards, and protecting its workers and continuously improving its workplace safety and health programs.

We discussed [SB 1343](#), *Employers: Sexual Harassment Training* that amends and extends this training requirement by California employers. This bill now requires an employer who employs

Mr. Tim Kerr, General Manager
 American River Flood Control District
 July 24, 2019
 Page 2

five or more employees, including temporary or seasonal employees, to provide at least two hours of sexual harassment training to all supervisory employees, and at least one hour of sexual harassment training to all non-supervisory employees by January 1, 2020, and once every two years thereafter. Click [here](#) to find JPIA training resources for AB 1825 and SB 1343.

Thank you for allowing me to do a review of the District's written Injury Illness Prevention Program (IIPP). During my review I shared three suggestions: revise the name and title of the program administrator; revise the recordkeeping program element by inserting a minimum number of years training and hazard assessment records to be maintained; and ensure that an annual review of the written plan is conducted.

While an updated IIPP meets certain parts of the [8 CCR 3203 standard](#), Cal/OSHA highlights an IIPP is not a paper program. **How well the District's IPP meets Cal/OSHA's standard depends on an employer addressing all program elements and effectively putting them into place.** Cal/OSHA has a webpage with [Effectiveness Questions](#) and [IIPP self-assessment checklist](#), which is a tool designed to compare an employer's written plan to the eight program elements required in the standard.

After our meeting, Ross escorted me on a tour of the levees. We visited the north area (Steelhead Creek), Del Paso (Arcade Creek), and Richards Blvd. American River Flood Control District continues to manage the maintenance and repair of its levees very well. I was able to see firsthand the homeless community in, on, and around the levee system; and can only encourage the District to sustain its efforts to work with city, county, and law enforcement so your work areas can be safely managed.

I will return to your District later this fall to conduct Defensive Driver and Ergonomic Training classes. Heat Illness Prevention Training will be scheduled for your staff next spring. The District may want to assess sending staff to Cal/OSHA 10-Hour training classes when offered by the JPIA. This OSHA Outreach course provides training on the recognition, avoidance, abatement, and prevention of workplace hazards. Its purpose is to promote workplace safety and health, and to make workers more knowledgeable about workplace hazards and their rights.

In the meantime, should you have any questions or need assistance, please contact me at (800) 231.5742, Ext. 3137, or via email at rflint@acwajpia.com.

Sincerely,



Robin Flint, ARM, CSP, CEAS I
 Senior Risk Management Advisor

724:tl

c: Ross Kawamura, Field Supervisor
 Steve Johns, JPIA Director
 JPIA Risk Management Committee

**American River Flood Control District
Central Valley Flood Protection Board Permit Application
Gas Line Abandonment at Two Locations (PG&E)
Staff Report**

Discussion:

This application from PG&E is for the abandonment of a gas line that crosses the American River near Del Paso Boulevard and Highway 160. PG&E is requesting a permit to formally abandon the gas line where it crosses District levees at two locations. These locations are shown in the attached submittal materials.

The method of abandonment proposed by PG&E is to completely fill the pipe with grout in the sections that cross the levee.

Special Conditions:

An endorsement of this application should include Special Conditions that indicate the applicant shall be responsible for the complete removal of the abandoned gas line sections at some time in the future if they interfere with any flood control project. This is necessary in the case that the levees require future flood control improvements and the abandoned pipe section impedes or obstructs the contractor. This would subject the project sponsors to considerable additional costs.

Recommendation:

The General Manager recommends that the Board endorse the permit application with Special Conditions.



185 Commerce Circle
Sacramento, CA 95815
voice (916) 929-4006
fax (916) 929-4160
www.arfcd.org

Board of Trustees
Brian F. Holloway
Cyril A. Shah
Rachelanne Vander Werf
Steven T. Johns
Tamika L'Ecluse

Item 5
General Manager
Timothy R. Kerr, P.E.

Permit Conditions

Permit Application No.: (to be designated by the Central Valley Flood Protection Board)

Location: North Levee American River near Del Paso Blvd, South Levee American River near Highway 160, Sacramento, CA

Applicant: Pacific Gas & Electric

Description: The applicant requests permission to abandon a gas line at two levee crossings

CONDITIONS:

1. Permittee shall obtain all necessary permits and regulatory approvals for the proposed work.
2. Maintenance of all encroaching facilities under this permit shall remain the responsibility of permittee.
3. Permittee shall pay the full costs, including but not limited to construction costs, staff time, consultant time and attorney time, that may be required on the part of the proponent of a future flood control project to remove, alter, relocate or reconstruct all or any of the existing or future flood control works located in the area of the facilities being abandoned pursuant to this Permit if such removal, alteration, relocation or reconstruction is due, in whole or part, to Permittee's facilities that are being abandoned pursuant to this permit.



Chris Ellis
Principal Land Planner
5555 Florin-Perkins Road, Rm 128D
Sacramento, CA 95826
Phone: (916) 995-5848
Email: cre3@pge.com

April 8, 2019

Central Valley Flood Protection Board
3310 El Camino Ave. #170
Sacramento, CA 95821

Subject: Central Valley Flood Protection Board Encroachment Permit Application Package for Distribution Feeder Main 0613-01 American River Crossing Retirement Project

Attention: Mr. Gary Lemon, Chief - Permitting Section:

Pacific Gas and Electric Company (PG&E) is providing the Central Valley Flood Protection Board (CVFPB) with two (2) hardcopies and one (1) electronic copy of the enclosed CVFPB encroachment permit application package for the retirement of Distribution Feeder Main 0613-01 where it crosses the American River in Sacramento.

The permit application package contains the following information:

1. Application for a Central Valley Flood Protection Board Encroachment Permit Form;
2. Environmental Assessment Questionnaire;
3. Encroachment Permit Continuation Pages with detailed project description;
4. Figures showing key project details, and 90% engineering drawings;
5. Supporting biological study reports and measures to protect fish, wildlife, and plant resources;
6. Arborist report detailing vegetation removal work.

To avoid confusion, please note this permit application package is covering the same pipeline as a permit application submitted in April 2018 to the CVFPB for pipeline replacement. This initial submission was withdrawn shortly after submission, and to our understanding prior to review by the CVFPB. The reason for the withdrawal was the change in scope from replacement to retirement of this segment of DFM-0613-01 due to the recent installation of new natural gas pipelines in the Sacramento area.

Please use the enclosed information for CVFPB review and approval of this project. Please contact me if you have any questions or require additional information. I can be reached by telephone at (916) 995-5848 or by email [at CRE3@pge.com](mailto:cre3@pge.com). Thank you for your assistance with this project.

Sincerely,

Chris Ellis
Principal Land Planner
Pacific Gas and Electric Company

Enclosure: CVFPB Encroachment Permit Application Package

**CENTRAL VALLEY FLOOD PROTECTION BOARD
ENCROACHMENT PERMIT APPLICATION**

**PACIFIC GAS & ELECTRIC COMPANY
DISTRIBUTION FEEDER MAIN 0613-01
AMERICAN RIVER CROSSING RETIREMENT
PROJECT**

SUBMITTED TO:

Central Valley Flood Protection Board
3310 El Camino Ave # 170
Sacramento, CA, 95821
(916) 574-0649

APPLICANT:

Pacific Gas and Electric Company
5555 Florin-Perkins Road
Sacramento, CA 95826
Contact: Chris Ellis
(916) 386-5103



*Pacific Gas and
Electric Company®*

PREPARED BY:

Surf to Snow ERM, Inc.
2246 Camino Ramon
San Ramon, CA 94583
Contact: Derek Hitchcock
(925) 718-3103



April 2019

Pacific Gas and Electric Company. 2019. Application for Central Valley Flood Protection Board Encroachment Permit — Pacific Gas and Electric Company Distribution Feeder Main 0613-01 American River Crossing Retirement Project. March 2019. (74004048). Sacramento, CA. Prepared by Surf to Snow Environmental Resource Management, Inc., San Ramon, CA.

Contents

Application for Central Valley Flood Protection Board Encroachment Permit	1
Environmental Assessment Questionnaire	3
Continuation Pages	4
1. Description of Proposed Work	4
Project Purpose	4
Proposed Project	4
Construction Activities	4
2. Project Location	6
3. Adjacent Property Owners	7
4. CEQA	7

Tables

Table 1 – Project Tree Removal	5
Table 2 – Properties within the Project at the American River Parkway and USACE Levees	7
Table 3 – Properties Adjacent to the Project Site at the American River Parkway and USACE Levees	7

Appendices

Appendix A Figures

- Figure 1 – Project Vicinity
- Figure 2 – Proposed Project
- Figure 3 – Engineering Drawings
- Figure 4 – Preconstruction Photographs

Appendix B Biological Memo

Appendix C Best Management Practices

Appendix D Arborist Report

Acronyms and Abbreviations

APN	Assessor's Parcel Number
BMP	Best Management Practice
CPUC	California Public Utilities Commission
CTS	Cathodic testing stations
CVFPB	Central Valley Flood Protection Board
DBH	Diameter at breast height
DFM	Distribution Feeder Main
MP	Mile point
PG&E	Pacific Gas & Electric Company
PIG	Pipeline inspection gauge
SR	State Route
USACE	U.S. Army Corps of Engineers

**APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD
ENCROACHMENT PERMIT**

Application No. _____
(For Office Use Only)

1. Description of proposed work being specific to include all items that will be covered under the issued permit.

Refer to Continuation Pages

2. Project

Location: Sacramento County, in Section 30

Township: 9 N (N) (S), Range: 5 E (E) (W), M. D. B. & M.

Latitude: 38°35'51.05" N Longitude: 121°28'33.58" W

Stream : American River , Levee : Refer to Continuation pg Designated Floodway: Refer to Continuation pg

APN: Refer to Continuation pg

3. Pacific Gas & Electric of 5555 Florin-Perkins Road Room 128D
Name of Applicant / Land Owner Address

Sacramento CA 95826 (916) 386-5103
City State Zip Code Telephone Number

CRE3@pge.com
E-mail

4. Chris Ellis of 5555 Florin-Perkins Road Room 128D
Name of Applicant's Representative Company

Sacramento CA 95826 (916) 386-5103
City State Zip Code Telephone Number

CRE3@pge.com
E-mail

5. Endorsement of the proposed project from the Local Maintaining Agency (LMA):

We, the Trustees of _____ approve this plan, subject to the following conditions:
Name of LMA

Conditions listed on back of this form Conditions Attached No Conditions

Trustee Date

Trustee Date

APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

6. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

Table with 3 columns: Name, Address, Zip Code. Row 1: Refer to Continuation Pages

7. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970? [] Yes [x] No [] Pending

If yes or pending, give the name and address of the lead agency and State Clearinghouse Number:

Blank lines for lead agency and State Clearinghouse Number information.

SCH No. _____

8. When is the project scheduled for construction? August 13, 2019

9. Please check exhibits accompanying this application.

- A. [x] Regional and vicinity maps showing the location of the proposed work.
B. [x] Drawings showing plan view(s) of the proposed work to include map scale.
C. [] Drawings showing the cross section dimensions and elevations (vertical datum?) of levees, berms, stream banks, flood plain,
D. [] Drawings showing the profile elevations (vertical datum?) of levees, berms, flood plain, low flow, etc.
E. [x] A minimum of four photographs depicting the project site.

Handwritten signature of Chris Ellis and date 5/9/19

Signature of Applicant

Date

Include any additional information:

Blank lines for additional information.

ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE FOR APPLICATIONS FOR CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMITS

This environmental assessment questionnaire must be completed for all Central Valley Flood Protection Board applications. Please provide an explanation where requested. Incomplete answers may result in delays in processing permit applications. Failure to complete the questionnaire may result in rejection of the application.

1. Has an environmental assessment or initial study been made or is one being made by a local or State permitting agency in accordance with the California Environmental Quality Act? Yes No

If yes, identify the Lead Agency, type of document prepared or which will be prepared, and the State Clearinghouse Number:

PG&E is requesting CVFPB as CEQA lead agency. The Project qualifies for a categorical exemption under CEQA Section 15301, Existing Facilities, for Class 1 facilities. The Project is consistent with the requirements of this exemption because the project consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination.

2. Will the project require certification, authorization or issuance of a permit by any local, State or federal environmental control agency? Yes No

List all other governmental permits or approvals necessary for this project or use, including U.S. Army Corps of Engineer' 404 and Section 10 permits, State Water Quality Certification, Department of Fish and Game 1600 agreement, etc. Attach copies of all applicable permits.

U.S. Army Corps of Engineers Section 408 Permit

3. Give the name and address of the owner of the property on which the project or use is located. Please submit a copy of your current Title Report (Grant Deed), if your proposed project includes a private residence.

Refer to Table 2 of the Continuation Pages

4. Will the project or use require issuance of a variance or conditional use permit by a city or county?

Yes No

Explain:

A variance or conditional use permit will not be triggered by project activities. In addition, the California Public Utilities Commission (CPUC) has jurisdiction over the design, construction, and operation of gas pipelines and associated facilities, and the Project is not subject to local discretionary regulations.

5. Is the project or use currently operating under an existing use permit issued by a local agency?

Yes No

Explain:

No. The CPUC has jurisdiction over the design, construction, and operation of gas pipelines and associated facilities, and the Project is not subject to local discretionary regulations.

ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE FOR APPLICATIONS Item 5
FOR CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMITS

6. Describe all types of vegetation growing on the project site, including trees, brush, grass, etc.

The Project site is within the American River Parkway, north of the American River, consists of a mix of oak and walnut woodlands, ruderal grasslands, and roadways. Refer to Appendix B Biological Memo and Appendix D Arborist Report, for additional information.

7. Describe what type of wildlife or fish may use the project site or adjoining areas for habitat, food source, nesting sites, source of water, etc.

Special-status wildlife that could occupy the American River Parkway portion of the Project site include Sanford's arrowhead, Swainson's hawk, White-tailed kite, and nesting migratory birds. Elderberry shrubs, the host plant for Valley elderberry longhorn beetle, were identified outside but adjacent to the Project Site. Special-status fish species that could occupy the American River include Delta smelt, Longfin smelt, Purple martin, and Steelhead; however, no work is to occur within the channel. Refer to Appendix B, Biological Memo, for additional information.

8. Has the Department of Fish and Game, U.S. Fish and Wildlife Service, or National Marine Fisheries Service been consulted relative to the existence of, or impacts to, threatened or endangered species on or near the project site?

Yes No

Explain:

No discussions have occurred with agencies to date. No species listed by the federal or state Endangered Species Acts will be affected by the Project, except for Valley Elderberry Beetle (VELB). Refer to Appendix B for more details. PG&E's VELB Conservation Program (USFWS Biological Opinion (BO) (File 1-1-01-F-0114)) provides for 30 years of incidental take coverage and was issued on June 27, 2003.

9. Will the project or use significantly change present uses of the project area?

Yes No

Explain:

The existing pipeline would be retired in place (except for removal of a few small segments and two valves). Following construction, the contours and conditions of temporarily disturbed areas would be restored to approximate pre-Project conditions.

10. Will the project result in changes to scenic views or existing recreational opportunities?

Yes No

Explain:

Changes to scenic views or existing recreational opportunities during construction would be minor and temporary. Recreation areas, such as the bike path along the southern CVFPB/USACE levee, may be temporarily rerouted during removal of the deactivated pipe segment at the south end of SR-160 bridge. Construction equipment may also temporarily impact views in the American River Parkway. All existing contours would be restored to approximate pre-Project conditions. Permanent views may have minor impacts from tree removal for the Project.

11. Will the project result in the discharge of silt or other materials into a body of water?

Yes No

Explain:

Construction activities outside the channel would be located far enough away to avoid discharges to the American River. No other waters of the United States/State are located within the Project site.

Item 5

ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE FOR APPLICATIONS
FOR CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMITS

12. Will the project involve the application, use, or disposal of hazardous materials? Yes No

If yes, list the types of materials, proposed use, and disposal plan. Provide copies of all applicable hazardous material handling plans.

Hazardous materials may be used for retired pipe cleaning. This may include petroleum products and welding gases. All of these materials are routinely used by PG&E during pipeline construction activities and PG&E will implement standard procedures to ensure materials are safely handled.

13. Will construction activities or the completed project generate significant amounts of noise?

Yes No

Explain:

Construction activities associated with the Project would require earth-moving equipment, trucks, and other equipment that would result in temporary increases in noise levels. Construction generally would occur in the daytime, although some night work may occur for activities that cannot stop once they begin. Project-related construction noise may be audible to those living in nearby residences or working at adjacent properties. Construction noise impacts would be temporary and the completed project would not generate significant amounts of noise.

14. Will construction activities or the completed project generate significant amounts of dust, ash, smoke, fumes, or odors?

Yes No

Explain:

Significant amounts of ash, smoke, fumes, or odors will not be generated from construction activities or the completed project. Construction generated dust will be reduced by efforts including defining ingress and egress within the Project site, applying water to disturbed areas where necessary, and properly containing stockpiled soils.

15. Will the project activities or uses involve the burning of brush, trees, or construction materials, etc?

Yes No

Explain, and identify safety and air pollution control measures:

Project activities or uses do not involve the burning of brush, trees, or construction materials. Vegetation removed for the project will be chipped or hauled offsite.

16. Will the project affect existing agricultural uses or result in the loss of existing agricultural lands?

Yes No

Explain:

There are no agricultural lands or uses within or adjacent to the project site.

ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE FOR APPLICATIONS Item 5
FOR CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMITS

17. Have any other projects similar to the proposed project been planned or completed in the same general area as the proposed project?

Yes No

Explain and identify any other similar projects:

PG&E conducts routine maintenance throughout the service area. No work is planned adjacent to the Project on the existing pipeline at the time of this application.

18. Will the project have the potential to encourage, facilitate, or allow additional or new growth or development?

Yes No

Explain:

Refer to Section 1 of the Encroachment Permit application for a detailed discussion of the project purpose. It is proposed to retire in place the existing pipeline that crosses the American River.

19. Will materials be excavated from the floodplain? Yes No If yes, please answer the remaining questions.

THE REMAINING QUESTIONS MUST ONLY BE ANSWERED IF THE ANSWER TO QUESTION NO. 19 WAS "YES". IF THE ANSWER TO QUESTION NO. 19 WAS "NO", YOU DO NOT NEED TO COMPLETE THE REMAINING QUESTIONS.

A. What is the volume of material to be excavated?

Annually _____ Total Approximately 25 cubic yards

B. What types of materials will be excavated?

Materials would primarily be native soil but also gravel, pavement/concrete and road base aggregate/fill in Northgate Boulevard and American River Bike Trail.

C. Will the project site include processing and stockpiling of material on site?

Yes No

Explain:

Excavated native materials will temporarily be stockpiled on site until excavations are backfilled with native material and repaved in roadways.

D. What method and equipment will be used to excavate material?

Excavators/backhoes/vacuum trucks will be used to excavate material.

ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE FOR APPLICATIONS ^{Item 5}
FOR CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMITS

E. What is the water source for the project?

The Project is anticipated to require water during the site preparation and construction phases for soil conditioning and dust control, among other uses. Water would be obtained through a local water supply municipality/company and trucked to the Project site or obtained through a fire hydrant or other connections on-site if available.

F. How will waste materials wash water, debris, and sediment be disposed of?

During construction, general types of solid nonhazardous waste would be produced such as food, glass, paper, and plastic. Solid waste would be recycled and/or disposed of appropriately. Construction materials would be removed from all work areas and debris would be hauled off-site for reuse or disposed of at the appropriate landfill. In the event that soils suspected of being contaminated (on the basis of visual, olfactory, or other evidence) are removed during excavation activities, the excavated soil will be tested and, if contaminated above hazardous waste levels, will be contained and disposed of at a licensed waste facility. The water will then be tested before being hauled off-site to an appropriate disposal site, discharged to a sewer drain connecting to a publicly owned treatment network, or used on-site for dust control.

G. What is the proposed end land use for the project site?

There will be no change in land use for the project site as existing conditions will be restored upon completion of construction activities.

H. Has a reclamation plan been prepared for this site in accordance with the Surface Mining and Reclamation Act of 1975?

Yes No If yes, please attach a copy.

Continuation Pages

1. Description of Proposed Work

The following description focuses on work within the jurisdiction of the Central Valley Flood Protection Board (CVFPB), consisting of the American River, American River Parkway, and the north and south U.S. Army Corps of Engineers (USACE) levees and 10 feet landward.

Project Purpose

The existing DFM 0613-01 (pipeline) crosses over the American River attached to the SR-160 bridge and was a key interconnect between a large gas load center and the gas transmission system serving urban Sacramento. Due to the recent installation of new natural gas pipelines in the Sacramento area, the pipeline is no longer necessary for natural gas transmission. The pipeline crosses the American River on the SR-160 bridge.

Proposed Project

In total, approximately 2,700 feet of pipe will be retired in place within the jurisdiction of the CVFPB/USACE (Figure 2). The pipeline will be segmented at intervals within the retirement area. Air to soil transitions on either side of the bridge will be removed, and the portion of the pipe on the bridge will be purged and retired in place. To comply with Title 23 requirements, segments of the pipeline installed within the levees will be filled with Cell-Crete, a flowable concrete mix. The pipeline will be filled with Cell-Crete for approximately 1175' from just north of the northern CVFPB/USACE levee south to Northgate Blvd., and for approximately 160' from the top of the southern CVFPB/USACE levee southwest to outside the toe of the levee. Two valves near the eastern abutment of the SR-160 bridge will be removed. (Figure 2 and Figure 3).

Small segments of existing pipe will be removed where the above-ground pipe at each end of SR-160 transitions to below ground. The pipe segment removed from the southern end of the SR-160 bridge is located at the southern CVFPB/USACE levee (Figure 2 and Figure 3). The remaining deactivated pipe will be retired in place, either buried beneath ground or attached to the SR-160 bridge. Existing electronic testing stations and cables for corrosion projects will be disconnected from the existing pipeline. In addition, an existing 6-inch distribution pipe parallel to the pipeline north of the American River will be plugged and deactivated. Other above ground features, such as vent stacks, will also be removed, as shown in Figure 3. Pipe cleaning is not expected to be required as Hydrotests up and downstream of this retirement did not require pipe cleaning.

Construction Activities

Construction is anticipated to begin summer 2019 and require three months. There are four Project construction areas between the north and south CVFPB/USACE levees and 10 feet landward (Figure 2). There are two additional associated construction areas for Cell-Crete injection outside the levees to the north and to the south (Figure 2). No construction will occur within the American River channel and impacts to vegetation along the river banks will be avoided. The construction areas will be used for cut and cap and Cell-Crete catch points, valve removal, Save-A-Valve installation, and equipment staging and laydown space. A total of 4 trees will be removed and 2 trees trimmed from the Project site in the American River Parkway. A summary of trees proposed for removal is shown in Table 1 and the area of vegetation removal at the Project site is shown in Figure 2. All 4 trees planned for removal are non-native orchard species that do not constitute a natural part of the original landscape; therefore, no replanting is proposed. Additional details can be found in the Arborist Report (Appendix 4).

Continuation Pages

Table 1 - Project Tree Removal and Trimming

Tree Species	Action	Number	DBH ¹ Range (inches)	Height Range (feet)
Valley Oak (<i>Quercus lobata</i>)	Trim	2	23-32	25-55
Walnut (<i>Juglans sp.</i>)	Removal	2	24-32	18-19
Almond (<i>Prunus dulcis</i>)	Removal	2	16-22	10-10

¹ DBH = diameter at breast height

The construction area and access routes will be prepared by first grubbing and removing vegetation, followed by installation of erosion control best management practices (BMPs) and other minor improvements necessary to mobilize construction equipment and materials, refer to Appendix C. Portable lights will be utilized during any night work and at any laydown yard where materials and equipment are staged. Chain link fence panels or orange safety fence will provide a barrier for exposed excavations during construction as well as any lay down yards. A security guard will also be stationed at the main lay down yard during off hours. Traffic control measures will be utilized as required by encroachment permits for work in roadways and bike paths. Steel plates will typically be placed over the excavations where use of impacted areas may be necessary during non-working hours.

Pipeline Retirement

Construction begins with mobilizing construction equipment and then potholing within construction areas to locate the existing pipeline and utilities. Pipeline retirement requires excavating approximately 8-foot-wide by 6-foot-long bell holes for Cell-Crete injection and catch points and 8-foot-wide by 8-foot-long bell holes for valve removal within the construction areas along the pipeline. Figure 2 shows areas where construction activities are located and where vegetation removal is required within the construction areas for construction to occur in a safe manner. Unless specifically noted below, bell hole excavation uses heavy equipment such as excavators and backhoes.

The process within the bell holes at Cell-Crete catch points involves cutting out a small segment of pipe and capping both ends with a steel plate. Prior to injection a small hole is cut on top of the downstream pipeline. Cell-Crete slurry will then be pumped into the existing pipeline in excavations at the designated upstream Cell-Crete injection location (Figure 2). Once injection begins, crew members watch the small hole at the Cell-Crete catch point excavation to determine precisely when to stop injecting Cell-Crete. Approximately 1 cubic-foot of Cell-Crete comes out of the small hole before injection is ceased. Excavations will be backfilled with native material and repaved in roadways and compacted per Title 23 Standards.

The pipe ends in each excavation and on SR-160 will be capped by welding on a steel plate. Once complete, pipe ends in excavations will be buried below ground surface. Two existing valves will be removed in the work area near the north end of the SR-160 bridge. All removed pipe segments and the valves will be disposed of offsite at approved locations.

The installation of a Save-A-Valve on top of the northern USACE levee (Figure 2) entails digging an approximately 8-foot-long by 8-foot-wide by 3-foot-deep bell hole to expose the existing pipe. A small backhoe would perform the initial digging, and once within 2' of the pipe, hand digging would complete the excavation. Then a 5-inch-long by 2.5-inch diameter nipple (termed in the industry a Save-A-Valve) will be welded to the top of the pipe. This nipple will be used to bleed air from the pipe as Cell-Crete is being pumped through the pipeline. Once the

Continuation Pages

process of filling the pipeline with Cell-Crete is complete, the nipple will be closed off and the bell hole will be backfilled and compacted per Title 23 Standards.

Work on the southern USACE levee (Figure 2) does not involve any ground-breaking activities. This Cell-Crete catch point location and associated cut and cap of the pipeline occurs where the pipeline is above ground and attached to the SR-160 bridge (see Figure 4, Photo 4). A crew truck will park on the bike trail on top of the levee and the crew will proceed by foot to the location of the pipe at the bridge. Cables for welding will be run across the levee from the truck to the pipeline at the bridge.

Pipe cleaning is not expected to be required as Hydrotests up and downstream of this retirement did not require pipe cleaning. However, it is still possible the existing pipeline being retired may require cleaning to remove contaminants that may have built up inside the pipe. All existing work areas were sized to accommodate pipe cleaning activities, including staging. If cleaning is necessary, pipeline inspection gauge (PIG) launchers and receivers will be temporarily installed on the deactivated pipe at the identified work areas (Figure 2) to insert PIGs and liquids (water or cleaning fluids) into the pipeline. Air compressors staged at both the launching and receiving ends of each cleaning section will propel the PIGs and liquids through the pipeline. Multiple cleaning runs may be necessary to remove all contaminants, if present. Upon completion of each PIG run, the PIGs and liquids will be removed from the pipeline and collected in temporary storage (frac) tanks connected to PIG receivers by temporary pipes/hoses. PIGs and liquids will be sampled and disposed of off-site in accordance with all environmental regulations.

Site Restoration

Site restoration will begin immediately after construction activities. Construction areas will be restored to approximate pre-Project conditions. Restoration of public streets, sidewalks, and curbs above the pipe bedding shall be in accordance with the latest city, county, or agency standards. All undeveloped areas subject to ground disturbance will be revegetated with hydroseeding using an appropriate native seed mix. BMPs for erosion control will be installed as appropriate and monitoring of vegetation growth will be conducted in compliance with the Project Stormwater Pollution Prevention Plan, refer to Appendix C.

2. Project Location

The CVFPB and USACE maintain levees delineating the floodplain from the American River at the Project location. The southern CVFPB/USACE levee extends immediately along the American River with the bike trail forming the top of the levee prism. The northern CVFPB/USACE levee is located approximately 0.35 miles north of the American River at the Project location. The floodplain area between the American River and the northern CVFPB/USACE levee consist of the American River Parkway. In addition to serving as the floodplain, the American River Parkway provides wildlife and recreation areas and contains scattered developments. Table 2 below identifies assessor's parcel numbers (APNs) containing the Project site (including all construction areas) within the jurisdiction of the CVFPB.

Continuation Pages

Table 2 – Properties within the Project at the American River Parkway and CVFPB/USACE Levees

Landowner	Address	APN/Road
County of Sacramento	4040 Bradshaw Rd., Sacramento, CA 95827	274-0190-035-0000, 274-0190-036-0000, 274-0190-026-0000, 274-0120-018-0000, 274-0120-019-0000, 274-0190-034-0000
City of Sacramento	915 I St. #5 th , Sacramento, CA 95814	274-0190-037-0000, 274-0200-010-0000
State of California	3165 Gold Valley Dr. #111, Rancho Cordova, CA 95742	274-0190-042-0000, 274-0190-043-0000
Hart Enterprises	1617 Kingsford Dr., Carmichael, CA 95608	001-0070-005-0000, 001-0070-029-0000
Curt A. Thompson	P.O. Box 987, Winters, CA 95694	274-0120-010-000

3. Adjacent Property Owners

Table 3 identifies property owners adjacent to the Project site within the jurisdiction of the CVFPB.

Table 3 – Properties Adjacent to the Project Site at the American River Parkway and CVFPB/USACE Levees

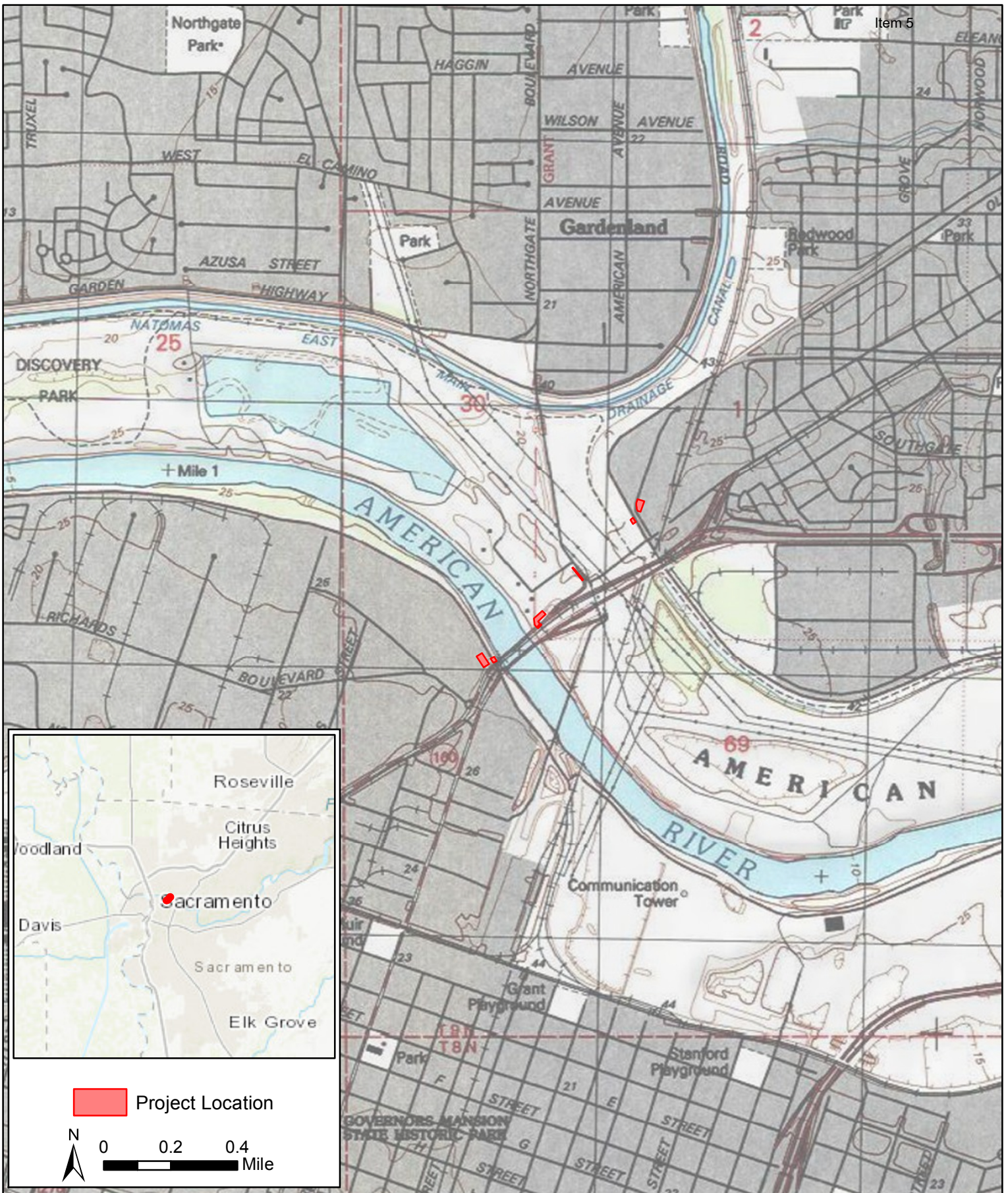
Property Owner	Address	Zip Code
County of Sacramento	461 Del Paso Boulevard, Sacramento CA	95815
County of Sacramento	Northgate Boulevard, Sacramento CA	95833
County of Sacramento	Del Paso Boulevard, Sacramento CA	95833
Western Pacific Railroad	Del Paso Boulevard, Sacramento CA	95815
State of California	N/A	95833
Westcore Croydon	1955 Railroad Drive, Sacramento CA	95815
Lovotti and Company	1940 Railroad Drive, Sacramento CA	95815
Jessica Ramos	1960 Railroad Drive, Sacramento CA	95815
Demo 6 LLC	1421 Richards Boulevard, Sacramento CA	95811
Caltrans	State Route (SR) 160	N/A
Demicheli Fox	Richards Boulevard, Sacramento CA	95811

4. CEQA

The Project qualifies for a categorical exemption under CEQA Section 15301, Existing Facilities, for Class 1 facilities. The Project is consistent with the requirements of this exemption because it consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination.

