

SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE  
MANUAL

SACRAMENTO RIVER  
FLOOD CONTROL PROJECT

UNIT NO. III  
EAST LEVEE OF SACRAMENTO RIVER  
FROM FREEPORT TO WALNUT GROVE



U. S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
SACRAMENTO, CALIFORNIA

CORPS OF ENGINEERS  
U. S. ARMY

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SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SACRAMENTO RIVER FLOOD CONTROL PROJECT

UNIT NO. 111  
EAST LEVEE OF SACRAMENTO RIVER  
FROM FREEPORT TO WALNUT GROVE

Sacramento District  
Corps of Engineers  
U. S. Army  
May 1959

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**SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SACRAMENTO RIVER FLOOD CONTROL PROJECT**

UNIT NO. 111

EAST LEVEE OF SACRAMENTO RIVER  
FROM FREEPORT TO WALNUT GROVE

LOCATION	ADDITION OR REVISION	DATE
1-04 i.	Add contract no. 64-51	Oct 1964
Exhibit B	Add drawing no. 50-4-3741	Oct 1964
Exhibit F	Add copy of letter of transfer dated 1 Oct 1964	Oct 1964
1-04 j.	Add contract no. 66-15	Dec 1966
Exhibit B	Add drawing no. 50-4-3848	Dec 1966
Exhibit F	Add copy of letter of acceptance dated 28 Jun 1966	Dec 1966
1-04 k.	Add contract no. 66-15	Dec 1966
Exhibit B	Add drawing no. 50-4-3848	Dec 1966
Exhibit F	Add letter of transfer dated 29 Nov 1966	Dec 1966
1-04 l.	Add contract no. 67-C-0027	Apr 1968
Exhibit B	Add drawing no. 50-4-4047	Apr 1968
Exhibit F	Add copy of letter of acceptance dated 7 Feb 1968	Apr 1968
1-04 m	Add contract no. DACW05-69-C-0064	Feb 1970
Exhibit B	Add drawing no. 50-4-4476	Feb 1970
Exhibit F	Add copy of letter of acceptance dated 13 Nov 1969	Feb 1970
1-04 n.	Add contract no. DACW05-69-C-0076	Dec 1970
Exhibit B	Add drawing no. 50-4-4283	Dec 1970
Exhibit F	Add copy of letter of acceptance dated 16 Sep 1970	Dec 1970
1-04 o.	Add contract no. DACW05-71-C-0021	Dec 1971
Exhibit B	Add drawing no. 50-4-4378	Dec 1971
Exhibit F	Add copy of letter of acceptance dated 9 Dec 1971	Dec 1971
2-01	Add subparagraph c	May 1972
1-04	Add subparagraph p	Apr 1973
Exhibit B	Add drawing no. 50-4-4487	Apr 1973
Exhibit F	Add copy of letter of acceptance dated 18 Dec 1972	Apr 1973
1-04	Add subparagraph q	Oct 1975
2-01	Revised subparagraph c	Oct 1975
Exhibit B	Add drawing no. 50-4-4687	Oct 1975
Exhibit F	Add copy of letters of acceptance dated 20 Sep 1973 and Feb 15 1973	Oct 1975
1-04	Add subparagraph r	Mar 1978
2-01	Delete subparagraph c	Mar 1978
2-05	Add environmental protection	Mar 1978
Exhibit B	Add drawing no. 50-4-4898	Mar 1978

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
Exhibit F	Add copy of letters of acceptance dated 29 Jan 1976 and 14 Dec 1976	Mar 1978
1-04	Add subparagraph s.	Sep 1983
Exhibit B	Add drawing no. 50-4-5347	Sep 1983
Exhibit F	Add copy of letters of transfer dated 5 Feb 1981, 7 Apr 1981, and 12 Dec 1978	Sep 1983
1-04	Add subparagraph t.	Aug 1990
Exhibit B	Add drawing no. 50-4-5697	Aug 1990
Exhibit F	Add copy of letter of transfer dated 13 Dec 1985	Aug 1990
Exhibit F	Add copy of letter of transfer dated 19 Jun 2001	20 Apr 2010
Exhibit F	Add copy of letter of transfer dated 10 Dec 1948	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 22 Dec 1948	16 Dec 2010
Exhibit F	Add copy of statement of completion dated 16 Jan 1950	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 19 Jan 1950	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 17 Nov 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 8 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 13 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 18 Dec 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 2 Apr 1952	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 16 Apr 1954	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 21 Jul 1955	16 Dec 2010
1-04	Add subparagraph u	16 Dec 2010
Exhibit B	Add drawing no. 50-25-5771	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 3 Feb 1987	16 Dec 2010
1-04	Add subparagraph v	16 Dec 2010
Exhibit B	Add drawing no. 50-04-6026	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 19 Jun 2001	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 11 Apr 2001 (RD 551)	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 11 Apr 2001 (RD 755)	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 23 Dec 1966	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 1 Feb 1968	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 30 Oct 1969	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 31 Aug 1970	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 23 Nov 1971	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 24 Nov 1972	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 15 Jan 1973	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 10 Sep 1973	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 15 Jan 1976	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 2 Dec 1976	7 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 22 Dec 1978	7 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 27 Feb 1981	7 Mar 2011

<b>LOCATION</b>	<b>ADDITION OR REVISION</b>	<b>DATE</b>
Exhibit F	Add copy of letter of acceptance dated 30 Apr 1981	7 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 18 Mar 1986	7 Mar 2011
1-04	Add subparagraph w	7 Mar 2011
Exhibit B	Add drawing no. 50-4-5784	7 Mar 2011
Exhibit F	Add copy of letter of transfer dated 16 Nov 1989	7 Mar 2011
1-04	Add subparagraph x	31 Mar 2016
2-05	Add subparagraph b	31 Mar 2016
Exhibit B	Add drawing 50-4-6338	31 Mar 2016
Exhibit H	Add copy of USFWS Biological Opinion dated 19 Jun 2012	31 Mar 2016
Exhibit A	Add Exhibit A-2 Willow Planting Map	31 Mar 2016
Exhibit F	Add copy of letter of transfer dated 15 Jul 2016	19 Jul 2016
Exhibit F	Add copy of letter of transfer dated 29 Dec 2016	29 Dec 2016

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A-1	Location Map	1 Sheet
A-2	Willow Planting Map	Sheets 1 of 3
B	“As Constructed” Drawings	Unattached
C	Plates of Suggested Flood Fighting Methods (Contained in Standard Manual)	Unattached
D	Check List No. 1 – Levee Inspection Report (Contained in Standard Manual)	Unattached
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SUPPLEMENT TO STANDARD  
OPERATION AND MAINTENANCE MANUAL  
SACRAMENTO RIVER FLOOD CONTROL PROJECT

UNIT NO. 111  
EAST LEVEE OF SACRAMENTO RIVER  
FROM FREEPORT TO WALNUT GROVE

SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the Sacramento River Flood Control Project which comprises the levee and channel along the east side of the Sacramento River from the north boundary of Reclamation District No. 744 near Freeport, California to the south boundary of Reclamation District No. 554 at the head of Georgiana Slough near Walnut Grove, California. The levee of this unit lies within Reclamation Districts No. 744, 745, Edinger-Johnston Tract, 746, 813, 755, 551, 369 and 554 as shown on the location map, Exhibit A-1.

1-02. Protection Provided. The levee of this unit is an essential feature of the Sacramento River Flood Control Project. It provides direct protection to the towns of Hood, Courtland, Locke and Walnut Grove, California and to adjacent agricultural lands, against floodwaters of the Sacramento River. The grade of the adopted flood plane profile in the Sacramento River varies from elevation 28.7 at the north boundary of Reclamation District No. 744 (mile 44.6) to elevation 19.1 at the head of Georgiana Slough (mile 26.45). Elevations are referred to U.S. Corps of Engineers datum. This reach of the Sacramento River from Freeport to the head of Sutter Slough has a project design capacity of 110,000 cubic feet per second; from the head of Sutter Slough to the head of Steamboat Slough the project design capacity is 84,500 cubic feet per second and from the head of Steamboat Slough to the head of Georgiana Slough the project design capacity is 56,500 cubic feet per second. The levee provides for a freeboard of at least 3 feet above the adopted flood plane profile within this unit.

1-03. Project Works. The flood control improvement covered by this manual is a part of the Sacramento River Flood Control Project authorized by the Flood Control Act of 1917, as modified by the Acts of 1928, 1937 and 1941, and consists of the east levee (left bank) and channel of the Sacramento River from mile 44.6 to mile 26.45, a distance of 18.15 miles. The above described levee has been constructed by local interests and portions as shown on the drawings of Exhibit B were enlarged, set back or repaired by the Corps of Engineers to project standards.

1-04. Construction Data and Contractor. Construction required by the Corps of Engineers to bring levees of this unit to project

standards and to perform repair work to locally built levees was accomplished under the following job orders and contracts:

- a. Bank protection work on the east levee of the Sacramento River at mile 27.1 was completed on 19 May 1941 under Job Order No. 646. Drwg. 50-4-1854.
- b. Bank protection work on the east levee of the Sacramento River at mile 36.2 was completed on 31 December 1943 under Job Order No. 913. Drwg. 6-4-1601.
- c. Bank protection work on the east levee of the Sacramento River at mile 36.4 was completed on 14 December 1945 under Job Order No. 1041. Drwg. 6-4-1583.
- d. Bank protection work on the east levee of the Sacramento River at mile 41.0 was completed on 20 January 1947 under Job Order No. 1093. Drwg. 6-4-1603.
- e. Bank protection work on the east levee of the Sacramento River at mile 35.5, Part "B" was accomplished under Contract No. W-04-167-eng-1371 by A. Teichert & Son, Inc., during the period from 22 December 1947 to 13 November 1948. Drwg. 50-4-2371.
- f. Bank protection work on the east levee of the Sacramento River at mile 35.7 was accomplished under Contract No. W-04-167-eng-1570 by H. Earl Parker, Inc., and completed on 30 December 1949. Spec. 1355, Drwg. 50-4-2531.
- g. Emergency bank repairs on the east levee of the Sacramento River at miles 43.25 and 43.75 was accomplished under Contract No. DA-04-167-eng-927 by Basalt Rock Co., Inc., during the period from 6 March 1953 to 25 March 1953. Spec. 1735A, Drwg. 50-4-2925.
- h. Levee construction and bank protection work along the east levee of the Sacramento River at 27 sites between Freeport and Georgiana Slough was accomplished under Contract No. DA-04-167-eng-1166 by Basalt Rock Co., Inc., during the period from 1 July 1954 to 19 September 1955. Spec. 1844, Drwg. 50-4-2983.
- i. Stone protection at various locations between Sacramento and Rio Vista (Contract No. 2) was accomplished under Contract No. DA-04-167-CIVENG-64-51 by Peter L. Ferry and Son during the period from 17 December 1963 to September 1964, Specification No. 2957, Drawing No. 50-4-3741.
- j. Stone protection on the left bank of the Sacramento River (Miles 28.7 and 28.2) was accomplished under Contract No. DA-04-167-CIVENG-66-15 by Elmer G. Wendt, Inc. during the period from 9 August 1965 to 25 April 1966. Specification No. 3058, Drawing No. 50-4-3848 (Contract No. 6).
- k. Bank protection at various locations along the left bank of the Sacramento River from Freeport to Walnut Grove (Unit No. 6) was accomplished under Contract No. DA-

04-167-CIVENG-66-15 by Elmer G. Wendt, Inc. during the period from 9 August 1965 to 9 November 1966. Specification No. 3058, Drawing No. 50-4-3848.

l. Stone protection at various sites along the Sacramento River between Sacramento and Rio Vista (Unit No. 11) was accomplished under Contract No. DACW05-67-C-0027 by Basalt Rock Company, Inc., during the period from 7 November 1966 to 29 February 1968. Specification No. 3157, Drawing No. 50-4-4047.

m. Stone protection on the left bank of the Sacramento River at Site Miles 28.1 and 30.4 was accomplished under Contract No. DACW05-69-C-0064 by James L. Ferry & Son during the period from 26 May 1969 to 20 October 1969. Specification No. 3649, Drawing No. 50-4-4476.

n. Stone protection on the left bank of the Sacramento River at Site Miles 28.4, 32.2, 33.0, 37.6, 37.75 and 39.2 (a portion of Unit No. 15, Sacramento River Bank Protection Project) was accomplished under contract No. DACW05-69-C-0076 by Eugene Luhr and Company during the period from 14 June 1969 to 25 August 1970. Specification No. 3349, Drawing No. 50-4-4283.

o. Bank sloping and stone protection on the left bank of the Sacramento River at Site Miles 30.4, 35.2, 42.0, and 42.9 (a portion of Unit No. 19, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-71-C-0021 by James L. Ferry and Son during the period from 26 August 1970 to 20 December 1971. Specification No. 3427, Drawing No. 50-4-4378.

p. Stone protection, selective clearing and levee bank sloping on the left bank of the Sacramento River at Site Miles 26.5, 28.0, 33.6, 34.7, 38.7, and 43.1 (a portion of Unit No. 21, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-72-C-0046 by Eugene Luhr and Company during the period from 31 January 1972 to 5 January 1973. Specification No. 3680, Drawing No. 50-4-4487.

q. Stone protection, selective clearing and levee bank sloping on the left bank of the Sacramento River at Site Miles 27.5, 29.7 and 44.1 (a portion of Unit No. 23, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-73-C-0012 by James L. Ferry and Son during the period from 1 August 1972 to 10 July 1974. Specification No. 4041, Drawing No. 50-4-4687.

r. Stone protection, selective clearing and levee bank sloping on the left bank of the Sacramento River at Site Miles 26.4, 26.7, 27.2, 32.1, 34.1, (40.3 irrigation facility), and 41.6 (a portion of Unit No. 28, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-76-C-0015 by James L. Ferry and Son during the period from 25 August 1975 to 27 December 1976. Specification No. 4559, Drawing No. 50-4-4898.

s. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Miles 27.8, 29.8, 32.5, 34.1, 34.5 and 36.7 (a portion of Unit 33) was accomplished under Contract No. DACW05-77-C-0101 by Dutra Construction Company, Inc. Construction was completed on 12 October 1980, Specification No. 5269, Drawing No. 50-4-5347.

t. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River Site Miles 40.0, 36.2, and 36.0 and the left bank of Georgiana Slough Site Mile 12.1 (a portion of Contract 37) was accomplished under Contract No. DACW05-84-C-0104 by Roy D. Garren Corp. Construction was completed on 6 December 1985. Specification No. 7014, Drawing No. 50-4-5697.

u. Emergency repairs to a project levee along the left bank of the Sacramento River in Maintenance Area 9 was completed on 5 November 1986 under Contract No. DACW05-86-C-0112, Drawing No. 50-25-5771.

v. Emergency repairs to the east levee of the Sacramento River at 21 sites from Levee Miles 2.15 to 6.02 in R.D. 551, and 11 sites from Levee Miles 0.15 to 1.89 in R.D. 755, was completed on 11 October 1997 by Clemens Construction under Contract No. DACW05-97-C-0134. Specification No. 9869E, Drawing No. 50-04-6026.

w. Bank sloping and stone protection on the left bank of the Sacramento River, Site Miles 33.3 and 36.1 was completed on 8 November 1989 under Contract No. DACW05-89-C-0037 by J.E. Mc Amis, Inc.. Specification No. 8259, Drawing No. 50-4-5784.

x. Willow poles were planted as part of mitigation efforts required under consultation with the U.S. Fish and Wildlife Service (08FBDT00-2012-I-0021) for construction effects on endangered species as a result of PL 84-99 repair efforts. The work was accomplished by Erick Ammon Inc. under Contract No. W91238-12-C-0048 and W91238-14-P-0091, Drawing No. 50-4-6338. The work was completed Feb 2015. As constructed drawings are contained in Exhibit B. The USFWS Biological Opinion is contained in Exhibit H.

1-05. Flood Flows. For purposes of this manual, the term "flood" or "high water period" shall refer to flows when the water surface reaches or exceeds a reading of 17.0 on the Department of Water Resources continuous water stage recorder and staff gage located on the left bank of the Sacramento River one-quarter mile upstream from the head of Snodgrass Slough. Gage set at 0.0 feet U. S. Corps of Engineers datum and minus 3.02 feet, U.S.G.S. datum. Also when water surface in the Sacramento River reaches or exceeds the reading of 10.0 on the Department of Water Resources continuous water stage recorder and staff gage located on the left bank of the Sacramento River at Walnut Grove immediately upstream from the head of Georgiana Slough. Gage set with 0.0 at elevation 2.84 feet U. S. Corps of Engineers datum and 0.0 feet U.S.G.S. datum.

1-06. Assurances Provided by Local Interests. Assurances of cooperation by local interests is provided by State Legislation, as contained in Chapter 3, Part 2, Division 5 of the State Water Code (see paragraph 2-02a of the Standard Manual).

1-07. Acceptance by and Transfer to the State Reclamation Board. Responsibility for operating and maintaining portions of Unit No. 111 was officially accepted by the Reclamation Board of the State of California on 2 January 1952, 3 April 1953 and 4 December 1953. The remaining portions of this completed unit were transferred to the State Reclamation Board by letters dated 14 July 1955, 5 August 1955 and 23 September 1955, all as shown on copies of letters of acceptance and transfer, Exhibit F.

1-08. Superintendent. The name and address of the Superintendent appointed by local interests, to be responsible for the continuous inspection, operation, and maintenance of the project works shall be furnished the District Engineer, and in case of any change of Superintendent, the District Engineer shall be so notified.

SECTION II

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levee.

a. Description. The levee along the left bank of the Sacramento River is located as described in paragraphs 1-01 and 1-03 of this manual. A paved county road traverses the crown of the levee from Walnut Grove to Courtland and State Highway No. 24 is located on the crown of the levee for most of the distance from Courtland to Freeport. For more complete detail in construction of the above-mentioned levee, refer to the "As Constructed" drawings of Exhibit B.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements see the following:

- (1) Maintenance - paragraph 4-02 of the Standard Manual.
- (2) Check Lists - Exhibit E of this Supplement Manual.
- (3) Operation - paragraph 4-04 of the Standard Manual.
- (4) Special Instructions - paragraph 4-05 of the Standard Manual.

<sup>c</sup> 2-02. Drainage and Irrigation Structure.

a. Description. Drainage and irrigation structures which extend through the levee are located and described as follows:

Location:	:	:	:	:	:
River	Size	Gate	Location:	Other Structure Description	Invert - Ft. below Crown
Mileage	of Pipe	:	:	:	:
44.59	12"	--	Pump R.S.	R.D. 744	5.0
44.50	6"	--	Pipe capped		
			on R.S.	R.D. 744	20.5
44.42	8"	L.S.	Pump L.S.	R.D. 744	15.7
44.41	7"	L.S.-R.S.	Pumphouse L.S.	R.D. 744	15.7
44.25	6"	R.S.	Pump L.S.	R.D. 744	16.5
44.15	2-6"	L.S.	Pumphouse L.S.	R.D. 744	15.6
43.98	6"	R.S.	Pump L.S.	R.D. 744	11.5
43.79	6"	L.S.	Pump R.S.	R.D. 744	9.5
43.50	6"	R.S.	Pump R.S.	R.D. 744	
43.43	5"	L.S.-R.S.	Pump R.S.	R.D. 744	14.4
43.09	6"	R.S.	Pumphouse R.S.	R.D. 744	21.7
42.54	10"	--	Pipe plugged		
			with concrete	R.D. 744	6.8

Deleted  
Mar 1978

~~c. Environmental values. Vegetation preserved as a part of selective clearing on the waterside berm or slope above the bank protection during prosecution of the contract shall not be removed as a part of normal maintenance as long as it remains alive and in a healthy state.~~

Drainage and Irrigation Structures (Cont'd)

Location:	:	:	:	:	:
River	Size	Gate			Invert - Ft.
Mileage	of Pipe	Location:	Other Structure	Description	below Crown
44.36	10"	L.S.-R.S.	Pump R.S.	R.D. 744	7.8
42.13	12"	--	Pipe plugged		
			with concrete	R.D. 744	4.0
41.94	10"	S.S.	Pumphouse R.S.	R.D. 744	5.2
41.54	6"	--	Pump R.S.	R.D. 744	4.6
41.52	6"	R.S.	Pump R.S.	R.D. 744	6.1
41.16	12"	--	Plate welded		
			on R.S. end	R.D. 744	9.5
41.15	8"	--	Pump R.S.	R.D. 744	10.5
40.80	6"	L.S.	Pumphouse L.S.	R.D. 744	8.4
40.71	8"	R.S.	Pump R.S.	R.D. 745	12.7
40.34	12"	L.S.	Pumphouse L.S.	R.D. 745	17.0
40.09	8"	R.S.	Pumphouse R.S.	R.D. 745	12.7
39.99	8"	R.S.	Pumphouse R.S.		
			Edinger-Johnston Tract		13.3
39.72	8"	R.S.	Pumphouse R.S.		
			Edinger-Johnston Tract		11.8
39.06	9"	--	Vert. pump on pile structure:		
			Edinger-Johnston Tract		15.8
38.68	8"	--	Pumphouse R.S.		
			Edinger-Johnston Tract		6.8
38.51	12"	--	Wood cap R.S.		
			Edinger-Johnston Tract		8.2
38.49	8"	--	Pumphouse R.S.		
			Edinger-Johnston Tract		6.0
38.43	6"	--	Pipeline for fire protection:		
			Edinger-Johnston Tract		--
38.21	14"	L.S.	Pumphouse L.S.	R.D. 746	11.0
38.21	2 1/2"	--	--	R.D. 746	8.2
38.21	6"	--	--	R.D. 746	7.0
37.81	12"	--	--	R.D. 746	6.9
37.81	6"	--	--	R.D. 746	6.9
37.74	14"	--	--	R.D. 746	10.2
37.74	6"	R.S.	Pump R.S.	R.D. 746	9.5
37.69	10"	L.S.	Pump L.S.	R.D. 813	8.8
37.60	10"	L.S.	Pump R.S.	R.D. 813	13.2
37.60	2"	L.S.	Pump R.S.	R.D. 813	13.2
37.32	6"	R.S.	Pump R.S.	R.D. 813	6.7
37.19	10"	L.S.	Pumphouse L.S.	R.D. 813	11.8
37.16	5"	--	--	R.D. 813	12.8
36.88	12"	--	--	R.D. 813	5.0
36.88	10"	--	--	R.D. 813	5.0
36.78	3"	R.S.	Pump R.S.		
			(Domestic)	R.D. 813	2.2

Drainage and Irrigation Structures (Cont'd)

