# American River Flood Control District Central Valley Flood Protection Board Permit Application New 18-inch Culvert on Arcade Creek South Levee (City of Sacramento) Staff Report

### **Discussion:**

This application is for the replacement of an unpermitted 18" culvert located on the south levee of Arcade Creek near Rio Linda Boulevard. The culvert was found during the construction of SAFCA's North Sacramento Streams project. The culvert was previously undocumented but has been deemed necessary by the City of Sacramento Department of Utilities.

The application consists of installing a new levee pipe crossing that meets Title 23 standards. The pipe crossing will have a flap gate on the waterside outlet and a positive closure on the waterside hinge point. The positive closure will consist of a gate valve to prevent back flow during high water conditions. The gate valve requires a gate riser structure in the waterside slope hinge point of the levee to operat6e the valve. The entire pipe crossing feature including the gate valve and riser structure will be operated and maintained by the City of Sacramento.

## **Recommendation:**

The General Manager recommends that the Board of Trustees endorse the City of Sacramento's permit application.

#### 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. <u>This application is for the replacement of an unpermitted 18" culvert located in Sacramento on the southern</u> <u>levee of Arcade Creek. Replacement of the culvert will follow Title 23 guidance as shown in Attachment A and</u> B, detailed scope of work.

2.	Project Location:	Sacramento		County, in Section	n/a
	Township:		(N) (S), Range: <u>5E</u>	_ county, in coolon	(E) (W), M. D. B. & M.
	Latitude:	See Attachment A	Longitude: See	Attachment A	Designated
	Stream :	Arcade Creek	, Levee : <u>Arca</u>	ade Creek	Floodway: Arcade Creek
	APN:	See Attachment A	-		
3.	Doug Her	IFY Name of Applicant / Land <i>Ow</i>		of <u>City of Sacrament</u>	to, Department of Utilities Address
			ner		
Sacr	amento City	CA	State	95822 Zip Code	916-808-6955 Telephone Number
	City		State	Σιρ code	dhenry@cityofsacramento.org E-mail
4.	Karl Brust	ad Name of Applicant's Represent		of <u>Peterson Brustad</u>	, Inc. Company
Fols	om	СА		95630	916-608-2212
	City		State	Zip Code	Telephone Number
					kbrustad@pbieng.com E-mail
5.	Endorseme	ent of the proposed project fr	om the Local Main	taining Agency (LMA	):
We, 1	he Trustees		Control District (AR	RFCD) approve this	s plan, subject to the following condition
	Conditio	ons listed on back of this forr	n 🗌 Con	ditions Attached	No Conditions
Tru	stee		Date	Trustee	Date
Tru	stee		Date	Trustee	Date

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### 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.

Name			Address	Zip Code		
See	e Att	achments for locations.				
				8		
7.	Ha Ac	s an environmental determination beer t of 1970?     ✔ Yes     [	n made of the proposed work under the Califorr	nia Environmental Quality		
lf y	/es c	r pending, give the name and address	of the lead agency and State Clearinghouse N	umber:		
Sac	ram	ento Area Flood Control Agency 10	007 7th St, Sacramento, CA 95814 SCH #2	2014052038		
SC	HN	D. <b>2014052038</b>				
8.	8. When is the project scheduled for construction? August 2019					
9.	Please check exhibits accompanying this application.					
	A. I Regional and vicinity maps showing the location of the proposed work.					
	B.	✓ Drawings showing plan view(s) of t	the proposed work to include map scale.			
	C.	✓ Drawings showing the cross sectio banks, flood plain,	on dimensions and elevations (vertical datum?)	of levees, berms, stream		
	D.	✓ Drawings showing the profile eleval	ations (vertical datum?) of levees, berms, flood	plain, low flow, etc.		
	E.	A minimum of four photographs de	picting the project site.			
<u>A sur</u>	nma	any additional information: ry of the project and a description of th plication is to permit the replacement c	e proposed methods are provided in the followi	ant ul 19 Date		

# Attachment A

#### SAFCA NORTH AREA STREAMS LEVEE IMPROVEMENT PROJECT 2019:

#### **CITY OF SACRAMENTO 18" CMP REPLACEMENT**

#### SUMMARY OF PROPOSED WORK

April 24, 2019

#### INTRODUCTION

The Sacramento Area Flood Control Agency (SAFCA) is proceeding with a 2019 construction project to finalize miscellaneous improvements that were not completed as part of the North Area Streams (NAS) Levee Improvement Project construction. An unpermitted 18" CMP culvert was identified in the field at STA 4076+60. This application is to replace this culvert per Title 23 guidance and procure a CVFPB encroachment permit.

#### LOCATION

This culvert is located within Sacramento County. The existing culvert provides local drainage for several nearby properties. The City of Sacramento is submitting this application to remove the existing CMP culvert and replace it with a 24" culvert with positive closures per Title 23 guidance.