Appendix A

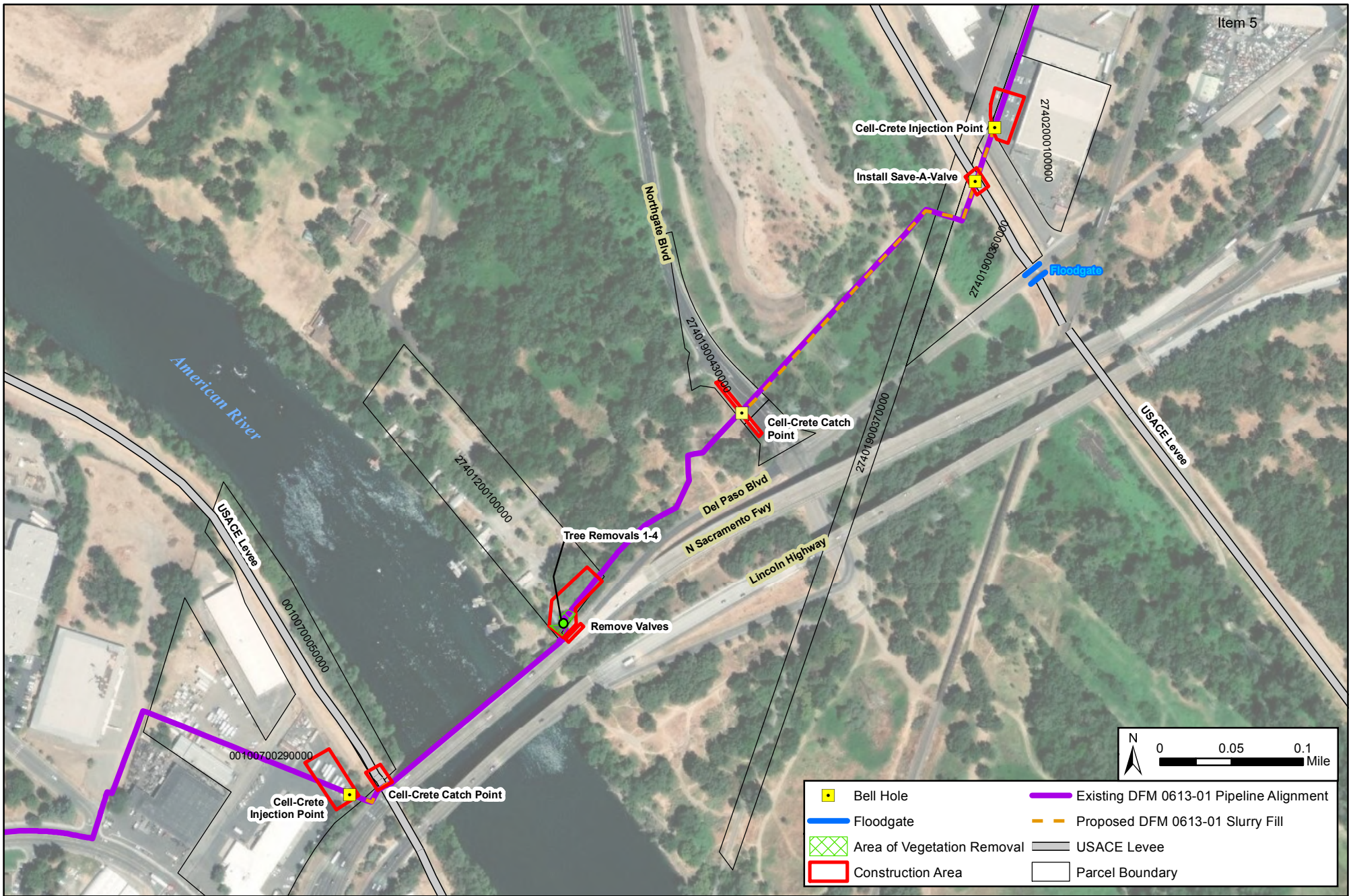
Figures



**Pacific Gas and Electric
Distribution Feeder Main 0613-01
American River Crossing Retirement Project**



2246 Camino Ramon
San Ramon, CA 94583

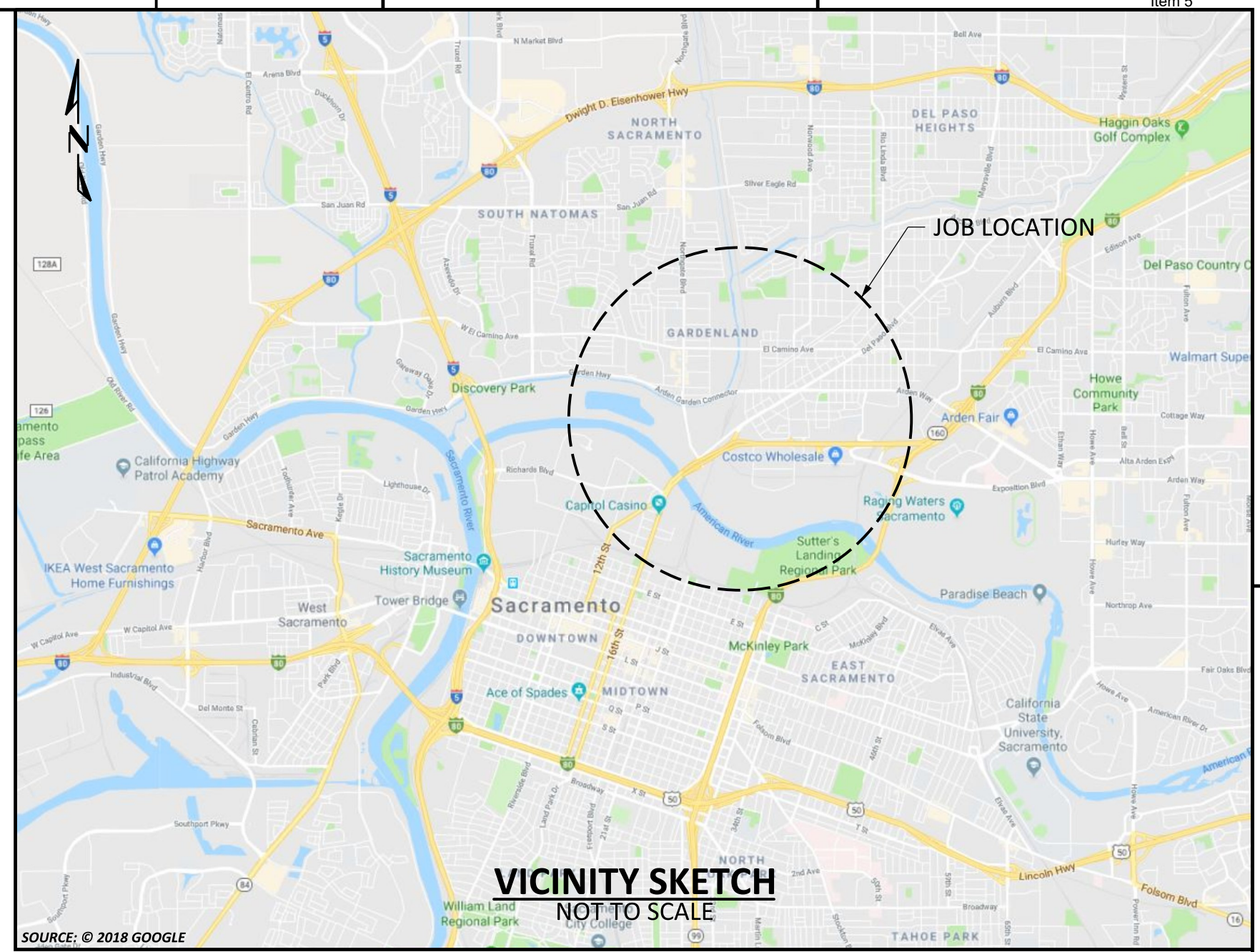
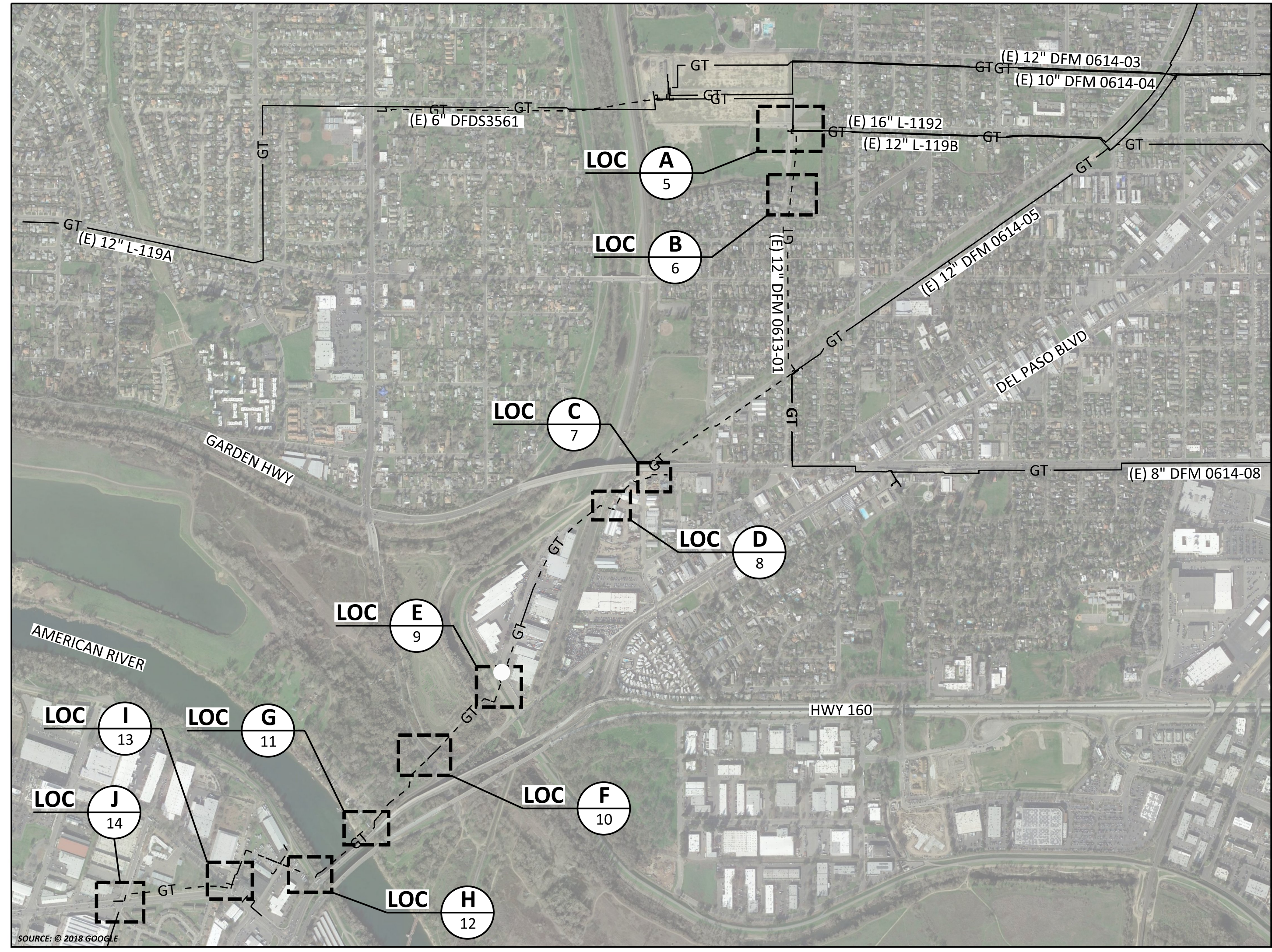


2246 Camino Ramon
San Ramon, CA 94583

**Pacific Gas and Electric
DFM 0613-01 American River Crossing
Capacity Upgrade Retirement Project**

Figure 2: Proposed Project

DFM 0613-01 MP 2.94 - 5.29 RETIRE APPROX 12,250' OF 12" PIPE SACRAMENTO, SACRAMENTO COUNTY



KEY MAP
SCALE: 1" = 800'

SCHEDULE OF SHEETS

- SHEET 1 -- TITLE & INDEX
- SHEET 2 -- CONSTRUCTION NOTES
- SHEET 3 -- LEGEND & STAMPS
- SHEET 4 -- POT HOLE
- SHEET 5-14 -- DETAILS
- SHEET 15 -- BILL OF MATERIALS

SAFETY PLEDGE

I ALWAYS PUT SAFETY FIRST
I LOOK FOR AND ACT TO RESOLVE UNSAFE SITUATIONS.
I HELP AND ENCOURAGE OTHERS TO ACT SAFELY.

**GAS TRANSMISSION & DISTRIBUTION
ESTIMATING & DESIGN**

90% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KIT6	MDGR		

PIPELINE - TITLE & INDEX
DFM 0613-01 MP 2.94 - 5.29
RETIRE APPROX 12,250' OF 12" PIPE
SACRAMENTO, SACRAMENTO COUNTY

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

BILL OF MATL SHEET 15

JOB ID **R-582**

SHEET NO. 1 OF 15 SHEETS

74004048 0

SUMMARY OF PROPOSED WORK:

1. INSTALL (1) 12" & (1) 6" STOPPER FITTING.
2. RETIRE APPROX 12,250' OF DFM 0613-01 BY SECTIONALIZING AT (13) LOCATIONS.
3. REMOVE (1) MAINLINE VALVE.
4. TRENCH AND BACKFILL.
5. HYDROTEST NEW MAIN LINE.

SEQUENCE OF OPERATIONS:

1. PRIOR TO TAKING PIPELINE CLEARANCE, THE FOLLOWING MUST BE PERFORMED:
 - A. PG&E GPOM TO CHECK ANY DRIPS IN SHUT-IN SEGMENT FOR PRESENCE OF PIPELINE LIQUIDS.
 - B. REMOVE PIPE WRAP FROM CUT OUT SECTIONS EXTENDING 1' BEYOND EACH END OF THE CUT-OUT AND SANDBLAST TO NEAR WHITE.
 - C. COMPLETE A-FORMS IN ALL EXPOSED PIPE AND INCLUDE IN AS-BUILT PACKAGE. IF UT WT MEASUREMENTS DO NOT MATCH EXISTING PIPE SPECIFICATIONS AS SHOWN ON DRAWINGS, IMMEDIATELY NOTIFY PROJECT ENGINEER (PED).
 - D. INSTALL SAVE-A-VALVES FOR OIL TESTING AND SNIFF HOLES WHERE DESIGNATED. CONFIRM LOCATION AND NUMBER OF SAVE-A-VALVES AND ENSURE WELD PROCEDURE CALCULATIONS ARE PROVIDED BY ENGINEERING PRIOR TO WELDING SAVE-A-VALVES ON PIPELINE.
 - E. STRENGTH TEST, DEWATER, AND DRY TIE-IN PIECES PER UTILITY PROCEDURE TD-4137S.
2. COMPLETE CLEARANCE PER APPROVED CLEARANCE PROCEDURE.
3. REMOVE RETIRED PIPE AND FITTINGS AS NECESSARY PER DRAWING.
4. TIE-IN NEW 12" PIPING.

CONSTRUCTION NOTES:

GENERAL REQUIREMENTS:

1. UNDERGROUND SERVICE ALERT: CALL 811 (1-800-227-2600) A MINIMUM OF 2 BUSINESS DAYS (NOT INCLUDING INITIAL DAY OF CONTACT) IN ADVANCE FOR THE MARKING OF UNDERGROUND UTILITIES, INCLUDING ALL NON-UTILITIES BEFORE YOU DIG, GRADE, OR EXCAVATE.
2. UTILITY NOTES:
 - A. DIMENSIONS SHOWN ON THESE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION FROM SEVERAL SOURCES, AND SHALL BE VERIFIED IN THE FIELD BY CONSTRUCTION PERSONNEL PRIOR TO FABRICATION.
 - B. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES, PROPERTY LINES, AND OTHER SUBSTRUCTURES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE, UNLESS OTHERWISE NOTED. CONSTRUCTION PERSONNEL ARE RESPONSIBLE FOR MAKING ALL DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AND OTHER SUBSTRUCTURES AS NECESSARY TO AVOID DAMAGE OR ENCROACHMENTS.
 - C. PROSPECTING IS REQUIRED AHEAD OF WORK. ALL OFFSETS OR ROPING WILL NEED TO BE APPROVED BY THE PG&E PROJECT ENGINEER (PED), AND REDLINED DETAILS SHOWN ON PROFILE AND CONSTRUCTION DETAIL SHEETS OF EACH ADDITIONAL SUBSTRUCTURE.
 - D. ALL EXCAVATIONS WITHIN EXISTING STATIONS SHALL BE HAND DUG OR EXCAVATED USING SOFT DIG METHODS (e.g. VACUUM EXCAVATIONS OR SIMILAR).
3. ELBOWS AND FIELD BENDS:
 - A. ALL BENDS ARE SMOOTH FIELD BENDS, EXCEPT WHERE ELBOWS ARE SHOWN. FIELD BENDS SHALL BE MADE IN ACCORDANCE WITH A-36, SECTION 4D. FIELD BENDS MAY BE USED IN LIEU OF ELBOWS WHEN PREAPPROVED BY THE PG&E PROJECT ENGINEER (PED).
 - B. IN ORDER TO AVOID EXCESSIVE STRAIN ON THE PIPELINE, THERE SHALL BE A MINIMUM SEPARATION OF 5 FEET BETWEEN A ROPEL SECTION OF PIPELINE AND ANY ELBOWS OR FIELD BENDS.
 - C. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE AND SHALL BE CUT TO SUIT FIELD CONDITIONS.
4. SEPARATION FROM OTHER STRUCTURES:
 - A. CROSSING UNDERGROUND FACILITIES: PG&E PIPELINE MUST BE INSTALLED WITH AT LEAST 24 INCHES OF CLEARANCE FROM ANY OTHER SUBSTRUCTURE/UTILITY NOT ASSOCIATED WITH THE PIPELINE UNLESS NOTED ON THE DRAWINGS.
 - B. PARALLELING UNDERGROUND FACILITIES: THIS PIPELINE MUST BE INSTALLED WITH AT LEAST 5 FEET OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE/UTILITY NOT ASSOCIATED WITH THE PIPELINE UNLESS NOTED ON THE DRAWINGS.
5. RESTORATION AND CLEAN UP:
 - A. RESTORATION OF PUBLIC STREETS, SIDEWALKS, CURBS, ETC. ABOVE PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE LATEST CITY, COUNTY, OR AGENCY STANDARDS.
 - B. WHERE EVER THERE ARE ROW CROPS, THE TOPSOIL SHALL BE REMOVED TO A DEPTH OF 12" AND STORED ON SITE. UPON COMPLETION OF CONSTRUCTION, THE TOPSOIL SHALL BE RESTORED. TAKE CARE TO PREVENT MIXING OF TOPSOIL AND SUBSOIL.
6. DESIGN NOTES:
 - A. THIS DRAWING HAS BEEN CREATED BY REVIEW OF THE AS-BUILT DRAWINGS & RECORDS. ACCURACY IS DEPENDENT UPON THE SOURCE DOCUMENT LISTED ON THE REFERENCE DRAWINGS.
7. WELDING REQUIREMENTS:
 - A. ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH THE GAS WELDING CONTROL MANUAL TD-4160M. ALL CANS OR SPOOLS SHALL BE A MINIMUM LENGTH OF ONE PIPE DIAMETER, WHENEVER POSSIBLE.
 - B. INSTALL TEST STATIONS WITH THERMITE WELD CONNECTION IN ACCORDANCE WITH GAS T & D CORROSION CONTROL MANUAL O-10, O-10.1 AND O-10.2.
8. WELDING:
 - A. WHEN INTERNAL MISALIGNMENT EXCEEDS 0.094", BACKWELD ANY GIRTH WELD WHERE THERE IS ACCESS TO THE INSIDE OF THE WELD. WHERE THERE IS NO ACCESS TO THE INSIDE OF THE WELD, MACHINE BORING OR GRINDING IS REQUIRED. BACKWELDING, GRINDING, OR BORING MUST BE DONE IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROCEDURE IN THE GAS WELDING CONTROL MANUAL TD-4160M.
9. STRENGTH TEST REQUIREMENTS
 - A. STRENGTH TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34 AND SHALL BE CONDUCTED IN ACCORDANCE WITH UTILITY PROCEDURE TD-4137S.
 - B. ALL WELDS THAT HAVE NOT BEEN STRENGTH TESTED AND ALL FITTINGS SHALL BE SOAP TESTED AT 100 PSI AND AT OPERATING PRESSURE BEFORE COATING CAN OCCUR.
10. COATING REQUIREMENTS:
 - A. ALL EXPOSED PIPE AND FITTINGS ARE TO BE COATED IN ACCORDANCE WITH GAS STANDARD E-30. ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD E-35.
 - B. FOR COATING SELECTIONS ON BURIED PIPE, SEE DIRECT BURIAL COATING SELECTIONS TABLE.
 - C. CONTACT THE PROJECT ENGINEER (PED) TO REQUEST VARIANCE FROM THE APPROVED COATING PRODUCTS.
11. INSPECTION OF EXISTING PIPELINE:
 - A. WHENEVER EXISTING BURIED GAS FACILITIES ARE EXCAVATED DURING ENGINEERING OR DURING CONSTRUCTION, FOLLOW TD-5100P-01 TO DOCUMENT PIPE INSPECTION. THIS APPLIES TO EXISTING AND TO BE RETIRED FACILITIES.
 - B. EXISTING GIRTH WELDS, AT TIE-IN LOCATIONS, SHALL BE IDENTIFIED AND REMOVED IF PRACTICAL.
 - C. PRIOR TO TIE-IN, INSPECT COATING AND PIPE FOR DEFECTS. IF DEFECTS ARE FOUND, CONTACT PROJECT ENGINEER (PED) FOR GUIDANCE.
12. TIE-IN AND CLEARANCE PROCEDURE TO BE PREPARED AND PERFORMED IN ACCORDANCE WITH THE FOLLOWING WORK PROCEDURES:
 - A. TD-4100-01, HOT AND COLD WORK METHODS FOR NATURAL GAS TRANSMISSION PIPELINE SHUTDOWN AND TIE-IN.
 - B. TD-4441S, GAS CLEARANCE PROCEDURES FOR FACILITIES OPERATING OVER 60 PSIG.

13. COATING REMOVAL:

- A. PERFORM THE FOLLOWING STEPS, IN ACCORDANCE WITH TD-4711P-01, BEFORE REMOVING ASPHALTIC PIPE WRAP ON PIPELINES INSTALLED PRIOR TO 1972 (BASED ON PG&E ANALYSIS, PIPE INSTALLED IN 1972 OR LATER DOES NOT HAVE PIPE WRAP THAT CONTAINS ASBESTOS):
 1. REFER TO THE "EXISTING PIPE SPECS (PRE-1972)" STAMP TO DETERMINE IF A SAMPLE HAS BEEN COLLECTED OR IF A SAMPLE IS REQUIRED:
 - a. "YES" REPRESENTS HISTORICAL RESULTS ARE AVAILABLE SHOWING THAT PIPE WRAP CONTAINS ASBESTOS. NO SAMPLE IS REQUIRED.
 - b. "NO" REPRESENTS HISTORICAL RESULTS ARE AVAILABLE AND THE PIPE WRAP DOES NOT CONTAIN ASBESTOS (CONTENT WAS NON DETECT). NO SAMPLE IS REQUIRED.
 - c. "UNKNOWN" REPRESENTS NO HISTORICAL RESULTS ARE AVAILABLE. A SAMPLE IS REQUIRED IF THE PIPE INSTALLATION DATE IS PRIOR TO 1972.
 2. WHEN A PIPE WRAP SAMPLE IS REQUIRED TO BE ANALYZED FOR ASBESTOS:
 - a. COLLECT SAMPLE PER TD-4711P-01 AND COMPLETE CHAIN OF CUSTODY FORM TD-4711P-01-F01.
 - b. FILE PINK COPY OF THE CHAIN OF CUSTODY FORM AND FINAL LABORATORY RESULTS WITH THE AS-BUILTS.
 3. WHEN REMOVING PIPE WRAP THAT CONTAINS ASBESTOS, OR FOR EMERGENCY WORK, FOLLOW TD-4711P-01 "PIPE WRAP REMOVAL, HANDLING AND DISPOSAL".

CATHODIC PROTECTION NOTES:

1. FOLLOW TD-5100P-01 TO DOCUMENT INTERNAL CORROSION AND EXTERNAL CORROSION INSPECTION OF THE PIPELINE.
2. UPON COMPLETION OF BORINGS, CONTACT THE CORROSION SUPERVISOR FOR THE LOCAL AREA/DIVISION TO PERFORM CURRENT DRAIN TESTS ON THE PIPELINE SEGMENT THAT WAS INSTALLED IN THE BORE. THE CURRENT DRAIN TEST MUST BE PERFORMED PRIOR TO WELDING PIPE ON EITHER SIDE OF THE BORE.
3. FOR THE INSTALLATION OF THE OMNIMETRIX RECTIFIER REMOTE MONITOR, CONTACT THE CORROSION SUPERVISOR FOR THE LOCAL AREA/DIVISION.
4. BONDING CABLES TO BE INSTALLED ACROSS PIPELINE CUT-OUTS AT ALL LOCATIONS THE PIPELINE IS SEVERED PRIOR TO REMOVAL. CHAIN CLAMPS, MAGNETIC CLAMPS, OR OTHER CONSTRUCTION MANAGEMENT APPROVED CLAMPS AND #6 (MIN) STRANDED CABLE SHALL BE UTILIZED. CLAMPS TO REMAIN IN PLACE UNTIL PIPELINE IS TIED IN.

RETIREMENT PROCEDURE FOR EXISTING PIPE:

1. GT&D UTILITY WORK PROCEDURE TD 9500P-16, "DEACTIVATION AND/OR RETIREMENT OF UNDERGROUND GAS FACILITIES," SHALL BE FOLLOWED.
2. THE EXISTING PIPE SECTIONS SHALL HAVE FREE LIQUIDS REMOVED AND BE 100% PURGED PER GAS DESIGN STANDARD A-38, "PROCEDURES FOR PURGING GAS FACILITIES."
3. THE PIPE SHALL BE SECTIONALIZED AT INTERVALS AS SPECIFIED IN THE RETIREMENT PLAN. THE LOCATIONS CALLED OUT ARE APPROXIMATE AND ARE SUBJECT TO FIELD VERIFICATION TO IDENTIFY THE MOST OPTIMUM LOCATION IN THAT VICINITY. ACCURATE SURVEY DATA MAY NOT BE AVAILABLE FOR THESE LOCATIONS SO USE CAUTION DURING EXCAVATION AND WHEN IDENTIFYING THE PIPELINE TO BE RETIRED. OTHER ACTIVE PIPELINES MAY BE IN THE AREA.
4. AT EACH SUCH LOCATION NOTED ABOVE, A PIECE OF PIPE AT LEAST 24" LONG SHALL BE REMOVED. INSTALL A 1" HIGH PRESSURE SAVE-A-VALVE (H-17491, M022287) TO CHECK FOR PRODUCT AND PRESSURE PRIOR TO CUTTING INTO THE PIPELINE. THE OPEN ENDS OF THE RETIRED PIPE SHALL BE SEALED BY THE MOST APPROPRIATE METHOD OUTLINED IN GT&D UTILITY WORK PROCEDURE TD-9500P-16. BACKFILL MUST BE THOROUGHLY COMPACTED IN PLACE OF THE REMOVED SECTION OF PIPE.

DESIGN CHANGE PROCEDURE

MAINTENANCE AND CONSTRUCTION PERSONNEL MUST OBTAIN APPROVAL FROM THE PROJECT ENGINEER (PED) BEFORE MAKING ANY DESIGN CHANGE TO GAS FACILITIES PER TD-4014P-01.

CONTACT INFORMATION:

PROJECT MANAGER	----	CHRISTINE MIER	925-244-8978
PROJECT ENGINEER (PED)	----	VILNEY OCHOA	925-244-7265
PIPELINE ENGINEER (PLE)	----	MIKE ARONOFF	916-307-9472
ESTIMATOR / DESIGNER	----	KEVIN TORBIK	916-472-2157
FIELD ENGINEER / CM	----	CRAIG WOOSLEY	916-539-8916
LAND PLANNER	----	CHRIS ELLIS	916-955-8545
CULTURAL MONITOR	----	KIM CUEVAS	661-398-5911
ENVIRONMENTAL	----	BILL FROLICH	925-549-5691

REFERENCE DRAWINGS:

OPERATING MAPS	----	382875, REV 83
AS-BUILTS	----	104986 - 1951
	----	70194 - 1943
	----	56132 - 1939
	----	48825 - 1935
	----	7036880 - 2001

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KJT6	MDGR		

PIPELINE - CONSTRUCTION NOTES
DFM 0613-01 MP 2.94 - 5.29
RETIRE APPROX 12,250' OF 12" PIPE
SACRAMENTO, SACRAMENTO COUNTY
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

GAS TRANSMISSION ESTIMATING & DESIGN

90% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

BILL OF MATL SHEET 15

JOB ID **R-582**

SHEET NO. 2 OF 15 SHEETS

74004048 0

DIRECT BURIAL COATING SELECTIONS	
MAIN LINE COATING	FBE (E-35.4)
MINOR REPAIRS	LIQUID EPOXY (E-35.3) OR FBE PATCH STICK (E-35.4)
TIE-IN WELDS	LIQUID EPOXY (E-35.1)
GIRTH WELDS	LIQUID EPOXY (E-35.1)
BUTT WELDED FITTINGS	LIQUID EPOXY (E-35.1)
VALVE ASSEMBLIES	LIQUID EPOXY (E-35.7), WAX TAPE (E-35.7)
SHORT SEGMENTS OF PIPE	LIQUID EPOXY (E-35.1)
AIR-TO-SOIL TRANSITIONS	LIQUID EPOXY/PSX 700 (E-35.8)
PRESSURE CONTROL FITTINGS	LIQUID EPOXY (E-35.7), WAX TAPE (E-35.7)
TIE-INS/COATING TRANSITIONS	LIQUID EPOXY (E-35.3)
BORED COATING SELECTIONS	
MAIN LINE COATING	ARO APPLIED OVER FBE (E-35.4)
MINOR REPAIRS	LIQUID EPOXIES (E-35.2)
TIE-IN WELDS	LIQUID EPOXIES (E-35.2)

NOTES:
1) REFERENCE CONSTRUCTION NOTE 10, COATING REQUIREMENTS.

INTERNAL CORROSION (IC) DESIGN & CONSTRUCTION REVIEW		
IC THREAT (PER TD-4810P-16)	YES	NO
IC REVIEW COMPLETED BY (CORROSION ENGINEER OR DESIGNATE)	LAN ID	DATE
CORROSION ENGINEERING HAS REVIEWED THIS DESIGN AND INCORPORATED ANY NECESSARY IC DESIGN AND CONSTRUCTION CONSIDERATIONS. DOCUMENTATION OF THE REVIEW AND ACTIONS TAKEN ARE IN THE JOB PACKAGE AND INCORPORATED IN THIS DESIGN.		
EDRS ROUTING NUMBER: -		

INSTALLATION TESTED OR INSPECTED AND NOTED ON DRAWING. ALL CORROSION LEVELS SATISFACTORY PER PG&E GAS UTILITY STANDARD TD-4181S.	
QUALIFIED EMPLOYEE	DATE
CORROSION MECHANIC'S SIGNATURE IS REQUIRED WHEN A CPA BOUNDARY IS WITHIN THE SCOPE OF THE PROJECT.	