Location:	:	:	:	:	:	:
River	Size	Gate				Invert - Ft.
Mileage	of Pipe	Location:	Other Structure	Description		below Crown
36.60	14"	R.S.	Pumphouse	R.S.	R.D. 755	4.2
36.51	6"	--	--	--	R.D. 755	--
36.42	12"	--	Pump	R.S.	R.D. 755	4.2
36.01	12" & 4"	L.S.	Pump	L.S.	R.D. 755	--
36.01	12"	L.S.	Pump	L.S.	R.D. 755	--
35.90	14"	--	--	--	R.D. 755	8.0
35.90	14"	--	Pump	R.S.	R.D. 755	4.5
35.89	24"	--	--	--	R.D. 755	8.0
35.88	18"	--	--	--	R.D. 755	4.5
35.76	10"	L.S.	Pump	L.S.	R.D. 755	--
35.66	10"	--	Pump	R.S.	R.D. 755	5.6
35.55	12"	--	Siphon	--	R.D. 755	5.0
35.47	8"	R.S.	Pumphouse	R.S.	R.D. 755	5.7
35.02	14"	--	Pump	R.S.	R.D. 551	8.5
34.75	10"	L.S.	Pumphouse	L.S.	R.D. 551	--
34.49	4"	R.S.	--	--	R.D. 551	9.3
34.15	6"	R.S.	Pump	R.S.	R.D. 551	5.7
33.91	14"	R.S.	Pump	R.S.	R.D. 551	7.2
33.90	12"	R.S.	Pump	R.S.	R.D. 551	7.8
33.29	10"	--	Pump	R.S.	R.D. 551	6.8
33.02	8"	R.S.	Pumphouse	R.S.	R.D. 551	4.7
32.78	14"	--	Pump	L.S.	R.D. 551	6.5
32.78	10"	--	--	--	R.D. 551	9.8
32.56	4"	R.S.	Pumphouse	R.S.	R.D. 551	7.2
32.38	12"	R.S.	Pump	R.S.	R.D. 551	5.0
32.04	12"	--	Pump	R.S.	R.D. 551	8.0
31.82	10"	--	--	--	R.D. 551	8.2
31.82	12"	--	Pump	R.S.	R.D. 551	6.0
31.38	12"	--	Pump	R.S.	R.D. 551	6.0
31.26	8"	R.S.	Pump	R.S.	R.D. 551	6.7
30.76	8"	R.S.	Pump	R.S.	R.D. 551	6.7
30.75	10"	--	Pump	R.S.	R.D. 551	7.8
30.75	14"	--	Pump	R.S.	R.D. 551	8.2
30.31	6" & 10"	--	Pump	R.S.	R.D. 551	6.5
30.15	10"	--	--	--	R.D. 551	--
29.95	12"	--	--	--	R.D. 551	4.0
29.79	16"	R.S.	Pumphouse	R.S.	R.D. 551	5.3
29.79	16"	R.S.	Pumphouse	R.S.	R.D. 551	5.0
29.71	6"	R.S.	Pump	R.S.	R.D. 551	6.5
29.52	9"	R.S.	Pump	R.S.	R.D. 551	7.7
29.20	4" & 6"	R.S.	Pump	R.S.	R.D. 551	7.4
29.03	6"	--	Pump	R.S.	R.D. 551	7.2
28.97	8"	--	--	--	R.D. 551	4.4
28.87	10"	R.S.	Pump	R.S.	R.D. 551	3.8
28.87	2"	--	Domestic	--	R.D. 551	3.0
28.59	3 1/2"	--	--	--	R.D. 551	5.8

Drainage and Irrigation Structures (Cont'd)

Location: River Mileage	Size of Pipe	Gate Location	Other Structure	Description	Invert - Ft. below Crown
28.59	8"	--	Pump R.S.	R.D. 551	5.4
28.44	3½"	--	--	R.D. 551	6.3
28.44	8"	--	Pump R.S.	R.D. 551	6.3
28.27	12" & 14"	R.S.	Pump R.S.	R.D. 551	7.0
28.23	2½"	--	--	R.D. 551	--
28.06	6"	R.S.	Pump R.S.	R.D. 551	7.7
28.87	4"	--	--	R.D. 369	--
27.63	10"	R.S.	Pump R.S.	R.D. 369	3.8
27.51	6"	R.S.	Pump R.S.	R.D. 369	--
27.20	3-3"	--	St. Oil Co. Fuel Lines	R.D. 554	2.7
27.17	4"	--	--	R.D. 554	--
27.09	--	L.S.	Delta Cross Canal Radial Gates	R.D. 554	--
27.00	6"	--	--	R.D. 554	1.0
26.75	2-6"	--	--	R.D. 554	5.5
26.75	6"	--	--	R.D. 554	10.5
26.75	4"	--	--	R.D. 554	13.3
26.66	2"	--	Pump L.S.	R.D. 554	2.1
26.66	8"	--	Pump L.S.	R.D. 554	9.8
26.50	2-4"	--	Vitrified Clay Sewer Pipe	R.D. 554	10.2
26.37	3"	--	Pump R.S. Fire Protection	R.D. 554	5.2
26.35	7"	R.S.	Pump R.S.	R.D. 554	4.0
26.10	8"	R.S.	Pump R.S.	R.D. 554	3.7

Note on abbreviations:

L.S. = Landside  
R.S. = Riverside

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

- (1) Maintenance - paragraph 5-02 of the Standard Manual.
- (2) Check Lists - Exhibit E of this Supplement Manual.
- (3) Operation - paragraph 5-04 of the Standard Manual.
- (4) Additional Requirements - paragraph 5-05 of the Standard Manual.
- (5) Safety Requirements - paragraph 5-06 of the Standard Manual.

## 2-03. Channel.

a. Description. The floodway of the Sacramento River within this unit is confined between levees along both banks and the width between levees varies from about 500 feet on the upper end to 400 feet on the lower end. The project design capacity of the channel is as indicated in paragraph 1-02 of this manual.

Since the channel of the Sacramento River within this unit is utilized for navigable purposes, the responsibility for inspection, maintenance and operation of the channel shall be limited to flood control.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

- (1) Maintenance - paragraph 6-02 of the Standard Manual.
- (2) Check Lists - Exhibit E of this Supplement Manual.
- (3) Operation - paragraph 6-04 of the Standard Manual.
- (4) Safety Requirements - paragraph 6-05 of the Standard Manual.

It shall be the duty of the Superintendent to maintain a patrol of the project works during all periods of flood in excess of a reading of 17.0 on the gage near Snodgrass Slough and a reading of 10.0 on the gage at Walnut Grove as indicated in paragraph 1-05 of this manual. The Superintendent shall dispatch a message by the most suitable means to the District Engineer whenever the water surface near Snodgrass Slough and Walnut Grove reaches the gage readings indicated above and record the time of observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-05 of the Standard Manual.

## 2-04. Miscellaneous Facilities.

a. Description. Miscellaneous structures or facilities which were constructed as a part of, or existed in conjunction with, the protective works, and which might affect their functioning, include the following:

- (1) Bridges.
  - (a) A bascule bridge (Paintersville) crossing the Sacramento River near Courtland at approximate river mile 33.4.
  - (b) A bascule bridge crossing the Sacramento River at Walnut Grove at approximate river mile 26.7.

(1) Utility Relocation. Because of the nature of the construction of the levee by local interests, no records of any utility relocations are available.

(2) Wharves.

(a) Warehouse and railroad track at Hood at approximately river mile 38.4.

(b) Dock and miscellaneous buildings including an oil storage dock at approximate river mile 34.4.

(c) Old Dock at approximate river mile 32.5.

(d) Old burned out dock at approximate river mile 29.9.

(e) Dock and miscellaneous warehouses including an oil storage dock at Locke at approximate river mile 27.4.

(3) Hydrographic Facility.

(a) A continuous water stage recorder and staff gage located on the left bank of the Sacramento River near Snodgrass Slough. This gage to be maintained by the State Department of Water Resources.

(b) A continuous water stage recorder and staff gage located on the left bank of the Sacramento River at Walnut Grove. This gage to be maintained by the State Department of Water Resources.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

(1) Maintenance – paragraph 7-02 of the Standard Manual.

(2) Check Lists – paragraph 7-03 of the Standard Manual.

(3) Operation – paragraph 7-04 of the Standard Manual.

2-05. Environmental Protection.

a. Vegetation left during construction on the waterside berm or slope above the bank protection shall not be removed under normal maintenance. Dead trees with wildlife value will be retained except where they are a hazard to existing flood control works. \*

b. For locations with a vegetation variance zone designation in Exhibit A-2:

(1) The vegetation variance zone is defined as the levee prism plus 15 feet extending beyond the levee toes for a height of eight feet vertically. Laterally, the vegetation variance zone extends the distance of the willow planting site. Arroyo and Sandbar willow species planted within the vegetation variance zone, identified in Exhibit A-2, will be permitted to grow without intervention until the willows meet the following:

(a) reach between two and four inches in diameter as measured 12 inches above the ground. Willow trunks shall be severed 12 inches above ground when between two and four inches. Willows shall not be permitted to grow in diameter greater than

four inches when measured 12 inches above the ground. Decaying willow stumps within the vegetation variance zone shall not be removed to minimize disturbance to the riprap structure and adjacent willows. Care should be taken to minimize disturbance to the riprap structure during maintenance.

(b) impair visibility of the levee toe as detailed in the as-constructed drawings. When visibility of the toe is impaired or lost, willow branches shall be trimmed vertically from the ground up at the levee toe until the toe is visible for inspection. Vertical trimming shall not exceed eight feet in height from the ground up and will not be trimmed in such a way that threatens their survival (i.e. 'heading'. Trimming branches shorter or higher than what is reasonably necessary to monitor and inspect). This trimming is necessary to ensure an adequate access corridor without unnecessarily over trimming the willows.

(2) When maintained in accordance with this section of the O&M manual, the sponsor is not obligated to replant willow poles in the vegetation variance zone that do not survive.

(3) In the vegetation variance zone, only O&M manual compliant vegetation, arroyo and sandbar willows are allowed. The arroyo and sandbar willows shall be maintained such that the vegetation does not grow beyond the boundaries of the vegetation variance zone.

(4) The riprap placed below the planting shall be visually inspected to ensure no erosion, settling or scouring has occurred. If visual inspection is not possible, then hydrographic surveys or mechanical probing from the waterside by either waders or by boat shall be conducted. Examples of waterward soundings are included in Engineering Manual 1110-2-1003 or the most current USACE publication regarding hydrographic surveying. Repair of riprap shall be conducted in accordance with normal maintenance standards.

### SECTION III

#### REPAIR OF DAMAGE TO PROJECT WORKS AND

#### METHODS OF COMBATING FLOOD CONDITIONS

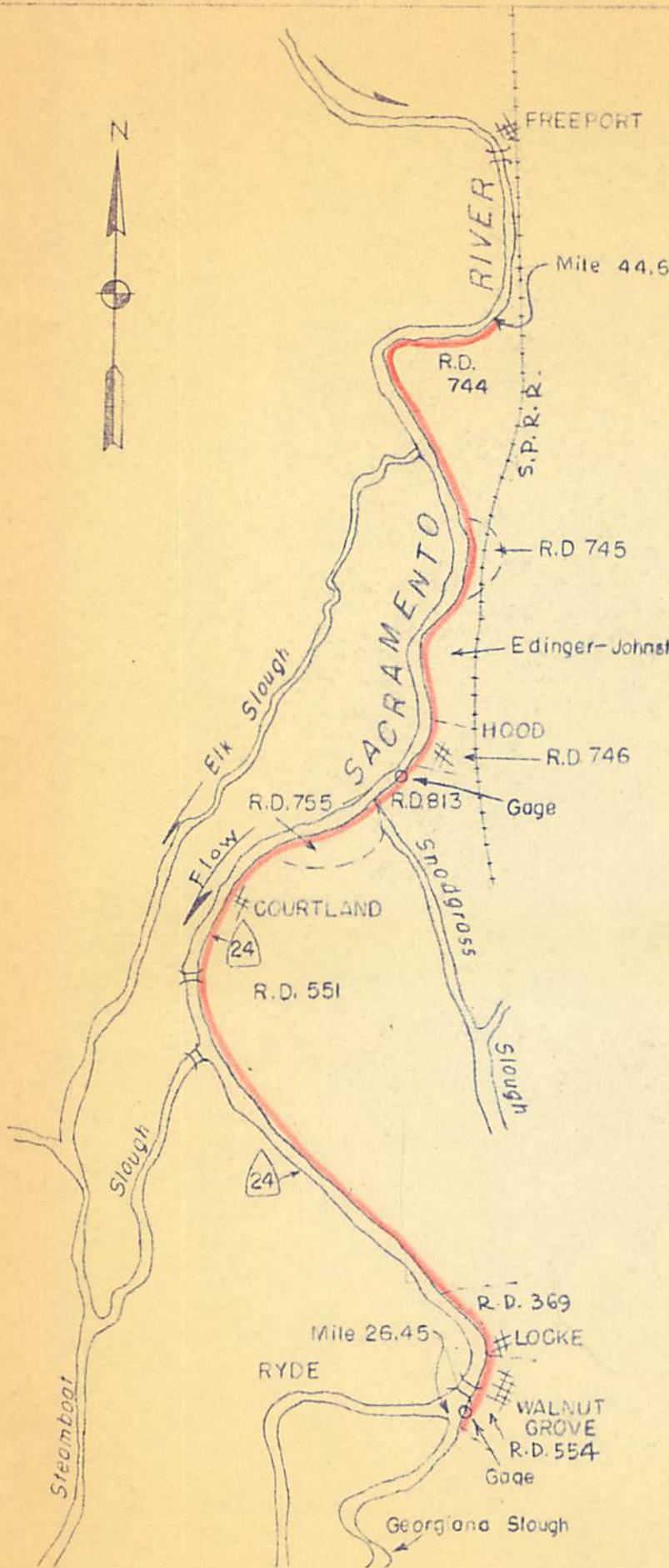
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Department of Water Resources, State of California, who coordinates maintenance of project works of the Sacramento River Flood Control Project. The State representative will give assistance or advice, or will determine appropriate action to be taken.

3-02. Applicable Methods of Combating Floods. For applicable methods of combating flood conditions, reference is made to Section VIII of the Standard Operation and Maintenance Manual, revised May 1955, where the subject is fully covered.

EXHIBIT A

FLOOD CONTROL REGULATIONS  
(See Standard Manual)

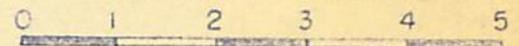
EXHIBIT A  
Unattached



LEGEND

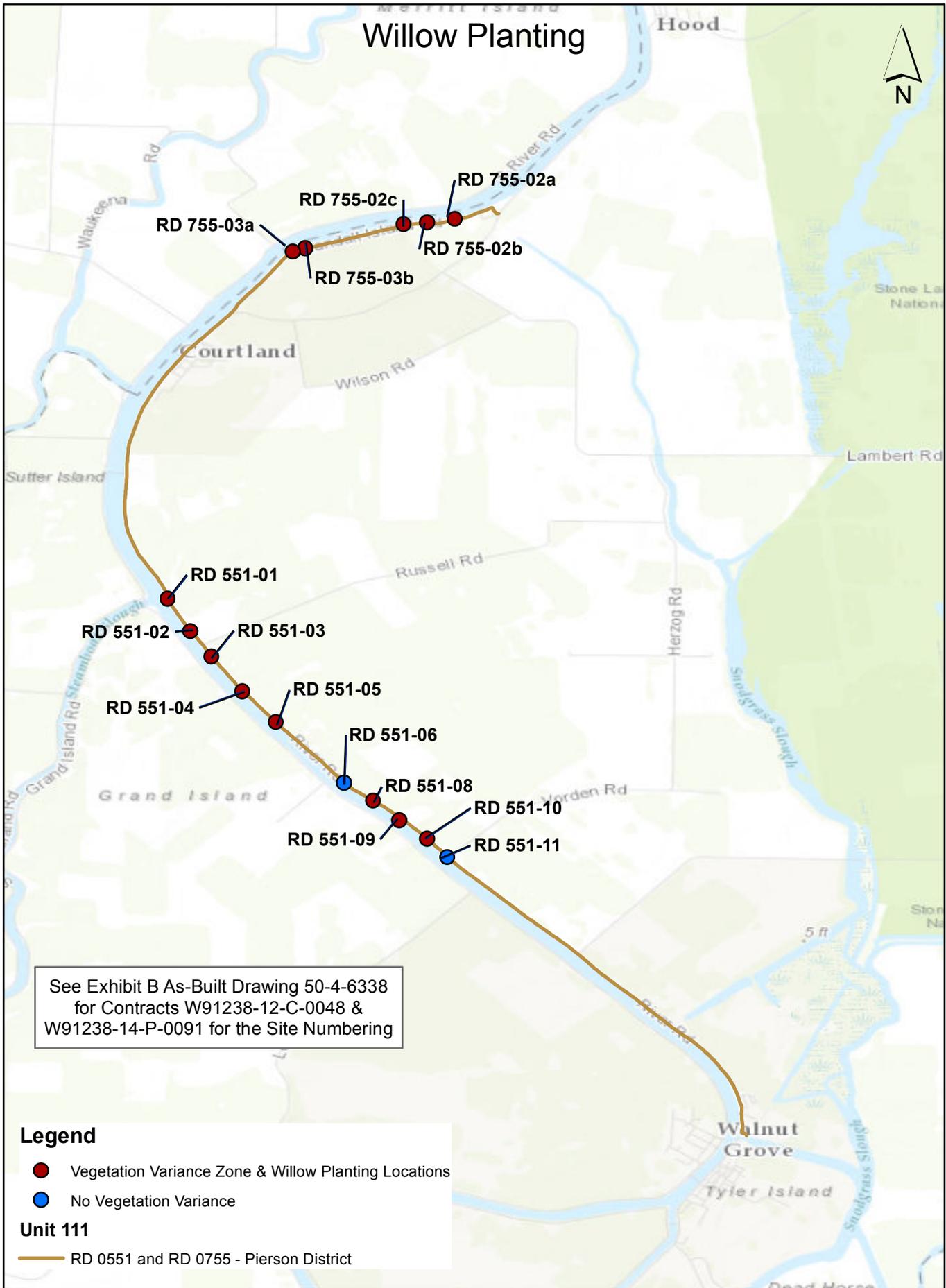
 Extent of Levees in this Unit

SCALE IN MILES



LOCATION MAP

UNIT NO. III  
EAST LEVEE OF  
SACRAMENTO RIVER  
FROM FREEPORT TO  
WALNUT GROVE



RD 755 - Summary of As Constructed Drawings (50-4-6338) Willow Planting - Exhibit A-2

NAD83				length (ft)	Punches	Vegetation Variance Zone
W91238-14-P-0091						
RD 755-02a	Start	38.346120 N	121.54108 W	235	79	Yes
	End	38.345930 N	121.54185 W			
RD 755-02b	Start	38.345710 N	121.54395 W	167	57	Yes
	End	38.456800 N	121.54449 W			
RD 755-02c	Start	38.345550 N	121.54594 W	220	74	Yes
	End	38.345450 N	121.54651 W			
RD 755-03a	Start	38.342950 N	121.55717 W	106	36	Yes
	End	38.342880 N	121.55753 W			
RD 755-03b	Start	38.342570 N	121.55852 W	125	43	Yes
	End	38.342400 N	121.55887 W			

Exhibit A-2 - Summary of As Constructed Drawings Willow Planting - RD 551

NAD83				length (ft)	Punches	Vegetation Variance Zone
W91238-14-P-0091						
RD 551-01	Start	38.304980 N	121.57204 W	224	76	Yes
	End	38.304360 N	121.57178 W			
RD 551-02	Start	38.301470 N	121.56964 W	87	30	Yes
	End	38.301300 N	121.56946 W			
RD 551-03	Start	38.298710 N	121.56733 W	733	245	Yes
	End	38.297070 N	121.56588 W			
RD 551-04	Start	38.294940 N	121.56397 W	98	34	Yes
	End	38.294770 N	121.56372 W			
W91238-12-C-0048						
RD 551 - 05	Start	38.291590 N	121.56035 W	146	146	Yes
	End	38.290680 N	121.55940 W			
RD 551 - 06	Start	38.285030 N	121.55299 W	74	74	No
	End	38.284580 N	121.55245 W			
RD 551 - 08	Start	38.283090 N	121.54983 W	59	9	Yes
	End	38.282810 N	121.54935 W			
RD 551 - 09	Start	38.271810 N	121.54773 W	280	8.5	Yes
	End	38.288210 N	121.54559 W			
RD 551 - 10	Start	38.279000 N	121.54405 W	129	8	Yes
	End	38.278230 N	121.54319 W			
RD 551 - 11	Start	38.276990 N	121.54179 W	119	119	No
	End	38.276240 N	121.54091 W			

EXHIBIT B

“AS CONSTRUCTED”  
DRAWINGS

See separate folder for the following drawings:

<u>File No.</u>	<u>Title</u>
6-13-1100	Sacramento River from Sacramento to Collinsville, sheets 7 to 15, inclusive.
50-4-1854	Bank Protection Walnut Grove Mile 27.1 L., 1 sheet.
6-4-1583	Bank Protection East Bank of River at Mile 36.4, 1 sheet.
6-4-1601	Bank Protection Mile 36.2 L, 1 sheet.
6-4-1603	Bank Protection Mile 41.0 L, 1 sheet.
50-4-2371	Bank Protection East Levee Sacramento River Mile 35.5, 1 sheet.
50-4-2531	Bank Protection East Levee Sacramento River Mile 35.7, 1 sheet.
50-4-2925	Emergency Bank Repairs at 2 Sites, Left Bank Sacramento River Mile 43.25 and 43.75, 1 sheet.
50-4-2983	Levee Construction and Bank Protection, Georgiana Slough to Freeport, sheets 1 to 26, inclusive.
50-4-3741	Stone protection at various locations between Sacramento and Rio Vista, sheets 6, 8, 9 and 11.
50-4-3848	Bank Protection, Right and Left Banks Sacramento River Various Locations between Sacramento and Isleton, in 32 sheets (Unit No. 6).
50-4-4047	Bank Protection Right and Left Banks Sacramento River, Various Sites between Sacramento and Rio Vista, in 27 sheets.
50-4-4283	Bank Protection, Various Locations, Right and Left Banks, Sacramento River and Georgiana Slough, in 34 sheets.

- 50-4-4378 Bank Protection, Various Locations, Left Bank, Sacramento River between Mile 24.7 and 53.7, in 23 sheets.
- 50-4-4476 Bank Protection, Critical Locations, Right and Left Banks, Sacramento River, Mile 12.4 Left to Mile 53.3 Right, in 12 sheets.
- 50-4-4487 Bank Protection, Various Locations, Right and Left Banks, Sacramento River from mile 53.3 to Rio Vista, in 24 sheets.
- 50-4-4687 Bank Protection, Various Locations Right and Left Banks, Sacramento River from Mile 55.0 to Mile 16.0, in 28 sheets.
- 50-4-4898 Bank Protection, Various Locations Right and Left Banks, Sacramento River Between Mile 12.0 and Mile 58.0, in 43 sheets.
- 50-4-5347 Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 15.0 to Mile 60.0, in 33 sheets.
- 50-4-5697 Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 0.0 to 62.0 and Tributaries in 55 sheets.
- 50-4-5784 Bank Protection, Right and Left Banks, Sacramento River Mile 7.8 to Mile 56.0, and Tributaries, in 75 sheets.
- 50-04-6026 Sacramento County, California, PL 84-99 Levee Restoration RD 551 and RD 755 in 4 sheets.
- 50-25-5771 Emergency Repairs, Left bank of the Sacramento River in Maintenance Area 9.
- 50-4-6338 PL 84-99 Willow Plantings (Total of 75 sheets, for RD 3, RD 17, RD 150, RD 551 and RD 755)

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(See Standard Manual)

EXHIBIT C  
Unattached

EXHIBIT D

CHECK LIST NO. 1

LEVEE INSPECTION REPORT

(See Standard Manual)

EXHIBIT D  
Unattached

EXHIBIT E

CHECK LISTS OF LEVEES,  
CHANNEL AND STRUCTURES

For definition of "flood" or "high water period,"  
see paragraph 1-05 of this manual.