	Levee Station		Latitude	
Location/Description		APN	Longitude	
18" CMP	4076+60	251-0301-010	38.626612, -121.443508	

#### DESCRIPTION

This utility is upstream of Rio Linda Blvd on the Arcade Creek South Levee. The 18" CMP will be removed and replaced with a 24" RCP as shown in Attachment B.

#### **ADJACENT PARCELS**

All of the parcels adjacent to the utilities to be modified are listed in the table presented below.

Accessor Parcel #	Address	Owner	Owner Address	City	Zip
25103010270000	981 Arcade Blvd	Barbara A. Engelhardt	No Address	Sacramento	95815
25103010260000	995 Arcade Blvd	Miguel A. Caro Jr & Sonya E. Cara	1108 Meadowlark Dr	Vacaville	95687
25103010320000	999 Arcade Blvd	Go Time Investments	8251 Alpine Ave	Sacramento	95826
25103010330000	1001 Arcade Blvd	Losimani & Akesiu Tupou	1001 Arcade Blvd	Sacramento	95815
25103010240000	1015 Arcade Blvd	Cc Investment Properties	374 Clarance Ave	Sunnyvale	94086
25103010230000	1025 Arcade Blvd	Gary & Judi Simmen	1025 Arcade Blvd	Sacramento	95815
25103010210000	Arcade Blvd	Kenneth G. Bell	P.O. Box 580441	Elk Grove	95758
25103010200000	1045 Arcade Blvd	Kenneth G. Bell	P.O. Box 580441	Elk Grove	95758
25103010110000	3273 Belden St	Annie A. Gutierrez	3273 Belden St	Sacramento	95815

Note that gaps exist in Townships and Ranges within the project area. Land not covered by T9N R5E has been in private ownership since before California joined the United States and therefore is not part of the Township and Range system, which was a survey of federal lands.

#### SITE PHOTOGRAPHS

Attached to this Summary of Proposed Work are photographs showing Arcade Creek Levee and channel areas representative of proposed work sites.