LEGEND:

GT	GAS TRANSMISSION LINE (PROPOSED)	FENCE	GAS LINE MARKER (OTHER)
GT (T)	GAS TRANSMISSION LINE (TO BE TESTED)	WALLTYPE	INSULATION JOINT
GS	GAS TRANSMISSION LINE (EXISTING)	BARRIER	PRESSURE CONTROL FITTING
GD	GAS DISTRIBUTION LINE (EXISTING)	TEMPORARY BARRIER (TYPE K)	GAS BOX
GT	GAS SERVICE LINE (EXISTING)	GUARD RAIL	GAS HIGH PRESSURE REGULATOR
GT	GAS TRANSMISSION LINE (RETIRED)	TOE OF SLOPE	GAS METER
GD	GAS DISTRIBUTION LINE (RETIRED)	TOP OF SLOPE	GAS DISTRICT REGULATOR
GS	GAS SERVICE LINE (RETIRED)	EP	PG&E GAS MANHOLE
FOREIGN GAS LINE		FC	GAS VAULT
JT	JOINT TRENCH	BW	GAS VENT
ET	ELECTRIC TRANSMISSION LINE	DASHED PAVEMENT MARKINGS	GAS VALVE
ED	ELECTRIC DISTRIBUTION LINE	UNPAVED ROAD	PG&E ELECTRIC MANHOLE
ES	ELECTRIC SERVICE LINE	RAILROAD	ELECTRIC VAULT
ETOH	ELECTRIC TRANSMISSION OVERHEAD	ACCESS ROAD	UTILITY POLE (ELECTRIC)
EDOH	ELECTRIC DISTRIBUTION OVERHEAD	LAYDOWN / STAGING / CONSTRUCTION IMPACT AREA	UTILITY POLE (OTHER)
T	TELEPHONE LINE	EXCAVATION / BELL HOLE	JOINT POLE
FO	FIBER OPTIC LINE	SAFETY ZONE LIMITS	EXISTING ELECTRIC TOWER
TV	CABLE TV LINE	ENVIRONMENTALLY SENSITIVE AREAS	STORM DRAIN INLET
SD	STORM DRAIN LINE		UTILITY MANHOLE
SS	SEWER LINE		WATER METER
W	WATER LINE		
UNK	UNKNOWN UTILITIES		
CASING	CASING		
PROPERTY BOUNDARY	PROPERTY BOUNDARY		
PG&E EASEMENT	PG&E EASEMENT		
TEMPORARY EASEMENT	TEMPORARY EASEMENT		
R/W	FOREIGN RIGHT-OF-WAY		
CALTRANS RIGHT-OF-WAY	CALTRANS RIGHT-OF-WAY		

DETAIL LEGEND:

	PROPOSED GAS TRANSMISSION LINE		WATER VALVE
	EXISTING GAS TRANSMISSION LINE		CABLE TV BOX
	TEMPORARY GAS TRANSMISSION LINE (OWNED BY PG&E)		TELECOMM BOX
	TEMPORARY GAS TRANSMISSION LINE (OWNED BY OTHERS)		TELECOMM VAULT
	RETIRED GAS TRANSMISSION LINE		STREET LIGHT BOX
	GAS TRANSMISSION LINE (TO BE REMOVED)		TREE
	CUT LINE (TO BE REMOVED)		ANODE
	EXISTING GAS DISTRIBUTION LINE		DEEPWELL ANODE
	PROPOSED GAS DISTRIBUTION LINE		COMPUTER AUTOMATED TEST STATION
	TOP OF GRADE		COUPON TEST STATION
	GAS VALVE		ELECTROLYSIS TEST STATION
	PIPE END CUT (SIDE)		POLE-MOUNTED RECTIFIER
	PIPE END CUT		DCI MITIGATION CABINET
	FLOW ARROW		POTHOLE
	TIE-IN WELD		CITY/COUNTY MONUMENT
	MATERIAL OF RECORD ASSET		MONUMENT, SEE DESCRIPTION
	BILL OF MATERIALS ASSET		SURVEY CONTROL POINT
			CENTERLINE

Acronym (E)	Definition Existing	Acronym DEG	Definition Degree	Acronym HFV	Definition High Frequency Weld	Acronym PKWY	Definition Parkway	Acronym TEMP	Definition Temporary
(P)	Proposed	DET	Detail	HPR	High Pressure Regulator	PL	Plastic	TG	Top of Grade
AB	Aggregate Base	DFM	Distribution Feeder Main	HWY	Highway	PLC	Programmable Logic Controllers	TT	Top Tap
ABN	Abandon	DI	Drainage Inlet	ID	Inside Diameter	PRUPF	Procedure for the Resolution of Unknown Pipeline Features	TSP	Transmission System Planning
AC	Asphalt Concrete	DIA	Diameter	ILI	In-Line Inspection			TYP	Typical
API	American Petroleum Institute	DIST	Distribution	INV	Invert	PSI	Pounds per Square Inch	UG	Underground
APN	Assessor's Parcel Number	DPV	Damage Prevention Volume	IRR	Irrigation	PV	Plug Valve	USA	Underground Service Alert
APPROX	Approximate	DR	District Regulator	JN	Job Number	PVMT	Pavement	UT	Ultra-Sonic Test
AVE	Avenue	DREG	District Regulator	JP	Joint Pole	QTY	Quantity	V	Valve
ARC	Abrasion Resistant Coating	DSAW	Double Submerged Arc-Welded	JT	Joint Trench	R	Radius	VIF	Verify in Field
ASME	American Society of Mechanical Engineers	DWA	Deep Well Anode	L	Line Number	RCP	Reinforced Concrete Pipe	VOL	Volume
ASTM	American Society for Testing Materials	DWY	Driveway	LAT	Latitude	RD	Road	W	Water
BBCL	Bell Bell Chill Ring	E	East	LN	Lane	RDWY	Roadway	WT	Wall Thickness
BC	Begin Curve	EASE	Easement	LNG	Liquid Natural Gas	REG	Regulator	WV	Water Valve
BD	Blowdown	EC	End Curve	LOC	Location	REL	Relocate	W/	With
BEG	Begin	EL	Elbow	LONG	Longitude	REPL	Replace	W/O	Without
BKF	Backfill	ELECT	Electric	LT	Left	REV	Revision	WP	Work Procedure
BLDG	Building	ELEV	Elevation	M	Monitor	RR	Railroad		
BLVD	Boulevard	EM	Electronic Marker	MAOP	Maximum Allowable Operating Pressure	RT	Right		
BM	Bench Mark	EMS	Engineering Material Specification	MAX	Maximum	RTE	Route		
BMP	Best Management Practice	ENGR	Engineer	MH	Manhole	R/W	Right of Way		
BOM	Bill of Materials	EP	Edge of Pavement	MIN	Minimum	S	South		
BR	Bridge	EQ	Equation	MISC	Miscellaneous	SAWH	Submerged Arc-Welded Helical		
BTU	British Thermal Units	ERW	Electric Resistance Welded	MLV	Main Line Valve	SAWL	Submerged Arc-Welded Longitudinal		
BV	Ball Valve	ESA	Environmentally Sensitive Area	MOI	Method of Installation	SCADA	Supervisory Control and Data Acquisition		
BW	Back of Walk	ETS	Electrolysis Test Station	MON	Monument	SD	Storm Drain		
CATS	Computer Automated Test Station	ETW	Edge of Traveled Way	MOP	Maximum Operating Pressure	SG	Subgrade		
CCV	Corrosion Control Volume	F	Filter	MP	Mile Point	SHT	Sheet		
CI	Cast Iron	F & C	Frame and Cover	MSP	Maximum Stopping Pressure	SMLS	Seamless		
CL	Centerline	FBE	Fusion Bonded Epoxy	MTR	Meter	SMYS	Specified Minimum Yield Strength		
CMP	Corrugated Metal Pipe	FC	Face of Curb	MW	Working Monitor	SPEC	Specification		
CNG	Compressed Natural Gas	FDP	Future Design Pressure	MWP	Maximum Working Pressure	SS	Sanitary Sewer		
CO	County	FG	Finished Grade	N	North	SSAW	Single Submerged Arc-Welded		
CONC	Concrete	FH	Fire Hydrant	NDE	Non-Destructive Examination	ST	Street		
COND	Conduit	FIG	Figure	NOP	Normal Operating Pressure	STA	Station		
CP	Cathodic Protection	FL	Flow Line	NPC	Non-Protected/Native Coupon	STD	Standard		
CPT	Catch Point	FLG	Flange	NTS	Not to Scale	STL	Steel		
CROP	Conditional Reduction of Pressure	FWY	Freeway	OD	Outside Pipe Diameter	STPR	Strength Test Pressure Report		
CTS	Coupon Test Station	GS	Natural Gas Service	OG	Original Ground	T	Tied (Connected to System)		
CU	Copper	GS&S	Gas Standards and Specifications	OH	Overhead	TCE	Temporary Construction Easement		
CULV	Culvert	GV	Gate Valve	P	Pipeline	TCP	Traffic Control Plan		
D	Depth	GW	Natural Gas Well	P/L	Natural Gas Well	TD	Technical Document		
DE	Dead End	H	Horizontal	PC	Point of Curvature	TDW	T. D. Williamson		
DCUST	Distribution Customer	HDD	Horizontal Directional Drill	PCF	Pressure Control Fitting	TEL	Telephone		

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KIT6	MDGR		

PIPELINE - LEGEND & STAMPS
DFM 0613-01 MP 2.94 - 5.29
RETIRE APPROX 12,250' OF 12" PIPE
SACRAMENTO, SACRAMENTO COUNTY
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

GAS TRANSMISSION ESTIMATING & DESIGN

90% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

BILL OF MATL SHEET 15

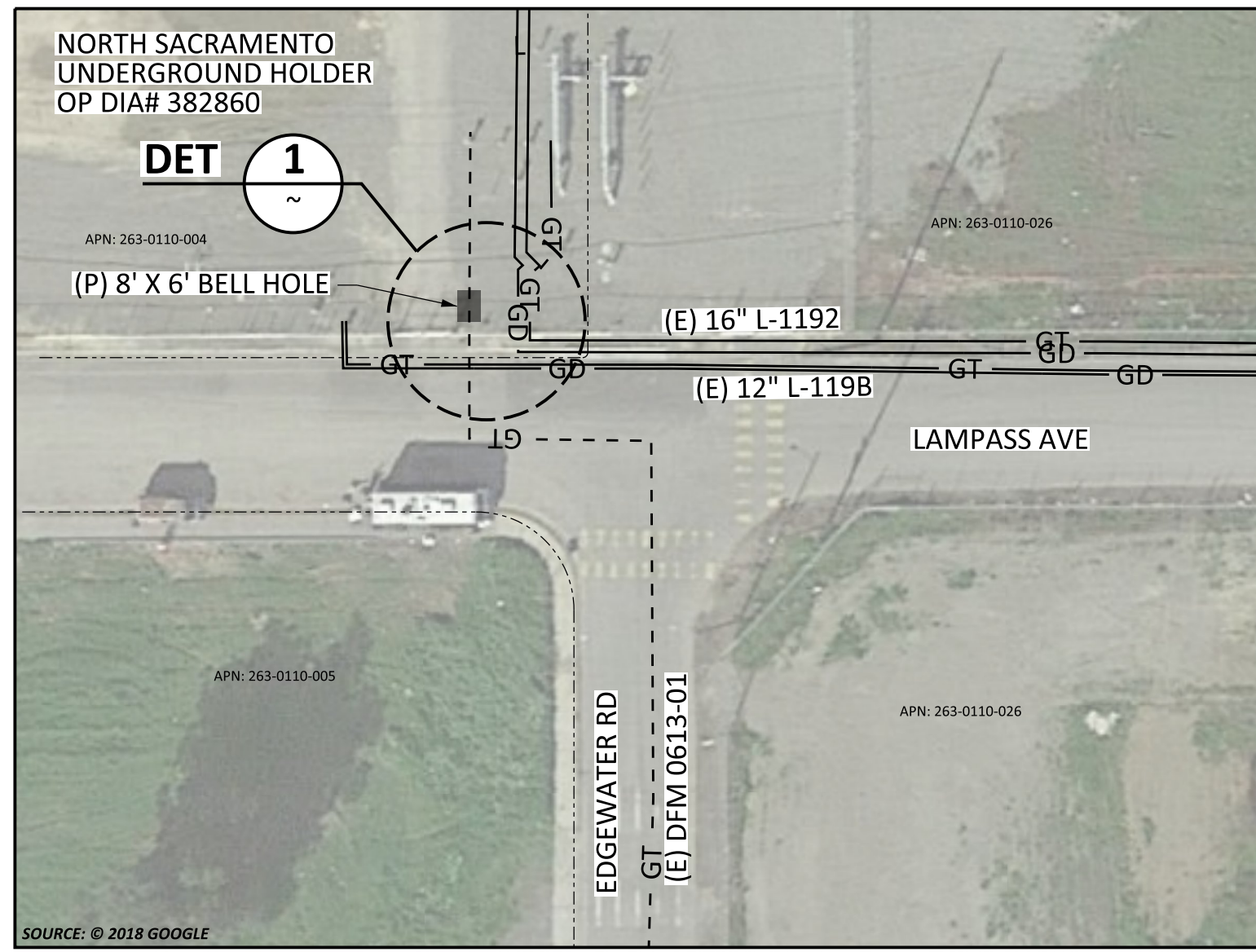
JOB ID **R-582**

SHEET NO. 3 OF 15 SHEETS

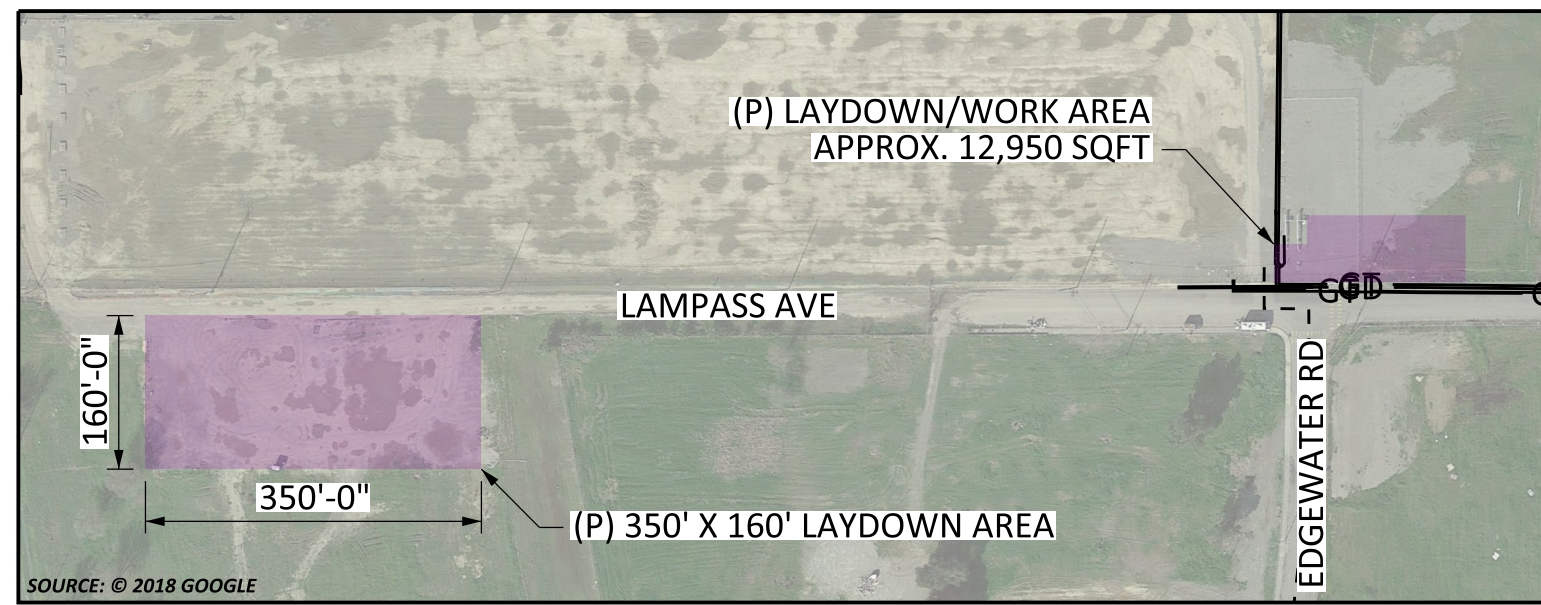
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Estimating.com

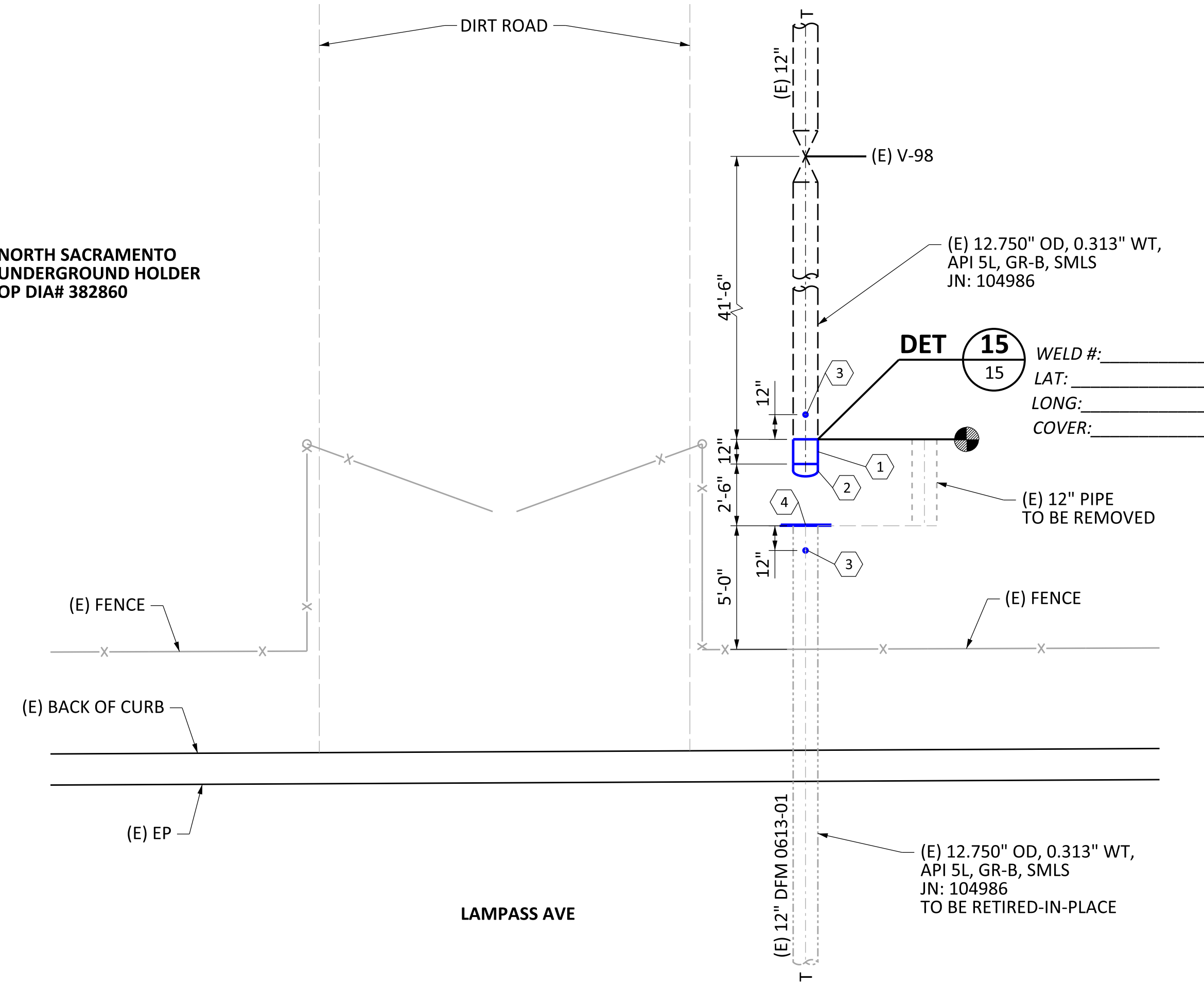
LOCATION A
LAMPASS AVE & EDGEWATER RD
WALL MAP - 2525; PLAT - D8; DFM 0613-01, MP 5.29
(SCALE: 1" = 40')



LOCATION A WORK AREAS
(SCALE: 1" = 200')



NORTH SACRAMENTO UNDERGROUND HOLDER OP DIA# 382860



DETAIL 1 CUT & CAP DFM 0613-01 NORTH SAC UG HOLDER
SCALE: 1/4" = 1'-0"

HEADER PIPE SPECS (PRE-1972)	
HEADER SIZE:	12.750" WALL THICKNESS: 0.313"
PIPE SPECS:	API 5L, GR B, SMLS
PRESENT MAOP:	260 PSIG
% SMYS @ MAOP:	15.13%
INSTALL JN:	104986 YEAR: 1951
HISTORICAL RESULTS, CONTAINS ASBESTOS?	
YES	<input type="checkbox"/>
NO	<input type="checkbox"/>
UNKNOWN	<input checked="" type="checkbox"/>
PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED	
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)	
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	
A) (260 PSIG)	WHEN WELDING ON BODY OF THE PIPE, UNLESS:
B) (260 PSIG)	WHEN WELDING WITHIN 3":
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GROUDES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	

WARNING:
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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KJT6	MDGR		

PIPELINE - DETAILS
DFM 0613-01 MP 2.94 - 5.29
RETIRE APPROX 12,250' OF 12" PIPE
SACRAMENTO, SACRAMENTO COUNTY
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

PG&E
GAS TRANSMISSION ESTIMATING & DESIGN

90% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

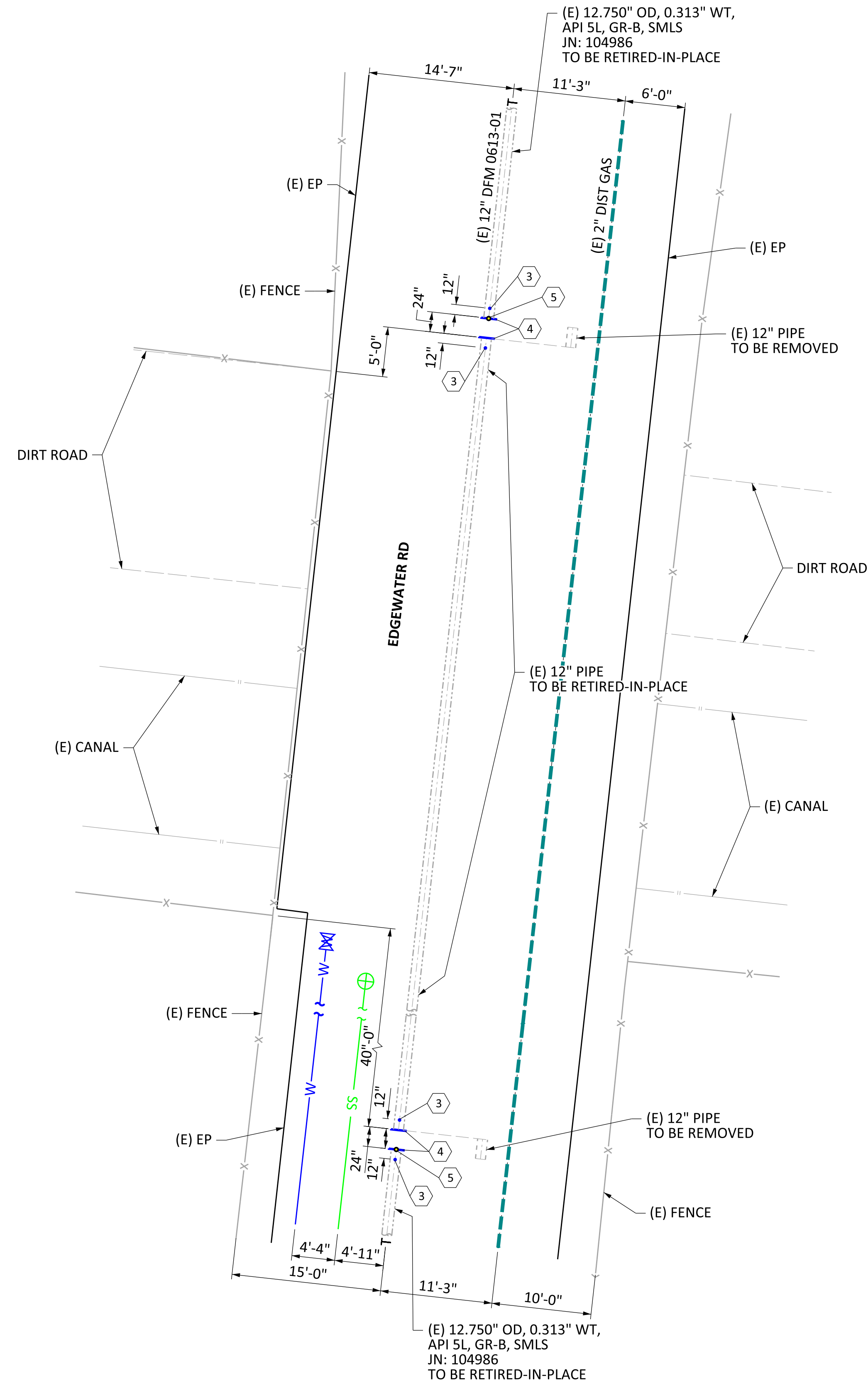
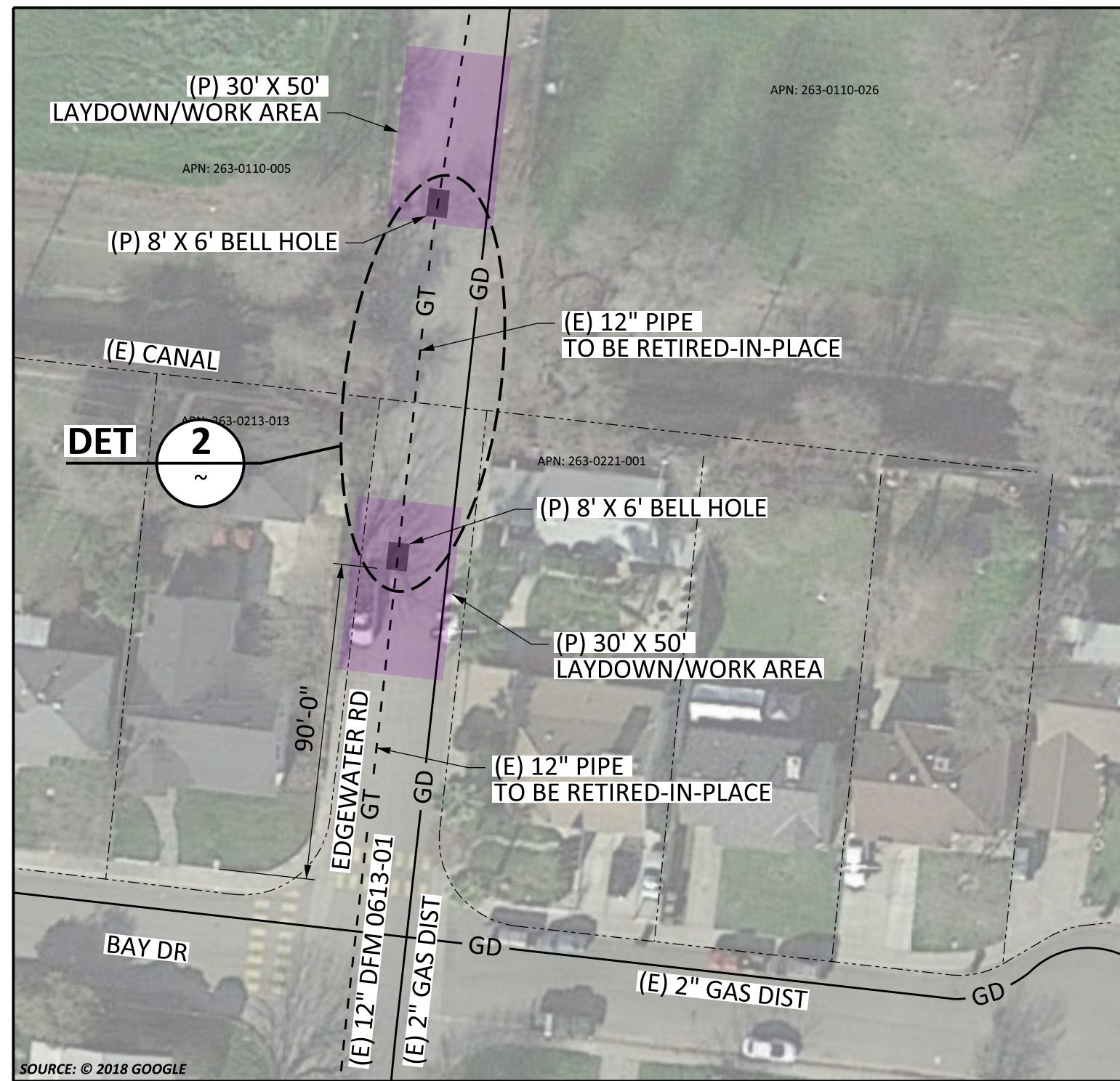
BILL OF MATL SHEET 15

JOB ID **R-582**

SHEET NO. 5 OF 15 SHEETS

74004048 0

LOCATION B
 EDGEWATER RD APPROX 130' N/O BAY DR
 WALL MAP - 2525; PLAT - D8; DFM 0613-01, MP 5.04
 (SCALE: 1" = 40')



DETAIL 2 SECTIONALIZE AT CANAL
 EDGEWATER RD
 SCALE: 1/8" = 1'-0"

HEADER PIPE SPECS (PRE-1972)	
HEADER SIZE:	12.750" WALL THICKNESS: 0.313"
PIPE SPECS:	API 5L, GR B, SMLS
PRESENT MAOP:	260 PSIG
% SMYS @ MAOP:	15.13%
INSTALL JN:	104986 YEAR: 1951
HISTORICAL RESULTS, CONTAINS ASBESTOS?	
YES	<input type="checkbox"/>
NO	<input type="checkbox"/>
UNKNOWN	<input checked="" type="checkbox"/>
PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED	
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-23)	
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	
A) (260 PSIG)	WHEN WELDING ON BODY OF THE PIPE, UNLESS:
B) (260 PSIG)	WHEN WELDING WITHIN 3":
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	3-1-19	100% DESIGN REVIEW	74004048	KIT6	MDGR		

PIPELINE - DETAILS
 DFM 0613-01 MP 2.94 - 5.29
 RETIRE APPROX 12,250' OF 12" PIPE
 SACRAMENTO, SACRAMENTO COUNTY
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