**CHECK LIST NO. 2**  
**UNIT NO. 111**

Inspector's Report Sheet No. \_\_\_\_\_ Inspector \_\_\_\_\_

Date \_\_\_\_\_ Superintendent \_\_\_\_\_

Item	Remarks
(a) Location by Station	:
	:
	:
(b) Settlement, sloughing, or loss of grade	:
	:
	:
(c) Erosion of both levee slopes	:
	:
	:
(d) Condition of roadways, including ramps	:
	:
	:
(e) Evidence of seepage	:
	:
	:
(f) Condition of farm gates and fencing	:
	:
	:
(g) Maintenance measures taken since last inspection	:
	:
	:
(h) Comments	:
	:
	:

INSTRUCTIONS FOR COMPLETING SHEET 2, EXHIBIT E  
(To be printed on back of sheet 2)

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gullying of the section has occurred.
- Item (c) If sufficient erosion or gullying of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.
- Item (e) Indicate any evidence of seepage through the embankment section.
- Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if repainting is required.
- Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.
- Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.

CHECK LIST NO. 3

CHANNEL AND RIGHT-OF-WAY  
UNIT NO. 111

Inspector's Report Sheet No. \_\_\_\_\_ Inspector \_\_\_\_\_

DATE \_\_\_\_\_ Superintendent \_\_\_\_\_

Item	Remarks
(a) Name of channel and location by stations	
(b) Vegetal growth in channel	
(c) Debris and refuse in channel	
(d) New construction within right-of-way	
(e) Extent of aggradation or degradation	
(f) Condition of riprapped section	
(g) Condition of bridges	
(h) Measures taken since last inspection	
(i) Comments	

INSTRUCTIONS FOR COMPLETING SHEET 4, EXHIBIT E  
(To be printed on back of sheet 4)

- Item (a) Indicate station of observation obtained by pacing from nearest reference point.
- Item (b) Note nature, extent, and size of vegetal growth within the limits of flood flow channel.
- Item (c) Note nature and extent of debris and refuse that might cause clogging of the conduits of the irrigation intake works, fouling of the tainter gates, or the bridges over the channel.
- Item (d) Report any construction along the diversion channel or above the diversion channel that has come to the attention of the inspector and that might affect the functioning of the project.
- Item (e) Indicate any change in grade or alignment of the channels, either by deposition or sediment or scour, that is noticeable by visual inspection. Estimate amount and extent.
- Item (f) Indicate any change that has taken place in the riprap such as disintegration of the rock, erosion, or movement of the rock. Note the presence of vegetal growth through the riprap.
- Item (g) Note any damage or settlement of the footings of the bridges. Indicate condition of wooden structures and if repainting is required. Indicate condition of bridge approaches, headwalls, and other appurtenances.
- Item (h) Indicate maintenance measures that have been performed since the last inspection and their condition at time of this inspection.
- Item (i) Record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

Inspector's Report Sheet No. \_\_\_\_\_ Inspector \_\_\_\_\_

UNIT NO. 111

Date \_\_\_\_\_ Superintendent \_\_\_\_\_

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Location by River Mileage	Bank	Debris or other Obstruction to Flow	Damage or Settlement of Pipe or Conduit	Condition of Concrete Headwall or Invert Paving	Condition of Right-of-Way Adjacent to Structure	Repair Measures Taken Since Last Inspection	Comments
44.59	Left						R.D. No. 744
44.50	Left						R.D. No. 744
44.37	Left						R.D. No. 744
44.36	Left						R.D. No. 744
44.15	Left						R.D. No. 744
44.04	Left						R.D. No. 744
43.90	Left						R.D. No. 744
43.69	Left						R.D. No. 744
43.43	Left						R.D. No. 744
43.09	Left						R.D. No. 744
42.54	Left						R.D. No. 744
42.36	Left						R.D. No. 744
42.13	Left						R.D. No. 744
41.94	Left						R.D. No. 744
41.54	Left						R.D. No. 744
41.52	Left						R.D. No. 744
41.16	Left						R.D. No. 744

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

Inspector's Report Sheet No. \_\_\_\_\_

UNIT NO. 111

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other Obstruction to Flow	(d) Damage or Settlement of Pipe or Conduit	(e) Condition of Concrete Headwall or Invert Paving	(f) Condition of Right-of-Way Adjacent to Structure	(g) Repair Measures Taken Since Last Inspection	(h) Comments
41.15	Left						R.D. No. 744
40.73	Left						R.D. No. 744
40.71	Left						R.D. No. 745
40.34	Left						R.D. No. 745
40.09	Left						R.D. No. 745
39.99	Left						Edinger-Johnston Tract
39.72	Left						Edinger-Johnston Tract
39.06	Left						Edinger-Johnston Tract
38.68	Left						Edinger-Johnston Tract
38.51	Left						Edinger-Johnston Tract
38.49	Left						Edinger-Johnston Tract
38.43	Left						Edinger-Johnston Tract
38.21	Left						Edinger-Johnston Tract
38.21	Left						R.D. No. 746
38.21	Left						R.D. No. 746
37.81	Left						R.D. No. 746

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

Inspector's Report Sheet No. \_\_\_\_\_

UNIT NO. 111

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or Other Obstruction to Flow	(d) Damage or Settlement of Pipe or Conduit	(e) Condition of Concrete Headwall or Invert Paving	(f) Condition of Right-of-Way Adjacent to Structure	(g) Repair Measures Taken Since Last Inspection	(h) Comments
37.74	Left						R.D. No. 746
37.74	Left						R.D. No. 746
37.69	Left						R.D. No. 813
37.60	Left						R.D. No. 813
37.60	Left						R.D. No. 813
37.32	Left						R.D. No. 813
37.19	Left						R.D. No. 813
37.16	Left						R.D. No. 813
36.88	Left						R.D. No. 813
36.88	Left						R.D. No. 813
36.78	Left						R.D. No. 813
36.60	Left						R.D. No. 755
36.42	Left						R.D. No. 755
35.90	Left						R.D. No. 755
35.90	Left						R.D. No. 755

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

Inspector's Report Sheet No. \_\_\_\_\_

UNIT NO. 111

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other Obstruction to Flow	(d) Damage or Settlement of Pipe or Conduit	(e) Condition of Concrete Headwall or Invert Paving	(f) Condition of Right-of-Way Adjacent to Structure	(g) Repair Measures Taken Since Last Inspection	(h) Comments
35.89	Left						R.D. No. 755
35.88	Left						R.D. No. 755
35.66	Left						R.D. No. 755
35.55	Left						R.D. No. 755
35.47	Left						R.D. No. 755
34.95	Left						R.D. No. 755
34.75	Left						R.D. No. 551
34.49	Left						R.D. No. 551
34.15	Left						R.D. No. 551
33.91	Left						R.D. No. 551
33.90	Left						R.D. No. 551
33.29	Left						R.D. No. 551
33.02	Left						R.D. No. 551
32.78	Left						R.D. No. 551
32.78	Left						R.D. No. 551

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

Inspector's Report Sheet No. \_\_\_\_\_ Inspector \_\_\_\_\_

UNIT NO. 111

Date \_\_\_\_\_ Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or Obstruction to Flow	(d) Damage or Settlement of Pipe or Conduit	(e) Condition of Concrete Headwall or Invert Paving	(f) Condition of Right-of-Way Adjacent to Structure	(g) Repair Measures Taken Since Last Inspection	(h) Comments
32.56	Left						R.D. No. 551
32.38	Left						R.D. No. 551
32.04	Left						R.D. No. 551
31.82	Left						R.D. No. 551
31.82	Left						R.D. No. 551
31.38	Left						R.D. No. 551
31.26	Left						R.D. No. 551
30.76	Left						R.D. No. 551
30.75	Left						R.D. No. 551
30.75	Left						R.D. No. 551
30.31	Left						R.D. No. 551
29.95	Left						R.D. No. 551
29.79	Left						R.D. No. 551
29.79	Left						R.D. No. 551
29.71	Left						R.D. No. 551
29.52	Left						R.D. No. 551
29.20	Left						R.D. No. 551
28.03	Left						R.D. No. 551
28.97	Left						R.D. No. 551
28.87	Left						R.D. No. 551

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

Inspector's Report Sheet No. \_\_\_\_\_

UNIT NO. 111

Inspector \_\_\_\_\_

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

(a) Location by River Mileage	(b) Bank	(c) Debris or other Obstruction to Flow	(d) Damage or Settlement of Pipe or Conduit	(e) Condition of Concrete Headwall or Invert Paving	(f) Condition of Right-of-Way Adjacent to Structure	(g) Repair Measures Taken Since Last Inspection	(h) Comments
28.87	Left						R.D. 551
28.59	Left						R.D. 551
28.59	Left						R.D. 551
28.44	Left						R.D. 551
28.44	Left						R.D. 551
28.27	Left						R.D. 551
28.06	Left						R.D. 551
27.63	Left						R.D. 369
27.20	Left						R.D. 554
27.09	Left						R.D. 554
27.00	Left						R.D. 554
26.75	Left						R.D. 554
26.75	Left						R.D. 554
26.75	Left						R.D. 554
26.66	Left						R.D. 554
26.50	Left						R.D. 554
26.37	Left						R.D. 554
26.35	Left						R.D. 554
26.10	Left						R.D. 554

INSTRUCTIONS FOR COMPLETING SHEET 6, EXHIBIT E  
(To be printed on back of sheets 6 to 11, inclusive)

- (1) Enter station of all structures under Column (a) for check list.
- (2) Inspect inlet, barrel, and outlet for accumulation of sediment, rubbish, and vegetal matter. Note condition under Column (c).
- (3) If any settlement or damage to the pipe, barrel, or invert of the drain has occurred, estimate the location and amount. Note particularly if any backfill has come into the pipe or been disturbed. Record observations under Column (d).
- (4) Inspect the concrete portions of the structures for evidence of settlement, cracks, "pop-outs", spaces, abrasive wear, or other deterioration. Record conditions under Column (e).
- (5) Inspect backfill area adjacent to structure for evidence of erosion caused by overflow of the drainage structure and note conditions in Column (f).
- (6) Under Column (g) indicate physical measures that have been taken to correct conditions reported in last inspection, and their condition at time of this inspection.
- (7) Under Column (h) record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.
- (8) A copy of the inspector's report is to be mailed to the District Engineer immediately on completion, and a record copy shall be attached to the Superintendent's semi-annual report.

**EXHIBIT F**

**LETTERS OF ACCEPTANCE BY AND TRANSFER TO  
THE STATE RECLAMATION BOARD**

**EXHIBIT F**



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT  
1325 J STREET  
SACRAMENTO CA 95814-2922

NOV 29 2016

Ms. Leslie M. Gallagher  
Executive Officer  
Central Valley Flood Protection Board  
3310 El Camino Avenue, Room 151  
Sacramento, CA 95821

Dear Ms. Gallagher:

The purpose of this letter is to notify the Central Valley Flood Protection Board of the completion of an effort to update the Operation and Maintenance Manual Supplements for the Sacramento River Flood Control Project and the Lower San Joaquin River Levees and Lower San Joaquin River and Tributaries Project. These updates are a compilation of revisions made to the project over time and where we had record of a transfer letter to the Board. These updated supplements are the most current version and should be utilized as the baseline version for any future project modifications.

This process and the compiled updates have been coordinated with the Central Valley Flood Protection Board and Department of Water Resources staffs for review and comment. All comments have been addressed or incorporated into the manuals.

The Board staff has been provided a copy of the manuals in electronic format. Future updates will include entire unit supplements so updates can be seen in context with the entire unit supplement. The list of completed supplements, by the unit number and title, are attached. If you have any questions regarding this transmittal, please contact Gary Kamei at 916-557-6845.

Sincerely,

A handwritten signature in black ink, appearing to read "D. G. Ray", written over a horizontal line.

David G. Ray, P.E.  
Colonel, U.S. Army  
District Commander

Enclosures

<b>Standard O&amp;M Manual Sacramento River Flood Control Project</b>	
<b>Unit No.</b>	<b>Project Name</b>
101	RD 341 Sherman Island
102	E. Levee of Sac River, Isleton to Threemile Slough & N. Levee of Threemile Slough from Sac River to SJ River
103	Both Levees of Georgiana Slough & E. Levee of Sac River from Walnut Grove to Isleton
104	Levees around Grand Island
105	Levees Around Reyer Island
106	S. Levee Lindsey Slough & W. Levee of Yolo BP from Lindsey Slough to Watson Hollow and N. Levee of Watson Hollow Drain
107	Levees Around Hastings Tract
108	Levees Around Peters Tract
109	West Levee of Yolo Bypass & E. Levee of Cache Slough
110	Levees Around Sutter Island
111	E. Levee of Sac River from Freeport to Walnut Grove
112	Levees Around Merritt Island
113	E. Levee Yolo Bypass, N. Levee Miner Slough, W. Levees Sutter Slough, Elkhorn Slough & Sac River, All Bordering RD 999
114	W. Levee of Sac River from Northern Boundary of RD 765 to Southern Boundary of RD 307
115	E. Levee of Sac River from Sutterville Rd to Northern Boundary of RD 744
116	W. Levee of Sac River from Sac Weir to Mi 51.2 & S. Levee of Sac Bypass & E. Levee of Yolo Bypass from Sac Bypass to Southern Boundary of RD 900
117	E. Levee Sac River through City of Sac from Tower Bridge to Sutterville Rd
118.1	E. Levee of Sac River from American River to Tower Bridge & S. Levee of American River from Mayhews Downstream to Sac River
118.2	N. Levee American River, E. Levee Natomas Canal, Both Levees Arcade Creek, S. Levee Linda Creek, & Magpie Creek Diversion Channel
118.2 Sup	Vegetation on Mitigation Sites E. Levee of Sac River from American River to Tower Bridge & S. Levee of American River from Mayhews Downstream to Sac River
119	Putah Creek Channel & Levees & W. Levee of Yolo Bypass from Yolo Causeway Downstream 3 mi. Includes O&M manual for the Yolo Basin wetlands, and South Fork Putah Creek Preserve Restoration Section 1135 Authorization.
120	Relocated Willow Slough Channel & Levees & W. Levee Yolo Bypass from mouth of Relocated Willow Slough to Yolo Causeway
121	R. Levee of Yolo Bypass from Willow Slough Bypass to Woodland Rd RD2035
122.1	W. Levee of Sac River from Mi 70.8 to Sac Weir & N. Levee of Sac Bypass & E. Levee of Yolo Bypass from Woodland Hwy to Sac Bypass
123	W. Levee of Sac River from East End of Fremont Weir to Mi 70.8 & E. Levee of Yolo Bypass from East End Fremont Weir to Woodland Hwy RD 1600

124	N. Levee of American River from Natomas E. Canal to Sac River & E. Levee of Sac River from Natomas Cross Canal to American River. Includes supplement, Vegetation on Mitigation Sites.
125	Back Levee of RD 1000
126	Cache Creek Levees & Settling Basin Yolo Bypass to High Ground
127	Knights Landing Ridge Cut & Sac River & Yolo BP Levees of RD's 730 and 819 & S. Levee of Sycamore Slough
128	E. Levee of Sac River from Sutter Bypass to Tisdale Weir all within RD 1500
129	S. Levee of Tisdale By-Pass from E. Levee Sac River to W. Levee Sutter BP & W. Levee of Sutter BP Downstream to E. Levee of Sac River
130	W. Levee Sac River from Sycamore Slough to Wilkins Slough (Mi. 89.9 to Mi. 117.8)
131	W. Levee Sac River from Wilkins Slough to Colusa (Mi. 117.8 to Mi. 143.5)
132	Back Levees of RD 108
133	E. Levee of Sac River from Winship School to Tisdale BP & N. Levee of Tisdale BP & W. Levee of Sutter BP from Long Bridge to Tisdale BP
134	Levees of RD 70, E. Levee of Sac River from Butte Slough Outfall Gates to Winship School & W. Levee of Sutter BP from Butte Slough Outfall Gates to Long Bridge
135	E. Levee of Sutter BP from Sutter Buttes Southerly to Junction with Feather River & E. & W. Levees of Wadsworth Canal & Levee of Intercepting Canals
136	E. Levee of Sac River from Butte Slough Outfall Gates to the Princeton-Afton Rd (Mi. 138.3 to Mi. 164.4)
137	W. Levee of Sac River from North End of Princeton Warehouse to Colusa Bridge
138	E. Levee of Sac River from Parrott-Grant Line to Princeton-Afton Rd
139	W. Levee of Sac River from N. Boundary of LD 2 to North End of Princeton Warehouse
140	W. Levee of Sac River in LD 1 (Mi. 170.5 to Mi. 184.7). Includes mitigation site O&M manual, Yuba County
141.1	E. Levee of Feather River from Bear River to Natomas CC & S. Levee of Bear River & Both Levees of Yankee Slough. Parts 1 and 2
141.2	E. Levee of Feather River from Bear River to Natomas CC & S. Levee of Bear River & Both Levees of Yankee Slough. Parts 1 and 2
142	Back Levee of RD 1001
143	W. Levee of Feather River from North Boundary of RD 823 to E. Levee of Sutter Bypass
144	W. Levee of Feather River from North Boundary of LD 1 to North Boundary of RD 823
145	E. Levee of Feather River, S. Levee of Yuba River, Both Levees of WPRR Intercepting Channel, W. Levee of South Dry Creek & N. Levee of Bear River
146	N. Levee of Bear River & S. Levee of South Dry Creek RD 817 & Vicinity of Wheatland
147	Levee Around the City of Marysville & N. Levee of Yuba River to a Point 1.8 Mi. Upstream from Marysville

148	W. Levee of Feather River from North Boundary of RD 777 to North Boundary of LD 1
149	S. Levee of Yuba River Maintenance Area No. 8
151	E. Levee Feather River from Honcut Creek to Marysville & S. Levee of Honcut Creek & E. Levee of RD 10
152	W. Levee of Feather River from N. Boundary of RD 777 to Western Canal Intake (Levee of Drainage District No. 1)
153	Lower Butte Creek Channel Improvement, Colusa, Glenn & Butte Counties
154	Moulton Weir & Training Levee Sacramento River
155	Colusa Weir & Training Levee Sacramento River
156	Tisdale Weir & Bypass
157	Fremont Weir, Sacramento River
158	Sacramento Weir, Sacramento River
159	Pumping Plants No. 1, 2 & 3, Sutter Bypass
160	Sutter Butte Canal Headgate
161	Butte Slough Outfall Gates
162	Knights Landing Outfall Gates, Sacramento River

**Standard O&M Manual San Joaquin River**

<b>Unit No.</b>	<b>Project Name</b>
1	Right Bank Levee of the San Joaquin River & French Camp Slough within RD 404
2	Right Bank Levee of the San Joaquin River & French Camp Slough within RD 17
3	North Levee of Stanislaus River & East Levee of the San Joaquin River within RD 2064, 2075, 2094 and 2096
4	East Levee of San Joaquin River within RD 2031
5	East Levee of the San Joaquin River Within RD No. 2092
6	East Levee of the San Joaquin River in RD Nos. 2063 & 2091
7	West Levee of San Joaquin River & North Levee of Old River RD Nos. 524 & 544
8	Right Banks of Old River & Salmon Slough Within RD No. 1 & RD No. 2089
9	Levees Around RD No. 2062 & San Joaquin County Flood Control District Area No.2
10	West Levee of Paradise Cut RD No. 2058 & SJ County Flood Control District, Area No.2
11	West Levee of San Joaquin River from Durham Bridge to Paradise Dam Within RD No. 2085 & 2095
12	West Levee of San Joaquin River From Opposite Mouth of Tuolumne River Downstream to Stanislaus County Line Within RD Nos. 2099, 2100, 2101, & 2102
13	West Levee of the San Joaquin River in RD No. 1602



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT  
1325 J STREET  
SACRAMENTO CA 95814-2922

JUL 15 2016

Executive Office

Ms. Leslie M. Gallagher  
Executive Officer  
Central Valley Flood Protection Board  
3310 El Camino Avenue, Room 151  
Sacramento, California 95821

Dear Ms. Gallagher:

The U.S. Army Corps of Engineers has completed a portion of work under Public Law (PL) 84-99, Flood Control and Coastal Emergencies (FCCE) (33 U.S.C 701n) (69 Stat. 186) for emergency management activities, specifically, rehabilitation and associated mitigation of flood risk reduction projects. Mitigation willow plantings were made at various vegetation variance zone sites within Reclamation Districts (RD) 3, RD 17, RD 150, RD 551 and RD 755.

The mitigation willow plantings were completed under Contracts No. W91238-12-C-0048 and W91238-14-P-0091 by Erick Ammon, Inc. The subject flood risk reduction rehabilitation projects are considered complete as of the date of this letter. As-constructed drawings and revisions to the O&M Manuals for each respective RD are enclosed. The Central Valley Flood Protection Board shall continue to operate and maintain the completed rehabilitation effort as part of the project.

If you have any questions regarding this project, please contact Ms. Paige Caldwell (916) 557-6919.

Sincerely,

A handwritten signature in black ink, appearing to read "DGR", written over a circular stamp or mark.

David G. Ray, P.E.  
Colonel, U.S. Army  
District Commander

Enclosures

**THE RECLAMATION BOARD**

16 NINTH STREET, ROOM 1601  
SACRAMENTO, CA 95814  
(916) 653-5434 FAX: (916) 653-5805  
Permits: (916) 653-6726 FAX: (916) 653-5805



JUN 19 2001

Colonel Michael J. Walsh  
District Engineer  
Sacramento District  
U.S. Army Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

Dear Colonel Walsh:

In your April 11, 2001 letter to The Reclamation Board, the U.S. Army Corps of Engineers transferred the repaired east levee of the Sacramento River at 11 sites from Levee Mile 0.15 to LM 1.89, in Reclamation District No. 755, to the State of California for operation and maintenance. You advised the Board that the completed repairs would be added by amendment to the Operation and Maintenance Manual, Sacramento River Flood Control Project. We understand that the repairs were completed in accordance with the original plans and specifications, and any deviations from them were minor. We acknowledge receipt of as-designed drawings and will forward a copy to RD 755.

The Board, on behalf of the State of California, accepted the completed repairs at its June 15, 2001 meeting and transferred the Sacramento River levee repairs to RD 755. Until the Corps provides the O&M Manual amendment, RD 755 will perform operation and maintenance according to the current manual.

If you have any questions, you may contact Peter Rabbon, General Manager of The Reclamation Board, at (916) 653-5434, or your staff may contact Debbie Carlisle, Chief of the Department of Water Resources' System Integrity Section of the Division of Flood Management, at (916) 323-4677.

Sincerely,

Betsy A. Marchand  
President

**Attachments**

cc: Kell Cloward, Chief  
Readiness Branch  
Sacramento District  
U.S. Army Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

Mr. Douglas Hemly, Secretary  
Reclamation District No. 755  
11275 Highway 160  
Courtland, California 95615



APR 11 2001

Mr. Peter D. Rabbon, General Manager  
The Reclamation Board  
State of California  
1416 - 9<sup>th</sup> Street, Room 1601  
Sacramento, California 95814

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the east levee of the Sacramento River from the south boundary of RD 755 to the north boundary of RD 369, in RD 551, to the State of California for operation and maintenance.

The work consisted of restoring the east levee of the Sacramento River damaged by the January 1997 Flood by installing levee rockfill placed over geotextile filter fabric on the waterside of the levee at 21 sites from Levee Mile 2.15 to Levee Mile 6.02. The work as listed in the enclosure was completed on October 11, 1997 in accordance with Specification No. 9869E, Drawing File 50-04-6026, Contract No. DACW05-97-C-0134.

The work was performed under the general authority of 33 U.S.C. 701n (69 Stat. 186) PL 84-99 and now meets the requirements of the Operations and Maintenance Manual for the Sacramento River Flood Control System in RD 551. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred as of December 15, 1999 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance manual, Sacramento River Flood Control Project, which is being transferred under separate cover.