Figure 1. Landside slope on Arcade Creek south levee looking southeast



Figure 2. 18" CMP culvert along landside slope looking north

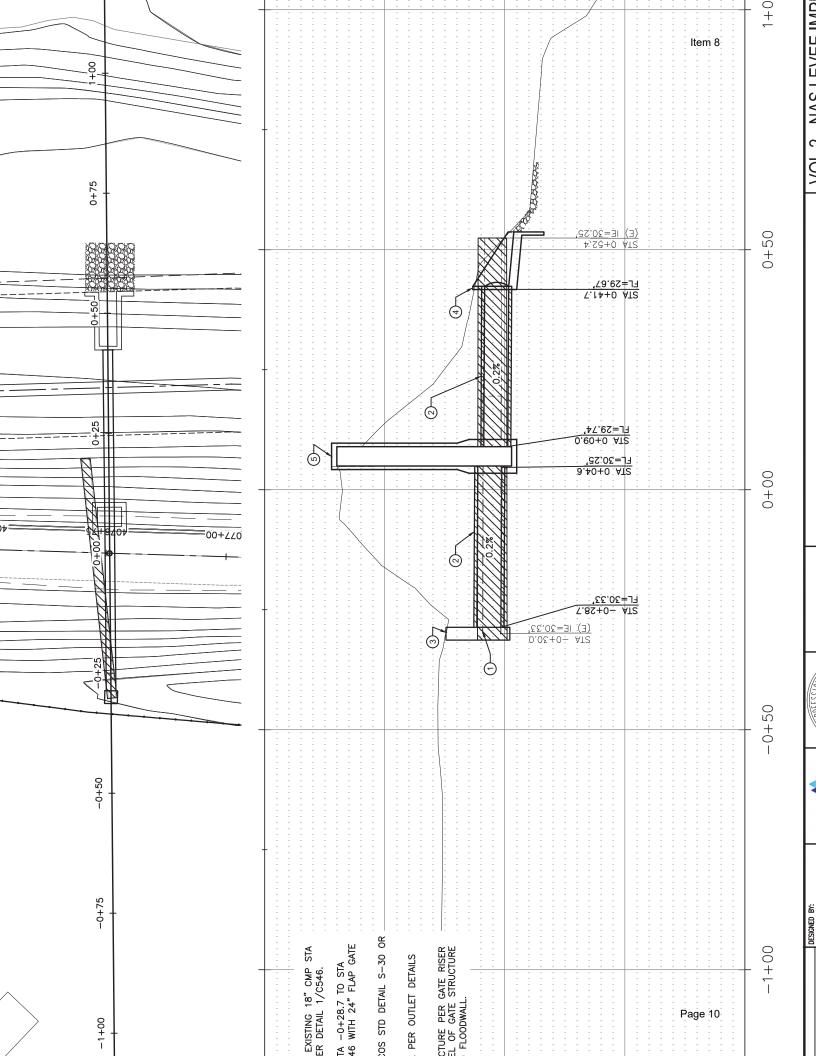


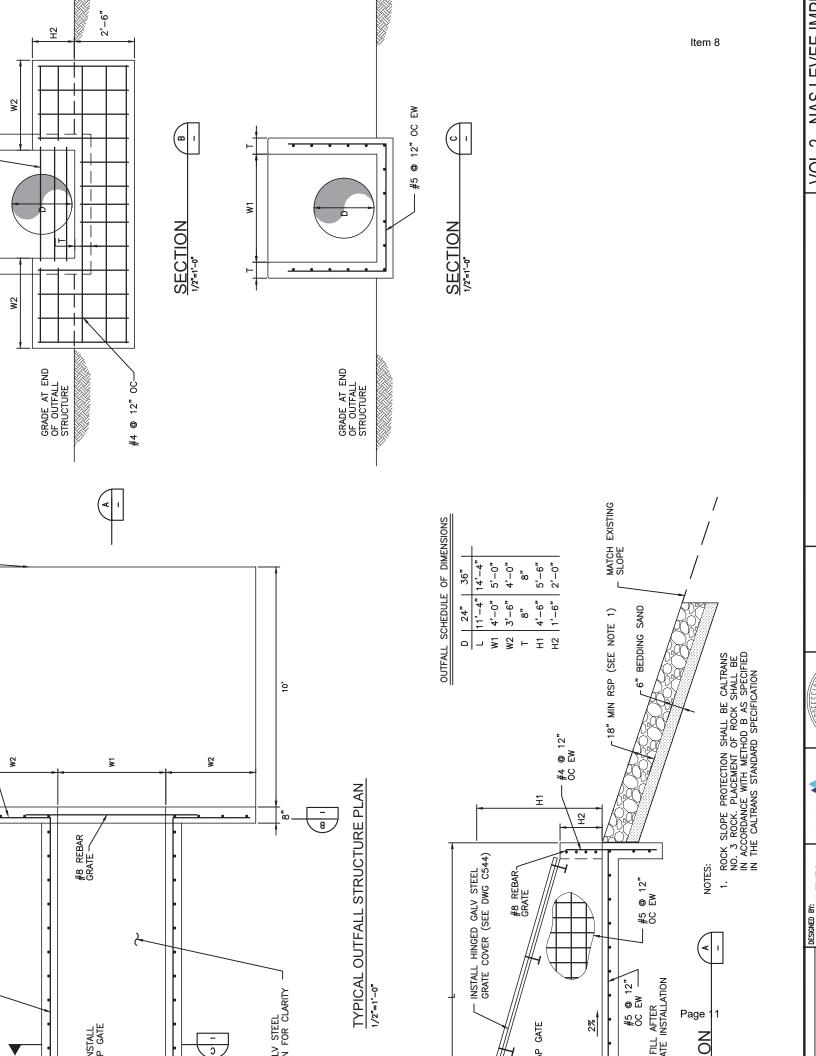
Figure 3. 18" CMP culvert along landside slope looking west

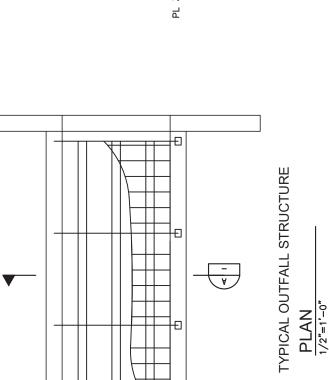


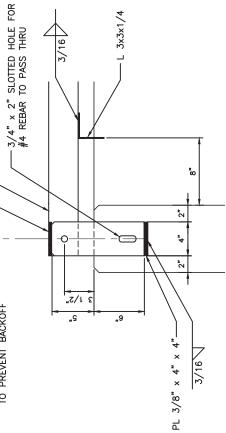
Figure 4. Closeup of 18" CMP culvert along waterside slope