GAS TRANSMISSION ESTIMATING & DESIGN

100% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

BILL OF MATL SHEET 15

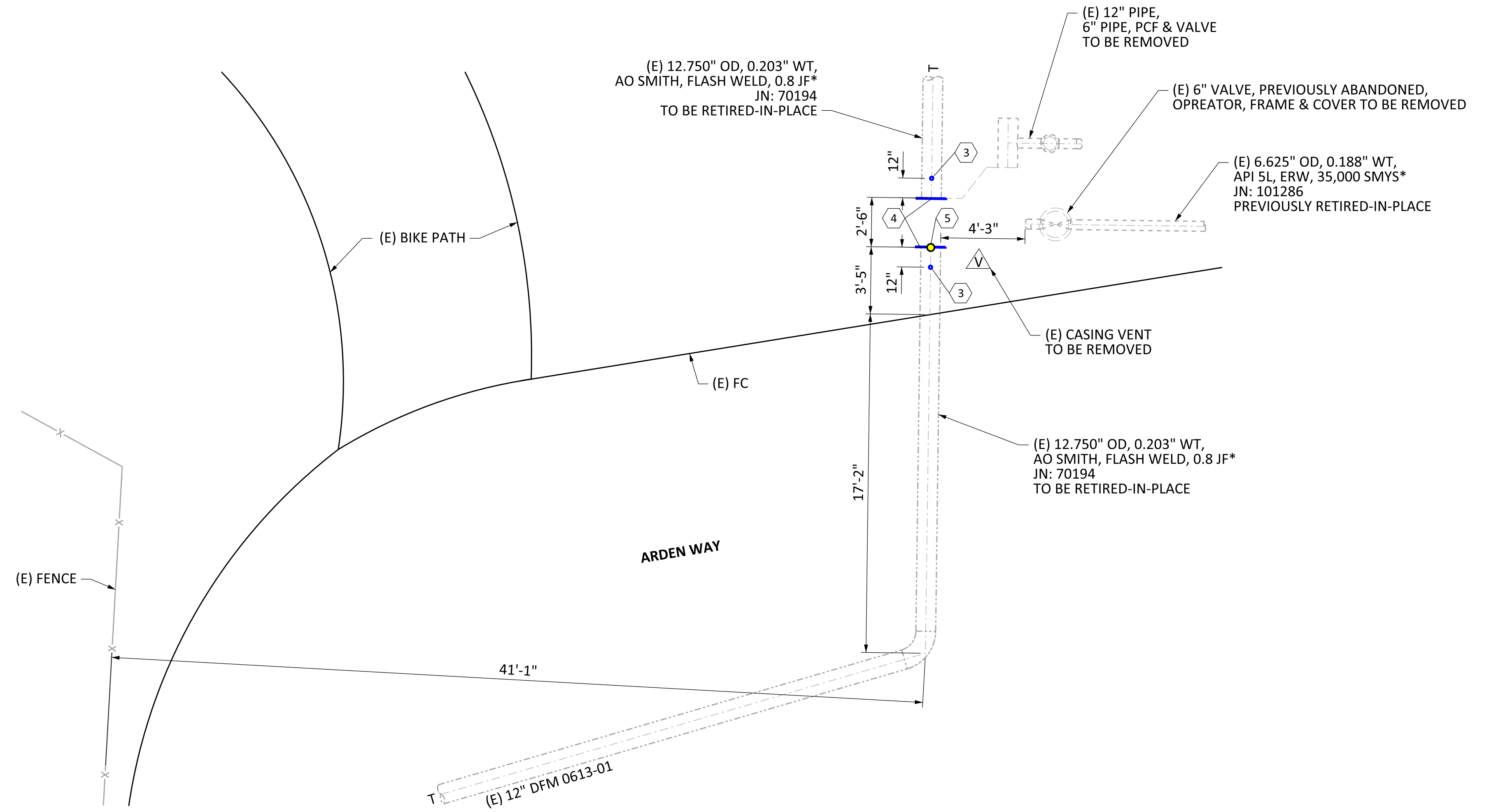
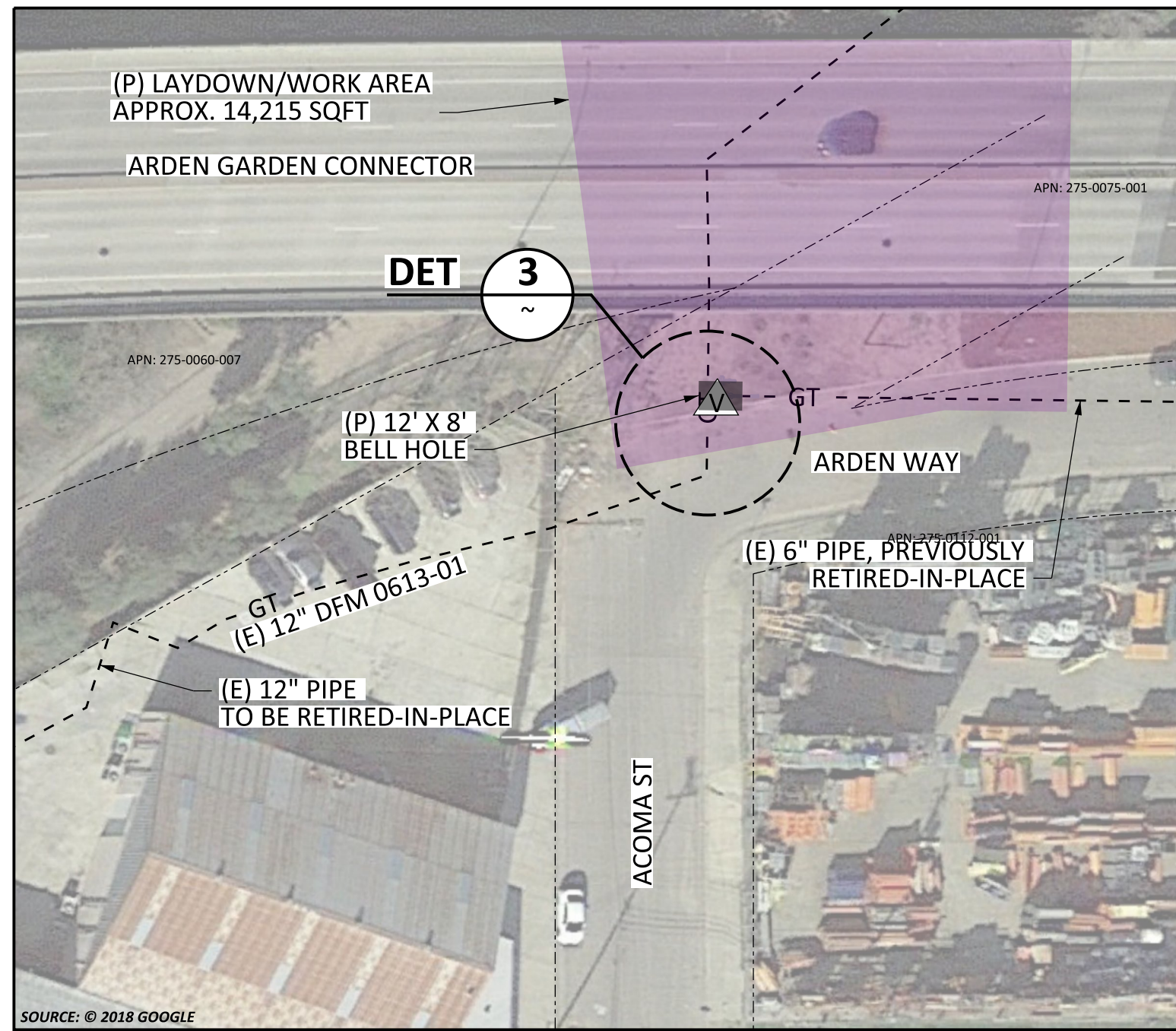
JOB ID **R-582**

SHEET NO. 6 OF 15 SHEETS

74004048 0

Estimating.dgn

LOCATION C
 ARDEN WAY @ ACOMA ST
 WALL MAP - 2525; PLAT - E7; DFM 0613-01, MP 4.38
 (SCALE: 1" = 40')



DETAIL 3 SECTIONALIZE DFM 0613-01
 SCALE: 1/4" = 1'-0"
 ARDEN WAY @ ACOMA ST

HEADER PIPE SPECS (PRE-1972)	
HEADER SIZE:	12.750" WALL THICKNESS: 0.203"
PIPE SPECS:	AO SMITH, FW, 35,000 SMYS
PRESENT MAOP:	260 PSIG
% SMYS @ MAOP:	34.02%
INSTALL JN:	70194 YEAR: 1943
HISTORICAL RESULTS, CONTAINS ASBESTOS?	
YES	<input type="checkbox"/>
NO	<input type="checkbox"/>
UNKNOWN	<input checked="" type="checkbox"/>
PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED	
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)	
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	
A) (260 PSIG)	WHEN WELDING ON BODY OF THE PIPE. UNLESS,
B) (152 PSIG)	WHEN WELDING WITHIN 3".
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KJTG	MDGR		

PIPELINE - DETAILS
 DFM 0613-01 MP 2.94 - 5.29
 RETIRE APPROX 12,250' OF 12" PIPE
 SACRAMENTO, SACRAMENTO COUNTY
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

GAS TRANSMISSION ESTIMATING & DESIGN

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PACIFIC GAS AND ELECTRIC COMPANY

BILL OF MATL SHEET 15

JOB ID **R-582**

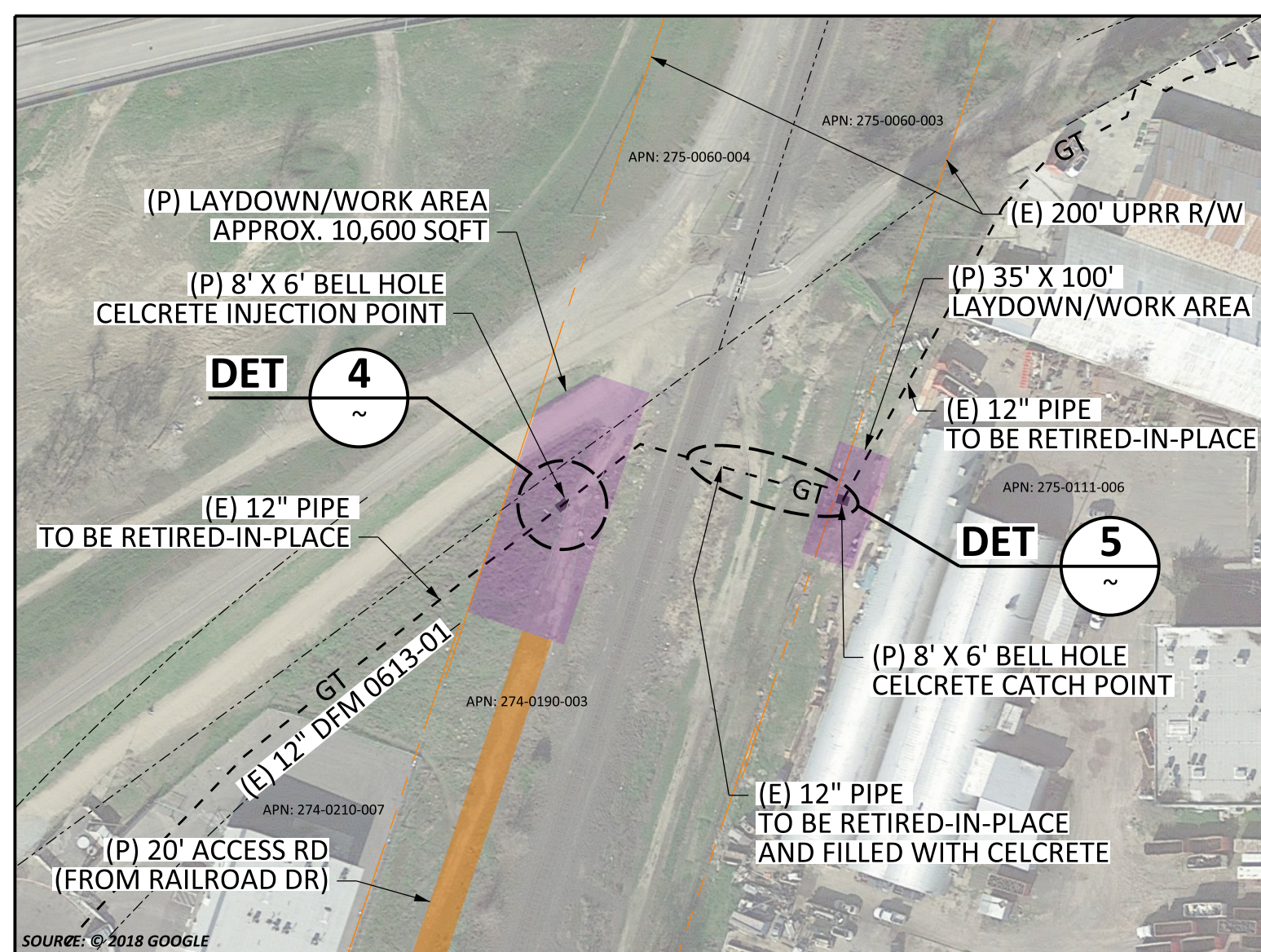
SHEET NO. 7 OF 15 SHEETS

74004048 0

Estimating.dgn

LOCATION D

LAT: 38.305665, LONG: -121.467926
 WALL MAP - 2525; PLAT - E7; DFM 0613-01, MP 4.26
 (SCALE: 1" = 40')

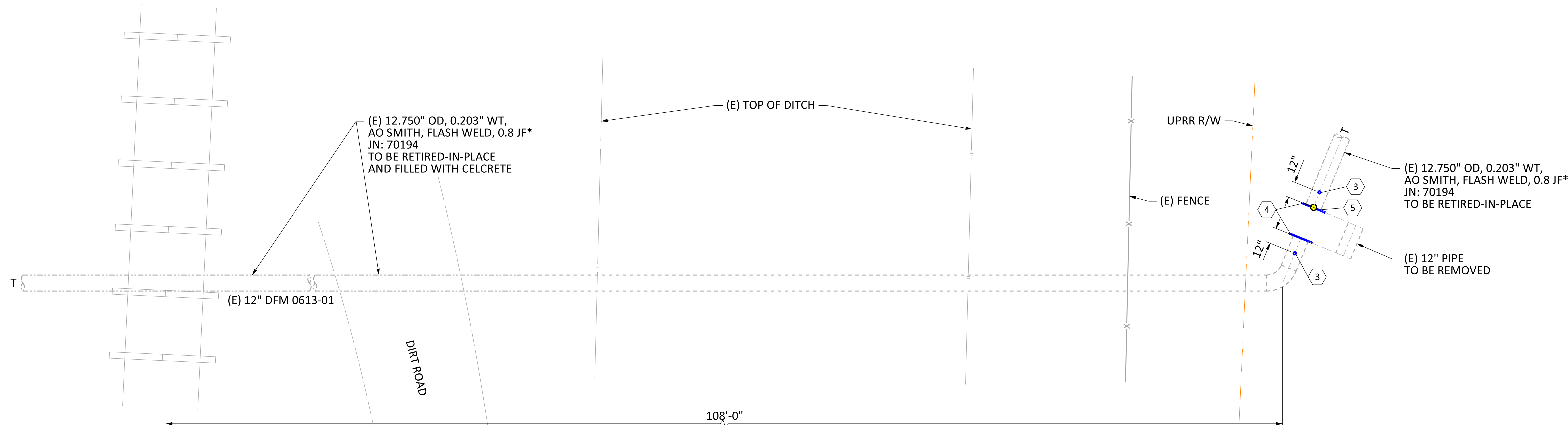


(E) 12.750" OD, 0.203" WT,
 AO SMITH, FLASH WELD, 0.8 JF*
 JN: 70194
 TO BE RETIRED-IN-PLACE
 AND FILLED WITH CELCRETE

(E) 12" PIPE
 TO BE REMOVED

(E) 12.750" OD, 0.203" WT,
 AO SMITH, FLASH WELD, 0.8 JF*
 JN: 70194
 TO BE RETIRED-IN-PLACE

DETAIL 4 SECTIONALIZE DFM 0613-01
 W/S UPRR CROSSING
 SCALE: 1/4" = 1'-0"



DETAIL 5 SECTIONALIZE DFM 0613-01
 E/S UPRR CROSSING
 SCALE: 1/4" = 1'-0"

***ASSUMED SPECS PER TD-4125P-09**

HEADER PIPE SPECS (PRE-1972)	
HEADER SIZE: 12.750" WALL THICKNESS: 0.203"	
PIPE SPECS: AO SMITH, FW, 35,000 SMYS	
PRESENT MAOP: 260 PSIG	
% SMYS @ MAOP: 34.02%	
INSTALL JN: 70194	YEAR: 1943
HISTORICAL RESULTS, CONTAINS ASBESTOS?	
YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> UNKNOWN
PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED	
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)	
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	
A) (260 PSIG)	WHEN WELDING ON BODY OF THE PIPE, UNLESS,
B) (152 PSIG)	WHEN WELDING WITHIN 3".
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	

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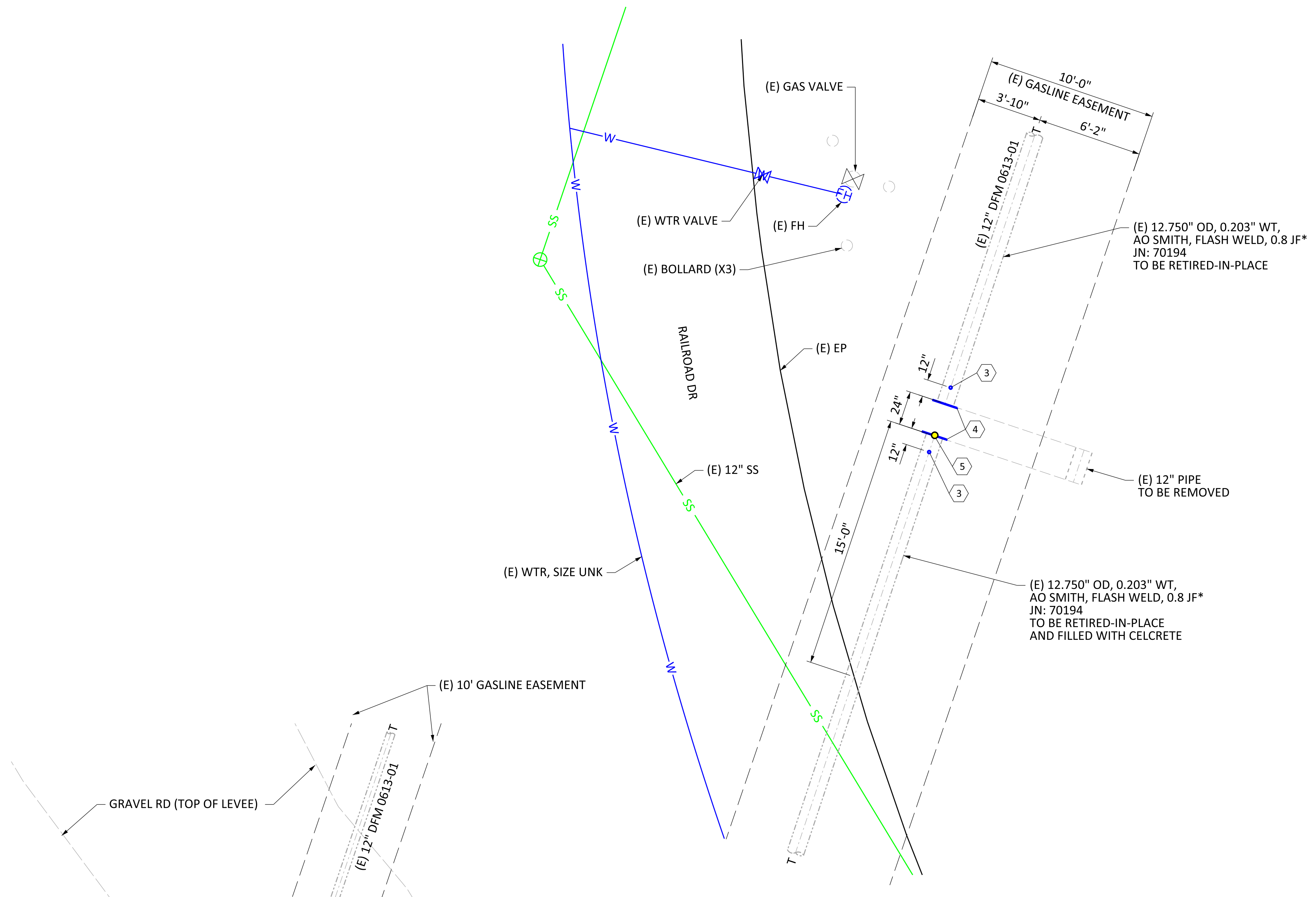
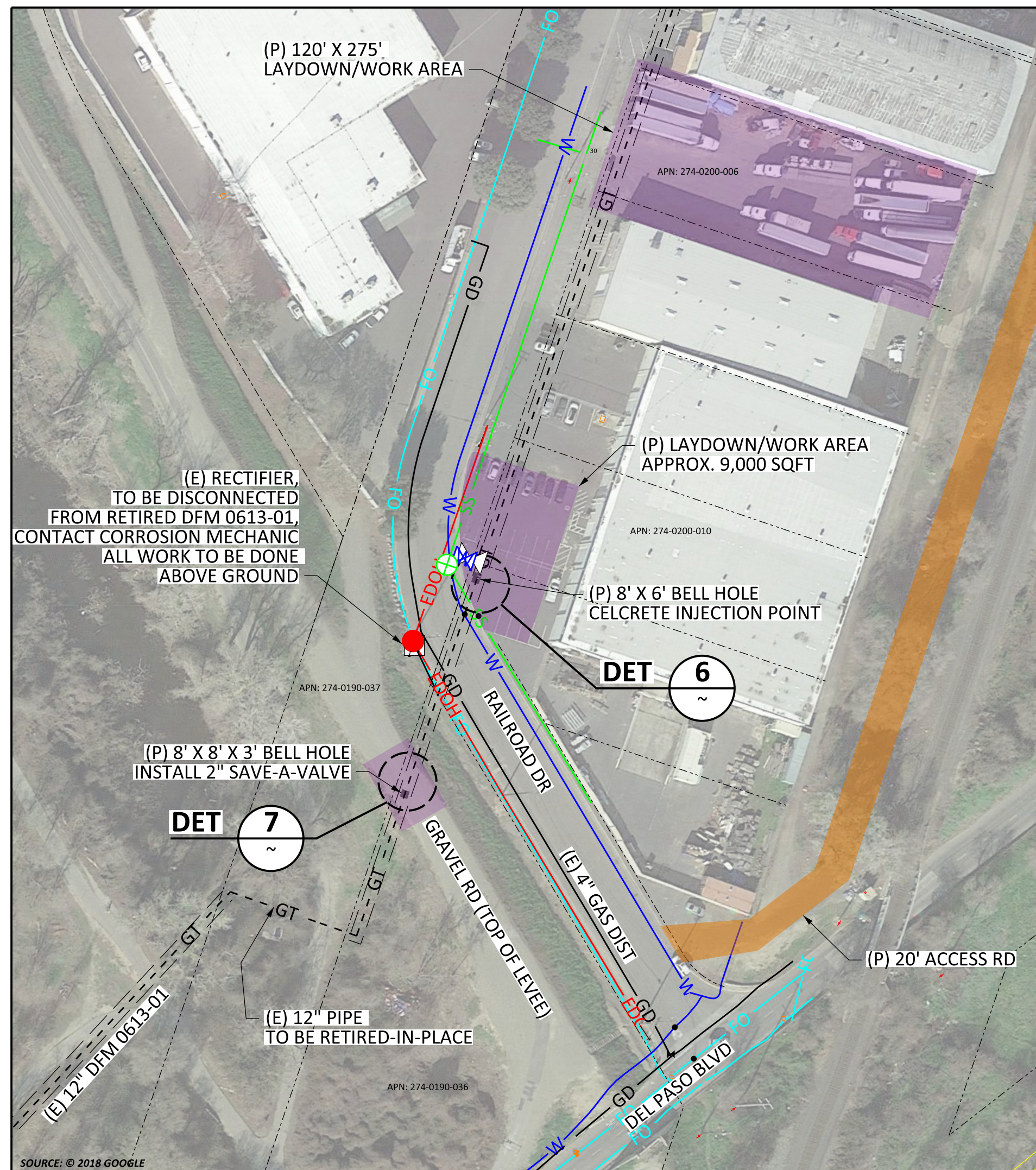
REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	3-1-19	100% DESIGN REVIEW	74004048	KJT6	MDGR		

PIPELINE - DETAILS
 DFM 0613-01 MP 2.94 - 5.29
 RETIRE APPROX 12,250' OF 12" PIPE
 SACRAMENTO, SACRAMENTO COUNTY
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

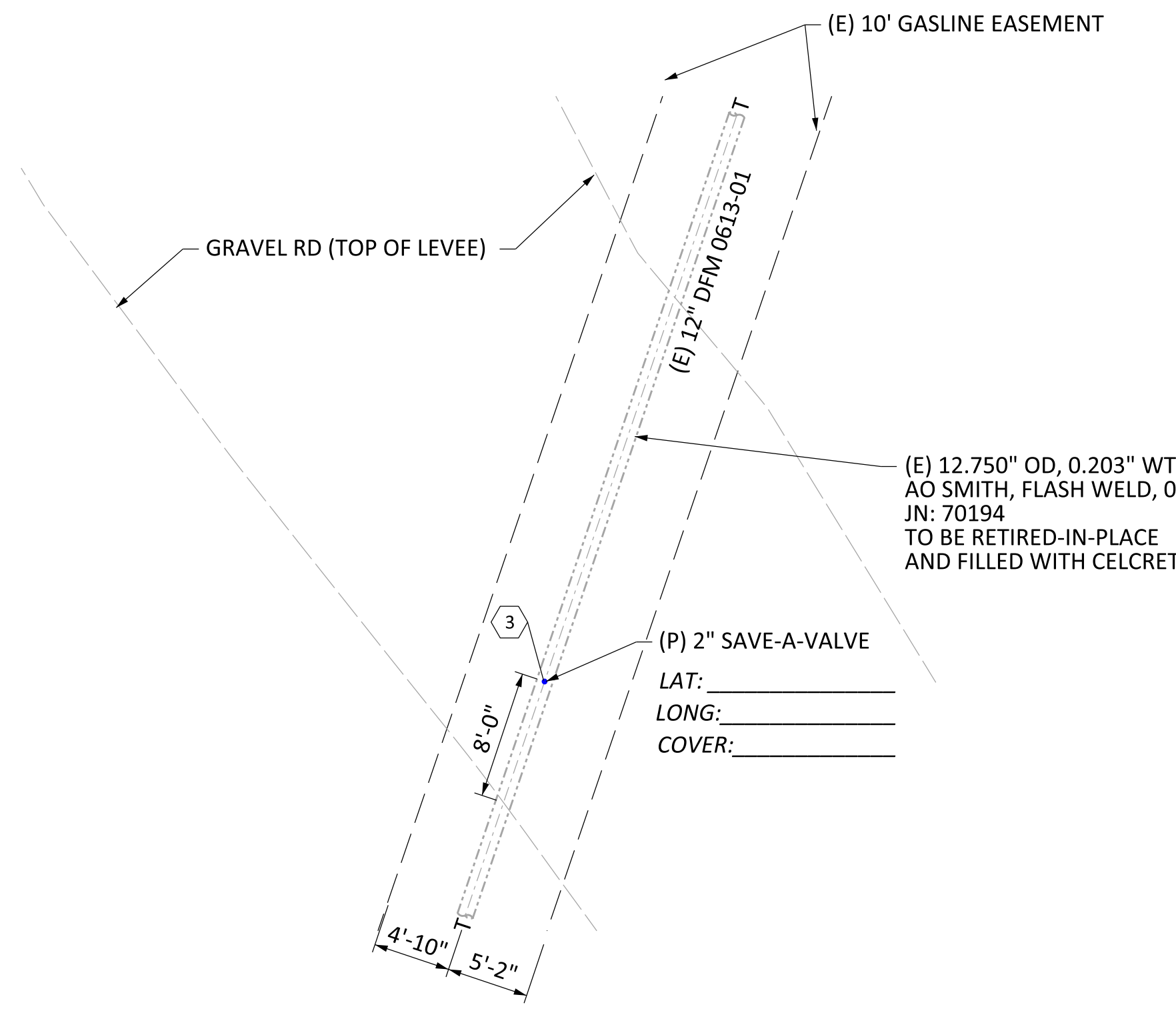
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 GAS TRANSMISSION ESTIMATING & DESIGN
100% DESIGN REVIEW
 PACIFIC GAS AND ELECTRIC COMPANY
 BILL OF MATL SHEET 15
 JOB ID **R-582**
 SHEET NO. 8 OF 15 SHEETS
74004048 0

Estimating.pcn

LOCATION E
RAILROAD DR
WALL MAP - 2525; PLAT - F7; DFM 0613-01, MP 3.90
(SCALE: 1" = 80')



DETAIL 6 SECTIONALIZE DFM 0613-01 AT RAILROAD DR
SCALE: 1/4" = 1'-0"



DETAIL 7 INSTALL SAVE-A-VALVE AT TOP OF LEVEE
SCALE: 1/8" = 1'-0"

***ASSUMED SPECS PER TD-4125P-09**

HEADER PIPE SPECS (PRE-1972)	
HEADER SIZE: 12.750" WALL THICKNESS: 0.203"	
PIPE SPECS: AO SMITH, FW, 35,000 SMYS	
PRESENT MAOP: 260 PSIG	
% SMYS @ MAOP: 34.02%	
INSTALL JN: 70194	YEAR: 1943
HISTORICAL RESULTS, CONTAINS ASBESTOS?	
<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED	
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)	
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	
A) (260 PSIG)	WHEN WELDING ON BODY OF THE PIPE, UNLESS:
B) (152 PSIG)	WHEN WELDING WITHIN 3":
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GROUVE, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	

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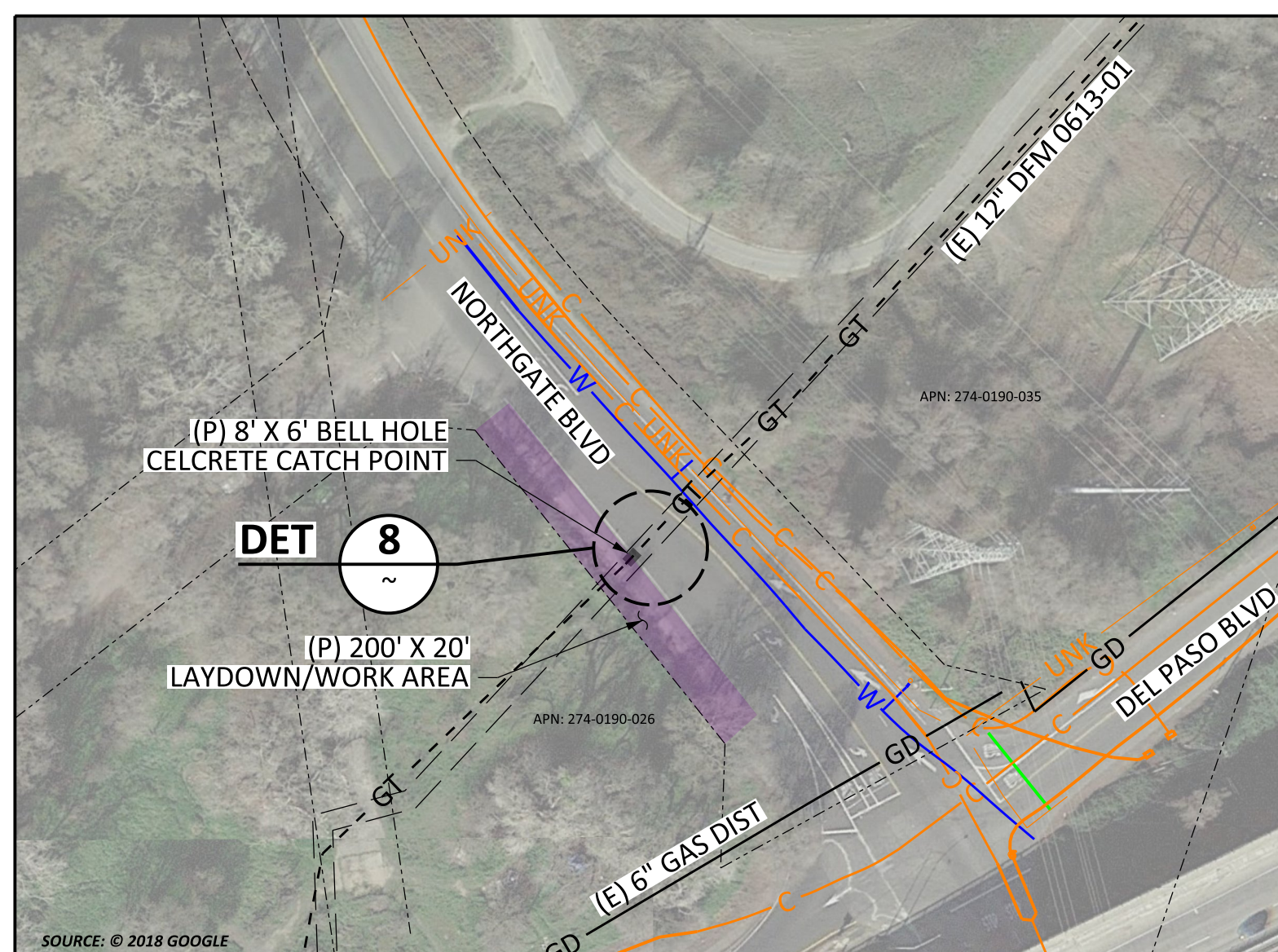
REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KIT6	MDGR		

PIPELINE - DETAILS
DFM 0613-01 MP 2.94 - 5.29
RETIRE APPROX 12,250' OF 12" PIPE
SACRAMENTO, SACRAMENTO COUNTY
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

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GAS TRANSMISSION ESTIMATING & DESIGN
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PACIFIC GAS AND ELECTRIC COMPANY
BILL OF MATL SHEET 15
JOB ID **R-582**
SHEET NO. 9 OF 15 SHEETS
74004048 0

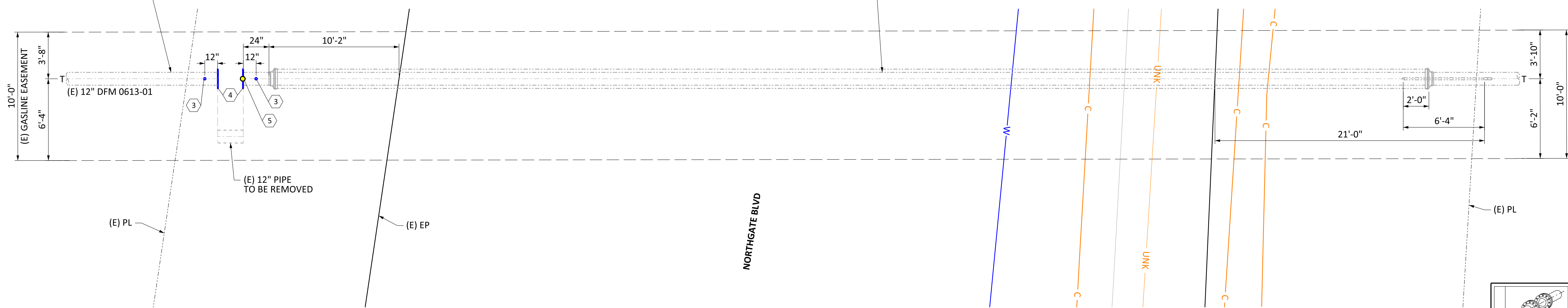
LOCATION F

NORTHGATE BLVD
WALL MAP - 2525; PLAT - F6; DFM 0613-01, MP 3.68
(SCALE: 1" = 80')