Sincerely,

Michael J. Walsh  
Colonel, Corps of Engineers  
District Engineer

Enclosure

- CESPK-CO-E
- CESPK-ED
- CESPK-ED-D
- CESPK-PM
- CESPK-CO-RV

*JM*  
MINTON/dd

*MD*  
TAVANA

*JS*  
SANDNER

DURHAM-AGUILERA

*J*  
WINTON

*CK*  
DOYLE

*for*  
KORMAN

*W*  
CHARLTON

O'BRIEN

*MC*  
WALSH  
*for*

*Unit III*

APR 11 2001

Navigation and Flood Control Unit

Mr. Peter D. Rabbon, General Manager  
The Reclamation Board  
State of California  
1416 - 9<sup>th</sup> Street, Room 1601  
Sacramento, California 95814

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the east levee of the Sacramento River from the south boundary of Maintenance Area 9 to the north boundary of RD 551, in RD 755, to the State of California for operation and maintenance.

The work consisted of restoring the east levee of the Sacramento River damaged by the January 1997 Flood by installing levee rockfill placed over geotextile filter fabric on the waterside of the levee at 11 sites from Levee Mile 0.15 to Levee Mile 1.89. The work as listed in the enclosure was completed on Oct. 11, 1997 in accordance with Specification No. 9869E, Drawing File 50-04-6026, Contract No. DACW05-97-C-0134.

The work was performed under the general authority of 33 U.S.C. 701n (69 Stat. 186) PL 84-99 and now meets the requirements of the Operations and Maintenance Manual for the Sacramento River Flood Control System in RD 755. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred as of the date of this letter to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance manual, Sacramento River Flood Control Project, which is being transferred under separate cover.

Sincerely,

Michael J. Walsh  
Colonel, Corps of Engineers  
District Engineer

*jm*  
MINTON/dd

*MT*  
TAVANA

*P*  
SANDNER

DURHAM-AGUILERA

*W*  
WINTON

*ch*  
DOYLE

*Hay*  
KORMAN

*W*  
CHARLTON

O'BRIEN

*Mc*  
WALSH

Enclosure

cc:  
CESPK-CO-E  
CESPK-ED  
CESPK-ED-D  
CESPK-PM  
CESPK-CO-RV

*Unit 7/11*

November 16, 1989

Navigation and Flood Control Unit

The Reclamation Board  
State of California  
1416 - 9th Street, Room 455-6  
Sacramento, California 95814

*not*

Members of the Board:

This is in regard to the joint inspections of November 8 & 9, 1989, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 42) to the State of California for operation and maintenance. The flood control work consists of bank sloping, placement of stone protection and miscellaneous work on the Sacramento River right bank at Site Miles 23.6, 26.7, 42.7, 43.5, 56.5 and 56.7 and left bank at Site Miles 20.2, 33.3 and 36.1; Georgiana Slough right bank at Site Miles 7.9 and 8.1 and left bank at Site Miles 4.8 and 11.7; Steamboat Slough right bank at Site Mile 22.1 and left bank at Site Miles 19.8, 23.2 and 25.9, and Sutter Slough left bank at Site Mile 22.2.

The sites were completed on November 8, 1989, in accordance with Contract Number DACW05-89-C-0037, Specification Number 8259 and Drawing Number 50-4-5784.

*11-14-89*  
ROMPALA/mt

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), Section 2304(a), Title 10, and the Water Resources Development Act of 1986 (PL 99-662, October 17, 1986), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous thereto is transferred as of November 9, 1989 to the State of California for operation and maintenance.

*in for*  
KELLY  
A. SMITH  
*[Signature]*  
HEIN

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 103, 104, 110, 111, 113, 114 and 116, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

FAST

cc:  
~~D-O Div;~~ ~~Fld Cntrl Unit;~~  
~~Central Valley Sec;~~ ~~Prog~~  
~~Dev;~~ ~~F&A Br;~~ ~~Valley Res~~  
~~Ofc;~~ ~~Reading~~

Sincerely,

Jack A. Le Cuyer  
Colonel, Corps of Engineers  
District Engineer

DENNIS  
MASON  
*[Signature]*  
Le CUYER

*Units 103, 104, 110, 111, 113, 114, 116*

Copies Furnished:

DWR, ATTN: G. Snow; DWR, ATTN: G. Qualley; Cdr, SPD, ATTN: CESP-D-0;  
Cdr, USACE, ATTN: DAEN-CECW-OM

PC#LTRUNIT42

*2*





February 3, 1987

Navigation and Flood Control Unit

The Reclamation Board  
State of California  
1416 - 9th Street, Room 455-0  
Sacramento, California 95814

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency repairs to a project levee under authority of Section 5 of the Flood Control Act of August 18, 1941, as amended (Public Law 99, 84th Congress, 1st Session). The work was completed on November 5, 1986, and consisted of restoring portions of the Sacramento River left bank levee in Maintenance Area 9, in accordance with Contract Number DACW05-86-C-0112 and Drawing Number 50-25-5771. This work shall be maintained in accordance with the assurance which your Board provided for the Sacramento River Flood Control Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 111 and 115, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

*Mc 2-3*  
ROMPALA/th

*Mc for*  
KELLY

*[Signature]*  
A. SMITH

*[Signature]*  
HELM

*[Signature]*  
FAST

*[Signature]*  
DENNIS

*[Signature]*  
MCCOLLUM

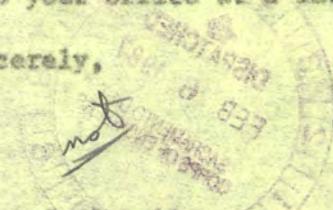
*[Signature]*  
SCHOLL

WANG #6375a

cc:  
E.M. (Garrett)  
Ops Br  
Engr Div (Civ Des Sec D - Pahl)  
Valley Res Ofc (Cameron)

Sincerely,

Wayne J. Scholl  
Colonel, Corps of Engineers  
District Engineer



Copies Furnished:

DWR, ATTN: J. ANGLE  
DWR, ATTN: G. SNOW  
Commander, South Pacific Division, ATTN: SPDCO-0

*Units 111, 115*

*[Signature]*

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD1416 - 9th Street, Room 455-6  
Sacramento, CA 95814  
(916) 445-9454

MAR 18 1986

Colonel Wayne J. Scholl  
District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Colonel Scholl:

Reference is made to your letter of December 13, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 37 to the State of California for operation and maintenance.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at the following sites.

## SACRAMENTO RIVER

Left Bank: Sites Miles 8.5, 10.4, 17.9, 19.1, 20.5, 21.4, 21.6, 23.4, 24.1, 36.0, 36.2, and 40.0

Right Bank: Sites Miles 15.9, 16.0, 17.6, 18.2, 27.2, 27.6, 31.0, 33.5, 34.6, 43.9, 44.9, and 45.2

## STEAMBOAT SLOUGH

Left Bank: Site Mile 25.3

Right Bank: Sites Miles 15.9, 16.0, 16.8, 17.1, 19.8, and 25.3

## SUTTER SLOUGH

Right Bank: Site Mile 22.0

## GEORGIANA SLOUGH

Left Bank: Site Mile 12.1

*Amis 101, 102, 103, 104,  
105, 110, 111, 112, 114*

Colonel Wayne J. Scholl  
Page 2

MAR 18 1986

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5697, Specification No. 7014, and Contract No. DACW 05-84-C-0104, insofar as could be determined visually.

The Reclamation Board, at its regular meetings of December 20, 1985, and January 17, 1986, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance, with the exception of Site Mile 16.0, Right Bank, Sacramento River.

A joint inspection was made on December 5, 1985 which included Site Mile 16.0. During this inspection, several large slumps in the rock revetment were observed. It was agreed that the slumps in the rock revetment would be repaired in conjunction with deficiencies noted at various other sites. For some reason, your contractor overlooked the repairs required at this site.

Mr. Sterling Olsen of the Valley Resident's Office has indicated that this site will be repaired in the spring of 1986. When this site has been repaired, we will be pleased to accept it for operation and maintenance.

If you have any questions concerning the above, please contact me at (916) 445-9454 or Mr. Richard Goodnight at (916) 445-9335.

Sincerely,



RAYMOND E. BARSCH  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

cc: Mr. Ralph Cameron  
Resident Engineer  
Valley Resident's Office  
U. S. Army Corps of Engineers  
P. O. Box 935  
West Sacramento, CA 95691

*Units 101, 102, 103, 104,  
105, 110, 111, 112, 114*

December 13, 1985

Navigation and Flood Control Unit

*not*

The Reclamation Board  
State of California  
1416 - 9th Street, Room 455-6  
Sacramento, California 95814

Members of the Board:

This is in regard to the joint inspections of December 20, 1984, November 26, 1985 and December 6, 1985 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 37), to the State of California for Operation and Maintenance. The flood control work consists of bank sloping and placement of stone protection on the Sacramento River right bank at Site Miles 15.9, 16.0, 17.6, 18.2, 27.2, 27.6, 31.0, 33.5, 34.6, 43.9, 44.9 and 45.2 and left bank at Site Miles 8.5, 10.4, 17.9, 19.1, 20.5, 21.4, 21.6, 23.4, 24.1, 36.0, 36.2 and 40.0; Steamboat Slough right bank at Site Miles 15.9, 16.0, 16.8, 17.1, 19.8 and 25.3 and left bank at Site Mile 25.3; Sutter Slough right bank at Site Mile 22.0; and Georgiana Slough left bank at Site Mile 12.1.

The sites were completed during the past construction season in accordance with Contract Number DACW05-84-C-0104, Specification Number 7014 and Drawing Number 50-4-5697.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, July 14, 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of December 13, 1985 to the State of California for operation and maintenance.

*Units 101, 102, 103,  
104, 105, 110, 111, 112, 114*



This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 101, 102, 103, 104, 105, 110, 111, 112 and 114, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

Wayne J. Scholl  
Colonel, Corps of Engineers  
District Engineer

12-13  
ROMPALA/mg

REC  
KELLY

Copies Furnished:

DWR, ATTN: G. Snow  
DWR, ATTN: J. Angel  
Commander, South Pacific Division, ATTN: SPDCO-0  
Commander, USACE, ATTN: DAEN-CWO-0

A. SMITH

cc:  
Flood Control Unit  
Engr Div  
Civ Des Sec D (Pahl)  
Prog Dev  
F&A Br  
Valley Res Ofc  
C-0 Div  
Reading

HEP  
FAST

DEWIS

WILLIAM

SCHOLL

WANG #2977a

Units  
101, 102, 103, 104,  
105, 110, 111, 112, 114

Reclamation Board

Rompala N&F.C.U.

<p>SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.</p> <p>(CONSULT POSTMASTER FOR FEES)</p> <p>The following service is requested (check one).</p> <p><input type="checkbox"/> Show to whom and date delivered .....</p> <p><input type="checkbox"/> Show to whom, date, and address of delivery .....</p> <p><input type="checkbox"/> RESTRICTED DELIVERY .....</p> <p><small>(The restricted delivery fee is charged in addition to the return receipt fee.)</small></p>		<p>TOTAL \$</p>	
<p>3. ARTICLE ADDRESSED TO: State of California 1416 - 9th Street, Rm 455-6 Sacramento, California</p>		<p>ARTICLE NUMBER 783773</p>	
<p>4. TYPE OF SERVICE: <input type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED <input type="checkbox"/> EXPRESS MAIL</p>		<p><input type="checkbox"/> INSURED <input type="checkbox"/> COD</p>	
<p>I have received the article described above.</p>			
<p>SIGNATURE <i>R. L. Manning</i></p>		<p>POSTMARK (may be on reverse side) DEC 17 1983</p>	
<p>6. ADDRESSEE'S ADDRESS (Only if requested)</p>		<p>7a. EMPLOYEE'S INITIALS</p>	
<p>7. UNABLE TO DELIVER BECAUSE:</p>			

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

1416 - 9th Street, Room 335-18  
Sacramento, CA 95814  
(916) 445-9454



APR 30 1981

Colonel Paul F. Kavanaugh  
District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Colonel Kavanaugh:

The Reclamation Board at its regular meeting of April 17, 1981, formally accepted the completed flood control work from the District Engineer. This work is a portion of Unit No. 33 of the Sacramento River Bank Protection Project. The work was transferred to the State of California by your letter of April 7, 1981.

The flood control work was constructed in a workmanlike manner and in conformance with File No. 50-4-5347, Specification No. 5269, and Contract No. DACW05-77-C-0101 insofar as could be determined visually, at Sites Miles 16.5, 18.2, 32.5, 34.1 and 34.5 Left Bank, and 44.4, 45.4, 45.6 and 47.6 Right Bank, Sacramento River.

Sincerely,

*Eldon E. Rinehart*  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units 102, 103, 111, 114*



*EMM*



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REPLY TO  
ATTENTION OF SPKCO-0

DEPARTMENT OF THE ARMY  
SACRAMENTO DISTRICT, CORPS OF ENGINEERS  
650 CAPITOL MALL  
SACRAMENTO, CALIFORNIA 95814

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7 April 1981

The Reclamation Board  
State of California  
1416 - 9th Street, Room 335  
Sacramento, CA 95814

Gentlemen:

This is in regard to the joint inspection of 26 March 1981 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 33), to the State of California for operation and maintenance. The flood control work consists of levee bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 16.5, 18.2, 32.5, 34.1, and 34.5 and right bank at Site Miles 44.4, 45.4, 45.6, and 47.6. The sites described in the inclosure were completed on 26 March 1981 in accordance with Contract No. DACW05-77-C-0101, Specification No. 5269 and Drawing No. 50-4-5347.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304 (a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of 26 March 1981 to the State of California for operation and maintenance.

This portion of work completes all sites under Unit 33 and will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 102, 103, 111, and 114, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

1 Incl  
1. Summary Sac Rv Bk  
Prot Proj Unit 33

HENRY LEE  
Lieutenant Colonel, CE  
Acting District Engineer

Copy furnished: w/Incl  
DWR, ATTN: G. Piazza; DWR, ATTN: D. Meixner

EXHIBIT F

Summary of Sacramento River  
Bank Protection Project  
Portion of Unit 33  
Sacramento River

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
16.5 left bank	22+85 to 25+45	260
18.2 left bank	27+00 to 30+25	325
32.5 left bank	3+65 to 18+00	1435
34.1 left bank	28+00 to 36+35	835
34.5 left bank	15+50 to 18+20	270
44.4 right bank	0+85 to 7+75	690
45.4 right bank	30+00 to 41+00	1100
45.6 right bank	11+80 to 23+00	1120
47.6 right bank	4+10 to 12+00	790

**DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD**

1416 - 9th Street, Room 335-18  
Sacramento, CA 95814  
(916) 445-9454



FEB 27 1981

Colonel Paul L. Kavanaugh  
District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Sir:

The Reclamation Board at its regular meeting of February 20, 1981 formally accepted the completed flood control work from the District Engineer, for Operation and Maintenance. This work is a portion of Unit No. 33 of the Sacramento River Bank Protection Project, and was transferred to the State of California by your letters of January 19, and February 5, 1981.

The flood control work was constructed in a workmanlike manner and in conformance with File No. 50-4-5347, Specification No. 5269, and Contract No. DACW05-77-C-0101, insofar as could be determined visually, at Sites Miles 36.7, 51.2, 52.2, 55.6 and 56.6 Left Bank, and 56.9 Right Bank, Sacramento River.

Sincerely,

  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units 111, 115*



*Copies to  
[unclear]  
[unclear]*



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
**SACRAMENTO DISTRICT, CORPS OF ENGINEERS**  
**650 CAPITOL MALL**  
**SACRAMENTO, CALIFORNIA 95814**

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SPKCO-0

5 February 1981

The Reclamation Board  
State of California  
1416 - 9th Street, Room 335  
Sacramento, CA 95814

Gentlemen:

This is in regard to the joint inspection of 5 February 1981 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 33), to the State of California for operation and maintenance. The flood control work consists of levee bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 36.7, 51.2, 52.2, and 55.6. The sites described in the inclosure were completed on 5 February 1981 in accordance with Contract No. DACW05-77-C-0101, Specification No. 5269 and Drawing No. 50-4-5347.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304 (a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of 5 February 1981 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 111 and 115, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

1 Incl  
1. Summary Sac Rv Bk  
Prot Proj Unit 33

HENRY LEE  
Lieutenant Colonel, CE  
Acting District Engineer

Copy furnished:  
DWR, ATTN: G. Piazza  
DMR, ATTN: D. Meixner

EXHIBIT F

Summary of Sacramento River  
Bank Protection Project  
Portion of Unit 33  
Sacramento River  
Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
36.7	4+35 to 6+35	200
51.2	17+70 to 23+20	550
52.2	16+00 to 22+75	675
55.6	65+65 to 68+85	320

DEPARTMENT OF WATER RESOURCES  
THE RECLAMATION BOARD

1416 - 9th Street, Room 335-18  
Sacramento, CA 95814  
(916) 445-9454



DEC 22 1978

District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Sir:

The Reclamation Board at its regular meeting of December 14, 1978, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 33 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of December 12, 1978.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 15.5, 17.4, 21.5, 23.4 and 27.4 Right Bank, and Sites Miles 19.9, 20.4, 21.0, 22.0, 22.2, 23.6, 27.8 and 29.8 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5347, Specification No. 5269, and Contract No. DACW 05-77-C-0101, insofar as could be determined visually.

Sincerely,

*Eldon E. Rinehart*  
ELDON E. RINEHART  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units 103/104/111*  
*Gene H. [unclear]*  
*Admin*  
*Back into cert mail*  
*308 373*





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DEPARTMENT OF THE ARMY  
SACRAMENTO DISTRICT, CORPS OF ENGINEERS  
650 CAPITOL MALL  
SACRAMENTO, CALIFORNIA 95814

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REPLY TO  
ATTENTION OF

SPKCO-0

12 December 1978

The Reclamation Board  
State of California  
1416 Ninth Street, Room 335  
Sacramento, California 95814

Gentlemen:

This is in regard to the joint inspection of 22 November 1978, made for the purpose of transferring a portion of the Sacramento River Bank Protection (Unit No. 33), to the State of California for operation and maintenance. The flood control work consists of levee and bank sloping and placement of stone protection on the Sacramento River right bank at site miles 15.5, 17.4, 21.5, 23.4, and 27.4 and left bank at site miles 19.9, 20.4, 21.0, 22.0, 22.2, 23.6, 27.8, and 29.8. The sites described on the inclosure were completed on 22 November 1978 in accordance with Contract No. DACW05-77-C-0101, Specification No. 5269, and Drawing No. SO-4-5347.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960) and Section 2304 (a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work, together with the waterway bank contiguous thereto, is transferred as of 12 December 1978 to the State of California for operation and maintenance.

This portion of the work will be added by amendments to the Operations and Maintenance Manual, Supplement Nos. 103, 104, and 111, Sacramento River Bank Protection Project. Copies will be furnished your office at a later date.

Sincerely yours,

1 Incl  
As stated

DONALD M. O'SHEI  
Colonel, CE  
District Engineer

Copy furnished:  
DWR, ATTN: R. Franson  
DWR, ATTN: R. Potter

EXHIBIT F

Summary of Sacramento River  
Bank Protection Project  
Portion of Unit 33  
Sacramento River

Right Bank

<u>Site</u>	<u>Stone Protection</u>	<u>L.F.</u>
* 15.5	Sta 68+95 to Sta 80+85	1190
17.4	Sta 71+50 to Sta 80+50	900
21.5	Sta 5+15 to Sta 13+30	815
23.4	Sta 0+85 to Sta 18+00	1715
* 27.4	Sta 6+00 to Sta 20+25	1425

Left Bank

19.9	Sta 184+30 to Sta 189+20	490
20.4	Sta 157+70 to Sta 161+60	390
21.0	Sta 122+25 to Sta 132+65	1040
22.0	Sta 67+85 to Sta 69+75	190
22.2	Sta 55+75 to Sta 61+00	525
23.6	Sta 90+25 to Sta 98+35	810
27.8	Sta 2+60 to Sta 11+50	890
29.8	Sta 185+75 to Sta 191+45	570

\* = EXTENDED

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STATE OF CALIFORNIA  
THE RECLAMATION BOARD

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December 14, 1976

Colonel Donald M. O'Shei  
District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Colonel O'Shei:

The Reclamation Board at its regular meeting of December 10, 1976, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 28 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of December 2, 1976.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at the following sites.

Sites Miles 12.9, 13.1, 14.9, 15.3 and 18.6 Left Bank, Sacramento River, in the Brannan Andrus Levee Maintenance District.

Sites Miles 17.3, 17.7, 18.1, 19.1 26.4, 27.0, 27.7 and 32.3 Right Bank, Sacramento River and Site Mile 24.8 Left Bank, Steamboat Slough, in Reclamation District No. 3.

Site Mile 40.4 Right Bank, Sacramento River, in Reclamation District No. 150.

Site Mile 33.1 Right Bank, Sacramento River, in Reclamation District No. 349.

Sites Miles 32.1 and 34.1 Left Bank, Sacramento River, in Reclamation District No. 551.

Sites Miles 26.7 and 27.2 Left Bank, Sacramento River, in Reclamation District No. 554.

Sites Miles 23.1, 25.1 and 26.4 Left Bank, Sacramento River, in Reclamation District No. 556.

Sites Miles 40.3 Left Bank and 50.4 Right Bank, Sacramento River, modified irrigation facilities only.

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Colonel Donald M. O'Shei  
Page 2

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4898, Specification No. 4539, and Contract No. DACW 05-76-C-0015, insofar as could be determined visually.

Sincerely,

/s/ Paul L. Clifton  
PAUL L. CLIFTON

SPKCC-0



The Reclamation Board  
State of California  
1416 - 9th Street, Room 335  
Sacramento, CA 95814

*Handwritten initials*

Gentlemen:

Reference is made to the joint inspections of 30 November and 1 December 1976, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 28) to the State of California for operation and maintenance. This flood control work consists of bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles: 12.9, 13.1, 14.9, 15.3, 18.6, 23.1, 25.1, 26.4, 26.7, 27.2, 32.1, and 34.1, and right bank at Site Miles 17.3, 17.7, 18.1, 19.1, 26.4, 27.0, 27.7, 32.3, 33.1, and 40.4; the irrigation facilities at Site Miles 40.3 left and 50.4 right and the Steamboat Slough left bank at Site Mile 24.8. The sites, as listed on the inclosure, were completed on 21 November 1976 in accordance with specification No. 4559, Contract No. DACN05-76-C-0015; Drawing No. 50-4-4598.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL. 86-545, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 2 December 1976 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 102, 103, 104, 110, 111 and 112 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

DONALD H. O'SHEI  
Colonel, CE  
District Engineer

*M* ROMPALA/pl  
*M* McBRIDE  
A. SMITH  
HENSON  
PROFASCO  
CREMER  
8 O'SHEI

*Copy to Kawaya  
25-1-77*

*Units 102,  
103, 104,  
110, 111, 112*

1 Incl  
As stated

Copy furnished:  
DWR, ATTN: R. Franson & Robert Pottex

OCE  
SPD

cc  
Flood Control Unit  
Valley Res Ofc  
Engr Div (Levee & Chan)  
(Prog Dev Br)

F&A (Kalal)

SUMMARY OF PORTION OF SACRAMENTO  
RIVER BANK PROTECTION PROJECT UNIT # 28  
SACRAMENTO RIVER RIGHT BANK

SITE MILE	STONE PROTECTION	L.F.
17.3	80+00 to 92+50	1250
17.7	51+50 to <del>57+00</del>	550
18.1	28+00 to 37+00	900
19.1	19+70 to 31+00	1130
26.4	285+50 to 292+50	700
	295+50 to 299+50	400
27.0	257+00 to 260+70	370
	262+00 to 269+50	750
27.7	222+80 to 229+50	670
32.3	0+00 to 3+63	363
33.1	8+00 to 16+00	800
40.4	39+00 to 45+00	600

SACRAMENTO RIVER LEFT BANK

*12.9	116+50 to 129+80	1330
13.1	96+50 to 103+50	700
14.9	32+00 to 36+00	400
15.3	8+50 to 15+50	700
18.6	1+00 to 5+30	430
23.1	0+00 to 5+00 AH	500
	111+07 to 112+07 BK	100
25.1	11+00 to 24+00	1300
26.4	5+00 to 7+70	270
26.7	126+50 to 134+00	750
27.2	102+50 to 107+00	450
32.1	11+53 to 19+61	808
	69+78 to 70+00	22
34.1	73+50 to 85+00	1150

STEAMBOAT SLOUGH LEFT BANK

*24.8 *Extended	0+00 to 5+80	580
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*Units 102, 103, 104,  
110, 111, 112*

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STATE OF CALIFORNIA  
THE RECLAMATION BOARD

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January 29, 1976

District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Dear Sir:

The Reclamation Board at its regular meeting of January 23, 1976, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 28 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of January 15, 1976.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 50.4, 51.6, 56.0, 57.1 Right Bank and Sites Miles 40.3, 41.6 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-4898, Specification No. 4559 and Contract No. DACW 05-76-C-0015, insofar as could be determined visually.