# Attachment B



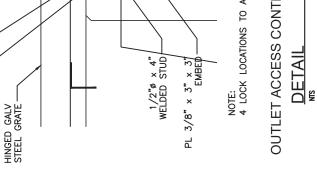


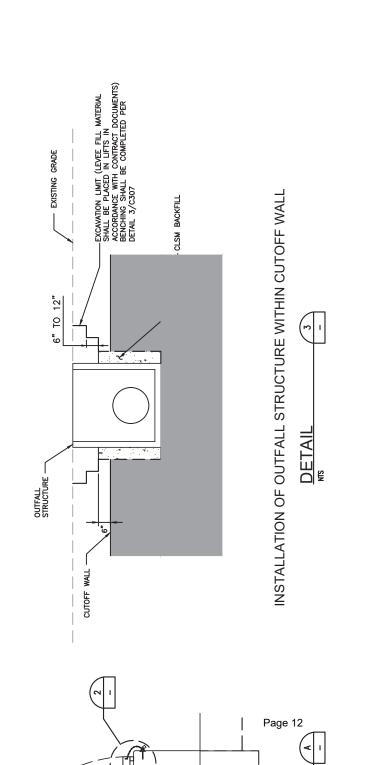




OUTLET ACCESS CONTROL RACK DETAIL

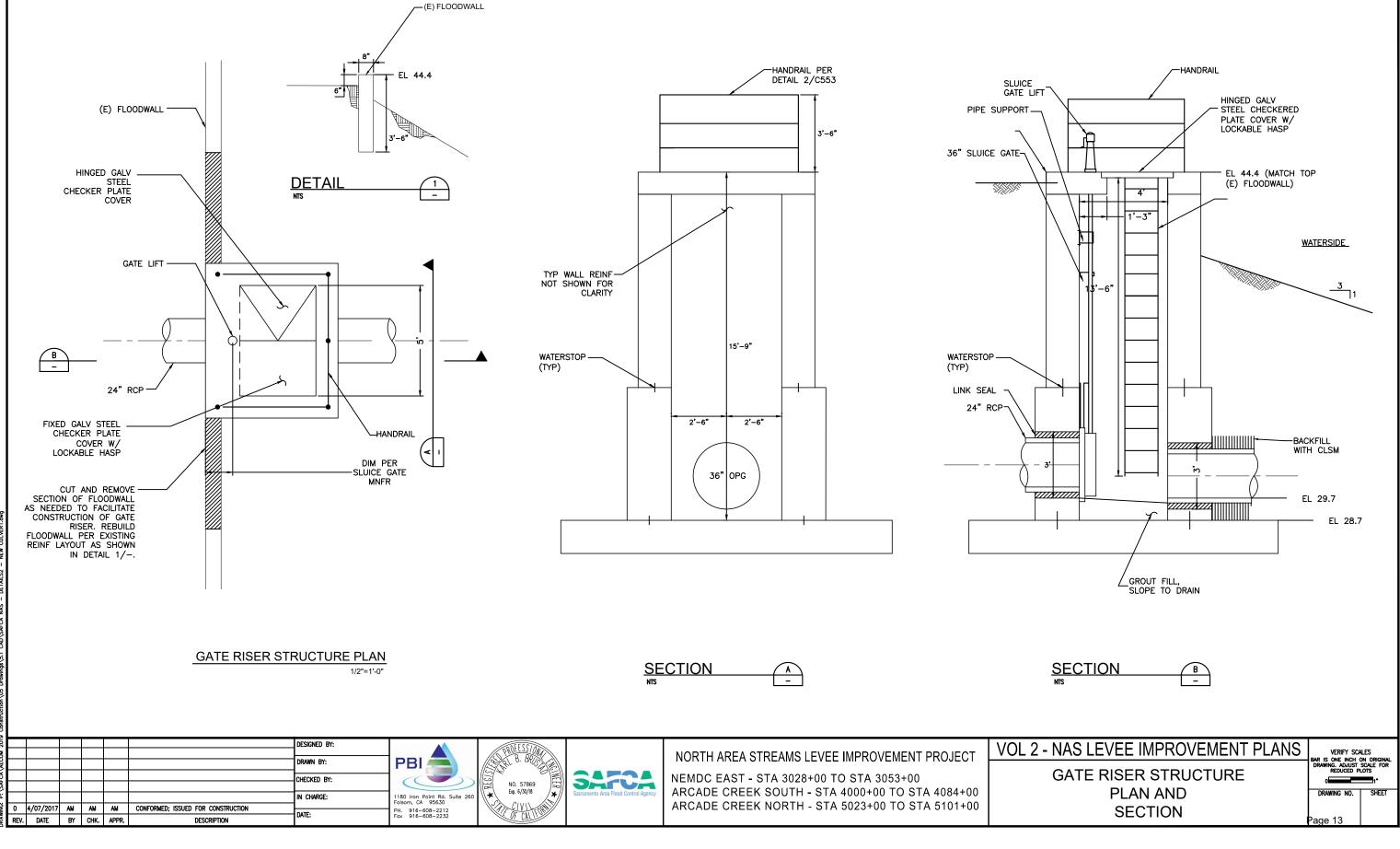
DETAIL MS





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DESIGNED BY:



. BY: BSALVADOR – Apr 08, 2019 – 10:04:19am WiG: P:\SAFCA\AECOM 2019 Construction\05 Drowings\5:1 CAD\SAFCA NAS – DETAILS2 – 1