(E) 12.750" OD, 0.203" WT,
AO SMITH, FLASH WELD, 0.8 JF*
JN: 70194
TO BE RETIRED-IN-PLACE

(E) 12.750" OD, 0.203" WT,
AO SMITH, FLASH WELD, 0.8 JF*
IN 18" CASING
JN: 70194
TO BE RETIRED-IN-PLACE
AND FILLED WITH CELCRETE



*ASSUMED SPECS PER TD-4125P-09

HEADER PIPE SPECS (PRE-1972)	
HEADER SIZE: 12.750" WALL THICKNESS: 0.203"	
PIPE SPECS: AO SMITH, FW, 35,000 SMYS	
PRESENT MAOP: 260 PSIG	
% SMYS @ MAOP: 34.02%	
INSTALL JN: 70194	YEAR: 1943
HISTORICAL RESULTS, CONTAINS ASBESTOS?	
YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> UNKNOWN
PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED	
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)	
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	
A) (260 PSIG)	WHEN WELDING ON BODY OF THE PIPE. UNLESS,
B) (152 PSIG)	WHEN WELDING WITHIN 3".
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	

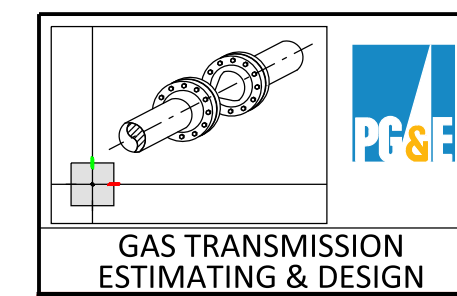
DETAIL 8 SECTIONALIZE DFM 0613-01 AT RAILROAD DR
SCALE: 1/4" = 1'-0"

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KJT6	MDGR		

PIPELINE - DETAILS
DFM 0613-01 MP 2.94 - 5.29
RETIRE APPROX 12,250' OF 12" PIPE
SACRAMENTO, SACRAMENTO COUNTY
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

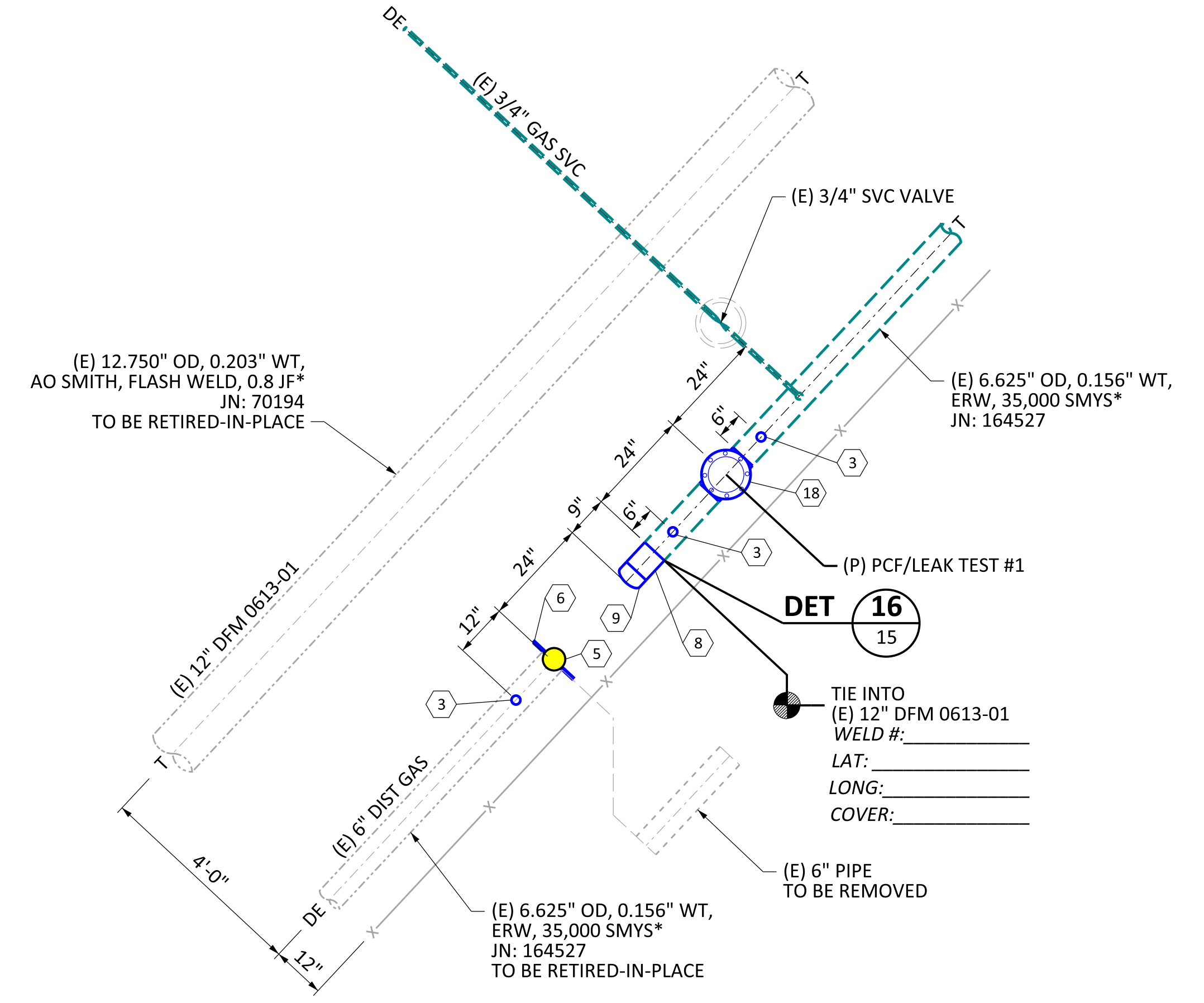
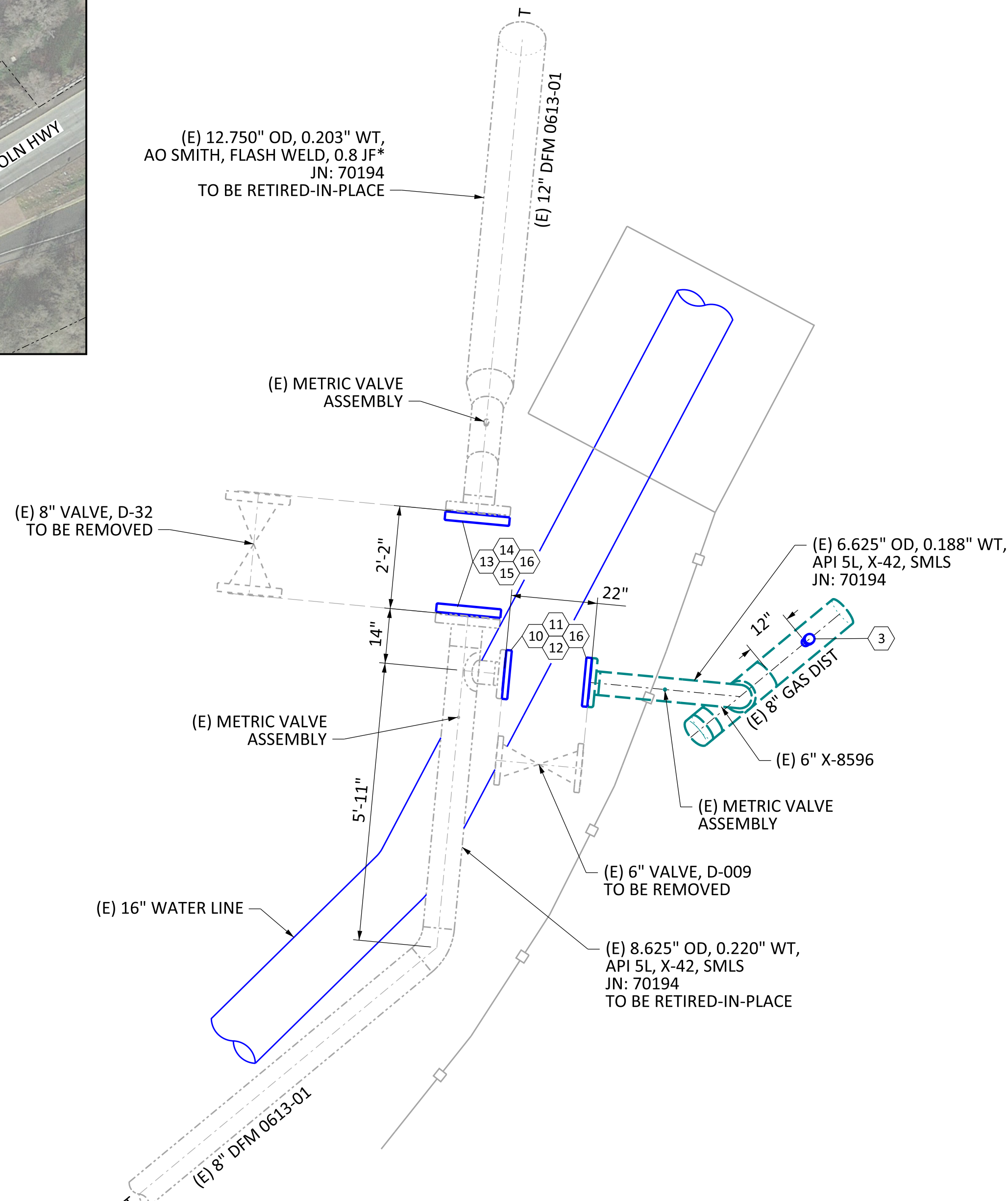
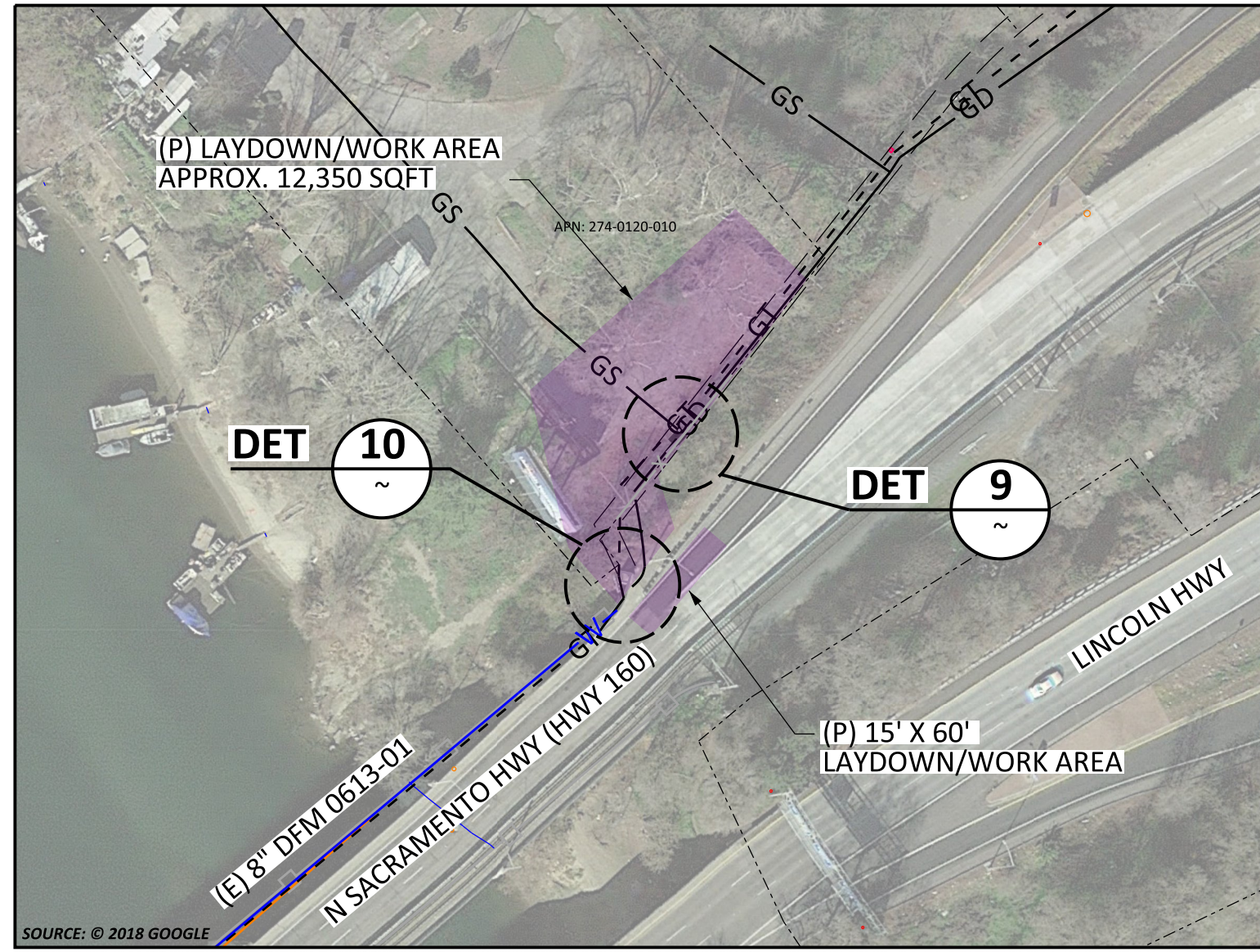


90% DESIGN REVIEW
PACIFIC GAS AND ELECTRIC COMPANY

BILL OF MATL SHEET 15
JOB ID: **R-582**
SHEET NO. 10 OF 15 SHEETS
74004048 0

LOCATION G

N/E SIDE OF AMERICAN RIVER
WALL MAP - 2525; PLAT - F6; DFM 0613-01, MP 3.52
(SCALE: 1" = 80')



DETAIL 10 REMOVE MLV D-32 & MAOP SEPARATION VALVE D-009, AT EAST SIDE OF AMERICAN RIVER
SCALE: 1/4" = 1'-0"

DETAIL 9 CUT & CAP DIST GAS MOBILE HOME PARK
SCALE: 1/4" = 1'-0"

***ASSUMED SPECS PER TD-4125P-09**

HEADER PIPE SPECS (PRE-1972)	HEADER PIPE SPECS (PRE-1972)
HEADER SIZE: 8.625" WALL THICKNESS: 0.220"	HEADER SIZE: 6.625" WALL THICKNESS: 0.156"
PIPE SPECS: API 5L, X-42, SMLS	PIPE SPECS: ERW, 35,000 SMYS
PRESENT MAOP: 260 PSIG	PRESENT MAOP: 260 PSIG
% SMYS @ MAOP: 12.13%	% SMYS @ MAOP: 15.77%
INSTALL JN: 70194 YEAR: 1942	INSTALL JN: 164527 YEAR: 1966
HISTORICAL RESULTS, CONTAINS ASBESTOS?	HISTORICAL RESULTS, CONTAINS ASBESTOS?
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN
PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED	PRE-1972 AND UNKNOWN: SAMPLE IS REQUIRED
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)	MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.
A) (260 PSIG) WHEN WELDING ON BODY OF THE PIPE, UNLESS:	A) (260 PSIG) WHEN WELDING ON BODY OF THE PIPE, UNLESS:
B) (260 PSIG) WHEN WELDING WITHIN 3":	B) (260 PSIG) WHEN WELDING WITHIN 3":
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.

*** PCF LEAK TEST # 1 ***

ACTUAL TEST PRESSURE:	PSIG
DURATION OF TEST:	
DATE OF TEST:	
PIGGABLE INSERT OR COUPON INSTALLED	<input type="checkbox"/> YES <input type="checkbox"/> NO
ALIGNMENT X-RAY #:	

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KJTG	MDGR		

PIPELINE - DETAILS
DFM 0613-01 MP 2.94 - 5.29
RETIRE APPROX 12,250' OF 12" PIPE
SACRAMENTO, SACRAMENTO COUNTY
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

GAS TRANSMISSION ESTIMATING & DESIGN

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BILL OF MATL SHEET 15

JOB ID **R-582**

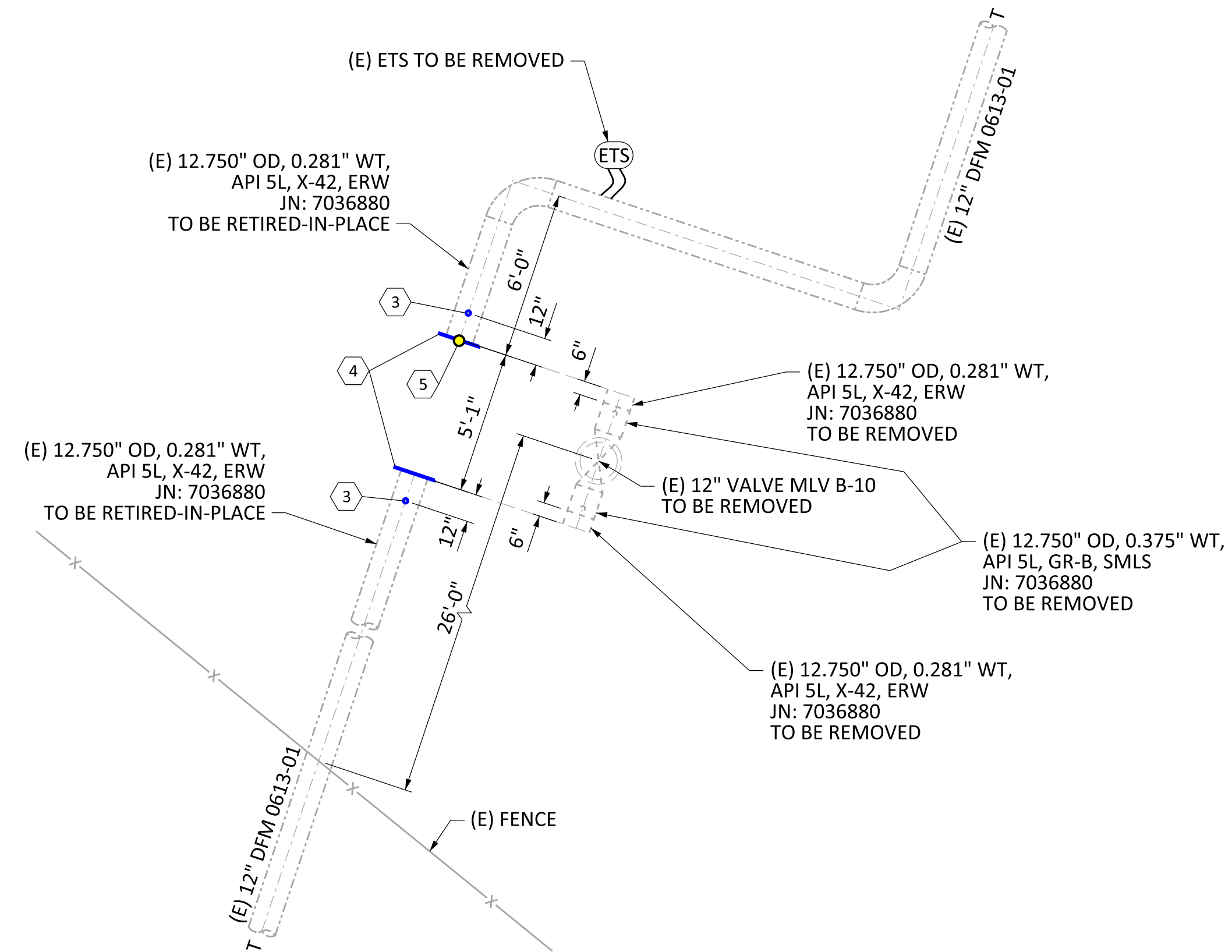
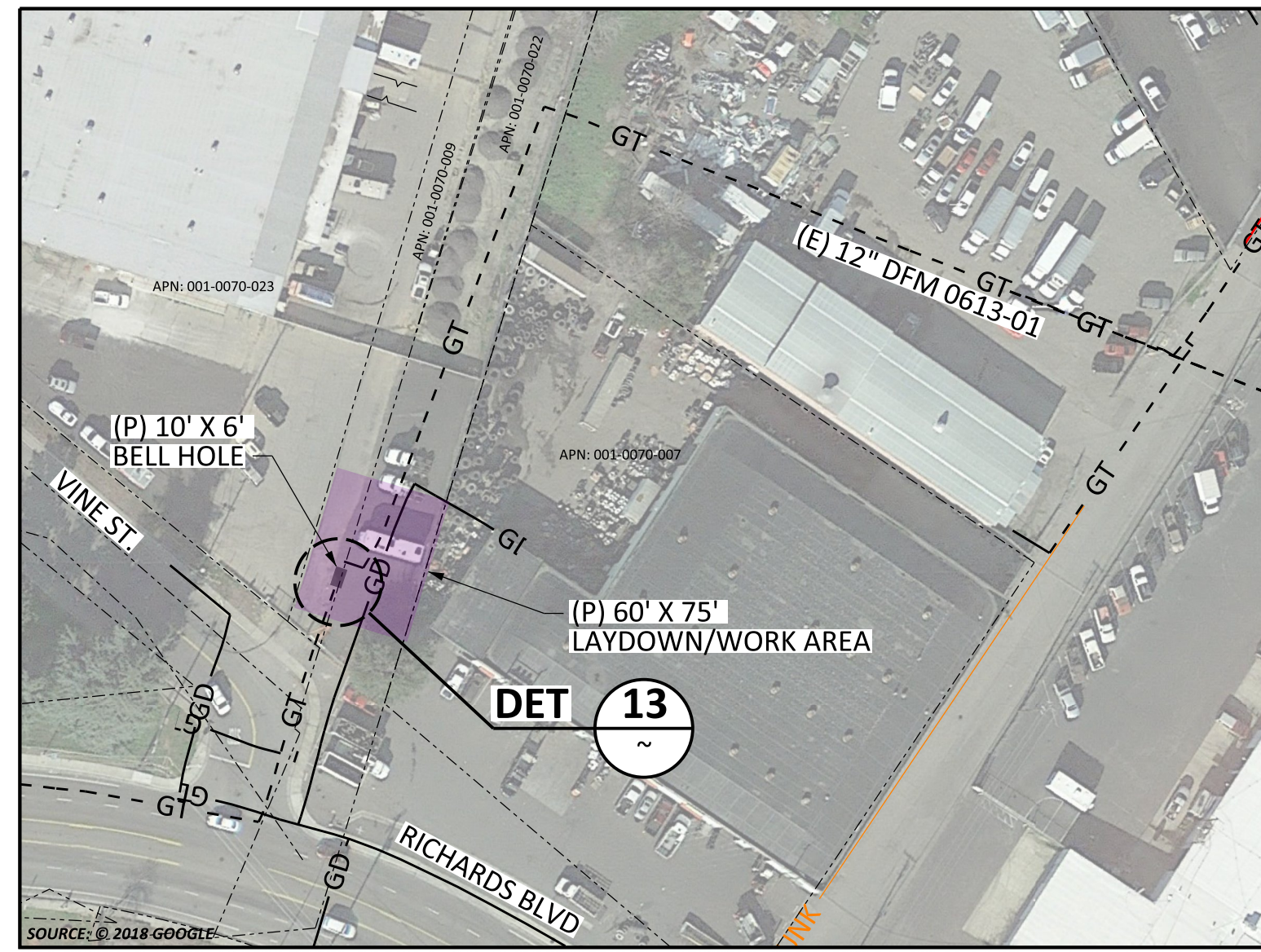
SHEET NO. 11 OF 15 SHEETS

74004048 0

Estimating.pgn

LOCATION I

3401 AMERICAN RIVER DR
 WALL MAP - 2525; PLAT - F6; DFM 0613-01, MP 3.19
 (SCALE: 1" = 80')



DETAIL 13 REMOVE MLV B-10
 SCALE: 1/4" = 1'-0"
 3401 AMERICAN RIVER DR

HEADER PIPE SPECS	
HEADER SIZE:	12.750" WALL THICKNESS: 0.281"
PIPE SPECS:	API 5L, X-42, ERW
PRESENT MAOP:	260 PSIG
% SMYS @ MAOP:	14.04%
INSTALL JN:	7036880 YEAR: 2001
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)	
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.	
A) (260 PSIG)	WHEN WELDING ON BODY OF THE PIPE, UNLESS:
B) (260 PSIG)	WHEN WELDING WITHIN 3":
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.	

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KJT6	MDGR		

PIPELINE - DETAILS
 DFM 0613-01 MP 2.94 - 5.29
 RETIRE APPROX 12,250' OF 12" PIPE
 SACRAMENTO, SACRAMENTO COUNTY
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

GAS TRANSMISSION ESTIMATING & DESIGN

90% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

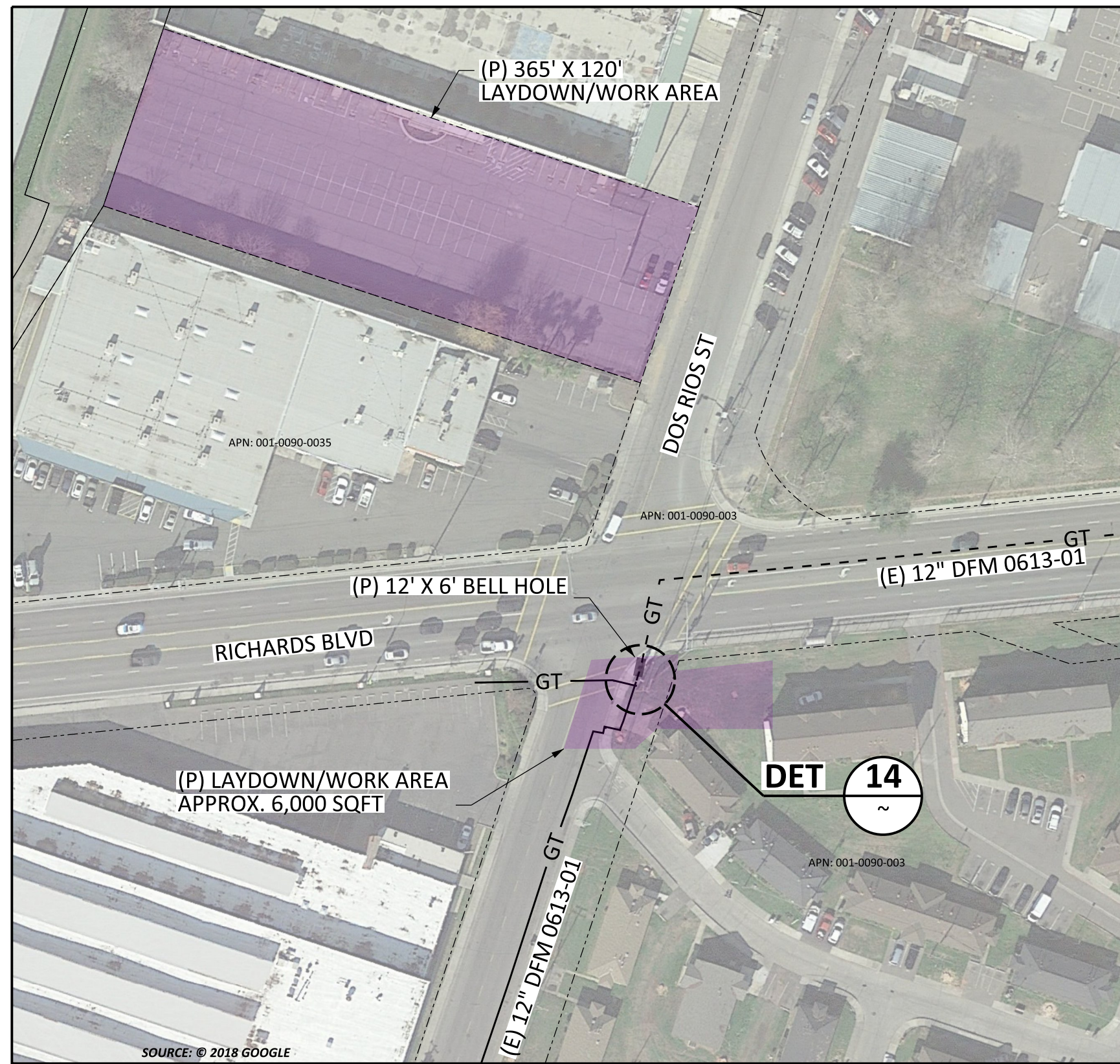
BILL OF MATL SHEET 15

JOB ID **R-582**

SHEET NO. 13 OF 15 SHEETS

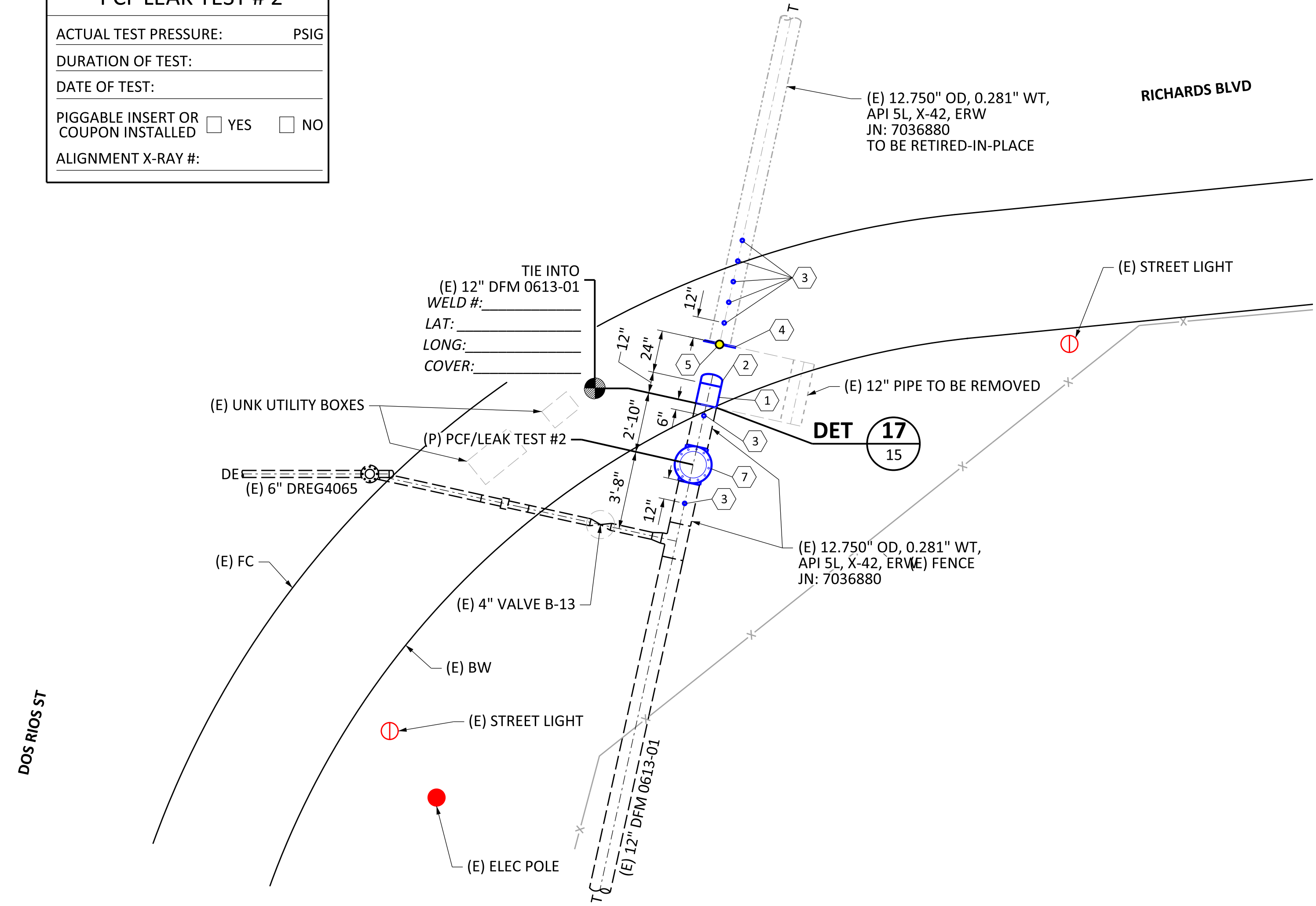
74004048 0

LOCATION J
 RICHARDS BLVD & DOS RIOS ST
 WALL MAP - 2525; PLAT - F6; DFM 0613-01, MP 2.94
 (SCALE: 1" = 80')



*** PCF LEAK TEST # 2***

ACTUAL TEST PRESSURE:	PSIG
DURATION OF TEST:	
DATE OF TEST:	
PIGGABLE INSERT OR COUPON INSTALLED	<input type="checkbox"/> YES <input type="checkbox"/> NO
ALIGNMENT X-RAY #:	



DETAIL 14 CUT & CAP DFM 0613-01
 RICHARDS BLVD & DOS RIOS ST
 SCALE: 1/4" = 1'-0"

HEADER PIPE SPECS

HEADER SIZE: 12.750" WALL THICKNESS: 0.281"
PIPE SPECS: API 5L, X-42, ERW
PRESENT MAOP: 260 PSIG
% SMYS @ MAOP: 14.04%
INSTALL JN: 7036880 YEAR: 2001
MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)
EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING.
A) (260 PSIG) WHEN WELDING ON BODY OF THE PIPE, UNLESS:
B) (260 PSIG) WHEN WELDING WITHIN 3":
OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL, AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.