The irrigation facilities at Sites Miles 50.4 Right Bank and 40.3 Left Bank, Sacramento River, are not complete. It is understood that these facilities will be completed and transferred at a later date.

Sincerely,

/s/ P. C. Walters  
P. C. WALTERS  
Chief Engineer and  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

SPECO-0

15 January 1976

The Reclamation Board  
State of California  
1416 - 9th Street, Room 335  
Sacramento, California 95814

*Jme*

Gentlemen:

Reference is made to the joint inspection of 14 January 1976, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 28) to the State of California for operation and maintenance. This flood control work consists of bank sloping and placement of stone protection on the Sacramento River left bank at Site Miles 40.3 and 41.6 and right bank at Site Miles 50.4, 51.6, 56.0 and 57.1. The sites, as listed on the inclosure, were completed on 14 January 1976 with the exception of the irrigation facilities, in accordance with Specification No. 4559, Contract No. DACW05-76-C-0015, Drawing No. 50-4-4898.

*gc ke*  
ROMPALA/  
k1c/R2

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 15 January 1976 to the State of California for operation and maintenance. The irrigation facilities at Site Miles 40.3 and 50.48 will be completed at a later date.

*mc*  
A. SMITH  
HENSON

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 111, 114 and 116 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

*PROFASCO*  
32  
COUNSEL  
*ve*  
ROCKWELL  
*h*

F. G. ROCKWELL, JR.  
Colonel, CE  
District Engineer

*Units 111, 114, 116*

1 Incl  
As stated

Copy furnished:  
DNR, ATTN: R. Franson & Carl King

cc: Flood Control Unit  
Valley Res Ofc  
Engr Div (Levee & Chan)  
(Prog Dev Br)  
F&A (Kalal)

OCE  
SPD

SUMMARY OF PORTION OF SACRAMENTO  
RIVER BANK PROTECTION PROJECT, UNIT 28

RIGHT BANK

SITE MILE	STONE PROTECTION	L.F.
50.4	117+50 to 121+00 =	350
51.6	48+50 to 54+90 =	640
56.0	53+40 to 61+30 =	790
57.1	2+50 to 5+10 =	260

LEFT BANK

40.3	72+00 to 79+00 =	700
41.6	85+00 to 88+00 =	300

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3040

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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September 20, 1973

District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, California 95814

Refer to: 4130.60.110

Dear Sir:

Reference is made to your letter of September 10, 1973, concerning the transfer of a portion of the Sacramento River Bank Protection Project, Unit No. 23, to the State of California, for operation and maintenance.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Site Miles 21.4, 22.5, 27.5, and 29.7 all Left Bank, Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawing No. 50-4-4687, Specification No. 4041, and Contract No. DACW05-73-C-0012, insofar as could be determined visually.

The Reclamation Board at its regular meeting of September 14, 1973, formally accepted for operation and maintenance, the completed flood control work on the above referenced sites.

Sincerely yours,

/s/ A. E. McCollam  
A. E. McCOLLAM  
Chief Engineer and  
General Manager

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

10 September 1973

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 23), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and the placement of stone bank protection on the Sacramento River left bank at Site Miles 29.7, 27.5, 22.5 and 21.4. The sites, as listed on the inclosure, were completed on 5 September 1973 in accordance with Specification No. 4041, Contract No. DACW05-73-C-0012, Drawing No. 50-4-4687.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10 and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 10 September 1973, to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement No. 104, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

*Should be 103 of 111*  
Sincerely,

CHRIST F. POTAMOS  
Lieutenant Colonel, CE  
Acting District Engineer

- 2 Incis
- 1. As stated
- 2. General Orders No. 4

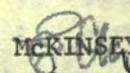
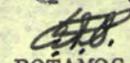
Copy furnished:  
DWR, ATTN: John Wright & Carl King

OCE  
SPD

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WAIT/dc  
itel

  
COLEMAN

  
HENSON

  
MORINSEY  
  
POTAMOS

*Units 103, 111*

*corrected copy  
to L of C. 2 pages  
9/11*

*Copy to L of C  
by Long Bar*

*12 Sept 73  
9/11*

Valley Res Ofc  
F&A (Jones)

cc: Engr (Lev & Chan)  
Engr (Prog & Dev)

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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February 15, 1973

District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, California 95814

Refer to: 4130.60.110

Dear Sir:

Reference is made to your letter of January 15, 1973, concerning the transfer to the State of California, for operation and maintenance, a portion of the Sacramento River Bank Protection Project, Unit No. 23.

The flood control work consisted of clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Site Mile 54.5 Right Bank and Site Mile 44.1 Left Bank, Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawing No. 50-4-4687, Specification No. 4041, and Contract No. DACW05-73-C-0012, insofar as could be determined visually.

The Reclamation Board at its regular meeting of February 9, 1973, formally accepted from the District Engineer for operation and maintenance, the completed flood control work on the above referenced sites.

Sincerely yours,

/s/ Allan I. Wendroff  
for A. E. McCOLLAM  
Chief Engineer and  
General Manager

CERTIFIED MAIL #608902  
RETURN RECEIPT REQUESTED

*RMP Clark file*



SPKCO-0

15 January 1973

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 23), to the State of California for operation and maintenance. This portion of flood control work consists of levee sloping and the placement of stone bank protection on the Sacramento River right bank at Site Mile 54.5 and left bank at Site Mile 44.1. The sites, as listed on the inclosure, were completed on 11 January 1973 in accordance with Specification No. 4041, Contract No. DACW05-73-C-0012, Drawing No. 50-4-4687.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10 and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 15 January 1973 to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 111 and 116, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES C. DONOVAN  
Colonel, CE  
District Engineer

*m*  
ROMPALA/kg  
*P*  
COLEMAN  
*B*  
HENSON  
*for J.C.D.*  
MCKINSEY  
DONOVAN  
*AS*

1 Incl  
as

Copy furnished:  
DWR, ATTN: John Wright & Carl King  
OCE  
SPD

*Units 111, 116*

*copies to Landman  
Pray Dav.*

28 FEB 73

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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18 December 1972

Colonel James C. Donovan, District Engineer  
Sacramento District  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, CA 95814

Refer to: 4130.60.109

Dear Colonel Donovan:

Reference is made to your letter of November 24, 1972, concerning the transfer to the State of California, for maintenance and operation, a portion of the Sacramento River Bank Protection Project, Unit No. 21.

The flood control work consisted of selective clearing, levee bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Site Miles 26.5, 28.0, 33.6, 34.7, 38.7, 43.1 Left Bank and Site Miles 16.0 and 40.9 Right Bank, Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This work has been constructed in conformance with Drawing No. 50-4-4487, Specification No. 3680, Contract No. DACW05-72-C-0046, insofar as could be determined visually.

The Reclamation Board at its regular meeting of December 15, 1972, formally accepted from the District Engineer for operation and maintenance, the completed work on the above-referenced sites.

Sincerely yours,

/s/ A. E. McCollam  
A. E. McCOLLAM  
Chief Engineer and  
General Manager

EXHIBIT F

*R.M. Clark file*



SPKCO-0

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

This is in regard to the joint inspection of 21 November 1972 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit No. 21), to the State of California for operation and maintenance.

The flood control work consisting of levee bank sloping and placement of stone bank protection on the Sacramento River left bank at site miles 26.5, 28.0, 33.6, 34.7, 38.7 and 43.1, and right bank at site miles 16.0 and 40.9 is listed on the inclosure. The work was completed on 21 November 1972, in accordance with Specification No. 3680, Contract No. DACW05-72-C-0046, and Drawing No. 50-4-4487.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd session and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 24 November 1972, to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operations and Maintenance Manual, Supplements Nos. 104, 111 and 112. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES G. DONOVAN  
Colonel, CE  
District Engineer

1 Incl  
As stated

Copy furnished:  
DWR, ATTN: John Wright, Carl King  
HQDA (DAEN-OWO)  
SPD

F & A Br (Jones)  
Valley Res Ofc

(Lev & Chan)  
(Prog Dev)

cc: Engr

*[Signature]*  
ROMPALA/dc  
itel

*[Signature]*  
COLEMAN

*[Signature]*  
HENSON

*[Signature]*  
MCKINSEY

*[Signature]*  
LORD

DONOVAN

*Units 104, 111, 112*

*[Signature]*  
*hb*

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION  
UNIT 21 SACRAMENTO RIVER

LEFT BANK

SITE MILE	STONE PROTECTION	L.F.	STONE TOEWALL	L.F.
26.5	7+65 to 11+63	398		
28.0	61+00 to 65+30	430		
33.6	84+00 to 110+00	2600		
34.7	33+80 to 50+00	1620		
38.7	150+00 to 173+35	2335		
43.1	7+00 to 12+28	528		

7911

RIGHT BANK

16.0	45+40 to 49+30	390		
40.9	16+00 to 29+00	1300	16+00 to 20+70	470

1690 ok

Total 9601 ok

*Units 104, 111, 112*

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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December 9, 1971

District Engineer  
Corps of Engineers  
U. S. Army  
650 Capitol Mall  
Sacramento, California 95814

Refer to: 4130.60.108

Dear Sir:

Reference is made to your letters of November 18 and 23, 1971, concerning the transfer to the State of California for maintenance and operation a portion of the Sacramento River Bank Protection Project, Unit No. 19, consisting of Sites Mile 24.7, 30.4, 35.2, 42.0, 42.9 Left Bank and 28.3, 29.3, 42.5, 51.3 Right Bank of the Sacramento River.

This work was constructed in accordance with Specification No. 3427, Contract No. DACWO5-71-C-0021, Drawing No. 50-4-4378.

The Reclamation Board, at its regular meeting of December 3, 1971, formally accepted this portion of Unit 19 for maintenance and operation.

Sincerely yours,

/s/ A. E. McCollam  
A. E. McCOLLAM  
Chief Engineer and  
General Manager

EXHIBIT F

SPKCO-0

23 November 1971

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection of 9 November 1971, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #19), to the State of California for operation and maintenance.

The flood control work consists of bank sloping, and placement of stone bank protection on the Sacramento River left bank at Site Miles 24.7, 30.4, 35.2, 42.0, and 42.9 as listed on inclosure. The work was completed on 9 November 1971 in accordance with Specification No. 3427, Contract No. DACW05-71-C-0021, Drawing No. 50-4-4373.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session and Section 2304(a), Title 10 and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 9 November 1971 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 103 and 111, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES C. DONOVAN  
Colonel, CE  
District Engineer

ROMPALA/jmc

COLEMAN

HENSON

HART

DONOVAN

1 Incl (dupe)  
As stated

Copy furnished:  
DWR, ATTN: John Wright  
HQDA (DAEN-ZA)  
SPD

*Copies to Colburn & Huber*

24 NOV 71

F&A (Jones)

Valley Res Ofc

Engr-Prog Dev

Engr-Lev & Chan

cc:

*Units 103, 111*

*Handwritten signature*

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION

UNIT 19, SACRAMENTO RIVER

LEFT BANK

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>	<u>Stone Toe Wall</u>	<u>L.F.</u>
24.7	36+00 to 49+00	1300		
30.4	150+00 to 158+00	800		
35.2	8+03 to 19+59	1156	17+50 to 18+25	75
42.0	55+74 to 77+00	2126		
42.9	12+28 to 24+15	1187	21+50 to 23+00	150
		<u>6569</u>		

units 103, 111

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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Sep 16, 1970  
File No: 4130.60.107  
Your Contract 69-C-0076

District Engineer  
U. S. Army Corps of Engineers  
650 Capitol Mall  
Sacramento, California 95814

Dear Sir:

Reverence is made to your letter of August 31, 1970, concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project for maintenance and operation. The transferred sites were as follows:

Sacramento River	
<u>Left Bank</u>	<u>Right Bank</u>
Mile 39.2	Mile 30.6
Mile 37.75	Mile 28.8
Mile 37.6	Mile 20.4
Mile 33.0	Mile 19.4
Mile 32.2	
Mile 28.4	
Mile 22.7	
Mile 22.2	
Mile 16.7	
Mile 15.4	

This work was constructed in conformance with specification No. 3349, Contract No. DACW05-69-C-0076, drawing No. 50-4-4283 and completes the work to be done on Unit No. 15.

The Reclamation Board at its meeting of September 14, 1970, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

/s/ A. E. McCollam  
A. E. McCOLLAM  
Chief Engineer and General Manager

EXHIBIT F

SPKGO-0

31 August 1970

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection of 25 August 1970 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #15), to the State of California for operation and maintenance.

The Flood control work consisting of levee setback, bank sloping and placement of stone bank protection on the Sacramento River left bank at Site Miles 15.4, 16.7, 22.1, 22.7, 28.4, 32.3, 33.0, 37.6, 37.75 & 39.2 and on the right bank at Site Mile 19.4, 20.4, 28.8, & 30.6 as listed on the inclosure. The work was completed on 25 August 1970, in accordance with Specification #3349, Contract DACW05-68-C-0076, Drawing No. 50-4-4283.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session; and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 31 August 1970 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplements No. 103, 104 & 111, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES R. HIGHMAN  
Lieutenant Colonel, CE  
Acting District Engineer

1 Incl  
AS

Copy furnished:  
O.C.E.  
S.P.D.  
D.W.R.

cc: Engr-Lev & Chan; Engr-Prog Dev; Valley; F&A (Cordano)

*[Signature]*  
ROMPALA/

*[Signature]*  
COLEMAN

*[Signature]*  
HENSON

*[Signature]*  
HART

*[Signature]*  
HIGHMAN

*[Signature]*

*Unit 15 1031  
10-1-111*

*to Osborn & Thibert 2 Sep 70*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
PORTION OF UNIT 15 SACRAMENTO RIVER

M11-101  
1501 10-1-10  
M11-101

LEFT BANK:

<u>SITE MILE</u>	<u>LEVEE ENGARGEMENT STATION</u>	<u>L.F.</u>	<u>STONE PROTECTION STATION</u>	<u>L.F.</u>	<u>STONE TOE WALL STATION</u>	<u>L.F.</u>
15.4			61+23 to 66+00	477		
16.7	0+00 to 11+25	1125	0+00 to 12+00 0+00 to 2+14Ah	1415	0+00 to 1+75	175
22.1			60+58 to 68+00	742		
22.7			30+22 to 37+45	723		
28.4			34+62 to 42+55	793		
32.2	54+70 to 62+00	730	56+20 to 62+00	580	56+60 to 58+80	220
33.0			12+70 to 32+35	1965		
37.6	18+00 to 26+66	866	19+60 to 26+66	706	24+39 to 25+82	143
37.75			7+10 to 8+72	162		
39.2			134+150+00	1600	145+85 to 148+20	235

RIGHT BANK:

19.4	0+00 to 9+00	900	0+00 to 9+00	900	0+75 to 1+25	50
20.4			26+00 to 33+50	750		
28.8	153+00 to 171+65	1865	153+00 to 177+55	2455	161+50 to 165+60 169+60 to 170+50	410 90
30.6	56+00 to 78+40	2240	56+35 to 78+40	2205	58+50 to 58+90	40

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COPY

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

COPY

November 13, 1969

District Engineer  
Corps of Engineers  
U. S. Army  
650 Capitol Mall  
Sacramento, California 95814

Dear Sir:

Reference is made to your letter of October 30, 1969 concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Work at seven critical locations on the right and left banks of the Sacramento River between Site Mile 12.4 and Site Mile 53.3 for operation and maintenance.

The work was constructed in accordance with Specification No. 3649, Contract No. DACW05-69-C-0064, Drawing No. 50-4-4476.

The Reclamation Board, at its meeting of November 7, 1969, formally accepted the above-referred to work for operation and maintenance.

Sincerely yours,

/s/ A. E. McCOLLAM  
A. E. McCollam  
Chief Engineer and  
General Manager

EXHIBIT F

SPKCO-0

30 October 1969

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection of 20 October 1969, made for the purpose of transferring a portion of the Sacramento River Bank Protection Work at 7 critical locations on the right and left banks of the Sacramento River between Mile 12.4 and Mile 53.3, to the State of California for operation and maintenance.

The flood control work consisting of levee setback, bank sloping and placement of stone bank protection on the Sacramento River left bank at Site Miles 12.4, 28.1 and 30.4 and right bank at Site Miles 19.9, 20.1, 45.9 and 53.3 is listed on the inclosure. The work was completed on 20 October 1969, in accordance with Specification No. 3649, Contract No. DACW05-69-C-0064, Drawing No. 50-4-4476.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session; and Section 2304(a), Title 10; & Section 5 of the Flood Control Act of 18 August 1941 as amended (Public Law 99, 84th Congress, 1st Session); and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto is transferred to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 104, 111, 114 & 116, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

GEORGE B. FINK  
Colonel, CE  
District Engineer

**CERTIFIED MAIL**  
RETURN RECEIPT REQUESTED

1 Incl  
as stated

Copy furnished:

O.C.E.

S.P.D.

CC: Engr Div-Lev&Chan; Engr Div-Prog Dev; Valley; F&A(Cordano)

*JK*  
ROMPALA/pp

*JK*  
COLEMAN

*JK*  
HENSON

*JK*  
HART

*JK*  
FINK

*Units 104,  
111, 114,  
116*

*To OSBUC and Huber 7 NOV 69*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT

RIGHT BANK

<u>LEVEE UNIT SITE MILE</u>	<u>LEVEE ENLARGEMENT STATION</u>	<u>L.F.</u>	<u>STONE PROTECTION STATION</u>	<u>L.F.</u>
19.9	53+60 to 56+35	= 275	53+60 to 56+35	= 275
20.1	39+32 to 49+00	= 968	39+85 to 48+00	= 815
45.9	89+50 to 94+00	= 450	89+50 to 93+50	= 400
53.3	9+00 to 15+00	= 600	9+00 to 15+00	= 600

LEFT BANK

12.4			1+00 to 8+70	= 770
28.1			52+00 to 61+30	= 930
30.4			157+50 to 166+00	= 850

*Units 104, 111, 114,  
116*

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THE RECLAMATION BOARD  
STATE OF CALIFORNIA

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February 7, 1968

4130.60.106

District Engineer  
Corps of Engineers  
U. S. Army  
650 Capitol Mall  
Sacramento, California 95814

Dear Sir:

Reference is made to your letter of February 1, 1968 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 11, Site Miles 29.4, 29.9, 31.0, 31.3, 31.9 and 36.5, left bank, Sacramento River and Site Miles 1.3 and 1.7, left bank, Three Mile Slough, in accordance with Specification No. 3157.

The Reclamation Board, at its meeting of February 2, 1968, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

/s/ A. E. McCOLLAM  
A. E. McCollam  
Chief Engineer and  
General Manager

EXHIBIT F

1 February 1968

SPKKO-F

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

Reference is made to our letter of 23 January 1968 and the joint inspection of 28 November 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection work (Unit #11), to the State of California for operation and maintenance. This letter supercedes our letter of 23 January 1968.

The flood control work consisting of levee enlargement, bank sloping and placement of stone bank protection on the Sacramento River at Site Miles 29.4, 29.9, 31.0, 31.3, 31.9 & 36.5, left bank and on Three Mile Slough at Site Miles 1.3 & 1.7, left bank; is listed on the attached inclosure. The work was completed on 15 January 1968, in accordance with Specification No. 3157, Contract No. DACW05-67-C-0027, Drawing No. 50-4-4047.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session; and Section 2304(a), Title 10.

The flood control work as described on the attached inclosure now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 102 & 111, Sacramento

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Units 102, 111

SPKCO-F  
The Reclamation Board

1 February 1968

River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

✓ 1 Incl  
as stated

CRAWFORD YOUNG  
Colonel, CE  
District Engineer

○ Copy furnished:  
Dept Water Resources

○ O.C.E. ✓ FEB 1968  
S.P.D. ✓

○ cc: Engr-Lev & Chan  
Engr-Prog Dev  
Valley  
F&A (Cordano)

*m*  
ROMPALA/pp

*[Signature]*  
COLEMAN

*[Signature]*  
H

*[Signature]*  
YOUNG

1/31

*cn*

Units 102,111

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
UNIT #11

<u>LEEVE UNIT SITE MILE</u>	<u>LEEVE ENLARGEMENT STATION</u>	<u>LINEAL FEET</u>	<u>STONE PROTECTION STATION</u>	<u>LINEAL FEET</u>	<u>ROCK TOP WALL STATION</u>	<u>LINEAL FEET</u>
<u>LEFT BANK</u>						
29.4	201+00 to 225+50	2450	201+00 to 225+50	2450	221+75 to 222+25	50
29.9	180+00 to 185+75	575	180+00 to 185+75	575		
31.0	117+00 to 138+00	2100	117+00 to 138+00	2100		
31.3	95+50 to 117+00	2150	95+50 to 117+00	2150		
31.9	74+30 to 79+80	550	69+78 to 71+85	207		
	69+78 to 74+30 (shaping only)	452	72+35 to 78+80	645		
36.5	42+80 to 48+15 (shaping only)	535	42+80 to 48+15	535	43+50 to 44+60	110

THREE MILE SLOUGH, LEFT BANK

1.3			28+00 to 32+86	486		
1.7			0+00 to 15+15	1515		

*Units 102, 111*

THE RECLAMATION BOARD

ROOM 1335, RESOURCES BUILDING, 1416 9TH STREET • SACRAMENTO 95814



STANLEY W. KRONICK, *President*  
J. J. MADIGAN, *Vice President*  
WALLACE McCORMACK, *Secretary*  
GEORGE W. NICKEL, JR.  
HAROLD J. O'BANION  
H. TERRILL SARTAIN  
DONALD L. WEILER  
COL. A. E. McCOLLAM, *General Manager*

DEC 23 1966

Refer to: 4130.60.103  
Contract No. 66-15

District Engineer  
Corps of Engineers  
U. S. Army  
650 Capitol Mall  
Sacramento, California

Dear Sir:

Reference is made to your letter of November 29, 1966 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 6, Sites Mile 31.3, 31.8, 40.6 and 41.2, right bank and Sites Mile 36.9, 37.4, 40.5 and 41.5 left bank, in accordance with Specification No. 3058.

The Reclamation Board, at its meeting of December 15, 1966, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

*A. E. McCollam*  
A. E. McCOLLAM  
General Manager

JHMacC:pa

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

*Units*  
*104, 111, 112*  
*copy to Kelly*

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29 November 1966

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection of 9 November 1966, made for the purpose of transferring a portion of the Sacramento River Bank Protection work to the State of California for operation and maintenance.

The flood control work consists of levee enlargement, levee sloping and placement of bank protection on the Sacramento River at eight different sites. These sites are located at Site Miles 31.3, 31.8, 40.6 and 41.2 on the right bank, and Site Miles 36.9, 37.4, 40.5 and 41.5 on the left bank. The length of the work on the sites is listed on the attached inclosure. The job was completed on 9 November 1966, in accordance with Specification No. 3058, Contract No. DA-04-167-CIVENG-66-15, Drawing No. 50-4-3848. The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session, and Section 2304(a), Title 10.

The flood control work now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 103, 104, 111 and 112, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

/s/ T. S. Meade  
T.S. MEADE  
Lieutenant Colonel, CE  
Acting District Engineer

EXHIBIT F

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT  
BETWEEN SACRAMENTO & ISLETON

SACRAMENTO RIVER RIGHT BANK:

LEVEE UNIT SITE MILE	<u>STONE PROTECTION</u>	<u>LINEAL FEET</u>	<u>LEVEE ENLARGEMENT</u>	<u>LINEAL FEET</u>	<u>BANK SLOPING</u>	<u>LINEAL FEET</u>
31.3	(38+15to32+00 0+00to2+80	895	32+30to38+15) 0+00to3+30 )	915	32+00to32+30	30
31.8	3+50to17+70	1420	4+00to17+70	1370	3+50to4+00	50
40.6	28+00to39+00	1100	32+50to37+50	500	(28+00to32+50 (37+50to39+00	450) 150)
41.2	3+00to16+50	1350	2+00to16+00	1400		

SACRAMENTO RIVER LEFT BANK:

36.9	10+00to20+35	1035	12+00to22+00	1000	10+00to12+00	200
37.4	26+00to39+60	1360	25+00to38+25	1325	38+25to39+60	135
40.5	55+45to66+00	1035			55+45to66+00	1055
41.5	2+00to13+50	1150	1+00to11+00	1000		

28 June 1966

C  
O  
P  
Y

THE RECLAMATION BOARD  
STATE OF CALIFORNIA

C  
O  
P  
Y

Refer to: 4130.60.103  
Contract 66-15

District Engineer  
Corps of Engineers  
U. S. Army  
650 Capitol Mall  
Sacramento, California

Dear Sir:

Reference is made to your letter of May 2, 1966 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 6, Sites Mile 28.7 and 28.2, left bank, and Sites Mile 20.8, 25.3, 26.08 and 29.65, right bank, in accordance with Specification No. 3058.

The Reclamation Board, at its meeting of June 23, 1966, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

/s/ A. E. McCollam  
A. E. McCOLLAM  
General Manager

EXHIBIT F

1 October 1964

The Reclamation Board  
 State of California  
 1215 "O" Street  
 Sacramento, California 95814

Gentlemen:

Reference is made to the joint inspection made on 14 & 15 September 1964, of flood control work pertaining to the Sacramento River Bank Protection Project for the purpose of transferring this work, upon completion, to the State of California, for operation and maintenance.

The flood control work, designated as Contract No. 2, consisting of levee enlargement, shaping and placement of bank protection at 16 locations listed below was completed on 28 September 1964, in accordance with Specification No. 2957, Contract DA-04-167-CIVENG-64-51 and Drawing No. 50-4-3741. This work also includes the additional roadway paving replacement as listed below:

<u>LEEVE UNIT</u>	<u>LINEAL FEET</u>	<u>RIGHT OR LEFT BANK</u>	<u>ADDITIONAL PAVING REPLACEMENT</u>
Site Mile 12.85	650	Left	0 L.F.
Site Mile 14.70	630	Left	0 L.F.
Site Mile 19.45	1,105 Site A&B	Right	505 L.F.
Site Mile 24.95	2,856 Two Sites	Right	100 L.F.
Site Mile 29.05	698	Left	0 L.F.
Site Mile 31.30	650	Right	200 L.F.
Site Mile 37.05	950	Left	0 L.F.
Site Mile 42.65	950	Left	100 L.F.
Site Mile 43.50	1,300	Left	350 L.F.
Site Mile 44.50	700	Left	265 L.F.
Site Mile 46.85	737	Right	150 L.F.
Site Mile 26.70 Sutter Sl.	680	Left	70 L.F.
Three Mile Slough	960 Site A&B	Left	0 L.F.

The flood control work described above now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said flood

SPKKO-F  
The Reclamation Board

control work, together with the waterway banks contiguous thereto are transferred to the State of California for operation and maintenance.

These sites will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 102, 104, 110, 111 and 114, Sacramento River Flood Control Project, and furnished your office at a later date.

Sincerely yours,

ROBERT E. MATHE  
Colonel, CE  
District Engineer

GOODWIN J. KNIGHT  
GOVERNOR

A. H. GALLAWAY, JR., SACRAMENTO  
PRESIDENT  
ROVER SHANNON, YUBA CITY  
VICE PRESIDENT  
GEO. H. HOLMES, CLARKSBURG  
SECRETARY  
W. P. HARKEY, GRIDLEY  
GEO. R. WILSON, WALNUT GROVE  
GEO. E. LODI, ARBUCKLE  
DOUGLAS B. COHEN, BANTA

THE RECLAMATION BOARD  
OF THE  
STATE OF CALIFORNIA  
1100 O STREET  
SACRAMENTO 14, CALIFORNIA

A. M. BARTON  
CHIEF ENGINEER AND GENERAL MANAGER  
EDMUND G. BROWN, ATTORNEY GENERAL  
LEGAL ADVISER  
G. F. MELLIN  
ASSISTANT ENGINEER AND APPRAISER  
DONALD D. LEMMON  
ASSISTANT SECRETARY

July 21, 1955

District Engineer  
Sacramento District  
U. S. Corps of Engineers  
P. O. Box 1739  
Sacramento, California

Dear Sir:

Reference is made to your letter dated 14 Jul 1955, concerning the transfer of levee sections and contiguous banks to the State of California for operation and maintenance, your File No. SPKKO-P 824.3 (Sac. Riv. FCP).

The Reclamation Board at its meeting on July 20, 1955, deferred action on the above indicated transfers until such time as the report of its consulting engineers has been completed.

Yours very truly,

THE RECLAMATION BOARD  
A. M. BARTON  
Chief Engineer and General Manager

By

*Donald D. Lemmon*

DONALD D. LEMMON  
Assistant Secretary

DDL:emw

Contract. 1166  
Sections 445  
to 447 incl.  
Unit III

REGISTERED MAIL  
Return Receipt  
Requested

SPKKC-S 824,3 (Sacto Riv.)

16 APR 1954

The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento, California

Gentlemen:

Reference is made to your letter dated 5 February 1954, requesting that the Sacramento District consider the easterly levee of the Sacramento River through the town of Hood to be completed as to grade and section. Reference is also made to Sacramento District's letter dated 1 April 1954 indicating that while said levee is slightly below grade, it is considered satisfactory for transfer to the State of California for maintenance in view of its large section and compacted condition.

The easterly levee of the Sacramento River, through the town of Hood, from River Mile 38.3 to 38.5, referred to above forms an integral part of the Sacramento River Project; therefore, in accordance with the above, said levee section, together with the waterway bank contiguous thereto, is hereby transferred to the State of California in its present condition for operation and maintenance.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under Paragraph 208.10 (10) of these regulations, a maintenance

*See also Letter No. 50-A  
dated 17 May 1954.*

*Letter No. 50*

*Transfer Unit  
No. 378*

Unit III

DeARRIETA

SPKKC-S 824.3 (Sacto. Riv)  
The Reclamation Board

manual covering this section of levee is in process of preparation and will be furnished to you upon completion.

A copy of this letter is being transmitted to the State Engineer.

Sincerely yours,

1 Incl

1. Flood Control Regulations

cc: O.C.E. w/o incl.  
Sp.Pac Div w/o incl  
Engr. Div w/o incl  
Sacto. Proj. Office w/o incl.

HARL G. PEACOCK  
Lt Col, GS  
Acting District Engineer

Transfer Unit  
No. 378.

A. R. GALLAWAY, JR., SACRAMENTO  
PRESIDENT

GROVER SHANNON, YUBA CITY  
VICE PRESIDENT

GEO. H. HOLMES, CLARKSBURG  
SECRETARY

W. P. HARKEY, GRIDLEY  
GEO. R. WILSON, WALNUT GROVE  
GEO. E. LODI, ARBUCKLE  
DOUGLAS B. COHEN, BANTA

EARL WARREN  
GOVERNOR

## THE RECLAMATION BOARD

OF THE  
STATE OF CALIFORNIA

1100 O STREET  
SACRAMENTO 14, CALIFORNIA

April 2, 1952

A. M. BARTON  
CHIEF ENGINEER AND GENERAL MANAGER

EDMUND G. BROWN, ATTORNEY GENERAL  
LEGAL ADVISER

G. F. MELLIN  
ASSISTANT ENGINEER AND APPRAISER

S. A. HONAKER  
ASSISTANT SECRETARY

District Engineer  
Sacramento District  
Corps of Engineers, U. S. Army  
P. O. Box 1739  
Sacramento 8, California

Dear Sir:

1. Reference is made to your letter of 8 December 1951, File SPKKA 824.3 (Sac.Riv. F.C.P.), transferring 14 reaches of the levees of Merritt Island and their contiguous waterway banks to the Reclamation Board for maintenance and operation.

2. Merritt Island, incorporated as Reclamation District No. 150, is a separate maintenance unit which has constructed its entire levee system and maintained the same at the sole cost of the owners in that district. Navigation is a material factor in bank deterioration in this section of the Sacramento River.

3. The Reclamation Board on December 18, 1951, formally accepted Item "b-4", westerly levee of the Sacramento River from Mile 35.15 to Mile 35.86, together with its contiguous waterway bank for flood control operation and maintenance. This is a separate completed contractual unit.

4. The remainder of the reaches of levees and contiguous banks listed are not accepted at this time. They do not constitute units practicable of separate maintenance. Reclamation District No. 150 is and will continue to maintain its levee system for flood protection. The Reclamation Board will continue to accept contractual construction units completed by the Corps of Engineers and will accept for flood control operation and maintenance all of the levee system of Merritt Island, together with the contiguous waterway banks when the Federal construction obligation is completed.

Yours very truly,

THE RECLAMATION BOARD

By

A. M. BARTON

Chief Engineer and General Manager

AMB:FK

cc: Chief of Engineers, Washington, D. C.  
Division Engineer - South Pacific Division  
Corps of Engineers, U. S. Army  
P. O. Box 3339, Rincon Annex, San Francisco  
State Engineer - Sacramento

Reach No. 7

Items  
77 to 90

This copy was  
furnished on  
24 Feb. 1953  
B. A.

Accepted  
Items

December 18, 1951

The Board accepted the transfer from the Corps of Engineers, in letters of dates listed below, the following reaches of levees and their contiguous waterway banks where applicable for flood control operation and maintenance, as complete and meeting the requirements of the Sacramento River Flood Control Project.

No.	Date of Letter	Levee Location	Remarks
①-②	1 Dec. 1951	N. and S. Training* Levees Moulton Weir*	Maintained by State
③-④	Do	N. and S. Training* Levees Colusa Weir*	Maintained by State
⑥	3 Dec. 1951	W. Levee Sacramento River, Mile 177.5 Mile 174.1	Maintained as Maintenance Area No. 2
⑨	4 Dec. 1951	E. Levee Yolo By-pass Fremont* Weir to Miner Slough*	N. 2 mi. maintained by State. Remainder by local districts. Conditioned upon completion of levee section and no acceptance of banks of Sacramento Deep Water Channel.
⑩ ⑪	Do	N.&S. Levees Sacra- mento By-pass*	Maintained by State. Waterward slopes on 4 to 1 not required.
⑫ ⑬	6 Dec. 1951	Back levee Egbert District*	Maintained by R. D. No. 536
⑭ ⑮	6 Dec. 1951	W. Levee Yolo By-pass Lindsey* Slough to Watson Hollow Drain*	Maintained by R. D. No. 536
⑰ ⑱	Do	N. Levee Watson Hollow Drain*	Do
⑲ ⑳	6 Dec. 1951	W. Levee Sacramento River Mile 59.0 to Lake Wash- ington Barge Canal	Maintained by R. D. No. 900
㉑ ㉒	Do	W. Levee Sacramento Riv. Mile 50.8 to 50.5	Bank protection contract. Maintained by R. D. No. 765

Copy to USED.

①

Accepted Items

No. Date of Letter

Levee Location

Remarks

6 6 Dec. 1951

Levees of Wadsworth Canal\*  
South levees of E. and W.  
Intercepting Canals.

Maintained by State. Water-  
ward slopes on 4 to 1 not  
required.

12-13-14-15

7 7 Dec. 1951

Site 2 Part A. W. Levee  
Sacramento River-Mile  
28.5 -Grand Island.

Maintained by R.D. No. 3.  
Completed contract.

= 329

87-A

= 331

89-A

Site 1, Part B. E. levee  
Sacramento River-Mile 15.0  
Brannan Island.

Maintained by R.D.No. 2067  
Completed contract.

8 8 Dec. 1951

W. levee Sacramento River  
Mile 163.8 to Mile 143.5  
except 320 ft. at Colusa  
Warehouse & Mile 146.1  
to Mile 146.4.

Maintained as Maintenance  
Area No. 1.

51-52-53-54-55-56-57

8 Do

E. levee Sacramento River,  
Mile 153.3 to Mile 152.7;  
Mile 149.9 to Mile 149.7;  
Mile 149.4 to Mile 149.0;  
at Colusa Weir; Mile 143.3  
to Mile 140.2; Mile 139.3  
to Mile 138.2.

Maintained by State  
Separate completed contracts.

58-59-60-61-62-63

8 Do

E. levee Sacramento River  
Mile 138.2 to Mile 137.9;  
Mile 136.9 to Mile 133.8;  
Mile 133.2 to Mile 132.3;  
Mile 131.8 to Mile 125.9;  
Mile 125.8 to Mile 123.1;  
Mile 122.6 to Mile 122.0.

Maintained by R.D.No. 70,  
Completed contracts.

64-65-66-67-68-69-70

8 Do

West levee, Sutter By-pass\*

Maintained by R.D.Nos. 70,  
1660, 1500. Condition upon  
completion of remaining  
part to standard section.

71-72-73

8 Do

North levee Tisdale  
By-pass†

Maintained by R.D.No. 1660.  
Waterward slope of 4 to 1  
not required.

74

8 Do

South levee Tisdale  
By-pass†

Maintained by R.D.No. 1500.  
Waterward slope of 4 to 1  
not required.

75

8 Do

East levee Sutter  
By-pass\*.

Maintained by State.

76

9 Do

W. levee Sacramento River  
Mile 35.15 to 35.86.

Maintained by R.D.No. 150  
(Merritt Island). Completed  
contract bank protection.

81

21  
2

Accepted Items

No.	Date of Letter	Levee Location	Remarks
(91) 10	8 Dec. 1951	Cross levee Steamboat Slough to Sacramento River.*	Maintained by R.D. No. 3 (along U.S.spoil bank).
(140) 11	Do	N. levee American River from Jibboom St. Bridge to Sacramento River.	Maintained by R.D. No. 1000.
(141) 11	Do	E. levee Sacramento River American River to Natomas Cut.	Maintained by R.D.No. 1000.
(142) 11	Do	E. bank Sacramento River At Moulton Weir.	Maintained by State.
(143) 11	Do	E. Levee Sacramento River Mile 158.5 to Mile 164.4.	Maintained partly by State; remainder by Levee District.No. 3, Glenn County, Completed Contract.
(146) 11	Do	W. levee Sacramento River Mile 61.8 to Mile 62.65.	Maintained by Maintenance Area No. 4. Completed contract.
(147) 11	Do	W. Levee Sacramento River Mile 62.65 to Mile 63.1.	Maintained by R.D. No. 537 Completed contract.
(148) 11	Do	Sacramento Weir.	Maintained by State.
(152) 11	Do	Fremont Weir.	Maintained by State.
(153) 11	Do	W. Levee Sacramento River Mile 87.6 to Mile 88.4; Mile 89.2 to Sycamore Slough	Maintained by R.D. No. 730 Completed contracts.
(155) (156) (157) 11	Do	W. Levee Sacramento River Mile 100.6 to Mile 101.4	Maintained by Sacramento River West Side Levee District. Completed contract.
(160) (161) (162) (163) 11	Do	W. Levee Feather River except: 3.31 Mi. North from Nicolaus Bridge; 1400 ft. in Yuba City; from Sta.774+80 to Sta. 1188+00 of "Y.C.H.B" Traverse.	Maintained by Maintenance Area No. 3, Levee Dist. Nos. 1 & 9 of Sutter Co. Recl. Dist.No. 777 and State.
(164) 11	Do	E. Levee Sacramento River, Natomas Cut to Feather River	Maintained by Recl.Dist.No.1001.
(165) (166) (167) (168) (169) (170) 11	Do	E. Levee Feather River from mouth to Mile 26.5, except from 2.37 miles of Nicolaus Bridge to Bear River	Maintained by R.D. Nos. 1001 and 784.

Accepted  
Items

5

No.	Date of Letter	Levee Location	Remarks
(171) (172) 11	8 Dec.1951	Marysville levees from W.P.R.R. at Simmerly Slough E. to Yuba River and from D St. Bridge on Yuba River upstream to Valley Meat Co.	Maintained by Marysville Levee Commission.
(173) (174) 11	Do	N. Levee Simmerly Slough from W.P.R.R. to S.P.R.R. and E. Levee Feather River from Simmerly Slough upstream 4.8 miles	Maintained by R.D. No. 10 Completed contract.
(175) 11	Do	N. Levee Yuba River from back levee of Marysville upstream 1.8 miles	Maintained by Marysville Levee Commission.
(176) 11	Do	S. Levee Yuba River from S.N.R.R. to S.P.R.R.	Maintained by R.D. No. 784.
(177) 11	Do	N. Levee Bear River from Feather River to W.P.R.R. Interceptor	Maintained by R.D. No. 784.
(178) 11	Do	E. Levee R.D.784 ( W. Levee W.P.R.R. Interceptor) Bear River to intersection with W.P.R.R. in S $\frac{1}{2}$ Sec.17, T.14 N., R. 4 E.	Maintained by R.D. No. 784.
(179) (180) 11	Do	S. Levee American River from 16th St. Bridge to Mayhew except from S.N.R.R. to a point 800 ft. E. of W.P.R.R.	Maintained by American River Flood Control District.
(181) (182) (183) (184) (185) (186) (187) (188) 11	Do	W. Levee Yolo By-pass from Sacramento* River to Putah Creek except from N. line Cache Cr. Settling Basin to S.N.R.R. & from old Willow Slough pipes south 1.48 mi.*	Maintained by State and R. D. #2035.
(190) 11	Do	N.&S. levees Willow Slough Interceptor*	Maintained by State and R. D. No. 2035.
(191) (192) 11	Do	N.&S. levees of Putah Creek	Maintained by State.
(197) (198) 11	Do	N.&S. levees Sycamore Slough from Sacramento River to Knights Landing Outfall Gates	Maintained by R.D. 730 and Sacramento River West Side Levee District.

(21)

4

Accepted  
Items

No.	Date of Letter	Levee Location	Remarks
-----	----------------	----------------	---------

12 8 Dec. 1951

Five reaches of Ryer Island levee along Miner Slough as follows:

a. Junction Miner and Sutter Sloughs westerly 5000 feet.

b. From State Highway Bridge West. 3035 ft.

c. Spec. 1473, Sta. 53+00 to 64+00 about one mi. No. of Ryde Road. *Mile 29.4 to 29.6*

d. Spec. 1473, Sta. 0+00 to 12+00 being 600 ft. each side of Ryde Road. *Mile 30.4 to 30.6*

e. Ryer Island cut-off levee beginning at east bank of Cache Slough and extending upstream 3,300 feet at junction of Cache and Miner Sloughs.

Maintained by R.D. No. 501. All are completed separate contracts.

Covered by letter dated 16 Nov. 1951

321 → (32) (79A) ✓

303 Covered by letter dated

(53A) ✓

304 17 Nov. 1951

(54A) ✓

(23) ✓

(50) ✓

\*No waterway banks contiguous to these levees.

C. de ARRIETA

REGISTERED MAIL  
Return Receipt  
Requested

Letter No. 13

①

⑬

13 DEC 1951

SPEKA 824.5(Sac.Riv. F.C.P.)

The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento 14, California

Accepted by the Recl. Board:

- Completed by Contract by C.of E.
- ⊖ Const. by Local Interests 203-248-250-285
- ⊕ No maint. is required. 204

Not Accepted

⊖ No capable of separate maint.

Gentlemen:

Reference is made to your letter of 2 July 1951 acknowledging that certain reaches of the levees of the Sacramento River Flood Control Project and the waterway bank contiguous to said levee reaches meet the requirements of the project as authorized prior to the Flood Control Act of 1944.

The levee reaches in question are located as follows:

a. Sherman Island levee of Three Mile Slough.

- 199 (1) State Highway Bridge to Sacramento River. ○ 101
- 200 (2) From the State Highway Bridge, 1300 feet toward the San Joaquin River. ○ 101
- 201 (3) From a point 3900 feet toward the San Joaquin River from the State Highway Bridge to a point 6900 feet toward the San Joaquin River from the State Highway Bridge. 101
- 202 (4) From a point 10,500 feet toward the San Joaquin River from the State Highway Bridge to the San Joaquin River. 101

203 b. Plug across Seven Mile Slough near Three Mile Slough. ⊖ 102

204 c. Sherman Island levee of Seven Mile Slough and Three Mile Slough from the Plug across Seven Mile Slough southwesterly to Sacramento River. ⊕ 102

Items 199 to 295

⑬

SPRKA 824.3 (Sac. Riv. F.C.P.)  
The Reclamation Board

d. Easterly levee of the Sacramento River.