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REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG APVD
0	12-19-18	ISSUED FOR CONSTRUCTION	74004048	KJT6	MDGR		

PIPELINE - DETAILS
 DFM 0613-01 MP 2.94 - 5.29
 RETIRE APPROX 12,250' OF 12" PIPE
 SACRAMENTO, SACRAMENTO COUNTY
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

GAS TRANSMISSION ESTIMATING & DESIGN

90% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

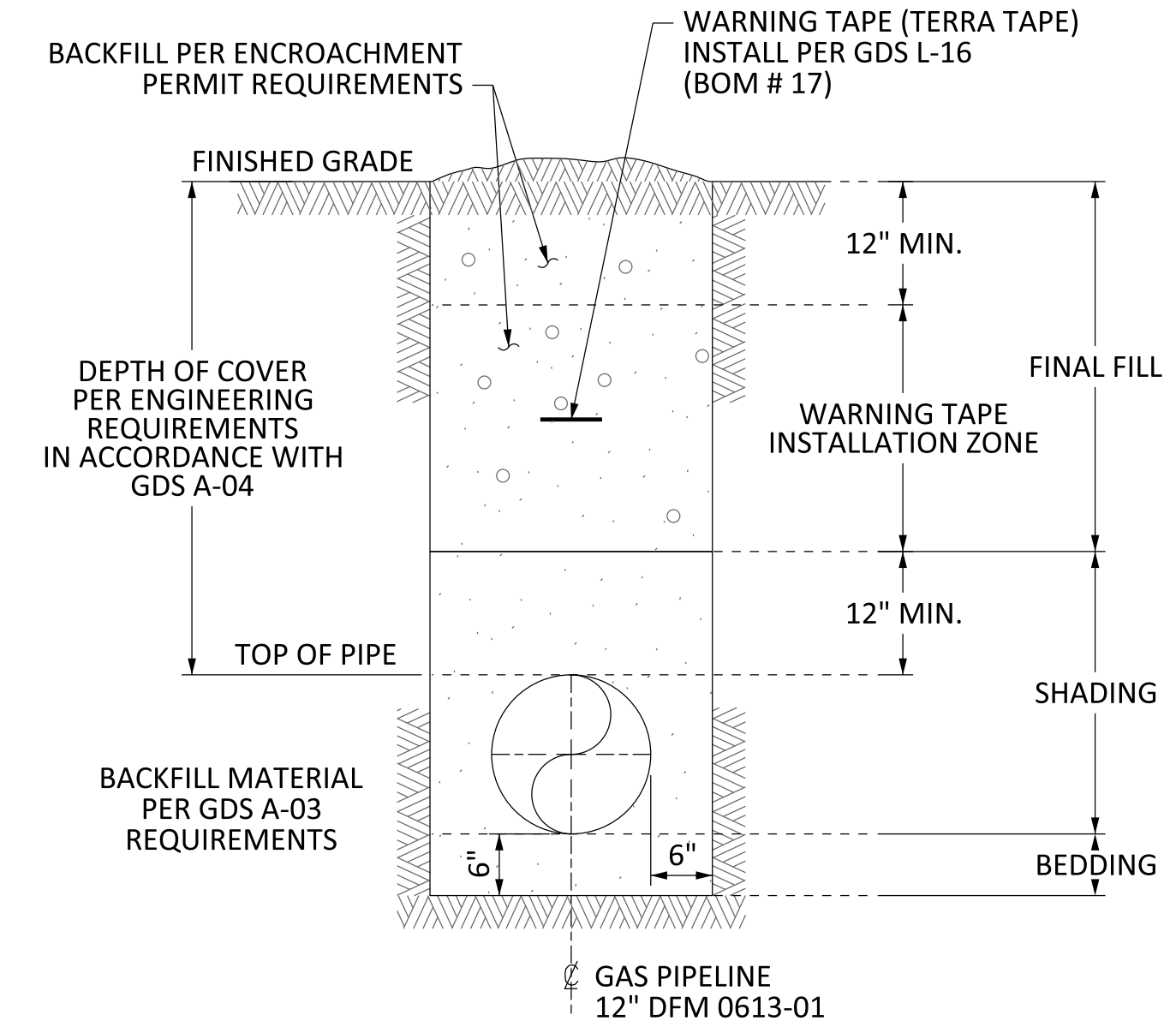
BILL OF MATL SHEET 15

JOB ID **R-582**

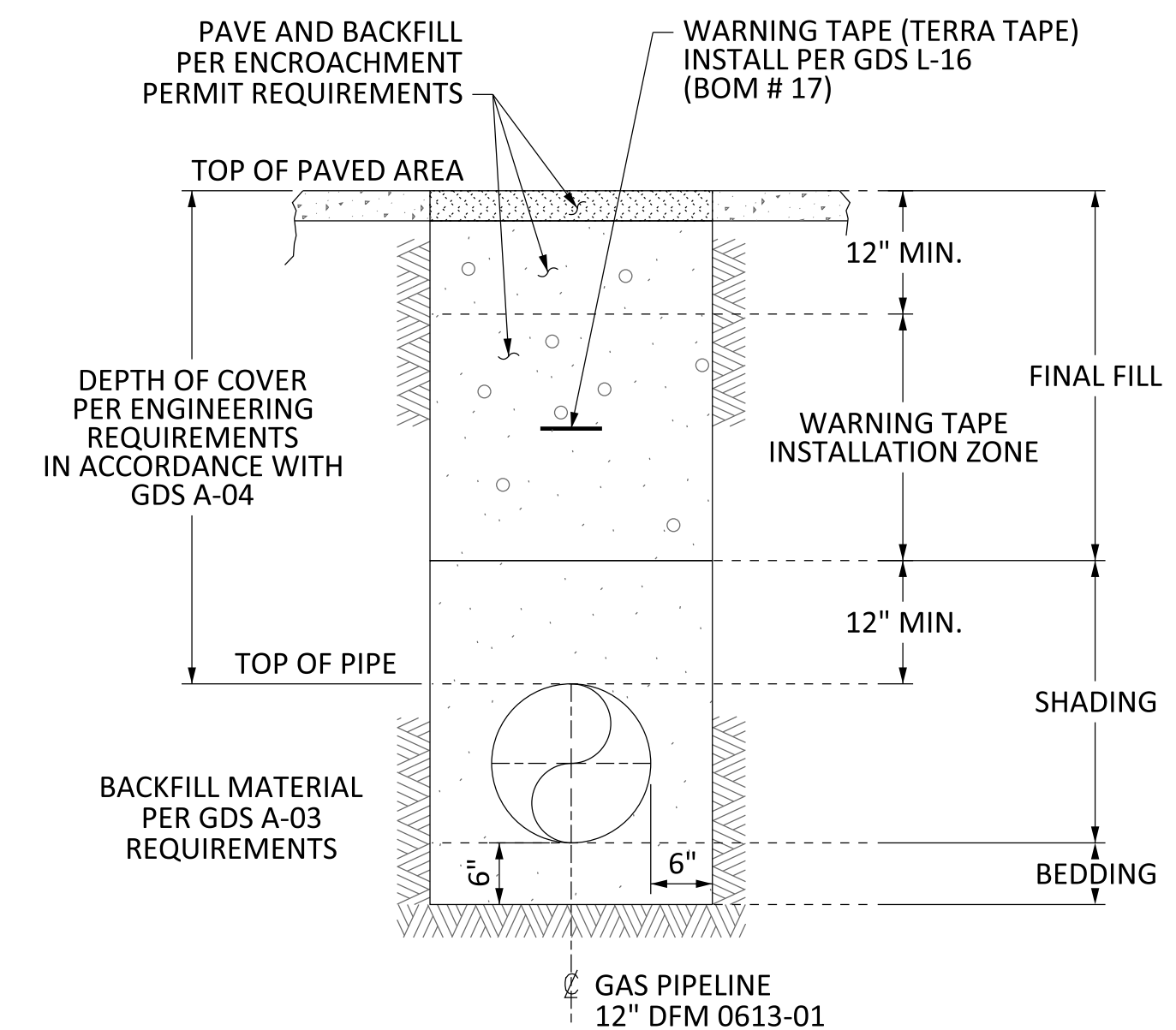
SHEET NO. 14 OF 15 SHEETS

74004048 0

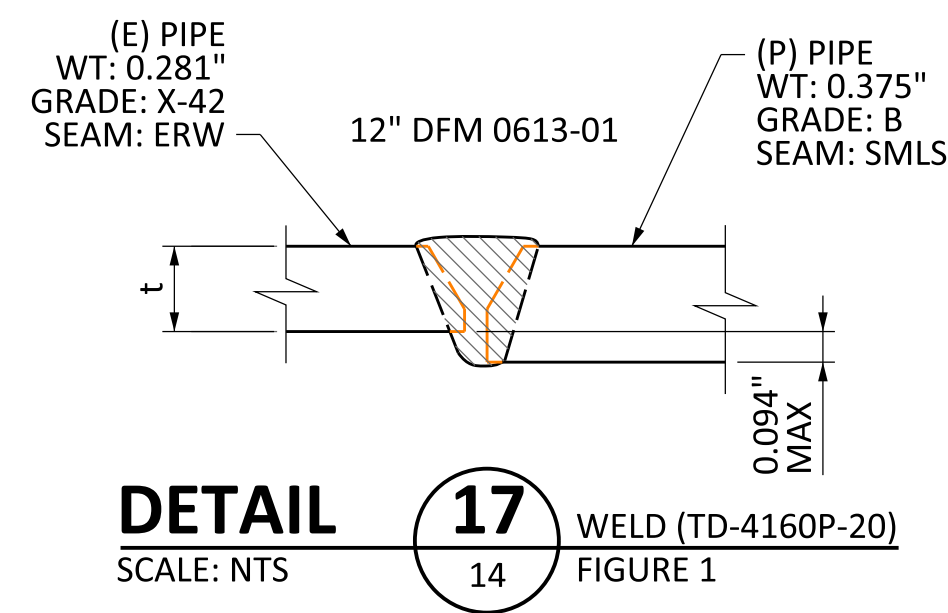
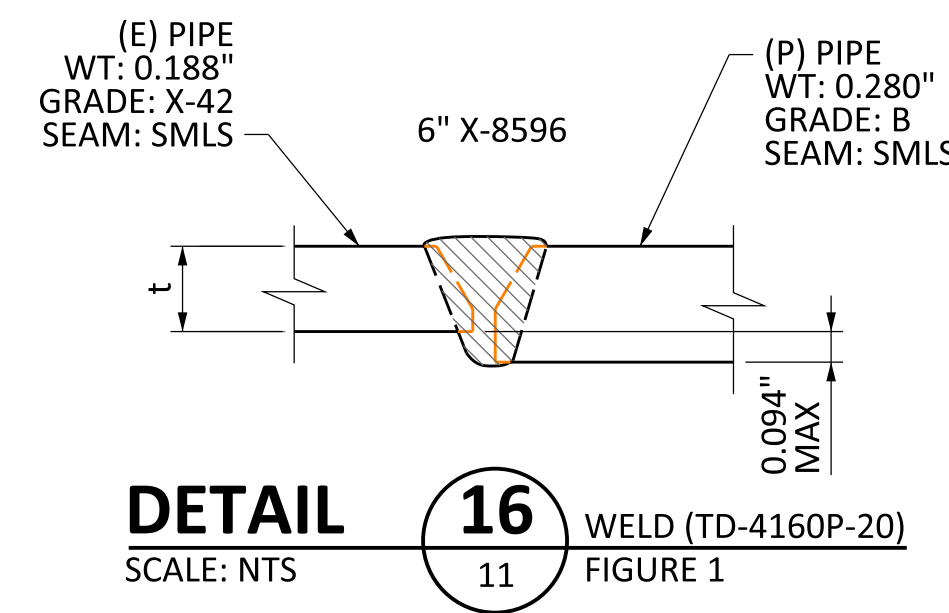
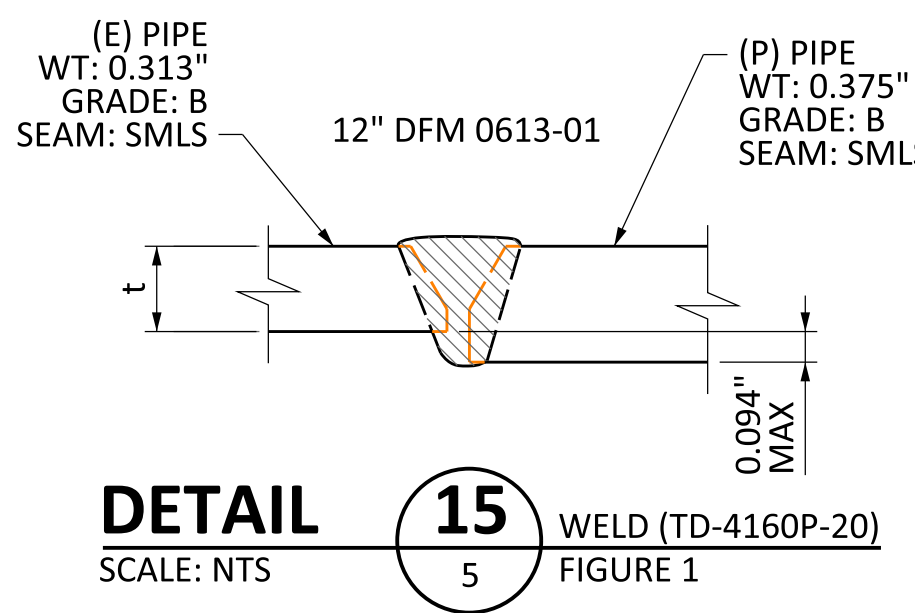
BILL OF MATERIALS (CAPITAL ORDER # 74004048)						
BOM #	MATERIAL DESCRIPTION	MATERIAL CODE #	UNIT	QTY	STANDARD	NOTES
1	PIPE, STEEL, 12", 0.375" WT, API 5L, GRADE B, SEAMLESS, BARE	M011948	FT	5	GS&S A-15	
2	CAP, CARBON STEEL, 12", BUTT WELD, 0.375" WT, ASTM A-234, GRADE B	M022081	EA	2	GS&S B-20	
3	NIPPLE, SAVE-A-VALVE, 2", WELD, STEEL, MUELLER # H-17491, STEEL CAP, DRILLING 1200 PSI MAXIMUM, 1440 PSI MAXIMUM	M022289	EA	30	GS&S C-14	
4	STEEL PLATE, 18" X 1/2" THICK	N/A	EA	20	-	
5	MARKER, EXTENDED RANGE BALL, EMS TYPE, YELLOW, 3M # 1405-XR, FOR MARKING BURIED GAS FACILITIES, MAXIMUM INSTALLED DEPTH IS 5'	M374944	EA	14	GS&S M-60	
6	STEEL PLATE, 18" X 1/2" THICK	N/A	EA	3	-	
7	STOPPER, LINE, 12", WELD, MUELLER # H-17257, FORGED STEEL, 960 PSI, STEEL CAP	M022844	EA	1	GS&S C-15.3	
8	PIPE, STEEL, 6", 0.280" WT, API 5L, GRADE B, SEAMLESS, BARE	M011688	FT	1	GS&S A-15	
9	CAP, CARBON STEEL, 6", BUTT WELD, 0.280" WT, ASTM A-234, GRADE B	M022038	EA	2	GS&S B-20	
10	FLANGE, BLIND, 6", ANSI CLASS 300, FORGED STEEL, 1/16" RAISED FACE, TAP FOR 1/2" NPT	M020865	EA	2	GS&S B-43.2	
11	GASKET, PYROX, ANSI CLASS 300, 6", PSI LINEBACKER, TYPE F, NITRILE SEALING ELEMENT, RING GASKET	M016689	EA	2	GS&S B-45.1	
12	BOLT, STUD, 3/4" X 5", WITH 2 NUTS, STEEL, ALL THREAD, ASTM A193-B7 HEX NUTS, A194-2H, ASSEMBLED	M192742	EA	24	GS&S B-46	
13	FLANGE, BLIND, 8", ANSI CLASS 600, FORGED STEEL, 1/4" RAISED FACE, TAP FOR 1/2" NPT	M020895	EA	2	GS&S B-43.2	
14	GASKET, PYROX, ANSI CLASS 600, 8", PSI LINEBACKER, TYPE F, NITRILE SEALING ELEMENT, RING GASKET	M016672	EA	2	GS&S B-45.1	
15	BOLT, STUD, STEEL, ALL THREAD, 1-1/8" X 7-3/4", WITH 2 NUTS, ASTM A193-B7 HEX NUTS, A194-2H, ASSEMBLED	M192749	EA	24	GS&S B-46	
16	PLUG, 1/2", HEX HEAD, VOGT # 2580 OR EQUAL, THREADED, FORGED STEEL, 6000 PSI	M021249	EA	4	GS&S B-10.1	
17	TAPE, WARNING, PIPELINE, GAS UNDERGROUND, REEF INDUSTRIES # 42-0084, YELLOW WITH BLACK WRITING, "CAUTION GAS LINE BURIED BELOW", 8 MILS THICK, 6" WIDE X 1000' LONG	M379947	EA	1	GS&S L-16	
18	STOPPER, LINE, 6", WELD, MUELLER # H-17275, FORGED STEEL, 275 PSI, THIN WALL, CAST IRON CAP	M022850	EA	1	GS&S C-15.4	



SEE TD-4621M FOR SHORING REQUIREMENTS
DETAIL TYP TRENCH NON-PAVED AREA
 SCALE: NTS



SEE TD-4621M FOR SHORING REQUIREMENTS
DETAIL TYP TRENCH PAVED AREA
 SCALE: NTS

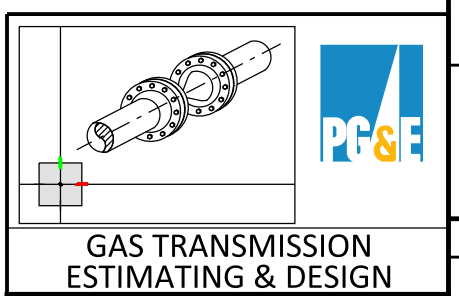


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90% DESIGN REVIEW
 PACIFIC GAS AND ELECTRIC COMPANY

BILL OF MATL SHEET 15
 JOB ID **R-582**
 SHEET NO. 15 OF 15 SHEETS
74004048 0

Photo 1. American River and SR-160 with existing pipeline, looking north from south USACE levee



Photo 2. South USACE levee, north of HDD Cell-Crete catch point



Figure 4. Project Site Photographs

Photo 3. View of northern USACE levee looking southwest to floodgates and SR-160 bridge



Photo 4. South USACE levee looking southwest at proposed work area at SR-160 bridge



Appendix B Biological Memo



Biological Constraints Review for Pipeline Replacement Projects

Project Name: DFM 1613-01 American River Crossing Retirement Project	Date of Preparation: January 8, 2019
Project Location: Sacramento, Sacramento County, CA	Order Number: 31133771
Latitude/Longitude: 38.597683, -121.476419	PG&E Project Planner/Biologist: Chris Ellis / Rick Williams
Name of Preparer(s): Preparer: Andrew Sorci and Sara Viernum Stantec Biologists; Reviewers: Loni Cooper, Stantec Senior Biologist; Ryan Jolley, Senior Environmental Planner; Michelle Tovar, Stantec Principal Biologist	
Surveys/Monitoring Recommended	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Contingent upon AMMs and scope	
Summary/List of Biological Constraints	
<ul style="list-style-type: none"> • This Biological Constraints Review (BCR) addresses the project area in Sacramento, Sacramento County, CA. • There is a National Wetlands Inventory (NWI) mapped riverine feature between the two laydown areas at Location B, a freshwater forested/scrub wetland west of Location D, a freshwater forested/scrub wetland south of Location E, a freshwater forested/scrub wetland south of Location G, and a freshwater forested/scrub wetland northeast of Location H. The American River crosses near the project work areas. These wetlands and waterways are not within the project footprint and will be avoided by construction activities. • Critical habitat for Valley elderberry longhorn beetle (VELB) is located 0.1 mile southeast of the Location E; for Delta smelt is located 1.3 miles southwest of Location J in the Sacramento River; for steelhead is located 0.1 mile east of Location E in an American River tributary, 0.3 mile north of Location H in the American River, and 1.3 miles southwest of Location J in the Sacramento River; and for chinook salmon is 0.3 mile north of Location H in the American River, and 1.3 miles southwest of Location J in the Sacramento River. • Trees, shrubs, and herbaceous cover in the survey area provide potential habitat for nesting birds, including Swainson's hawks which are known to nest in the area. 	
Project Description	
<p>Pacific Gas & Electric Company (PG&E) is planning to retire a segment of pipeline crossing the American River and American River Parkway. The existing pipeline crosses the American River attached to the State Route (SR)-160 bridge and will primarily be abandoned in place and filled with slurry. The proposed retirement will include ten work areas (Locations A-J; see Figure 1). Location A will consist of two laydown areas that are approximately 12,950 sq ft and 56,000 sq ft, and an 8-ft by 6-ft excavation. Location B will consist of two laydown areas that are approximately 1,500 sq ft each and two 8-ft by 6-ft excavations. Location C will have a 14,215 sq ft laydown and a 12-ft by 8-ft excavation. Location D will have three laydown areas that are approximately 10,600 sq ft, 2,625 sq ft, and 3,500 sq ft, and two 8-ft by 6-ft excavations. Location E will have three laydown areas that are approximately 33,000 sq ft, 9,000 sq ft, and 2,612 sq ft, and an 8-ft by 6-ft and an 8-ft by 8-ft excavation. Location F will have a 4,000 sq ft laydown area and an 8-ft by 6-ft excavation. Location G will have two laydown areas that are approximately 12,350 sq ft and 900 sq ft. Location H will have two laydown areas that are approximately 14,000 sq ft and 3,000 sq ft, and an 8-ft by 6-ft excavation. Location I will have a 4,500 sq ft laydown area and a 10-ft by 6-ft excavation. Location J will have a 6,000 sq ft laydown area and a 12-ft by 6-ft excavation. No work will occur in the American River channel or adjacent riparian vegetation.</p>	
Project Schedule	
Construction is scheduled to begin August 2019 and last for approximately three-months.	
Access	
The project site will be accessed on existing paved and unpaved routes extending throughout the project area.	



Project Name: DFM 1613-01 American River Crossing Retirement Project			Date of Preparation: January 8, 2019				
Project Location: Sacramento, Sacramento County, CA			Order Number: 31133771				
Designed to Raptor Concentration Zone/Avian Protection Specifications							
<input type="checkbox"/> Yes		<input type="checkbox"/> No		<input checked="" type="checkbox"/> N/A			
Land Use & Ownership							
<input checked="" type="checkbox"/> Agricultural		<input checked="" type="checkbox"/> Undeveloped		<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Residential	<input checked="" type="checkbox"/> Public Land
Notes:							
Habitat Types							
<input type="checkbox"/> Grassland <input type="checkbox"/> Annual <input type="checkbox"/> Perennial <input type="checkbox"/> Oak Woodland <input checked="" type="checkbox"/> Urban Environment		<input type="checkbox"/> Mixed Conifer/Redwood <input type="checkbox"/> Chaparral <input type="checkbox"/> Lacustrine		<input checked="" type="checkbox"/> Riparian <input checked="" type="checkbox"/> Freshwater Wetland <input type="checkbox"/> Brackish/Saltmarsh		<input checked="" type="checkbox"/> Agricultural <input checked="" type="checkbox"/> Ruderal or Landscaped <input checked="" type="checkbox"/> Other: (see notes)	
Notes: The project area south of the American River consists entirely of urban, developed landscape. The project area north of the American River consists of a mix of oak and walnut woodlands; open, ruderal grasslands; urban, developed areas; and some agricultural fields. There is a NWI-mapped riverine feature between the two laydown areas at Location B, a freshwater forested/scrub wetland west of Location D, a freshwater forested/scrub wetland south of Location E, a freshwater forested/scrub wetland south of Location G, and a freshwater forested/scrub wetland northeast of Location H. See Figure 1 for the project area and habitat types.							
Site Visit		<input checked="" type="checkbox"/> Yes, June 27, 2017 and January 7, 2019 <input type="checkbox"/> No					
Special Status Species¹			CNDDDB Records (3-mile radius)		Suitable Habitat		Not expected
Species Name	Scientific Name	Status	YES	NO	YES	NO	
woolly rose mallow	<i>Hibiscus lasiocarpus var. occidentalis</i>	CRPR 1B.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sanford's arrowhead	<i>Sagittaria sanfordii</i>	CRPR 1B.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	FT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
valley elderberry longhorn beetle	<i>Desmocerus californicus dimorphus</i>	FT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delta smelt	<i>Hypomesus transpacificus</i>	FT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
steelhead - Central Valley DPS	<i>Oncorhynchus mykiss irideus</i>	FT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sacramento splittail	<i>Pogonichthys macrolepidotus</i>	SSC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
longfin smelt	<i>Spirinchus thaleichthys</i>	FC/ST, SSC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
California tiger salamander	<i>Ambystoma californiense</i>	FT/ST	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
California red-legged frog	<i>Rana draytonii</i>	FT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
giant garter snake	<i>Thamnophis gigas</i>	FT/ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
tricolored blackbird	<i>Agelaius tricolor</i>	ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
burrowing owl	<i>Athene cunicularia</i>	SSC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Swainson's hawk	<i>Buteo swainsoni</i>	ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
western yellow-billed cuckoo	<i>Coccyzus americanus</i>	FT/SE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Project Name: DFM 1613-01 American River Crossing Retirement Project			Date of Preparation: January 8, 2019				
Project Location: Sacramento, Sacramento County, CA			Order Number: 31133771				
	<i>occidentalis</i>						
white-tailed kite	<i>Elanus leucurus</i>	FP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
song sparrow - Modesto population	<i>Melospiza molodia</i>	SSC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
bank swallow	<i>Riparia riparia</i>	ST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
purple martin	<i>Progne subis</i>	SSC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
least Bell's vireo	<i>Vireo bellii pusillus</i>	FE/SE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nesting birds			N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluation of Resources & Potential Impacts:

Based on a review of the California Natural Diversity Database (CNDDDB), two special-status plant species and eighteen special-status wildlife species have been recorded within 3 miles of the project area. However, based on a review of habitat requirements for each species and the habitats identified within the project area, as well as the dates of the recorded occurrences (least Bell's vireo and western yellow billed cuckoo from 1877, and song sparrow from 1900) two special-status plant species and four special-status wildlife species have the potential to occur within the project area. In addition, the project area contains nesting habitat for some tree, shrub and ground nesting birds, including raptors, protected under the Migratory Bird Treaty Act and other regulations.

The USFWS IPaC list includes Delta smelt, giant garter snake, California red-legged frog, California tiger salamander, and VELB; habitat exists for these species, and they are therefore discussed further in this BCR. Critical habitat for VELB is located 0.1 mile southeast of the Location E; for Delta smelt is located 1.3 miles southwest of Location J in the Sacramento River; for steelhead is located 0.1 mile east of Location E in an American River tributary, 0.3 mile north of Location H in the American River, and 1.3 miles southwest of Location J in the Sacramento River; and for chinook salmon is 0.3 mile north of Location H in the American River, and 1.3 miles southwest of Location J in the Sacramento River.

Below is an evaluation of special-status plant species that could occupy the project area:

- **Sanford's arrowhead** is a perennial rhizomatous herb (emergent) that blooms May through October. CNDDDB lists two records within 3 miles of the project, with the nearest one approximately 0.4 mile northeast of Location A. Marshes and swamps, and assorted shallow freshwater features, are the preferred habitats of this species. No wetland habitat is expected to be impacted by the project, therefore this species is not likely to be impacted by the project, should it occur in the adjacent wetland habitat.
- **Woolly rose mallow** is a perennial rhizomatous herb (emergent) that blooms June through September. CNDDDB lists one record approximately 2.9 miles northwest of Location J. This species is typically found in freshwater marsh and swamp habitat and is even known to occur in riprap on the sides of levees. No wetland habitat is expected to be impacted by the project, therefore this species is not likely to be impacted by the project, should it occur in the adjacent wetland habitat.

The potential for impacts to special-status plants would be avoided or minimized through implementation of applicable standard best management practices (BMPs) listed in Attachment 1. Trimming and removal of vegetation would be limited to the amount required to allow for reliable access to the project area. Staging areas will be located on undeveloped lands, but outside any area containing special-status plant species identified prior to construction.

Below is an evaluation of special-status wildlife that could occupy the project area:

- **California red-legged frog:** There are no CNDDDB records for this species within 3 miles of the project, nor has it been recorded within the USGS quadrangle on which the project is located, or eight surrounding quads; however, an IPaC search identified this species as having potential to occur in the project area. The California red-legged frog occurs in quiet pools of streams, marshes and ponds, typically with extensive vegetation. While potential suitable habitat is present in and around the wetlands near the project area, the project is surrounded by urban development and is located outside of the

Project Name: DFM 1613-01 American River Crossing Retirement Project	Date of Preparation: January 8, 2019
Project Location: Sacramento, Sacramento County, CA	Order Number: 31133771
<p>known range for this species; therefore, California red-legged frog is not expected to occur.</p> <ul style="list-style-type: none"> • California tiger salamander: There are no CNDDDB records for this species within 3 miles of the project, nor has it been recorded within the USGS quadrangle on which the project is located, or eight surrounding quads; however, an IPaC search identified this species as having potential to occur in the project area, as it is within the known range of the species. California tiger salamander relies on grassland and low foothill habitats, with pools and ponds necessary for breeding. Marginal habitat is present within and around the wetlands near the project area, including associated upland habitat with suitable small mammal burrows; however, given that the project area is surrounded by urban development, restricting movement to the project area, and there are no recorded occurrences within three miles, this species is not expected to occur. • Giant garter snake: There is one CNDDDB record approximately 2.4 miles northwest of Location A. An IPaC search identified this species as having potential to occur in the project area, as it is within its known range. This species is considered to be highly aquatic, requiring slow moving or static water during its active period (April 1 – October 1). Giant garter snakes typically inhabit agricultural wetlands, sloughs and drainage canals, ponds, and small lakes all with vegetation around the margins of the feature for cover. The only perennial water source within the project area is the American River, which does not serve as suitable habitat for this species, and the riparian and oak woodlands north of the project area do not allow for basking sites. Due to the lack of suitable habitat, the urban development surrounding the project site, and the distance of historic CNDDDB occurrences from the site, this species is not expected to occur. • Valley elderberry longhorn beetle: There are fourteen CNDDDB records within 3 miles of the project for VELB. Critical habitat for this species occurs 0.1 mile to the southeast of Location E. This species is almost always found on or near its host plant, the red or blue elderberry shrub. Elderberry shrubs are commonly found in the remaining riparian forests and adjacent uplands of California's Central Valley. VELB require elderberry stems that are at least 1-in diameter (measured at the base) to lay their eggs upon. Larvae excavate passages into the elderberry shrub, where they may remain in larval form for as long as 2 years before they emerge as adults. During the 2017 site visit, 5 large elderberry shrubs (diameter greater than 1-inch) were observed near the project area and During the 2019, 3 large elderberry shrubs were observed. Given the proximity to CNDDDB records and critical habitat, and the presence of suitable habitat, VELB may occur within the project area. impacts to this species would be minimized with the implementation of AMM-2 requiring compliance with PG&E's VELB Conservation Program. • Swainson's hawk: There are twenty CNDDDB occurrences within 3 miles of the project, most of which are known nest sites. Swainson's hawks typically breed in stands with few trees in riparian areas, juniper sage flats, and oak savannah in the Central Valley; and typically forage in adjacent grasslands, suitable agricultural fields, and pastures. As evidenced by known nesting behavior in the surrounding area, the project area is assumed to have suitable nesting and foraging habitat for Swainson's hawks. Impacts to this species would be minimized with the implementation of AMM-3, requiring pre-activity surveys for Swainson's hawks during the breeding season, and compliance with the PG&E Avian Conservation Strategy. • Western yellow-billed cuckoo: There is one CNDDDB occurrence within 3 miles of the project, from 1877. This species uses wooded habitats with dense cover and water nearby. This could include woodlands with low, scrubby vegetation, overgrown orchards, abandoned farmland, and dense thickets along streams and marshes. Their nests are flat, oblong platform nests made of loose sticks and twigs and lined with strips of bark or dried leaves. Nests are placed on horizontal branches or in the forks of trees from 3-90 ft above the ground. The project area is adjacent to riparian vegetation along the Americano River corridor; however, due to development this habitat is fragmented and is considered to be marginal. Due to the lack of any recent CNDDDB records, the declining range for this species, and the fragmented riparian habitat along this stretch of the American River, this species is not expected to occur. • White-tailed kite: There are three CNDDDB records for nest sites within 3 miles of the project area, with the most recent record from 2009. This species is a yearlong resident in the valley lowlands, and inhabits herbaceous, open habitats with variable tree growth. White-tailed kites forage in open grasslands, meadows, farmlands, and emergent wetlands, and 	



Project Name: DFM 1613-01 American River Crossing Retirement Project	Date of Preparation: January 8, 2019
-----------------------------------------------------------------------------	---------------------------------------------

Project Location: Sacramento, Sacramento County, CA	Order Number: 31133771
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typically prey mostly on voles and other small, diurnal mammals. There is suitable nesting and foraging habitat in and around the project area. Impacts to this species would be minimized with the implementation of BMP-12, requiring compliance with the PG&E Avian Conservation Strategy.