Reach  
19

- 205 (1) From a point 23,650 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 21,950 feet downstream from Three Mile Slough. 101
- 206 (2) From a point 14,850 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 7,700 feet downstream from Three Mile Slough. 101
- 207 (3) From a point 6,300 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 3,450 feet downstream from Three Mile Slough. 101
- 208 (4) From a point 5,500 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to a point 700 feet downstream from Three Mile Slough. 101
- 209 (5) From a point 500 feet, measured along the Sherman Island levee, downstream from Three Mile Slough to Three Mile Slough. 101
- 210 (6) Three Mile Slough to Mile 10.58. 102
- 211 (7) Mile 10.71 to Mile 13.1. 102
- 212 (8) Mile 13.59 to Mile 14.5 (Junction Point). 102
- 213 (9) Mile 14.5 (Junction Point) to Mile 15.0. 102
- 214 (10) Mile 15.1 to Mile 16.9. 102
- 215 (11) Mile 16.95 to Mile 17.5. Brannan 102
- 216 (12) Mile 17.6 to Mile 18.0. Andrus 103
- 217 (13) Mile 18.15 to Mile 18.5. " 103
- 218 (14) Mile 18.5 to Mile 21.5. v o " 103
- 219 (15) Mile 21.6 to Mile 26.3. v o " 103
- 220 (16) Mile 26.4 to Georgiana Slough. v o 103
- 221 (17) Mile 26.5 to Mile 27.55. v o III
- 222 (18) Mile 27.7 to Mile 28.5. III

2 X

Reach  
19

SPKKA 824.3(Sac. Riv. F.O.P.)  
The Reclamation Board

d. Easterly levee of the Sacramento River. (cont'd)

- ✓ 223 (19) Mile 28.6 to Mile 28.9.
- ✓ 224 (20) Mile 29.1 to Mile 29.9.
- ✓ 225 (21) Mile 30.25 to Mile 30.55.
- ✓ 226 (22) Mile 30.75 to Mile 31.5.
- ✓ 227 (23) Mile 31.8 to Mile 32.2.
- ✓ 228 (24) Mile 32.4 to Mile 33.0.
- ✓ 229 (25) Mile 33.1 to Mile 34.45.
- ✓ 230 (26) Mile 34.65 to Mile 34.95.
- ✓ 231 (27) Mile 35.1 to Mile 36.38.
- ✓ 232 (28) Mile 35.38 to Mile 35.74. ✓ 0
- ✓ 233 (29) Mile 35.85 to Mile 36.55.
- ✓ 234 (30) Mile 36.5 to Mile 36.75.
- ✓ 235 (31) Mile 36.85 to Mile 37.15.
- ✓ 236 (32) Mile 37.3 to Mile 37.85.
- ✓ 237 (33) Mile 38.0 to Mile 38.3.
- ✓ 238 (34) Mile 38.5 to Mile 39.15.
- ✓ 239 (35) Mile 39.75 to Mile 39.9.
- ✓ 240 (36) Mile 40.0 to Mile 40.15.
- ✓ 241 (37) Mile 40.25 to Mile 40.35.
- ✓ 242 (38) Mile 40.5 to Mile 40.8.
- ✓ 243 (39) Mile 41.2 to Mile 41.6.
- ✓ 244 (40) Mile 41.75 to Mile 42.35.
- ✓ 245 (41) Mile 42.5 to Mile 43.05.

Head 17



SPKRA 324.3 (Sac. Riv. F. O. P.)  
The Reclamation Board

d. Easterly levees of the Sacramento River. (cont'd)

Reach 17

- ✓ (246) (42) Mile 43.3 to Mile 45.55. } III
- ✓ (247) (43) Mile 45.55 to Mile 44.2. } III
- ✓ (248) (44) Mile 44.5 to Mile 45.3. x D 115
- ✓ (249) (45) Mile 55.4 to Mile 55.5. 115
- ✓ (250) (46) Mile 55.1 to American River. x D 118.1
- (251) (47) West levee of Sutter Bypass to Mile 87.5. 84.5
- (252) (48) Mile 91.4 to Mile 92.1.
- (253) (49) Mile 92.6 to Mile 92.7.
- (254) (50) Mile 92.9 to Mile 94.0. ✓ ○
- (255) (51) Mile 96.6 to Mile 97.4.
- (256) (52) Mile 97.5 to Mile 97.7. ✓ ○
- (257) (53) Mile 97.7 to Mile 97.8.
- (258) (54) Mile 99.9 to Mile 102.5. ✓ ○
- (259) (55) Mile 103.45 to Mile 103.7.
- (260) (56) Mile 103.8 to Mile 104.2.
- (261) (57) Mile 104.2 to Mile 104.7. ✓ ○
- (262) (58) Mile 104.7 to Mile 105.55.
- (263) (59) Mile 110.9 to Mile 111.5. ✓ ○
- (264) (60) Mile 118.4 to Mile 118.6 (South End Tisdale Weir).
- (265) (61) At Tisdale Weir. ✓ ○ 150

Reach 1A



(266) e. Northerly levees of Miner Slough from a point 1,200 feet easterly from the easterly levees of Yolo Bypass to a point 4,400 feet easterly from the easterly levees of Yolo Bypass.

SPKHA 324.3 (Sec. Riv. F.O.P.)  
The Reclamation Board

Letter No. 13

13

f. Westerly levee of Sutter Slough. 113

Ranch 36

- ✓ (267) (1) Mile 26.5 to Mile 26.7.
- ✓ (268) (2) Mile 27.05 to Mile 27.2.
- ✓ (269) (3) Mile 27.3 to Elkhorn Slough.

g. Westerly levee of Elkhorn Slough.

- ✓ (270) (1) Sutter Slough to Station "A" 431+00.
- ✓ (271) (2) Station "A" 429+50 to Station "A" 405+00.
- ✓ (272) (3) Station "A" 403+50 to Station "A" 344+75.
- ✓ (273) (4) Station "A" 340+75 to Station "A" 326+00.
- ✓ (274) (5) Station "A" 70+50 to Station "A" 60+50.

h. Westerly levee of the Sacramento River.

Ranch 3

- ✓ (275) (1) Mile 119.2 to Mile 119.7.
- ✓ (276) (2) Mile 131.4 to Mile 131.8.
- ✓ (277) (3) Mile 133.1 to Mile 133.3. ✓ 0
- ✓ (278) (4) Mile 134.0 (Meridian Bridge) to Mile 134.3.
- ✓ (279) (5) Mile 134.3 to Mile 140.6. ✓ 0
- ✓ (280) (6) Mile 140.6 to Mile 141.3.
- ✓ (281) (7) Mile 141.3 to Mile 142.0. ✓ 0
- ✓ (282) (8) Mile 142.0 to Mile 142.3.
- ✓ (283) (9) Mile 142.3 to Mile 142.7 (Union Oil Co. Wharf). ✓ 0

AX (284) i. Easterly levee of Georgiana Slough from the S.P.R.R. stream 22,500 feet. ✓ 103

XB

(285) j. Northerly levee of the American River and the back levee of Reclamation District No. 1000 from Jibboom Street Bridge to El Camino Avenue. 125 xD

13

SPEKA 824.3(Sac.Riv.F.C.P.)  
The Reclamation Board

k. Northerly levee of Natamas Cut.

- 48 ✓ (286) (1) From Sacramento River easterly to a point 1,550 feet easterly from the Garden Highway Bridge. 142
- ✓ (287) (2) From a point 2,550 feet easterly from the Garden Highway Bridge to a point 3,250 feet easterly from the Garden Highway Bridge. 142
- Reach No. 30 ✓ (288) 1. Back levee of Reclamation District No. 2068 along the S.N.R.R. from the County Road northeasterly 7,200 feet to high ground. 109
- (289) n. Southerly levee of North Dry Creek near Wheatland from high ground to the W.P.R.R. Interceptor. 145
- ✓ (290) n. Easterly levee of the W. P. R. R. Interceptor from North Dry Creek southerly to Bear River. 145
- ✓ (291) o. Northerly levee of Bear River from the W. P. R. R. Interceptor easterly to South Dry Creek. 145
- ✓ (292) p. Northerly levee of South Dry Creek near Wheatland from Bear River easterly to high ground, including the Singh saddle closure levee. 145
- ✓ (293) q. Southerly levee of Bear River from the W.P.R.R. easterly to a point 5,400 feet easterly from Carlin Bridge. 141.1
- ✓ (294) r. Southerly levee of South Dry Creek near Wheatland from Bear River easterly 1.86 miles. 144
- ✓ (295) s. Northerly levee of Bear River from South Dry Creek easterly to a point 4,000 feet easterly from Carlin Bridge. 144

The records of this office show that your Board has accepted the levees and/or works covered by Items d.(14), d.(15), d.(16), d.(29), d.(50), d.(52), d.(54), d.(57), d.(59), d.(61), h.(3), h.(5), h.(7), h.(9), i., m., n., o., p., q., r., and s., above, as complete. Accordingly the waterway bank contiguous to said Items is hereby transferred to the State of California for maintenance and operation.

The levee covered by Items a. to c., inclusive, d.(1) to d.(13), inclusive, d.(17), to d.(27), inclusive, d.(29), to d.(49), inclusive, d.(51), d.(53), d.(55), d.(56), d.(58), d.(60), e., f., g., h.(1), h.(2), h.(4), h.(6), h.(8) and j. to l., inclusive, above, although complete has not been formally transferred as contemplated by the Project documents.

Letter No. 13 (13)

SPKKA 624.3(Sac,Riv.F.C.P.)  
The Reclamation Board

Accordingly the levee covered by said items, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for maintenance and operation.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented. As provided under paragraph 208.10(10) of these regulations, a maintenance manual covering these works is in process of preparation and will be furnished your Board upon completion.

A copy of this letter is being transmitted to the State Engineer.

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy Furnished:  
Office, Chief of Engrs.  
So.Pac.Div. Engr.  
State Engineer  
Engr. Div. (2)  
C. de Arrieta

H. R. Reifsnyder  
Lt. Colonel, Corps of Engineers  
Executive Officer

REGISTERED MAIL  
Return Receipt  
Requested

SPKKA 824.3(Sac.Riv. F.C.P.)

8 DEC 1951

The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento 14, California

Gentlemen:

Reference is made to your letter of 6 June 1951 acknowledging that certain reaches of the levees of the Sacramento River Flood Control Project and the waterway bank contiguous to said levee reaches meet the requirements of the project as authorized prior to the Flood Control Act of 1944.

The levee reaches in question are the levees of Merritt Island at the following locations:

- a. Westerly <sup>or Northerly</sup> levee of Sutter Slough.
  - 77 (1) Elkhorn Slough upstream 1,800 feet. 113
- b. Westerly levee of Sacramento River.
  - 78 (1) Mile 34.05 to Mile 34.2.
  - 79 (2) Mile 34.3 to Mile 34.5.
  - 80 (3) Mile 34.9 to Mile 35.28.
  - 81 (4) Mile 35.15 to Mile 35.86.
  - 82 (5) Mile 35.86 to Mile 36.0.
  - 83 (6) Mile 36.1 to Mile 37.3.
  - 84 (7) Mile 37.4 to Mile 38.5.

Letter No 9

Items 77 to 90

(19)

824.3(SAC.R.FCP)SPK

SPKKA 824.5(Sac.Riv. F.C.P.)  
The Reclamation Board

- 85 (8) Mile 38.8 to Mile 39.1.
- 86 (9) Mile 39.2 to Mile 39.9.
- 87 (10) Mile 40.0 to Mile 40.3.
- 88 (11) Mile 40.4 to Mile 40.6.
- 89 (12) Mile 40.9 to Mile 41.1.
- 90 (13) Mile 41.85 to Elkhorn Slough Inlet Pipes.

The records of this office show that on 5 May 1960 your Board accepted the levee covered by Item b.(4) above as complete. Accordingly, the waterway bank contiguous to said Item is hereby transferred to the State of California for maintenance and operation.

The levee covered by Items a., b.(1) to b.(3), inclusive, and b.(5) to b.(13), inclusive, above, although complete has not been formally transferred as contemplated by the Project documents. Accordingly the levee covered by said Items, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for maintenance and operation.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented. As provided under paragraph 208.10(10) of these regulations, a maintenance manual covering these works is in process of preparation and will be furnished your Board upon completion.

A copy of this letter is being transmitted to the State Engineer.

FOR THE DISTRICT ENGINEER:

Sincerely yours,

H. R. Reifsnyder  
Lt. Colonel, Corps of Engineers  
Executive Officer

- Copy Furnished:
- / Office, Chief of Engrs.
  - / So. Pac. Div. Engr.
  - / State Engineer
  - / Engr. Div. (2)
  - / C. de Arrieta

Exec. O	
Chief	
Ad. Asst.	
Chf. Tech. Asst.	
Manag.	
Office Svco.	
Oper.	
Engr'g	
R. E.	
Fisc.	
Pers.	
Legal	
Supply	

Letter No. 9

Items 77 to 90

Design Bushale

*file*

REGISTERED MAIL  
Return Receipt  
Requested

SPRING 824.3(Sacto Riv. P. S. F.)

17 NOV 1951

The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento, California

Gentlemen:

Reference is made to letter from this office dated 31 July 1951, wherein it was proposed to transfer to the jurisdiction of the State of California three units of the Sacramento River Flood Control Project in accordance with the procedure set forth in the letter from this office dated 12 February 1951. Reference is also made to the joint inspection of these units of work which was made on 3 August 1951. The location of these three units is described as follows:

**52-A** Part "A", Levee construction including bank protection work, left bank of Sacramento River, Mile 40.3, approximately 3 miles southerly of Clarksburg, California, Station 4+00 to 10+00, Drawing No. 60-4-2714, 111

**53-A** Part "B", Levee setback and bank protection work, left bank of Hizer Slough, at Hizer Island, approximately 3 miles northeasterly of Rio Vista, California, Station 53+00 to 64+00, Drawing No. 60-4-2717, 105

**54-A** Part "C", Levee setback and bank protection work, left bank of Hizer Slough, at Hizer Island, approximately 7 miles northeasterly of Rio Vista, California, Station 0+00 to 14+50, Drawing No. 60-4-2718, 105

The work referred to above, covered by Specification No. 1473, Contract No. 18-04-107-eng-460, was completed on 21 September 1951, and now meets the requirements of the Sacramento River Flood Control Project. Therefore, said levee units referred to above, together with the stream bank contiguous thereto, are hereby transferred to the State of California for maintenance and operation.

16

52-A, 53-A, and 54-A. = 302, 303 and 304 20

SPKHO-P 624.3(Sacto.Riv.F.C.P.)  
The Reclamation Board

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been prescribed by the Secretary of the Army pursuant to Section 5 of the Act of Congress, approved 22 June 1936, as amended and supplemented. As provided under Paragraph 204.10(10) of these regulations, a maintenance manual covering these levee units is in process of preparation and will be furnished your Board upon completion.

A copy of this letter is being transmitted to the State Engineer.

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy furnished:  
Office, Chief of Engrs.  
Engr. Div. Engr.  
State Engineer  
Engr. Div. (2)  
Sacto. Field Office  
C. de Arrieta

H. R. Reifsnyder  
Lt. Colonel, Corps of Engineers  
Executive Officer

302 - 303 - 304  
52-A, 53-A - 54-A



PSKKB-F

19 Jan. 1950

*Accepted  
28 February 1950.*

The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento, California

Gentlemen:

The sections of levee listed below which are located along the Sacramento River in the vicinity of Courtland, California, have been completed. These are units of the Sacramento River Flood Control Project authorized under the Flood Control Act of 1 March 1917 and subsequent amending acts. Therefore, under the provisions of this act, and in accordance with established procedure, these sections of completed levees are hereby transferred to the State of California for maintenance by the State Reclamation Board and other local interests.

- 33A* (1) Left bank, Sacramento River, on Randall Island,  
Mile 35.7, shown on map as Part "A"
- 34A* (2) Right bank, Sacramento River, on Merritt Island,  
Mile 35.5, shown on map as Part "B"

This construction forms an integral part of the Sacramento River and Major and Minor Tributaries Flood Control Project, authorized under the Flood Control Act of 1 March 1917, as amended, including the Flood Control Act approved 22 December 1944. The details and extent of the work are shown on the inclosed drawings.

There is also inclosed copy of the Flood Control Regulations prescribed by the Secretary of War (now designated the Secretary of the Army), pursuant to the provisions of Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented, to govern the maintenance and operation of flood control works, of which the work referred to above is a part.

In accordance with paragraph 208.10(10) of said regulations, this office will furnish your Board and local interests at a later date with an operation and maintenance manual to assist in carrying out their obligations established by these regulations.

*Units 33A and 34A*

*824.3 (Sacto R. F.C. Proj) PSK 30*

PSKKB-F  
The Reclamation Board

For the records of this office, acknowledgment of receipt of this letter and the action taken by the Board is requested on or before 28 February 1950.

Copy of this letter, with inclosures, is being transmitted to the State Engineer.

Sincerely yours,

JOSEPH S. GORLINSKI  
Colonel, Corps of Engineers  
District Engineer

5 Incls.  
Dwg. 50-4-2531(1 sheet)  
Dwg. 50-4-2541(3 sheets)  
Dwg. 50-4-2542(2 sheets)  
Dwg. 50-4-2601(2 sheets)  
Flood Control Regulations

Copy furnished:  
State Engineer  
Sacramento (w/incls.)

cc: Engr. Div.           w/o Incls.  
    Sac. Fld. O.        "  
    CdeA

Units 33A and 34A

XXXXXXXXXXXX Sacto Field  
Office

W-04-167-eng-1570

16 January 1950

Subject: Statement of Levee Completion - Contract W-04-167-eng-1570

Thru: Chief, Operations Division

To: Chief, Engineering Division

1. Reference: Operations Division Letter dated 28 March 1946, subject: "Statement of Levee Completion", and paragraph 14, of Engineering Division Memo No. 19 dated November, 1945, subject: "Manual of Procedure for preparation of Designs, Specifications and Contract Documents, Sacramento River, Flood Control Project".

2. Project: Part "A" - Levee Setback and Bank Protection East Levee Sacramento River, Randall Island, Mile 35.7.

Part "B" - Levee setback and Bank Protection West Levee Sacramento River, Merritt Island, Mile 35.5.

3. Period and Means of Construction: Construction was accomplished under Contract No. W-04-167-eng-1570 by H. Earl Parker, Inc., Contractors, as follows: Part "A" during period 30 June 1949 to 30 December 1949 and Part "B" during period 4 August 1949 to 30 December 1949.

4. Specifications and Drawings:

Specification No. 1355

Drawings Nos. 50-4-2531 - Sheet 1

50-4-2542 - Sheet 1, Rev. 2

50-4-2542 - Sheet 2, Rev. 1

50-25-2541 - Sheets 1 & 3 Rev. 2

50-25-2541 - Sheet 2

50-4-2209

50-4-1825

50-4-2375

50-4-1717

50-4-2601 - Sheets 1 and 2 Rev. 1

5. Deviations from Specifications and Plans:

Part "A" (Randall Island)

Sta. 21+35 to 22+00  $\bar{E}$  - Extended levee setback together with surfacing 65 feet, to tie to existing levee.

Sta. 22+00 to 29+00  $\bar{E}$  - Changed river side slope to 1 on 2 to crown of levee. Substituted quarry rock in lieu of cobbles for mattresses and bank paving.

Sta. 22+40  $\bar{C}_L$  - Rebuilt Existing "H" type approach, landside in lieu of "S" type.

Sta. 22+50 to 25+00  $\bar{E}$  - Relocated private water supply system.

Units 33A and 34A

Sta. 22+60 to 25+00 E - Constructed 60 foot mattress in lieu of 50 foot mattress as shown and specified.

Sta. 24+60 E - Installed 1½ inch pipe guard hand rails each side of new reinforced concrete steps.

Sta. 25+30 E - Omitted reinforced concrete spillbox.

Sta. 25+50 E - Installed 50 linear feet of No. 7 gage, 12-inch diameter pipe.

Part "B" (Merritt Island)

Sta. 0+00 to 36+00 and 38+00 to 45+50 E - Substituted quarry rock in lieu of cobbles for bank paving.

Sta. 0+76 E - Removed and saved existing pump, 140 feet of 8 inch pipe, 15 feet of 10 inch steel pipe and 100 feet of 1 inch pipe. Removed and wasted existing concrete diversion structure.

Sta. 2+50 E - Installed new concrete diversion structure with three 24-inch outlet gates and 10-feet of 24-inch corrugated metal pipe from diversion structure. Also furnished and installed 100 feet of 14-inch soilproofed steel pipe with cut-off wall, brass cock, air and vacuum valve through levee section.

Sta. 4+00 to 6+00 E - Relocated private water supply system.

Sta. 4+00 E - Relocated fuel oil storage tanks.

Sta. 4+00 to 9+50 E - Removed and wasted concrete foundations.

Sta. 9+02 E - Constructed reinforced concrete retaining wall around existing well on land side slope.

Sta. 9+70 E - Removed and wasted portions of abandoned steam plant consisting of concrete slabs and water and steam pipes.

Sta. 9+80 E - Installed pump structure 259 feet left of Sta. 9+80 E, in lieu of as shown on contract drawings Nos. 50-25-2541, Sheets 1 and 3, Revision 1, and Sheet 2 of three sheets, all in accordance with drawings Nos. 50-4-2601, Sheets 1 and 2, Revision 2. Eliminated drainage ditch as shown on drawing No. 50-4-2542 Sheets 1 and 3, Revision No. 2 and Sheet 2, Revision No. 1. Also substituted 5/16 inch steel pile casings in lieu of No. 10 gage casings for pump and platform support.

Sta. 20+84 E - Furnished and installed 42 feet of 12 inch soilproofed steel pipe through levee together with one corrugated metal cut-off wall, brass cock and air valve. Also 20 feet of 10-inch steel pipe on land side slope. Salvaged 140 feet of 10-inch pipe.

Sta. 29+00 to 32+00 E - Relocated private water supply system.

Sta. 31+00 E - Removed and saved gasoline storage tank and system.

Sta. 31+00 to 36+00 E - Constructed 80 foot mattress in lieu of 60 foot mattress as shown and specified.

Sta. 36+00 to 38+00 E - Brought existing bank paving to grade.

Sta. 38+00 to 45+50 E - Extended standard 80 foot woven lumber mattress and bank paving in accordance with drawing No. 50-4-2375.

6. Structures Affecting Levee Maintenance Work:

<u>Location Station</u>	<u>C.M.P.</u>	<u>Gates Model #</u>	<u>Frame Height</u>	<u>Steel Pipe</u>	<u>Other Structure Description</u>	<u>Elevation at Invert of Pipe</u>
£ 24+60					Part "A" Randall Island - Constructed Reinforced concrete stairway with 1½-inch pipe railings	
£ 25+50				12"	Constructed 1 corrugated metal cut-off wall	23.5
£ 2+50	24"			14"	Part "B" Merritt Island - Constructed 1 Corrugated Metal cut-off wall.	23.5
£ 20+80		100 100	11.38 11.38	36" 24"	Constructed 2 corrugated metal cut-off walls and concrete headwalls	0.0 R.S. 4.7 L.S.
£ 20+84				12" & 10"	Constructed 1 corrugated metal cut-off wall - 10" metal pipe on land side only.	23.5

Units B3A and 34A

Subject: Statement Levee Completion - Contract 167-eng-1570

7. Remarks: Submitted herewith is a set of contract drawings with deviations marked in red.

W. K. SOUTH  
Construction Engineer  
Chief, Sacto Field Office

- 4 -

Units 33A and 34A

R E S O L U T I O N

PASSED AND ADOPTED BY THE RECLAMATION BOARD

DECEMBER 22, 1948

- - -

WHEREAS The Reclamation Board has heretofore approved plans for the completion to grade and section, or for the setback and reconstruction, bank protection, etc., of certain units of levee in the Sacramento River Flood Control Project, as follows:

- (1) Enlargement of the South Levee of the American River from 16th Street Bridge, Sacramento, to Mayhew Station, a distance of approximately nine miles;
- (2) Setback and Bank Protection of the West Levee of the Sacramento River from Mile 50.4 to Mile 50.9, in Reclamation District No. 765, Yolo County;
- (3) Setback and Bank Protection of the East Levee of the Sacramento River at Mile 35.5, a distance of approximately 1800 feet, in Reclamation District No. 755, Sacramento County, and,

WHEREAS, said units of levees have been completed, in accordance with said plans, and the District Engineer, Sacramento District, Corps of Engineers, Department of the Army, has under date of December 10, 1948, in accordance with established procedure, transferred said completed levees to the State of California, Reclamation Board, for maintenance,

NOW THEREFORE, be it resolved that said units of levee as heretofore itemized be and the same are hereby accepted by The Reclamation Board, for and on behalf of the State of California, for maintenance in accordance with Section 42 of Chapter 1514 of the Statutes of 1945, and

BE IT FURTHER RESOLVED, that said units of levee, as com-

8370, et seq., of the Water Code of the State of California.

- (1) The South Levee of the American River from the 16th Street Bridge to Mayhew Station, to the American River Flood Control District;
- (2) The West Levee of the Sacramento River from Mile 50.4 to 50.9, to Reclamation District No. 765, Yolo County;
- (3) The East Levee of the Sacramento River, in the vicinity of Mile 35.5 to Reclamation District No. 755;

and said Districts shall as of this date take charge of and maintain said levees in accordance with regulations as prescribed by the Secretary of War.

- -

STATE OF CALIFORNIA )  
COUNTY OF SACRAMENTO ) ss.  
Office of The Reclamation Board )

I, S. A. HONAKER, Assistant Secretary of The Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution made by said Board at its meeting held December 22, 1948.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of The Reclamation Board this 29 day of December, 1948.

  
S. A. HONAKER  
Assistant Secretary

DEC 10 1948

FSKKB

The Reclamation Board  
State of California  
1100 "J" Street  
Sacramento, California

Gentlemen:

Levee construction authorized under the Sacramento River Flood Control Project, has recently been completed at three sites described below:

- 18 Unit No. 18 a. Enlargement of the south levee of the American River from 16th Street Bridge to Mayhews, a distance of approximately nine miles.
- 19 Unit No. 19 b. Setback and bank protection of the west levee of the Sacramento River from Mile 50.4 to Mile 50.9.
- 20 Unit No. 20 c. Setback and bank protection of the east levee of the Sacramento River at Mile 35.5 for a distance of approximately 1,800 feet.

Therefore, in accordance with established procedure, these sections of completed levees are hereby transferred to the State of California for maintenance.

This construction forms an integral part of the Sacramento River Flood Control Project. The details and extent of the work are shown on the inclosed drawings.

There is also inclosed copy of Flood Control Regulations prescribed by the Secretary of War (now designated the Secretary of the Army) pursuant to the provisions of Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented, to govern the maintenance and operation of flood control works, of which the levees referred to are a part. In accordance with paragraph 208.10 (10) of said regulations, this office will furnish your Board and local interests at a later date with an Operation and Maintenance Manual to assist in carrying out their obligations established by these regulations.

For the records of this office, acknowledgment of receipt of this letter is requested on or before 15 January 1949.

Units 18-19-20

PSKKB  
The Reclamation Board

DEC 10 1948

Copy of this letter with inclosures is being transmitted to the  
State Engineer.

FOR AND IN THE ABSENCE OF THE DISTRICT ENGINEER:

Incls.

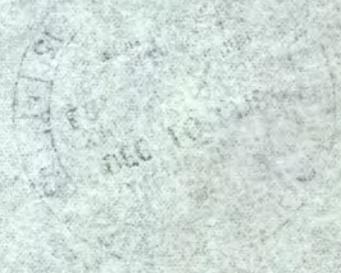
Drawings, File Nos.  
1-4-362 (in 5 sheets)  
1-4-366  
50-A-1717, 1825, 2209,  
2278, 2370, 2371, and  
2375  
Flood Control Regulations

ELIZABETH I. DAVIS  
Lt. Colonel, Corps of Engineers  
Executive Officer

Copy furnished:  
State Engineer  
(with inclosures)

cc: CdeA  
Engineer Div.

Units No 18-19-20  
2



THE RECLAMATION BOARD  
of the  
STATE OF CALIFORNIA

May 22, 1952

District Engineer  
Sacramento District  
Corps of Engineers, U. S. Army  
P. O. Box 1739  
Sacramento 8, California

Dear Sir:

Reference is made to your letter (1) SPKKO-P 824.3 (Sac. Riv. F.C.P.) 13 December 1951, (2) your letter SPKKO-P 824.3 (Sac. Riv. F.C.P.) 19 December 1951, and (3) your letter SPKKA 824.3 (Sac. Riv. F.C.P.) 13 December 1951, transferring 101 reaches of levee and contiguous banks to the Reclamation Board for flood control operation and maintenance.

On January 2, 1952, The Reclamation Board accepted the transfer of the reaches of levee listed in first tabulation attached and did not accept those reaches of levee and contiguous bank in the second tabulation.

Yours very truly,

THE RECLAMATION BOARD

BY /s/ A. M. Barton  
A. M. BARTON

Chief Engineer and General Manager

The Board accepted the transfer from the Corps of Engineers, in letters as listed below, the following reaches of levees and their contiguous banks, where applicable, for flood control operation and maintenance, as complete and meeting the requirements of the Sacramento River Flood Control Project:

<u>No.</u>	<u>Date of Letter</u>	<u>Levee Location</u>	<u>Remarks</u>
--	--	--	--
--	--	--	--
3	13 December 1951	d(17) East Levee Sacramento River Mile 26.5 to 27.55	Completed contract. Maintained by R.D. No. 554. No liability for Delta Cross Channel.
3	13 December 1951	d(28) East Levee Sacramento River Mile 35.38 to 35.74	Completed contract. Maintained by R.D. No. 755.
3	13 December 1951	d(44) East Levee Sacramento River Mile 44.5 to 44.3	Constructed by Assessment No. 5.
--	--	--	--

Note: Only portions pertaining to Unit No. 111 contained in this copy.

STATE RECLAMATION BOARD LETTERHEAD

April 3, 1953

District Engineer  
Sacramento District  
U. S. Corps of Engineers  
P. O. Box 1739  
Sacramento, California

Dear Sir:

Reference your letter, File No. SPKKO-P 824.3 (Sac. Riv. F.C.P.) dated 27 March 1953; wherein certain levee units located in Reclamation District No. 744 were transferred to the State of California as follows:

- a. Levee section at Site No. 1, between River Mile 43.25 and 43.3 (left bank).
- b. Levee Section at Site No. 2, between River Mile 43.75 and 43.77.

The Reclamation Board, on behalf of the State of California, in meeting held 1 April 1953, accepted subject levee units, together with their contiguous waterway banks, for operation and maintenance.

Yours very truly,

THE RECLAMATION BOARD  
A. M. BARTON  
Chief Engineer and General Manager

BY /s/ D. M. Carr  
D. M. CARR

## THE RECLAMATION BOARD LETTERHEAD

December 4, 1953

District Engineer  
Sacramento District  
U. S. Corps of Engineers  
P. O. Box 1739  
Sacramento, California

Dear Sir:

Reference your letter, File No. SPKKO-P 824.3 (Sac. Riv. F.C.P.) dated 24 November 1953, wherein certain levee sections pertaining to the Sacramento River Flood Control Project located along the left bank of the Sacramento River were transferred to the State of California as follows:

a. - - - -

- - - -

e. Levee section at Location No. 5, between River Mile 26.45 and 26.5.

The Reclamation Board on behalf of the State of California, in meeting held December 3, 1953 accepted subject levee units together with their contiguous waterway banks for operation and maintenance.

Yours very truly,

THE RECLAMATION BOARD  
A. M. BARTON  
Chief Engineer and General Manager

BY /s/ Donald D. Lemmon  
DONALD D. LEMMON  
Assistant Secretary

Note: Only item pertaining to  
Unit No. 111 is included  
in the above copy.

SPKKO-P 824.3 (Sac. Riv. FCP)

14 July 1955

The Reclamation Board  
State of California  
1100 "O" Street  
Sacramento, California

Gentlemen:

Reference is made to the District Engineer's letter dated 6 June 1955 and your reply of 8 June 1955 relative to the joint inspection, made on 14 June 1955, of three levee units under construction pertaining to the Sacramento River Flood Control Project for the purpose of transferring them, when completed, to the jurisdiction of the State of California for operation and maintenance.

The work referred to above was completed on 5 July 1955 under Contract No. DA-04-167-eng-1166, Specification 1844, Drawing No. 1844, Drawing No. 50-4-2983. It is further described as follows:

<u>Levee Sections No.</u>	<u>Description</u>
445	Site No. 11 of Contract No. DA-04-167-eng-166, left bank, Sacramento River from Mile 34.95 to 35.10. Reclamation District No. 755.
446	Site No. 12 of Contract No. DA-04-167-eng-1166, left bank, Sacramento River from Mile 35.74 to 35.85. Reclamation District No. 755.
447	Site No. 13 of Contract No. DA-04-167-eng-1166, left bank, Sacramento River from Mile 36.35 to 36.50. Reclamation District No. 755.

The levee sections, No. 445 to 447, inclusive, described above, now meet the requirements of the Sacramento River Flood Control Project, therefore said levee sections, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance. It is to be noted, these levee sections combined with other sections previously transferred to your jurisdiction, now form a continuous levee reach along the left bank of the Sacramento River from Mile 34.95 to 36.75.

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The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented by the current issue of the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work is in process of preparation and will be furnished to you upon completion.

A copy of this letter is being transmitted to the State Engineer.

Sincerely yours,

/s/ Wm. J. Ely

1 Incl  
1. F.C. Reg.

WM. J. ELY  
Col, CE  
District Engineer

SPKKO-P 824.3 (Sac. Riv. FCP)

5 August 1955

The Reclamation Board  
 State of California  
 1100 "O" Street  
 Sacramento 14, California

Gentlemen:

Reference is made to District Engineer's letter dated 14 July 1955, whereby three levee sections, designated as sites 11, 12 and 13 of Contract No. DA-04-167-eng-1166, pertaining to the Sacramento River Flood Control Project, were transferred to the jurisdiction of the State of California for operation and maintenance.

Sites Nos. 1 to 10, inclusive, covered by said Contract No. DA-04-167-eng-1166, Specification No. 1844, Drawing No. 50-4-2983, were completed on 28 July 1955. A joint inspection of these sites was made on 19 July 1955. The locations of said sites Nos. 1 to 10, are described as follows:

Left bank, Sacramento River:

<u>Levee Section No.</u>	<u>Drawing 50-4-2983</u>	
	<u>Site No.</u>	<u>River Mile Points</u>
448	1	From 27.55 to 27.7
449	2	From 28.5 to 28.6
450	3 and 4	From 28.9 to 29.1
451	5	From 29.9 to 30.25
452	6	From 30.55 to 30.75
453	7	From 31.3 to 31.8
454	8	From 32.2 to 32.4
455	9	From 33.0 to 33.1
456	10	From 34.45 to 34.55

The levee sections, Nos. 448 to 456, inclusive, described above, now meet the requirements of the Sacramento River Flood Control Project, therefore said levee sections, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance. It is to be noted that these levee sections combined with others previously transferred to your jurisdiction now form a continuous completed levee reach extending from Georgiana Slough (River Mile 26.45) to River Mile 36.75.

SPKKO-P 824.3 (Sac. Riv. FCP)  
The Reclamation Board

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented by the current issue of the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project. As provided under Paragraph 208.10(10) of these regulations, a supplement to the Standard Operation and Maintenance Manual covering these units of work is in process of preparation and will be furnished to you upon completion.

A copy of this letter is being transmitted to the State Engineer.

FOR THE DISTRICT ENGINEER:

Sincerely yours,

/s/ A. D. Wilder

1 Incl  
1. F.C. Reg.

A. D. WILDER  
Lt Col, CE  
Executive Officer

SPKKO-P 824.3 (Sacto Riv FCP)

23 September 1955

The Reclamation Board  
State of California  
1215 "O" Street  
Sacramento, California

Gentlemen:

Reference is made to District Engineer's letter dated 14 July and 5 August 1955, whereby thirteen levee sections, designated as sites Nos. 1 to 13 of Contract No. DA-04-167-eng-1166, pertaining to the Sacramento River Flood Control Project, were transferred to the jurisdiction of the State of California for operation and maintenance.

The remaining fourteen sites, Nos. 14 to 27 inclusive, located on the left bank of the Sacramento River, covered by said Contract DA-04-167-eng-1166, Specification No. 1844, and Drawing No. 50-4-2983, were completed on 19 September 1955. A joint inspection of these sites was made on 24 August 1955. Said sites Nos. 14 to 27 inclusive, are listed as follows:

<u>Levee Section No.</u>	<u>Site No.</u>	<u>Location River Miles</u>	
		<u>From</u>	<u>To</u>
462	14	36.75	36.85
463	15	37.15	37.30
464	16	37.85	38.00
465	17	39.15	39.75
466	18	39.90	40.00
467	19	40.15	40.25
468	20	40.35	40.50
469	21	41.00	41.20
470	22	41.60	41.75
471	23	42.36	42.60
472	24	43.05	43.26
473	25	(43.53	43.75
		(43.77	43.85
474	26)	44.20	44.50
	and)		
	27)		

SPKKO-P 824.3 (Sacto Riv FCP)  
The Reclamation Board

The levee sections, Nos. 462 to 474 inclusive, described above, now meet the requirements of the Sacramento River Flood Control Project, therefore, said levee sections, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for operation and maintenance.

In addition to the above, recent surveys indicate that the levee section described below also meets the requirements of the Sacramento River Flood Control Project:

<u>Levee Section No.</u>	<u>Description</u>
475	Easterly levee, along Georgiana Slough from Mile 12.20 to its junction with the Sacramento River, Mile 12.50

Therefore, said levee section No. 475, together with the waterway bank contiguous thereto, is also hereby transferred to the State of California for operation and maintenance.

It is to be noted that the levee sections described above, combined with others previously transferred to your jurisdiction, now form a continuous levee reach extending from the mouth of Georgiana Slough, at the Mokelumne River, to the mouth of the American River. A section of this levee, 12.50 miles in length, is located on the easterly bank of Georgiana Slough and the remainder, a section 33.55 miles in length, is located along the easterly bank of the Sacramento River.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations, inclosed herewith, which have been prescribed by the Secretary of the Army pursuant to Section 3 of the Act of Congress, approved 22 June 1936, as amended and supplemented by the current issue of the Standard Operation and Maintenance Manual for the Sacramento River Flood Control Project. As provided under Paragraph 208.10(10 of these regulations, a supplement to the

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Standard Operation and Maintenance Manual covering these units of work is in process of preparation and will be furnished to you upon completion.

A copy of this letter is being transmitted to the State Engineer.

Sincerely yours,

/s/ A. D. Wilder

1 Incl  
1. F.C. Reg.

A. D. WILDER  
Lt Col, CE  
Acting District Engineer

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

CORPS OF ENGINEERS, U. S. ARMY  
Office of the District Engineer  
SACRAMENTO DISTRICT  
Wright Bldg., 1209-8th St.  
Sacramento, California

TO: The District Engineer  
Sacramento District  
Corps of Engineers  
1209-8th Street  
Sacramento, California

(1 May 19\_\_ )  
(1 Nov 19\_\_ )

Dear Sir:

The semi-annual report for the period (1 May 19\_\_ to 31 October 19\_\_) (1 November 19\_\_ to 30 April 19\_\_) Unit No. 111, the east levee of the Sacramento River from Freeport to Walnut Grove, of the Sacramento River Flood Control Project is as follows:

a. The physical condition of the protective works is indicated by the inspector's report, copies of which are inclosed, and may be summarized as follows:

(Superintendent's summary of conditions)

It is our intention to perform the following maintenance work in order to repair or correct the conditions indicated:

(Outline the anticipated maintenance operations for the following 6 months.)

b. During this report period, major high water periods (water level at 17.0 on the gage at Snodgrass Slough and 10.0 on the gate at Walnut Grove) occurred on the following dates:

<u>Dates</u>	<u>Maximum Elevation</u>
_____	_____
_____	_____
_____	_____

Comments on the behavior of the protective works during such high water periods are as follows:

(Superintendent's log of flood observations)

During the high water stages when the water level reached a height of \_\_\_\_\_, on the gage or excess thereof (dates) \_\_\_\_\_, it was necessary to organize and carry out flood operations as follows:

(See Maintenance Manual \_\_\_\_\_.)

c. The inspections have indicated (no) or (the following) encroachments or trespasses upon the project right-of-way.

d. (No) (\_\_\_\_\_) permits have been issued for (the following) improvements or construction within the project right-of-way.

Executed copies of the permit documents issued are transmitted for your files.

e. The status of maintenance measures, indicated in the previous semi-annual report as being required or as suggested by the representatives of the District Engineer, is as follows:

(Statement of maintenance operations, item by item with percent completion.)

f. The fiscal statement of the Superintendent's operations for the current report period is as follows:

	<u>Labor</u>	<u>Material</u>	<u>Equipment</u>	<u>Overhead</u>	<u>Total</u>
1. Inspection					
2. Maintenance					
3. Flood fighting operations					

TOTAL

Respectfully submitted,

\_\_\_\_\_  
Superintendent of Works

EXHIBIT H

USFWS BIOLOGICAL OPINION  
DATED 19 JUN 2012



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
San Francisco Bay-Delta Fish and Wildlife Office  
650 Capitol Mall, Suite 8-300  
Sacramento, California 95814



In reply refer to:  
08FBDT00-2012-I-0021

JUN 19 2012

Alicia E. Kirchner  
Chief, Planning Division  
Corps of Engineers, Sacramento District  
1325 J Street  
Sacramento, California 95814-2922

**Subject:** Reinitiation of Section 7 Consultations for completed levee repairs under Public Law 84-99 within Reclamation Districts 3, 150, 551, 755, 765, 2098, 1001 and 17, Sacramento, San Joaquin, Yolo, and Solano Counties, California

Dear Ms. Kirchner:

This letter is in response to your May 24, 2012, letter requesting reinitiation of consultations with the U.S. Fish and Wildlife Service (Service) for an updated vegetation planting plan and its maintenance related to completed levee repairs under Public Law (PL) 84-99 within Reclamation Districts (RD) 3, 150, 551, 755, 765, 2098, 1001, and 17 in Sacramento, Yolo, San Joaquin, and Solano counties, California. The Corps of Engineers (Corps) is seeking concurrence with their determination that the proposed work and future operation and maintenance may affect but is not likely to adversely affect the Federally-listed delta smelt (*Hypomesus transpacificus*) or its critical habitat. Your request was received by the Service on May 25, 2012. Subsequently, on June 5, 2012, we received an electronic mail (email) message from Corps staff requesting that we exclude RD 1001 from the request, as the sites in this district would not be planted as part of this project. This response is in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) (Act).

## Background

Between December 28, 2005, and January 9, 2006, the State of California experienced a series of severe storms, which damaged levees within the Corps' Sacramento District boundaries. Water rose a second time in April 2006, and remained high in the system until June 2006. Many rivers and streams within the Sacramento and San Joaquin River Basins ran above flood stage during these events, and there were significant erosion and seepage problems with the levees. The California Department of Water Resources (DWR) and/or their maintaining agencies conducted flood fight activities while the Corps worked with DWR to restore the levee systems to the pre-

storm level of protection. These efforts were conducted under the authority of PL 84-99, Rehabilitation of Damaged Flood Control Works.

Between June 2008 and August 2009 the Service completed six individual section 7 consultations with the Corps on the effects of these repairs to delta smelt in RD 3 (Service file # 81420-2008-I-1030), RD 150 (Service file # 81420-2009-I-0707), RD 551/755 (Service file # 81420-2008-I-1031), RD 765 (Service file # 81420-2008-I-1404), RD 2098 (Service file # 81420-2008-I-1778) and RD 17 (Service file # 81420-2008-F-1032). Based upon implementation of the conservation measures proposed by the Corps for delta smelt, the Service concurred with the Corps' determination that the repairs in these RDs may affect, but would not likely adversely affect delta smelt.

### **Project Description**

The rock revetment portion of the construction for the above projects was completed in 2009; however, the willow pole cuttings proposed in the project descriptions have not been installed. Your request to reinitiate consultation is intended to provide an updated project description that clarifies how the vegetation component of the project will be installed at the repaired sites and integrates the future Operation and Maintenance (O&M) of the sites into the consultations.

The total length of the planting sites is about 30,500 linear feet, of which about 14,000 linear feet required a vegetation variance. The remainder of the planting sites are outside the vegetation free zone and do not require a variance. The Corps' Sacramento District obtained a variance from Engineering Technical Letter 1110-2-571 titled *Corps Guidelines for Landscape Planting and Vegetation Management at Floodwalls, Levees, and Embankment Dams* from Corps Headquarters on October 3, 2011.

The sites will be planted from the levee crown or from a barge using the stinger method. Based on the timing of the proposed plantings, the contractor will be directed to work from upstream to downstream to reduce the potential for encountering delta smelt. All plantings will be done above the existing waterline at the time of planting. Work will begin in late November or early December and be completed as soon as possible. When the barge is in use, it will continually move parallel to the levee as the plantings are installed.

Following installation of the willow pole cuttings, the Corps will supplement the O&M manuals and provide them to the non-Federal sponsor for implementation. This language is contained in Enclosure 1 and only applies to the sites that were repaired during the 2005/2006 flood event where willow pole cuttings are planted. No other changes to the O&M manuals will occur at this time.

The O&M requirements will be carried out by the Central Valley Flood Protection Board (Board), and may be further transferred to the local maintaining agencies by the Board. As long as the maintaining agency follows the supplemental O&M language at these sites, any future mitigation requirements resulting from damage to the site will be replaced in-kind at the site.

However, if the maintaining agency does not comply with the supplemental language and damages the plantings willingly, the maintaining agency will be responsible for the appropriate mitigation.

#### **Additional Proposed Conservation Measures**

- The plantings will be placed from the levee crown or barge using the stinger method.
- The work will occur from upstream to downstream to minimize the potential to encounter delta smelt.
- All planting will occur above the existing waterline at the time of installation.
- Work would begin in late November/early December to maximize planting success and would be completed as soon as possible to minimize effects on delta smelt.
- When a barge is used it will continually move parallel to the levee as the plantings are installed.

The Service has reviewed your amended project description and the existing biological opinions for the levee repairs within RD 3 (Service file # 81420-2008-I-1030), RD 150 (Service file # 81420-2009-I-0707), RD 551/755 (Service file # 81420-2008-I-1031), RD 765 (Service file # 81420-2008-I-1404), RD 2098 (Service file # 81420-2008-I-1778) and RD 17 (Service file # 81420-2008-F-1032), completed under PL 84-99 which included installing willow pole cuttings in their project description. The change in project description from what was analyzed previously is (1) more detail on the method of installation of the willow pole cuttings, (2) a revision in when plantings would be installed (during their dormant period) to give the plantings a better chance of success in establishing, and (3) details on the willow plantings future O&M. All other information from the original biological opinions remains unchanged.

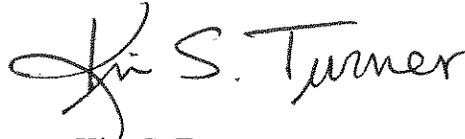
Based upon our review of the revised project description the Service finds the new information does not change our previous effects determination of may affect, but not likely to adversely affect delta smelt for the remaining work (willow pole cutting installation and future maintenance) proposed in RD 3, RD 150, RD 551/755, RD765, RD 2098, and RD 17. Unless new information reveals effects of the proposed work that may affect listed species in a manner or to an extent not considered in these consultations, or a new species is listed or critical habitat is designated that may be affected by the project, no further action pursuant to the Act is necessary for these projects.

Alicia E. Kirchner

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If you have any questions regarding our response, please contact Doug Weinrich at the Sacramento Fish and Wildlife Office at (916) 414-6600, or Kim S. Turner at the San Francisco Bay-Delta Fish and Wildlife Office at (916) 930-5603.

Sincerely,

A handwritten signature in black ink that reads "Kim S. Turner". The signature is written in a cursive style with a large, stylized "K" and "T".

Kim S. Turner  
Assistant Field Supervisor

Enclosure

cc:

Doug Weinrich, SFWO, Sacramento, CA

Liz Holland, COE, Sacramento, CA

Howard Brown, NOAA Fisheries, Sacramento, CA