- **Purple martin:** There are seven CNDDDB records for purple martin nesting sites within 3 miles of the project site. All of these locations are associated with freeway and street overpasses. Purple martin is a cavity nester and can be found nesting in birdhouses, dead trees, cactuses, buildings, cliffs, and even traffic lights and street lamps. Suitable nesting habitat for purple martins is present under the Hwy-160 bridge and overpass. Impacts to this species would be minimized with the implementation of BMP-12, requiring compliance with the PG&E Avian Conservation Strategy.
- **Nesting Migratory Birds and Raptors:** Grasslands, shrubs, trees in the vicinity of the project provide potential habitat for nesting birds. Pre-activity nesting bird surveys are recommended if work is implemented during the nesting season (February 1–August 31).

Below is an evaluation of special-status fish species that could occupy the American River, adjacent to the project area.

- **Delta smelt:** There are no CNDDDB records for this species within 3 miles of the project; however, an IPaC search identified this species as having a potential to occur in the project area. Critical habitat is designated for this species is located 1.3 miles southwest of Location J in the Sacramento River.
- **Longfin smelt:** There is one CNDDDB record for this species within 3 miles of the project, in the Sacramento River.
- **Steelhead:** There are three CNDDDB records within 3 miles of the project. Critical habitat is designated for this species is located 0.1 mile east of Location E in an American River tributary, 0.3 mile north of Location H in the American River, and 1.3 miles southwest of Location J in the Sacramento River.
- **Sacramento splittail:** There is a CNDDDB record within 3 miles of the project, in the Sacramento River.

As the project will not impact the American River or the Sacramento River these species are not expected to be impacted.

¹Special Status is defined as Federally Endangered, Threatened, or a Candidate (FE, FT, FC), State Endangered, Threatened, Candidate for Endangered, or Candidate for Threatened (SE, ST, SCE, SCT), Fully Protected (FP), CDFW Species of Special Concern (SSC), and California Rare Plant Rank (CRPR) List 1 or 2.

Are there any aquatic resources (seasonal or permanent) and/or riparian corridors within 250 feet?

Yes American River Corridor runs through the middle of the project area. Based on a review of the NWI, and the results of a site visit, there is a NWI-mapped riverine feature between the two laydown areas at Location B, a freshwater forested/scrub wetland west of Location D, a freshwater forested/scrub wetland south of Location E, a freshwater forested/scrub wetland south of Location G, and a freshwater forested/scrub wetland northeast of Location H.

No

If you answered yes to previous question, will the project directly impact any of the above aquatic resources?

Yes

No. This analysis assumes that no work will be required within waterways and wetland features in the project area.

Critical Habitat	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
-------------------------	---------------------------------------------------------------------

Critical habitat for VELB is located 0.1 mile southeast of the Location E; for Delta smelt is located 1.3 miles southwest of Location J in the Sacramento River; for steelhead is located 0.1 mile east of Location E in an American River tributary, 0.3 mile north of Location H in the American River, and 1.3 miles southwest of Location J in the Sacramento River; and for chinook salmon is 0.3 mile north of Location H in the American River, and 1.3 miles southwest of Location J in the Sacramento River.



Project Name: DFM 1613-01 American River Crossing Retirement Project	Date of Preparation: January 8, 2019
Project Location: Sacramento, Sacramento County, CA	Order Number: 31133771
Permits Anticipated to be Required	
<input checked="" type="checkbox"/> None <input type="checkbox"/> None, with AMM Implementation <input type="checkbox"/> BO <input type="checkbox"/> ITP <input type="checkbox"/> 404 <input type="checkbox"/> 401 <input type="checkbox"/> LSAA <input checked="" type="checkbox"/> Other:	
Notes: No excavation/fill or other alteration to the American River, waterways, or wetlands is planned to occur with the project, therefore, no LSAA, 404 or 401 permits are expected to be required. PG&E would cover Section 7 compliance for potential take of VELB through their VELB Conservation Program (refer to AMM-2 below). Work impacting Swainson's hawks would be avoided with implementation of AMM-3. An encroachment permit may be required from the Central Valley Flood Protection Board for work within the American River Parkway and USACE levees on either side (including south of the American River).	
Avoidance and Minimization Measures	
Best Management Practices (BMPs) and Avoidance and Minimization Measures (AMMs) are included in Attachment 1 and are recommended to avoid impacts to biological resources in the project area that occurs in Sacramento County.	



Attachment 1

Standard Best Management Practices (BMPs)

BMP 1 – Speed Limit: Vehicles should not exceed 15 mph when traveling in the right-of-way or along unpaved roads in natural areas.

BMP 2 – Vehicle Access and Parking: When accessing work sites, limit travel and parking of vehicles and equipment to pavement, existing roads, and existing stream crossings.

BMP 3 – Vehicle Use Near Waterways/Waterbodies (Seasonal and Perennial): No vehicles may be refueled within 100 feet of waterways/waterbodies and vehicles operating adjacent to these areas must be inspected and maintained daily to prevent leaks. When possible, work near waterways/waterbodies should be conducted during the dry season (generally May 15 - October 15) or during dry spells. No substantial vegetation trimming will occur within the bed, bank, or channel of waterways without the approval of the PG&E project biologist.

BMP 5 – Dust Abatement: Abate dust through use of water trucks, vehicle speeds limits, or other methods that prevent generating significant dust that may affect wildlife, plants, and humans.

BMP 6 – Invasive Plant Species: When working in areas adjacent to natural habitats, thoroughly wash all equipment and vehicles prior to entering work sites to prevent the spread of noxious weeds.

BMP 7 – Disposal of Vegetation (Chipped, Clippings, or Limbs): Removed vegetation should be disposed of in accordance with job specific disposal plan. Generally, chipped vegetation should be placed in previously disturbed areas (or non-sensitive vegetated areas) and large limbs or cuttings should be left onsite (if approved by land owner/manager) or removed and properly disposed of.

BMP 8 – Fire Prevention: During designated fire season motorized equipment must have federal and state approved spark arrestors and must be equipped with standard firefighting tools (fire extinguishers or other appropriate tools). Construction managers are responsible for checking the fire adjective index rating prior to work. During fire adjective index ratings of Very High or Extreme, no vehicle travel is permitted off cleared roads and no smoking is allowed in vegetated areas (grasslands, forests, etc.).

BMP 9 – Avoid Hazards Associated with Open Trenches: All holes or trenches left open overnight will be thoroughly covered (ensuring coverage of gaps under boards) to prevent animals (and people) from becoming entrapped. For those areas that cannot be covered, the areas must be fenced and contain escape ramps for wildlife.

BMP 10 – General Site Use Standards: Trash dumping, firearms, open fires (such as barbecues) not required by the operations and maintenance O&M activity, hunting, and pets (except for safety in remote locations) will be prohibited in O&M work activity sites. All food-related waste must be removed daily from work sites to prevent attracting wildlife.

BMP 11 – Vehicles Emissions/Noise: Vehicles idling, noise, and odor must be minimized to the extent practicable when working near residences or human populated areas. Diesel-fueled work



vehicles must not stand idling for more than five minutes at any location unless needed for work purposes.

BMP 12 – Nesting Birds: For work proposed to occur during the bird nesting season (February 1 - August 31), contact the PG&E project biologist to determine if a pre-activity nesting bird survey is needed. If during the course of work an active bird nest (defined as a nest with eggs or young) is detected, stop work and contact the PG&E project biologist. The biologist will ensure that work proceeds in compliance with PG&E's Avian Conservation Strategy and the Bird Nest Process specified in Work Procedure 2321-01.

BMP 13 – Protected Species: If a plant or animal is discovered at the work site which is thought to be a protected species, and which is in danger of harm from construction, stop work and call the supervisor and the PG&E project biologist.

BMP 14 – Environmental Spills: If an environmental protection incident occurs, such as accidental introduction of substances into waterways or wetlands, accidental taking of an endangered species, or hazardous material spills, etc., call the Environmental Field Specialist (EFS) or PG&E contact immediately. If the EFS or PG&E contact cannot be reached call the Environmental Hotline at 800-874-4043.

Species Specific Avoidance and Minimization Measures (AMMs)

AMM 1 – Special-Status Special Environmental Training and General Impacts Avoidances

- All construction personnel are to receive worker environmental awareness training. This training instructs workers to recognize the special-status species, their habitat(s), and nature and purpose of protection measures.
- Where possible, confine movement of equipment to existing roadways to minimize habitat disturbance.
- Confine clearing to the minimum area necessary to facilitate construction activities.
- Unattended and open trenches are to be properly fenced or covered to prevent wildlife entrapment. Soil escape ramps are to be used to facilitate the escape of any trapped wildlife.
- All construction personnel will visually check for wildlife under vehicles and equipment prior to moving them.
- Open ends of pipes, conduits, and similar materials will be covered to exclude wildlife.
- After completion of construction activities, remove any temporary fill and construction debris and, wherever feasible, restore disturbed areas to pre-project conditions.
 - Excavated soil and chipped vegetation will either be removed from the work site, backfilled into excavations, or distributed over the existing work site to pre-activity conditions in areas that do not contain specific habitat for the species.
 - Erosion control materials must be made of tightly woven natural fibers. Materials containing synthetic monofilament netting shall not be used. Acceptable materials include coconut coir matting or tackified hydroseeding compounds.



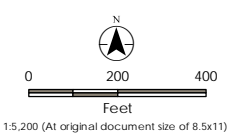
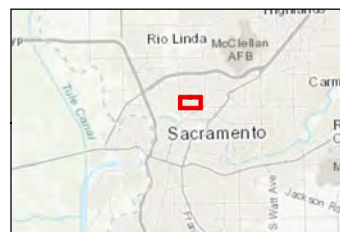
AMM 2 – VELB

PG&E's Valley Elderberry Longhorn Beetle (VELB) Conservation Program allows PG&E to perform routine operations and maintenance activities and new construction, subject to certain terms and conditions as specified in the USFWS Biological Opinion (BO) (File 1-1-01-F-0114). The VELB BO provides for 30 years of incidental take coverage and was issued on June 27, 2003. It defines reasonable and prudent measures required to avoid and minimize impacts on habitat for the federally listed VELB. PG&E will implement the surveying, avoidance, and any necessary compensation measures required for the Conservation Program as authorized by USFWS. These measures may include:

- (1) surveying for and flagging all elderberry plants with one or more stems measuring 1 inch or more in diameter at ground level that are within 20 feet of work sites;
- (2) avoiding all such elderberry plants to the extent feasible; and
- (3) reporting unavoidable impacts on elderberry shrubs to USFWS for coverage under the Conservation Program's funding of VELB habitat acquisition, development, and protection.

AMM 3 – Swainson's hawk

Potentially suitable Swainson's hawk nesting habitat is present within and adjacent to the project area. During the breeding period (February 15–August 31), surveys should be conducted to ensure no Swainson's hawk, or other raptors are nesting in proximity to the project area. If an active nest is present, the PG&E avian conservation strategy should be implemented. If work occurs outside the breeding period, no impacts are expected.



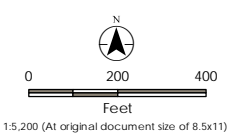
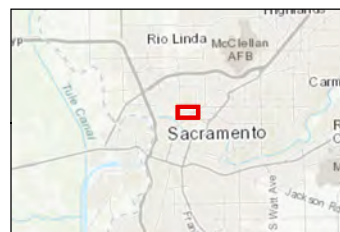
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- | | |
|-----------------------|-------------------------|
| Survey Area | Oak-Walnut Woodland |
| Work Areas | Residential |
| DFM 0613-01 Alignment | Riparian |
| Work Activity | Trail |
| Floodgate | Urban - Developed/Paved |
| USACE Levee | Urban - Undeveloped |
| | Wild Oats Grassland |
| | Elderberry shrub |

Pacific Gas and Electric Company

Distribution Feeder Main 0613-01
American River Crossing Retirement Project

Figure 1. Habitats
Page 1 of 3



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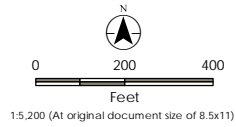
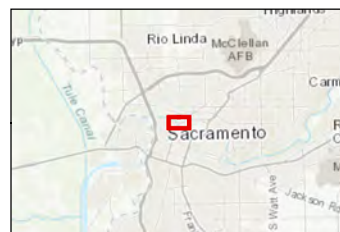
- Survey Area
- Work Areas
- DFM 0613-01 Alignment
- Work Activity
- Floodgate
- USACE Levee

- Habitats
- Oak-Walnut Woodland
 - Residential
 - Riparian
 - Trail
 - Urban - Developed/Paved
 - Urban - Undeveloped
 - Wild Oats Grassland
 - Elderberry shrub

Pacific Gas and Electric Company

Distribution Feeder Main 0613-01
American River Crossing Retirement Project

Figure 1. Habitats
Page 2 of 3



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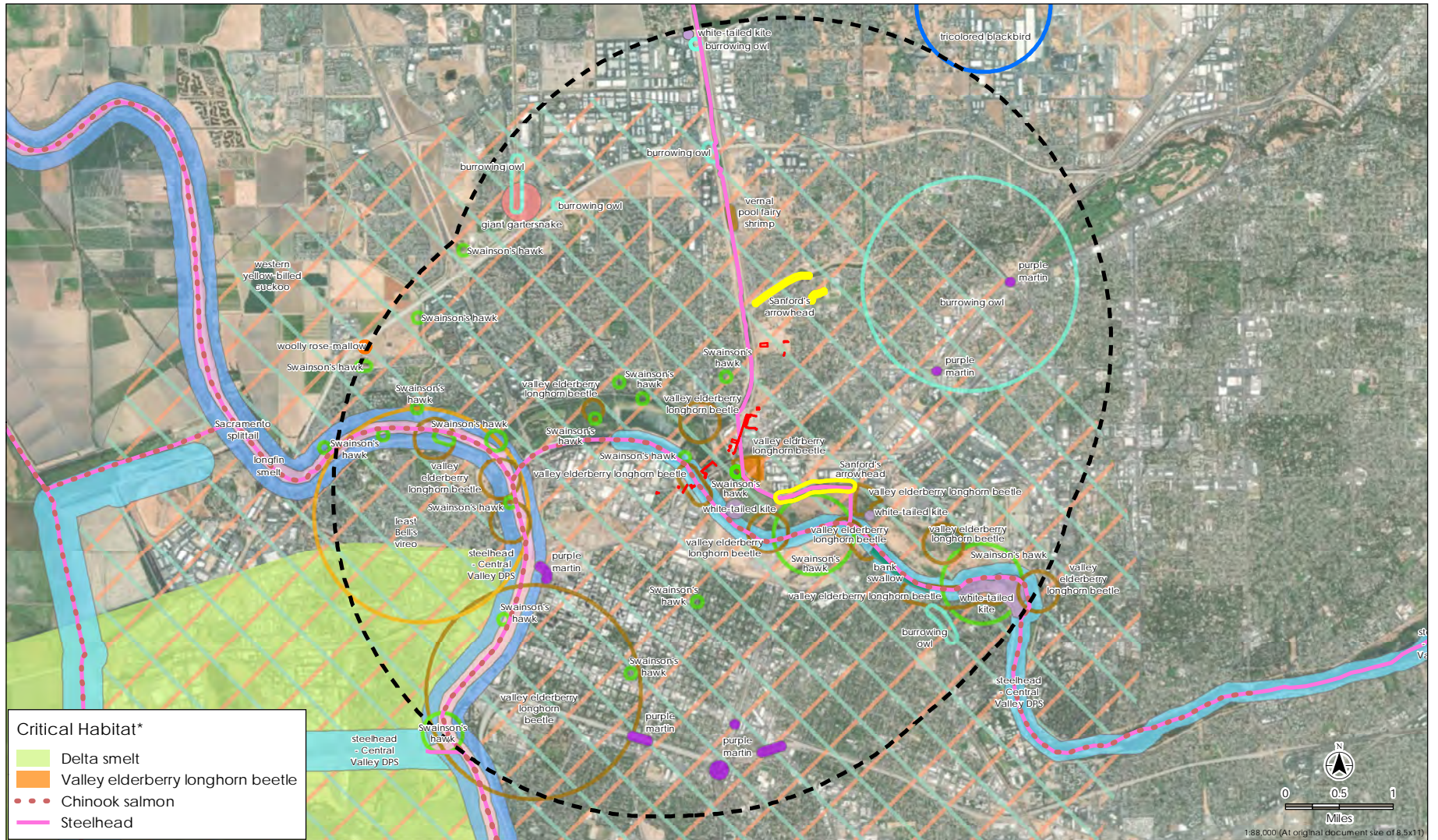
- Survey Area
- Work Areas
- DFM 0613-01 Alignment
- Work Activity
- Floodgate
- USACE Levee

- Habitats
- Oak-Walnut Woodland
 - Residential
 - Riparian
 - Trail
 - Urban - Developed/Paved
 - Urban - Undeveloped
 - Wild Oats Grassland
 - ✿ Elderberry shrub

Pacific Gas and Electric Company

Distribution Feeder Main 0613-01
American River Crossing Retirement Project

Figure 1. Habitats
Page 3 of 3



Pacific Gas and Electric Company
 DFM 0613-01 American River Crossing Capacity Upgrade Retirement Project



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* U.S. Fish & Wildlife Service Critical Habitat Data, September 2017
 ** California Dept. of Fish and Wildlife, California Natural Diversity Database (CNDDDB), December 2018

Figure 2. CNDDB

Appendix C

Best Management Practices

**PG&E R-528 DFM 0613-01 American River Crossing Replacement Project
Best Management Practices (BMPs)**

Water Quality 1: Geotextile fabrics, plastic sheeting and/or jute mats will be installed as appropriate to protect soil stockpiles from impacts of rain and stormwater flows.

Water Quality 2: Sediment controls will be used as appropriate to filter stormwater and trap soil particles before they move offsite. This could include silt fence, straw wattles, gravel bag berms, or other similar materials.

Water Quality 3: Concrete waste will be contained, concrete washout and cutting operations will be conducted offsite or within a contained area onsite to minimize contact with site runoff.

Water Quality 4: Concrete and other debris will be disposed of offsite at an appropriate facility.

Water Quality 5: Vehicular/equipment refueling and use of chemicals are prohibited within 100 feet of a wetland or drainage, unless secondary containment is constructed (e.g. a berm and lined refueling area). Proper spill prevention and cleanup equipment will be maintained in all refueling areas.

BMP 1 – Speed Limit: Vehicles should not exceed 15 mph when traveling in the right-of-way or along unpaved roads in natural areas.

BMP 2 – Vehicle Access and Parking: When accessing work sites, limit travel and parking of vehicles and equipment to pavement, existing roads, and existing stream crossings.

BMP 3 – Vehicle Use Near Waterways/Waterbodies (Seasonal and Perennial): No vehicles may be refueled within 100 feet of waterways/waterbodies and vehicles operating adjacent to these areas must be inspected and maintained daily to prevent leaks. When possible, work near waterways/waterbodies should be conducted during the dry season (generally May 15 - October 15) or during dry spells. No substantial vegetation trimming will occur within the bed, bank, or channel of waterways without the approval of the PG&E Project biologist.

BMP 5 – Dust Abatement: Abate dust through use of water trucks, vehicle speeds limits, or other methods that prevent generating significant dust that may affect wildlife, plants, and humans.

BMP 6 – Invasive Plant Species: When working in areas adjacent to natural habitats, thoroughly wash all equipment and vehicles prior to entering work sites to prevent the spread of noxious weeds.

BMP 7 – Disposal of Vegetation (Chipped, Clippings, or Limbs): Removed vegetation should be disposed of in accordance with job specific disposal plan. Generally, chipped vegetation should be placed in previously disturbed areas (or non-sensitive vegetated areas) and large limbs or cuttings should be left onsite (if approved by land owner/manager) or removed and properly disposed of.

BMP 8 – Fire Prevention: During designated fire season motorized equipment must have federal and state approved spark arrestors and must be equipped with standard firefighting tools (fire extinguishers or other appropriate tools). Construction managers are responsible for checking the fire adjective index rating prior to work. During fire adjective index ratings of Very High or Extreme, no vehicle travel is permitted off cleared roads and no smoking is allowed in vegetated areas (grasslands, forests, etc.).

BMP 9 – Avoid Hazards Associated with Open Trenches: All holes or trenches left open overnight will be thoroughly covered (ensuring coverage of gaps under boards) to prevent animals (and people) from becoming entrapped. For those areas that cannot be covered, the areas must be fenced and contain escape ramps for wildlife.

BMP 10 – General Site Use Standards: Trash dumping, firearms, open fires (such as barbecues) not required by the operations and maintenance O&M activity, hunting, and pets (except for safety in remote locations) will be prohibited in O&M work activity sites. All food-related waste must be removed daily from work sites to prevent attracting wildlife.

BMP 11 – Vehicles Emissions/Noise: Vehicles idling, noise, and odor must be minimized to the extent practicable when working near residences or human populated areas. Diesel-fueled work vehicles must not stand idling for more than five minutes at any location unless needed for work purposes.

BMP 12 – Nesting Birds: For work proposed to occur during the bird nesting season (February 1 - August 31), contact the PG&E Project biologist to determine if a pre-activity nesting bird survey is needed. If during the course of work an active bird nest (defined as a nest with eggs or young) is detected, stop work and contact the PG&E Project biologist. The biologist will ensure that work proceeds in compliance with PG&E's Avian Conservation Strategy and the Bird Nest Process specified in Work Procedure 2321-01.

BMP 13 – Protected Species: If you discover a plant or animal at the work site which you believe may be a protected species, and which is in danger of harm from construction, stop work and call your supervisor and the PG&E Project biologist.

BMP 14 – Environmental Spills: If an environmental protection incident occurs, such as accidental introduction of substances into waterways or wetlands, accidental taking of an endangered species, or hazardous material spills, etc., call your Environmental Field Specialist (EFS) or PG&E contact immediately. If the EFS or PG&E contact cannot be reached call the Environmental Hotline at 800-874-4043.

Appendix D Arborist Report



Prepared by: **Scott Shaw**, Consulting Utility Forester
ISA Certified Arborist WE-12224A

Arborist Report For: **R-582 American River Sacramento
Retirement (L-0613-01)
Project Order# 74004048**

Date: **February 13th 2019**

For: **Pacific Gas & Electric Co. (PG&E)**
Land Consultant: **Kevin Ventura**
Land / Environmental Planner: **Chris Ellis**
Project Manager: **Christine Mier**

Per: This report is based on the construction workspace drawings, email correspondence with the project team, and a site visit that took place February 11th, 2019.

- **If construction plans change as they relate to tree work then the site should be re-assessed by an arborist to maintain the integrity of these recommendations.**
- **See associated tables & figures for further tree work and location information**
- **Tree protection recommendations are based on the International Society of Arboriculture Best Management Practices (BMP) for Managing Trees During Construction. Tree trimming & protection recommendations are also based on ANSI a300 Standards (parts 1 & 5). Any work performed outside of these BMPs & Standards is solely the decision of construction management. Any work in reference to the gas line right-of-way (ROW) is based on PG&E utility standard TD-4490S.**

Executive Summary of Vegetation Recommendations

- Trim 2 Valley Oak: *Quercus lobata*
- Remove 2 Walnut: *Juglans*
- Remove 2 Almond: *Prunus dulcis*
- **Property Owners to be Notified:** According to PG&E's Land Parcels data layer, vegetation management work appears as if it will be conducted on the following properties:
 - APN# 263-0110-026-0000
 - APN# 274-0190-003-0000
 - APN# 274-0120-010-0000
- **All impacted property owners should be properly notified prior to work.**
- **Project Location / Relevant tree ordinances:** Referencing PG&E's City County Boundaries data layer, the project area falls within Sacramento county.

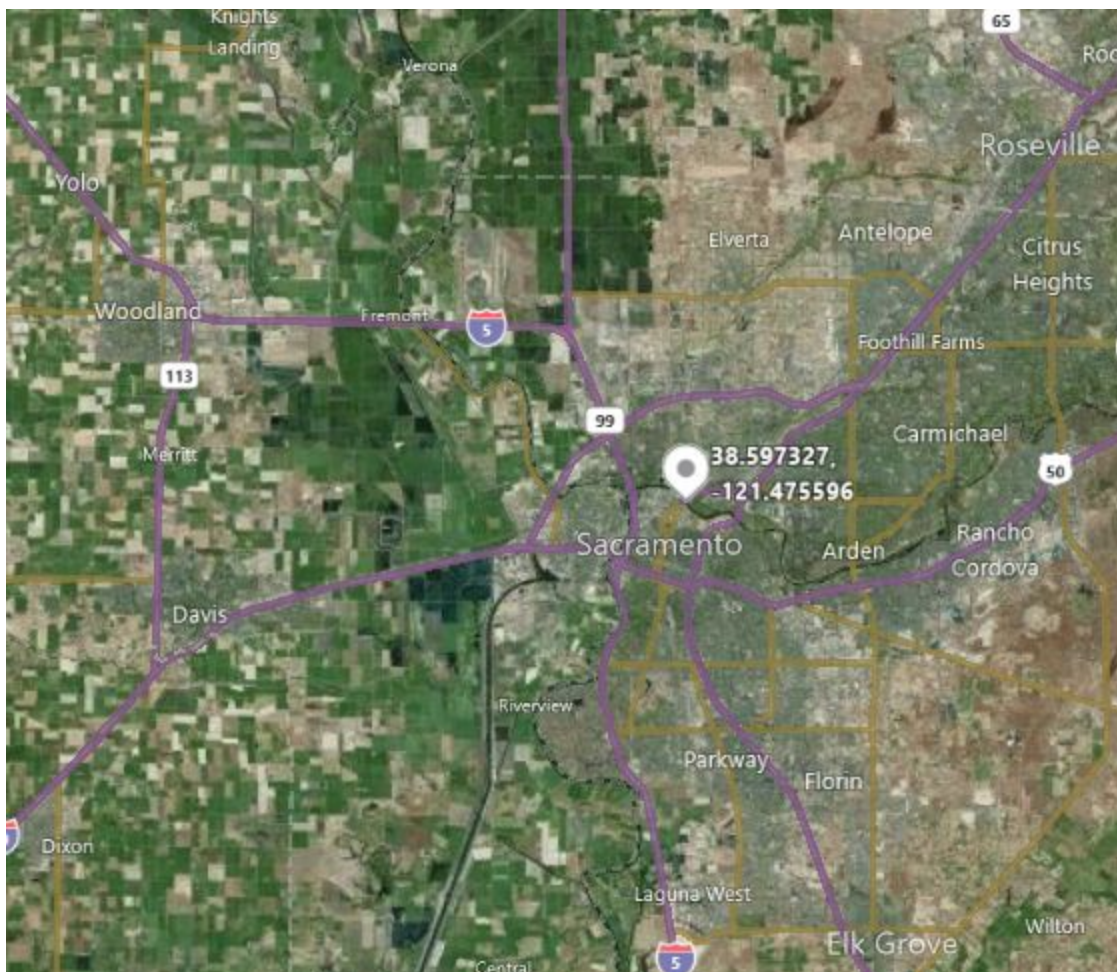
- There do not appear to be any applicable tree ordinances in Sacramento County that relate to this project’s scope of work.

Introduction

Request for arborist support was received February 6th, 2019. Project referred to as R-582 American River Sacramento was evaluated February 11th, 2019 during a site assessment based off of the construction workspace drawing “DFM 0613-01 MP 2.94-5.29”. Vegetation management was requested in order to provide a safe and clear workspace for pipeline retirement work.

The following recommendations are made to avoid irreparable damage to vegetation in the area during construction. This report goes into further detail identifying the issues and scope of vegetation work at location. In the event of any changes in scope of work and/or location of construction activities, the site will need to be reassessed by the Project Arborist to maintain the integrity of these recommendations.

Vicinity Map: Project areas are located in Sacramento, CA (38.597327, -121.475596)



Scope of Work:

There are six trees recommended to be worked spread across three different locations. Referencing the workspace drawings, at location B there is one Valley Oak which needs to be trimmed for a 15' vertical clearance to allow construction equipment space to excavate in the roadway. There is one Valley Oak in an alley which is recommended for a 15' vertical clearance trim to provide access to location D. At location G, there are two Almond trees and two Walnut trees recommended for removal to give adequate space for excavation and construction work. All residual stumps will be cut flush to grade.

All debris will be hauled off site. Work is expected to take one day to complete. A 4 man crew, chainsaws, one chipper, one bucket/chip truck, leaf blowers, rakes, safety cones, and work ahead signs will be required to safely and effectively conduct this work.

Figure 1: Vegetation Inventory Map Overview

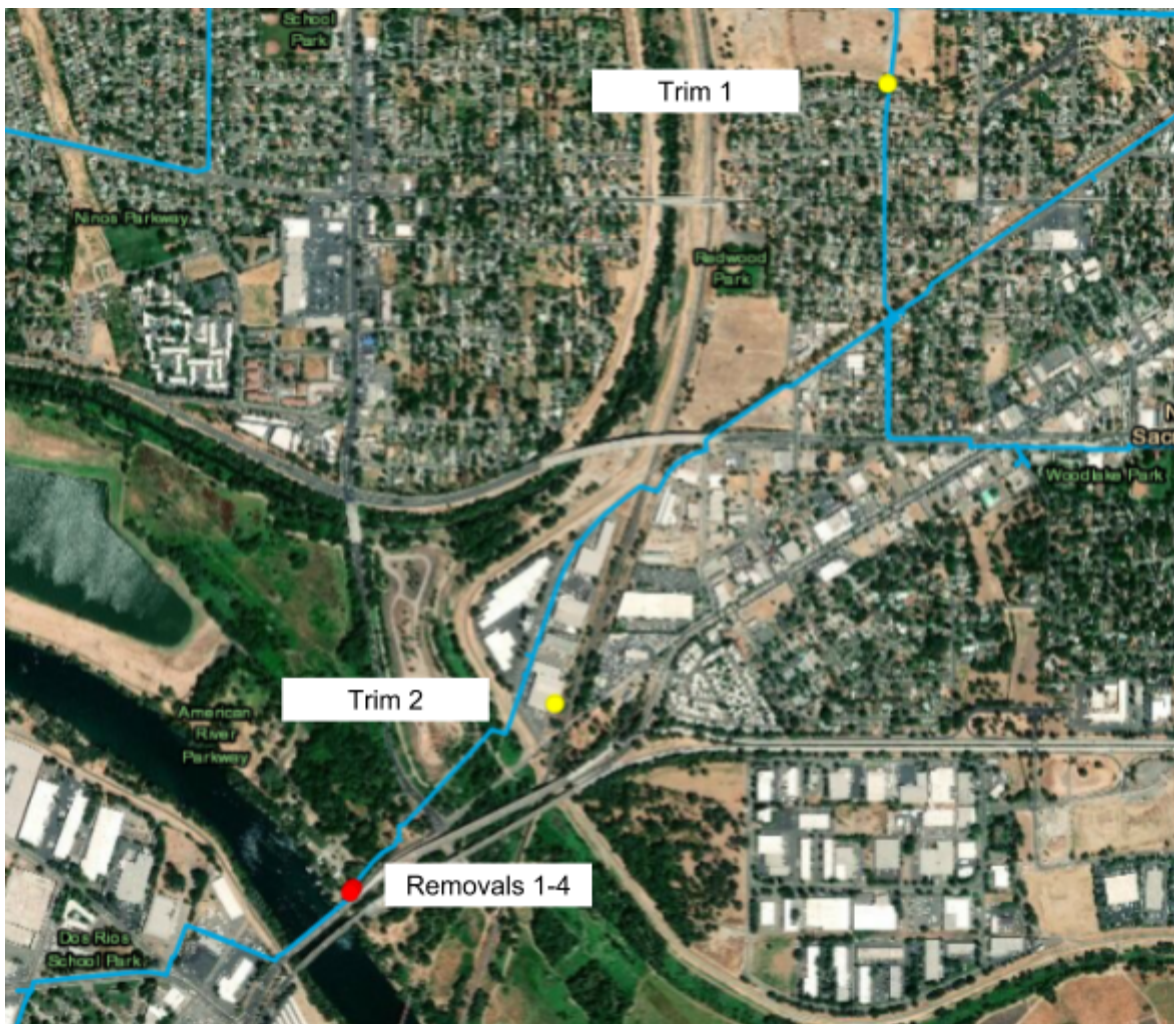


Figure 2: Workspace Drawing:

DFM 0613-01 MP 2.94 - 5.29
 RETIRE APPROX 12,250' OF 12" PIPE
 SACRAMENTO, SACRAMENTO COUNTY

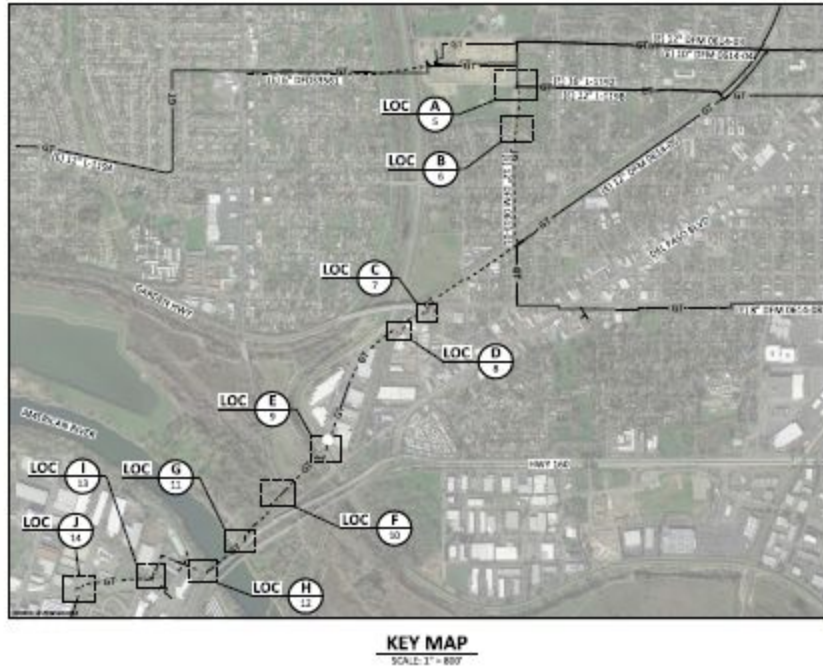


Table 1. Tree Inventory Data

Tree ID	Species	DBH (in)	Height (ft)	Work	Reason for Work	Location	Notes
Trim 1	Valley Oak: <i>Quercus lobata</i>	23	25	Trim	Construction	B	15' vertical clearance over road.
Trim 2	Valley Oak: <i>Quercus lobata</i>	32	55	Trim	Construction	D	15' vertical clearance. Access.
Removal 1	Almond: <i>Prunus dulcis</i>	22	10	Remove	Construction	G	Multi stemmed

Removal 2	Almond: <i>Prunus dulcis</i>	16	10	Remove	Construction	G	Multi stemmed
Removal 3	Walnut: <i>Juglans</i>	32	18	Remove	Construction	G	Multi stemmed
Removal 4	Walnut: <i>Juglans</i>	24	19	Remove	Construction	G	Flush cut to grade

Photos of Recommended Vegetation Work

Figure 3: Trim 1



Figure 4: Trim 2



Figure 5: Removal 1

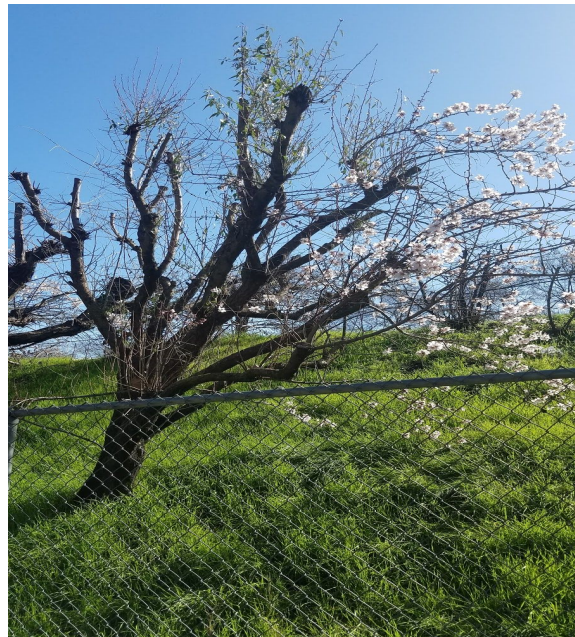


Figure 6: Removal 2



Figure 7: Removal 3



Figure 8: Removal 4



Definitions

Critical Root Zone (CRZ): area of soil around a tree where the minimum amount of roots considered critical to the structural stability or health of the tree are located. CRZ determination could be based on the **Drip-line** or a multiple of **DBH**, but because root growth can be asymmetric due to site conditions, on-site investigation may be required.

Crown (Canopy) Raising: in pruning, the selective removal of lower limbs from a tree crown to provide clearance.

Diameter at Breast Height or DBH: an arborist standard of measure for a tree. The trunk(s) diameter is measured at 4.5ft above natural grade. If there are multiple trunks, they are measured individually and added together.

Drip-line: imaginary line defined by the branch spread of a single tree or group of trees.

Project Arborist: PG&E assigned Arborist to the project. Duties may include but not limited to assessing and providing recommendations on tree issues, tree permitting with agencies, scheduling and overseeing tree work, site monitoring, spot checking, etc.

Root Pruning: in tree conservation and preservation, the process of cutting roots cleanly behind the line of a planned excavation to prevent tearing and splintering of remaining roots.

Tree Protection Zone (TPZ): defined area within which certain activities are prohibited or restricted to prevent or minimize potential injury to designated trees, especially during construction or development.

Reference

Vegetation prescriptions and recommendations are based on:

- International Society of Arboriculture Best Management Practices for “Managing Trees During Construction.”
- ANSI A300 Standards (part 5) Management of Trees and Shrubs During Site Planning, Site Development, and Construction.
- ANSI A300 Standards (part 1) Standard Practices Pruning.
- Any work in reference to the gas line right-of-way is based on PG&E utility standard TD-4490S.

*** Any work performed outside of these BMPs & Standards is solely the decision of construction management.**

**American River Flood Control District
District Roof Replacement – Lionakis Scope of Work
Staff Report**

Discussion:

The District worked with Lionakis architects in 2015 to design and construct a new headquarters office facility. At the time of the project, certain measures were taken to reduce overall construction costs. One of the items that was left out of the work was the installation of a new roof. The estimate at the time was that the existing roof had 2 to 3 more years of service life before needing to be replaced. The useful service life of the roof on the headquarters building has now been exceeded. Numerous leaks have been detected and are starting to cause damage to ceiling tiles and other structures.

District staff contacted Lionakis to see if they could help us develop a design for a new roof and also to generate bid documents to issue to a roofing contractor. During discussions with Lionakis, staff requested that they also include options for adding additional roof ventilation in the warehouse.

Lionakis conducted a recent inspection of the roof and consulted with their existing design drawings to provide the attached Scope of Work.

Estimated costs include:

Construction Documents Services: \$22,220.00
Bid and Award Services: \$ 5,900.00
Construction Administration Services: \$15,660.00
Close-out Services: \$ 4,720.00
Total Contract Amount: \$48,500.00

Options:

Design additional Shop Ventilation: **\$6,400**
Cost Estimates for Additional Shop Ventilation: **\$5,500**

Recommendation:

The General Manager recommends that the Board approve the Scope of Work including options for design and cost estimation for additional roof ventilation in the warehouse at an estimated cost of \$60,400.

7/31/2019

Tim Kerr
American River Flood Control District
185 Commerce Circle
Sacramento, CA 95815

Re: Re-Roof Project

Dear Tim:

Thank you for giving Lionakis the opportunity to provide you with the following proposal for the District Office Re-Roof project located at 185 Commerce Circle in Sacramento, CA.

DESCRIPTION OF PROJECT

The project will consist of providing professional architectural services required to document the roof replacement needed at the District office building. We will also provide as an add alternate, a fee for adding mechanical exhaust at the shop areas to alleviate heat and vehicle exhaust odors from the workspace, and a separate fee for a cost estimate of the proposed work.

We propose a Scope of Services and Deliverables as follows:

SERVICES

Construction Documents

1. Prepare drawings and specifications for roof replacement work documenting the scope of work with roof plan, details, and photos as applicable. Review drawings and roof details with manufacturer's representative.
2. Submit to Authority Having Jurisdiction (AHJ) over the project and obtain building permit.

Bid and Award

1. Attend pre-bid conference at the project site.
2. Respond to all Requests for Bid Information within a reasonable amount of time and maintain a log. The log shall be tabular in nature and sequentially numbered. Responses shall be basis for any Addenda issued.
3. Attend Bid opening.

Construction Administration

1. Attend preconstruction meeting with the successful construction contractor.
2. Provide timely processing of submittals, including receipt, review for general conformance with the contract documents, and take appropriate action on Shop Drawings, Product Data, Samples, and other submittals required by the Contract Documents. Distribute submittals to Owner, and General Contractor. Maintain master log of all submittals.
3. Review and respond to construction contractor Requests for Information (RFI), substitution requests, Operation and Maintenance Manuals, proposed change orders, etc. within the timeframes required in the construction documents. Maintain logs for RFI, Proposed Change Orders, etc.
4. Provide preparation of and documentation for Architectural Supplemental Instructions (ASI), Proposal Requests (PR), etc.
5. Review General Contractor's Application for Payment each month.

Tim Kerr
ARFCD Re-Roof Project
7/31/2019

Page 2 of 3

6. Attend a total of four (4) construction progress meetings throughout duration of construction to become generally familiar with the progress and quality of the work and to determine if the work is proceeding in accordance with the Contract Documents.

Close Out

1. After the General Contractor has given written notice of completion, Lionakis will visit the site for the purpose of generating a "punchlist" of corrective items.
2. Once punchlist is completed by General contractor, Lionakis will visit the site to verify final completion of the project.
3. Assist the District with receipt of Guarantees and Warranties, release of lien notices, Operation and Maintenance Manuals.
4. Review final application for payment.
5. Prepare Record Drawings based on Contractor prepared As-Built Drawings to show as-built conditions and changes.
6. Deliver CAD version of Record Drawings to the District upon completion of construction.

CLARIFICATIONS

Lionakis' services shall be limited to those expressly set forth above. If scope of work or deliverables is not specifically listed above they are not considered part of this agreement. Lionakis shall have no other obligations, responsibility or deliverables for the project except as agreed to in writing or as provided in the Owner-Architect Agreement.

DELIVERABLES

Construction Documents

1. One (1) 50% review set, and One (1) final 100% Construction Documents set, including plans and specifications, consisting of One (1) reproducible set, each sheet wet-stamped and signed by the Architect of Record registered in the State of California, the AHJ approval stamp, and "Bid Set" stamped on each sheet.

Bid and Award

1. Attend pre-bid conference.
2. Prepare Addenda.

Construction Administration

1. Attend pre-construction meeting.
2. Attend four (4) site progress meetings.

Close Out

1. Attend Punchlist meeting.
2. Prepare Record Drawing set.

COMPENSATION

1. We propose to provide these services and deliverables based on the information and scope of work described above for a fixed fee of \$48,500.00. If this fee should meet with your approval we will forward you our standard agreement. Lionakis' hourly rate schedule is attached.

Tim Kerr
ARFCD Re-Roof Project
7/31/2019

Page 3 of 3

Construction Documents Services:	\$22,220.00
Bid and Award Services:	\$ 5,900.00
Construction Administration Services:	\$15,660.00
Close-out Services:	<u>\$ 4,720.00</u>
Total Contract Amount:	\$48,500.00

2. Reimbursable Expenses are in addition to compensation for Basic and Additional Services and will be billed at a multiple of 1.10% the expenses incurred. These charges include, but are not limited to, expenses incurred which are directly related to the Project, such as reproductions, plans and plots for owner, agency or contractor's use, standard form documents, postage, handling and delivery of Instruments of Service, and mileage. Reimbursable expenses are not expected to exceed \$750.00.

ADD ALTERNATE SERVICES

1. At the District's direction, provide Mechanical Engineering services for design of exhaust system to ventilate existing shop bay spaces. Services include preparation of preliminary drawings for review, preparation of construction drawings, one trip to site during design phase, incorporation of plan check comments, review of submittals, assistance during bidding. One site visit during construction phase. Services also include power engineering for fan connection to building electrical system.

Cost: \$ 6,400.00

2. At the District's direction, provide opinion of probable construction cost.

Cost: \$5,500.00

We appreciate the opportunity to provide this proposal and are looking forward to working with you on this project. Please do not hesitate to contact me if you require any more information.

Sincerely,



Don Mariano, AIA
Senior Project Manager

Encl.: 2019 Fee Schedule

ARFCD Re-Roof

Fee Breakdown

Lionakis 2019 Rate Sheet

31-Jul-19

Construction Document Phase

	<u>Rate</u>	<u>Hours</u>	<u>Cost</u>
Principal	\$ 230.00	2	\$ 460.00
Project Manager	\$ 175.00	16	\$ 2,800.00
Project Designer	\$ 140.00	80	\$ 11,200.00
Specification Writer	\$ 175.00	40	\$ 7,000.00
Project Coordinator	\$ 95.00	8	\$ 760.00
Sub-total		146	\$ 22,220.00

Bidding Phase

	<u>Rate</u>	<u>Hours</u>	<u>Cost</u>
Principal	\$ 230.00	2	\$ 460.00
Project Manager	\$ 175.00	16	\$ 2,800.00
Project Designer	\$ 140.00	8	\$ 1,120.00
Specification Writer	\$ 175.00	0	\$ -
Project Coordinator	\$ 95.00	16	\$ 1,520.00
Sub-total		42	\$ 5,900.00

Construction Administration Phase

	<u>Rate</u>	<u>Hours</u>	<u>Cost</u>
Principal	\$ 230.00	2	\$ 460.00
Project Manager	\$ 175.00	40	\$ 7,000.00
Project Designer	\$ 140.00	40	\$ 5,600.00
Specification Writer	\$ 175.00	4	\$ 700.00
Project Coordinator	\$ 95.00	20	\$ 1,900.00
Sub-total		106	\$ 15,660.00

Closeout Phase

	<u>Rate</u>	<u>Hours</u>	<u>Cost</u>
Principal	\$ 230.00	2	\$ 460.00
Project Manager	\$ 175.00	4	\$ 700.00
Project Designer	\$ 140.00	20	\$ 2,800.00
Specification Writer	\$ 175.00	0	\$ -
Project Coordinator	\$ 95.00	8	\$ 760.00
Sub-total		34	\$ 4,720.00

Grand Total - Architectural \$ 48,500.00**ADD Alternate - Mechanical Exhaust \$6,400.00****ADD Alternate - Cost Estimator \$ 5,500.00**

**American River Flood Control District
Sheriff's Work Program Contract for Services
Staff Report**

Discussion:

District Superintendent Ross Kawamura has researched available options for obtaining contract laborers to assist with debris clean-up along the levees. The most suitable work force for this task is currently provided through the Sacramento County Sheriff's Department with their work program.

Attached to this report is a contract from the Sac County Sheriff to begin providing these labor services. The contract price for supervision of one work crew is \$979 per day. The contract estimate for fiscal year 2019/20 costs are not to exceed \$30,000.

Recommendation:

The General Manager recommends that the Board approve the contract.

SACRAMENTO COUNTY**SHERIFF'S DEPARTMENT**

Scott R. Jones
Sheriff

July 17, 2019

American River Flood Control District
Attn: Ross Kawamura
185 Commerce Circle
Sacramento, CA 95815

RE: Revenue Agreement Between The American River Flood Control District And The Sacramento Sheriff's Office For Supervision Of Work Project Program Inmate Crew Cleaning And Landscape Maintenance

Mr. Kawamura:

Please find enclosed two (2) sets of the original agreement. Please obtain appropriate signatures on both sets and return both to the Sheriff's Office. After you return the signed originals to us, you will receive a fully executed copy once it is signed by the Sheriff and all required parties. If you have any questions please contact Debra Holoubek @ dholoubek@sacsheriff.com or call (916) 875-0108.

Very truly yours,

SCOTT R. JONES, SHERIFF

Return documents to:
Sacramento County Sheriff's Office
711 G Street, RM 405
Sacramento, CA 95814

Matt Compton

Enclosed: Original Agreement (2 sets)

REVENUE AGREEMENT BETWEEN THE AMERICAN RIVER FLOOD CONTROL DISTRICT AND THE SACRAMENTO COUNTY SHERIFF'S OFFICE FOR SUPERVISION OF WORK PROJECT PROGRAM INMATE CREW CLEANING AND LANDSCAPING MAINTENANCE

THIS AGREEMENT is made and entered into as of this 1st day of August, 2019, between the AMERICAN RIVER FLOOD CONTROL DISTRICT, a Municipal District in the State of California, hereinafter referred to as "DISTRICT," and the COUNTY OF SACRAMENTO, a political subdivision of the State of California, hereinafter referred to as "COUNTY".

RECITALS

WHEREAS, DISTRICT wishes to contract for supervision of Work Project Program inmate crew(s) from COUNTY;

WHEREAS, COUNTY wishes to provide supervision of Work Project Program inmate crew(s); and,

WHEREAS, DISTRICT and COUNTY desire to enter into this Agreement on the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual promises hereinafter set forth, DISTRICT and COUNTY agree as follows:

I. SCOPE OF SERVICES

COUNTY shall provide services in the amount, type and manner described in Exhibit A, which is attached hereto and incorporated herein.

II. TERM

This Agreement shall be effective August 1, 2019, and shall remain in effect until July 31, 2020, unless sooner terminated pursuant to the provisions of Paragraph XXI. This agreement may be renewed pursuant to Paragraph XXIV.

III. NOTICE

Any notice, demand, request, consent, or approval that either party hereto may or is required to give the other pursuant to this Agreement shall be in writing and shall be either personally delivered or sent by mail, addressed as follows:

TO DISTRICT

TO COUNTY

Ross Kawamura
American River
Flood Control District
185 Commerce Circle
Sacramento, CA 95815

Sacramento County Sheriff's Dept.
Commander, Work Release Division
700 N. 5th Street
Sacramento, CA 95811

Either party may change the address to which subsequent notice and/or other communications can be sent by giving written notice designating a change of address to the other party, which shall be effective upon receipt.

IV. COMPLIANCE WITH LAWS

COUNTY shall observe and comply with all applicable Federal, State, and County laws, regulations and ordinances.

V. GOVERNING LAWS AND JURISDICTION

This Agreement shall be deemed to have been executed and to be performed within the state of California and shall be construed and governed by the internal laws of the state of California. Any legal proceedings arising out of or relating to this Agreement shall be brought in Sacramento County, California.

VI. LICENSES AND PERMITS

COUNTY shall possess and maintain all necessary licenses, permits, certificates, and credentials required by the laws of the United States, the State of California, County of Sacramento, and all other appropriate governmental agencies, including any certification and credentials required by COUNTY. Failure to maintain the licenses, permits, certificates, and credentials shall be deemed a breach of this Agreement and constitutes grounds for the termination of this Agreement by DISTRICT.

VII. PERFORMANCE STANDARDS

COUNTY shall perform its services under this Agreement in accordance with the industry and/or professional standards applicable to COUNTY'S services. It is agreed by the parties that COUNTY, in the performance of services hereunder, is subject to the control or direction of DISTRICT as to the designation and scheduling of tasks to be performed, but not as to the means and methods for accomplishing tasks. COUNTY shall retain full responsibility and authority to direct and control the activities of both the Sheriff's Deputies and the inmate workers, and to supervise and discipline said Deputies and inmates.

VIII. STATUS OF CONTRACTOR

- A. It is understood and agreed that COUNTY (including its employees) is an independent contractor and that no relationship of employer-employee exists between the parties hereto. COUNTY'S assigned personnel shall be entitled to any benefits payable to employees of COUNTY. COUNTY is required to make any deductions or withholdings from the compensation payable to COUNTY under the provisions of this agreement
- B. If, in the performance of this agreement, any third persons are employed by COUNTY, such person shall be entirely and exclusively under the direction, supervision, and control of COUNTY. All terms of employment, including hours, working conditions, discipline, or any other terms of employment or requirements of law, shall be determined by COUNTY and shall have authority over such persons or the terms of such employment.
- C. It is further understood and agreed that as an employee of COUNTY, assigned personnel shall have any and all entitlement as a County employee, the right to act on behalf of COUNTY. COUNTY shall be covered by workers' compensation; and COUNTY shall be entitled to compensated sick leave, vacation leave, retirement entitlement, participation in group health, dental, life and other insurance programs, and entitled to other fringe benefits payable by the COUNTY to employees of the COUNTY.
- D. Inmate Work Project Program participants performing public service under the direction of a supervising Deputy Sheriff in conjunction with this agreement, are entirely under the direction, supervision, and control of the COUNTY. All terms of inmate public service, including hours, working conditions, discipline, or other terms of public service or requirements of law, including coverage by worker's compensation, shall be determined by COUNTY, and will be the responsibility of COUNTY.

IX. CONTRACTOR IDENTIFICATION

COUNTY shall provide the DISTRICT with the following information for the purpose of compliance with California Unemployment Insurance Code section 1088.8 and Sacramento County Code Chapter 2.160: COUNTY'S name, address, telephone number, employer identification number, and whether dependent health insurance coverage is available to COUNTY.

X. CONFLICT OF INTEREST

COUNTY officers and employees shall not have a financial interest, or acquire any financial interest, direct or indirect, in any business, property or source of

income which could be financially affected by or otherwise conflict in any manner or degree with the performance of services required under this Agreement.

XI. INDEMNIFICATION

To the fullest extent permitted by law, each of the Parties shall indemnify, defend and hold harmless each of the other Parties, their respective governing boards, officers, directors, officials, employees, and authorized volunteers and agents from and against any and all claims, demands, actions, losses, liabilities, damages, and all expenses and costs incidental thereto (collectively "Claims"), including cost of defense, settlement, arbitration, and reasonable attorneys' fees, resulting from injuries to or death of persons, including but not limited to employees of either Party hereto, and damage to or destruction of property or loss of use thereof, including but not limited to the property of either Party hereto, arising out of, pertaining to, or resulting from the acts or omissions of the their respective governing boards, officers, directors, officials, employees, volunteers, agents, or contractors.

It is the intention of the Parties that the provisions of this indemnity be interpreted to impose on each Party responsibility to the other for the acts and omissions of their governing boards, officers, directors, officials, employees, volunteers, agents or contractors. It is also the intention of the Parties that, where comparative fault is determined to have been contributory, principles of comparative fault will be followed and each Party shall bear the proportionate cost of any Claims attributable to the fault of that Party, its governing board, officers, directors, officials, employees, volunteers, agents, or contractors.

This indemnity shall not be limited by the types and amounts of insurance or self-insurance maintained by the Parties.

Nothing in this Indemnity shall be construed to create any duty to, any standard of care with reference to, or any liability or obligation, contractual or otherwise, to any third party.

This indemnity obligation shall survive the termination or expiration of the Agreement.

XII. INSURANCE

The COUNTY and DISTRICT finance their liability, property, and worker's compensation risk through a combination of self-insurance and insurance. The COUNTY and DISTRICT are knowledgeable of each entity's risk financing program and agree to rely on these programs to pay for any liabilities, losses, costs, suits, claims, judgments, expenses, fines or demands of any kind that may arise under the terms of this Agreement.

XIII. COMPENSATION AND PAYMENT OF INVOICES LIMITATIONS

- A. Compensation under this Agreement shall be limited to the payment amount set forth in Exhibit B, or Exhibit B as modified by COUNTY in accordance with express provisions in this Agreement. COUNTY agrees that all work provided by inmates is free of charge. Total maximum payment under this contract shall not exceed \$30,000. It is understood and agreed that this total is the maximum and that DISTRICT will only pay for services actually rendered.
- B. COUNTY shall submit monthly invoices on the forms and in accordance with the procedures mutually agreed upon by DISTRICT and COUNTY. Invoices shall be submitted to DISTRICT no later than the fifteenth (15th) day of the month following the invoice period, and DISTRICT shall pay COUNTY within thirty (30) days after receipt of an appropriate and correct invoice.
- C. COUNTY operates on a July through June fiscal year. Invoices for services provided in any fiscal year must be submitted no later than July 31, one month after the end of the fiscal year.
- D. COUNTY shall maintain for four years following termination of this agreement full and complete documentation of all services and expenditures associated with performing the services covered under this Agreement. Expense documentation shall include: time sheets or payroll records for each employee; receipts for supplies; applicable subcontract expenditures; applicable overhead and indirect expenditures.

XIV. SUBCONTRACTS, ASSIGNMENT

- A. COUNTY shall obtain prior written approval from DISTRICT before subcontracting any of the services delivered under this Agreement. COUNTY remains legally responsible for the performance of all contract terms including work performed by third parties under subcontracts. Any subcontracting will be subject to all applicable provisions of this Agreement.
- B. This Agreement is not assignable by COUNTY in whole or in part, without the prior written consent of DISTRICT.

XV. AMENDMENT AND WAIVER

Except as provided herein, no alteration, amendment, variation, or waiver of the terms of this Agreement shall be valid unless made in writing and signed by both parties. Waiver by either party of any default, breach or condition precedent shall not be construed as a waiver of any other default, breach or condition precedent, or any other right hereunder. No interpretation of any provision of this

Agreement shall be binding upon COUNTY unless agreed in writing by DIRECTOR and counsel for COUNTY.

XVI. SUCCESSORS

This Agreement shall bind the successors of DISTRICT and COUNTY in the same manner as if they were expressly named.

XVII. TIME

Time is of the essence of this Agreement.

XVIII. INTERPRETATION

This Agreement shall be deemed to have been prepared equally by both of the parties, and the Agreement and its individual provisions shall not be construed or interpreted more favorably for one party on the basis that the other party prepared it.

XIX. DIRECTOR

As used in this Agreement, "DIRECTOR" shall mean the Sacramento County Sheriff or his/her designee.

XX. DISPUTES

In the event of any dispute arising out of or relating to this Agreement, the parties shall attempt, in good faith, to promptly resolve the dispute mutually between themselves. If the dispute cannot be resolved by mutual agreement, nothing herein shall preclude either party's right to pursue remedy or relief by civil litigation, pursuant to the laws of the state of California.

XXI. TERMINATION

- A. DISTRICT or COUNTY may terminate this Agreement without cause upon thirty (30) days written notice to the other party. Notice shall be deemed served on the date of mailing.
- B. If this Agreement is terminated under paragraph A, DISTRICT shall only pay for any services completed and provided prior to notice of termination. In the event of termination under paragraph A, COUNTY shall be paid an amount which bears the same ratio to the total compensation authorized by the Agreement as the services actually performed bear to the total services of COUNTY covered by this Agreement, less payments of compensation made.

- C. COUNTY shall not incur any expenses under this Agreement after notice of termination and shall cancel any outstanding expenses obligations to a third party that COUNTY can legally cancel.

XXII. AUDITS AND RECORDS

Upon DISTRICT'S request, DISTRICT or its designee shall have the right at reasonable times and intervals to audit, at COUNTY'S premises, COUNTY'S financial and program records as DISTRICT deems necessary to determine COUNTY'S compliance with legal and contractual requirements and the correctness of claims submitted by COUNTY. COUNTY shall maintain such records for a period of four years following termination of the Agreement, and shall make them available for copying upon DISTRICT'S request at DISTRICT'S expense.

XXIII. PRIOR AGREEMENTS

This Agreement constitutes the entire contract between DISTRICT and COUNTY regarding the subject matter of this Agreement. Any prior agreements, whether oral or written, between DISTRICT and COUNTY regarding the subject matter of this Agreement are hereby terminated effective immediately upon full execution of this Agreement.

XXIV. RENEWAL

This agreement may be renewed for two one-year periods, for a total of three years, by mutual agreement of the DISTRICT and the Sacramento County Sheriff, on behalf of COUNTY in writing.

XXV. DUPLICATE COUNTERPARTS

This Agreement may be executed in duplicate counterparts. The Agreement shall be deemed executed when it has been signed by both parties.

XXVI. AUTHORITY TO EXECUTE

Each person executing this Agreement represents and warrants that he or she is duly authorized and has legal authority to execute and deliver this Agreement for or on behalf of the parties to this Agreement. Each party represents and warrants to the other that the execution and delivery of the Agreement and the performance of such party's obligations hereunder have been duly authorized.

XXVII. ADDITIONAL PROVISIONS

The additional provisions contained in Exhibits A and B are attached hereto are part of this agreement and are incorporated herein by reference.

XXVIII. OPERATIONAL ISSUES

Day-to-day operational issues should be directed as follows:

DISTRICT

COUNTY

Ross Kawamura
Superintendent
916-929-4006

Work Release Facility
Field Ops Supervisor 874-2419/874-1414
Or SWP Coordinator 606-5223

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first written above.

AMERICAN RIVER FLOOD
CONTROL DISTRICT, a
Municipal District in the
State of California

COUNTY OF SACRAMENTO, a
political subdivision of the State
of California

By: _____
BRIAN F. HOLLOWAY, President

By: _____
SCOTT R. JONES, Sheriff

Date: _____

Date: _____

Authorized on behalf of County by Board Resolution _____

APPROVED AS TO FORM:

By: _____
District Counsel

By: _____
Deputy County Counsel

Date: _____

Date: _____

**EXHIBIT A to Agreement Between
AMERICAN RIVER FLOOD CONTROL DISTRICT,
hereinafter referred to as "DISTRICT"
and the COUNTY OF SACRAMENTO,
hereinafter referred to as "COUNTY"**

SCOPE OF SERVICES

I. SERVICE LOCATION(S)

Throughout the American River Flood Control District

II. DESCRIPTION OF SERVICES

COUNTY agrees to assign one inmate work crew for homeless camp cleanup, landscape/brush cleanup and litter removal two times per month, unless otherwise mutually agreed upon.

Each crew shall be supervised by a regular or On-Call Deputy Sheriff, to perform cleanup, maintenance, landscaping, and other appropriate tasks in and around DISTRICT levees.

It is understood and agreed that such assignment of Deputy Sheriffs and/or inmates may be limited by factors beyond the control of the COUNTY. Such factors include, but are not limited to, the availability of Deputy Sheriff/On-Call Deputy Sheriff and/or inmates with the appropriate custody classification.

COUNTY shall supply inmate transportation to work sites and all necessary tools and equipment.

**EXHIBIT B to Agreement Between
AMERICAN RIVER FLOOD CONTROL DISTRICT,
hereinafter referred to as "DISTRICT",
and the COUNTY OF SACRAMENTO,
hereinafter referred to as "COUNTY"**

BUDGET REQUIREMENTS

I. COMPENSATION TO CONTRACTOR

Fiscal Year 2019/20 – Daily rate for supervision, per work crew, per day \$979.

Work Project cleanup services for Fiscal Year 2019/20
in the amount of \$30,000.

Total Maximum Payment under this contract shall not exceed \$30,000. It is understood and agreed that this total is the maximum, and that DISTRICT will only pay for services actually rendered.

American River Flood Control District
Renaming the Newsletter Committee to the Public Outreach Committee
Staff Report

Discussion:

The Newsletter Committee has expressed a desire to expand the scope of its efforts to reach out and connect with the community. Although the District Newsletter is still one of the best ways to communicate with our residents, there are many additional ways the District could connect with those in our community. The proposed change is for the Newsletter Committee to be renamed as the Public Outreach Committee.

Items covered by the Public Outreach Committee could include:

- The annual District Newsletter
- Attendance and preparation for public meetings
- New handouts and materials
- The annual Spring Mailer to residents along the levee
- Outreach for upcoming Board meetings
- Event participation and representation
- Bike trail outreach

Recommendation:

The General Manager recommends that the Board rename the Newsletter Committee to the Public Outreach Committee.

General Manager's Meeting Summary

July 2019

7/8: SAFCA Agency Staff meeting. I attended this meeting to coordinate on local flood control topics. Items of discussion included SAFCA leasing space in the Army Corps building, Natomas Reach I levee construction, levee pipe abandonment in ARFCD, and Assembly Bill 137.

7/11: ACWA JPIA Annual Facilities Inspection. Superintendent Kawamura and I met with Robin Flint from JPIA to conduct our annual facility inspection. Ms. Flint was impressed with Mr. Kawamura's extensive health and safety documentation.

7/12: American River Flood Control District Board of Trustees meeting. The Board met in regular session. The agenda items included purchase of a Bobcat Mini-excavator through Sourcewell, a permit application for abandonment of a sewer force main for Regional Sanitation, a lease for yard space from North Sacramento Land Company, and consideration of support for Assembly Bill 137.

7/18: Flood Maintenance Assistance Program Grant Application meeting. I met with Ric Reinhardt and Tina Anderson from MBK Engineers to work on our grant application for the FMAP grant from CA DWR. The grant will provide funding for equipment, encroachment removal, and addressing hazardous trees.

7/19: CA Central Valley Flood Protection Board Tour of ARFCD Levees. I provided two tours to directors and staff from the CVFPB to observe levee damage and obstructions from homeless camps. The tour encompassed the South Levee of the American River from Interstate 5 to Highway 160.

7/24: Meeting with Kleinfelder Associates. I met with Tim Williams from Kleinfelder Associates to discuss a repair plan for the sinkhole at H Street. The sinkhole developed on the south side of the American River under the H Street Bridge during the high rainfall event of March 2019. Mr. Williams will investigate the geotechnical cause for the sinkhole and then look at developing a suitable repair.

7/26: ARFCD Bi-annual CPR Training. District staff participated in First Aid and CPR training in the Karolyn W. Simon Board Room. Training was provided by Simply CPR.

7/26: ARFCD Policy Committee meeting. The Policy Committee met to review the District Recreational Trails Policy.