

Revised 29 Dec 2016

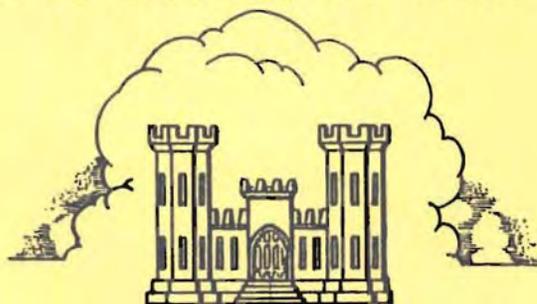
SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL

SACRAMENTO RIVER
FLOOD CONTROL PROJECT

UNIT NO. 102

EAST LEVEE OF SACRAMENTO RIVER
FROM ISLETON TO THREEMILE SLOUGH
AND

NORTHERLY LEVEE OF THREEMILE SLOUGH
FROM SACRAMENTO RIVER TO SAN JOAQUIN RIVER



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

Letter of transmittal no 4/28/59 221.04

CORPS OF ENGINEERS
U. S. ARMY

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OPERATION AND MAINTENANCE MANUAL
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Sacramento District
Corps of Engineers
U. S. Army
April 1959

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SACRAMENTO RIVER FLOOD CONTROL PROJECT**

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LOCATION	ADDITION OR REVISION	DATE
1-04 h.	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 i.	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 Feb 7 1968	Apr 1968
1-04 j.	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 k.	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 25 Nov 1969 and 16 Sep 1970	Dec 1970
1-04	Add subparagraph l	Apr 1973
Exhibit B	Added drawing no. 50-4-4487	Apr 1973
Exhibit F	Added copy of acceptance letter dated 18 Dec 1972	Apr 1973
1-04	Add subparagraph m	Mar 1978
2-05	Environment protection	Mar 1978
Exhibit B	Add drawing no. 50-4-4898	Mar 1978
Exhibit F	Add copy of letter of acceptance dated 14 Dec 1976	Mar 1978
1-04	Add subparagraph n.	Sep 1983
Exhibit B	Add drawing no. 50-4-5347	Sep 1983
Exhibit F	Add copy of letters of transfer dated 7 Apr 1981	Sep 1983
1-04	Add subparagraph o	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 acceptance dated 18 Mar 1986	Aug 1990
Exhibit F	Add copy of letter of transfer dated 19 Jun 2001	29 Apr 2010
Exhibit F	Add copy of letter of transfer dated 17 Nov 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 28 Nov 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 18 Dec 1951	16 Dec 2010

LOCATION	ADDITION OR REVISION	DATE
Exhibit F	Add copy of letter of acceptance dated 2 Jan 1952	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 acceptance dated 22 Jan 1954	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 27 Sep 1961	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 3 Oct 1967	1 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 25 Oct 1967	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 1 Feb 1968	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 10 Nov 1969	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 4 Dec 1972	1 Feb 2011
Exhibit F	Add copy of letter of transfer dated 2 Dec 1976	3 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 30 Apr 1981	3 Mar 2011
1-04	Add subparagraph p	3 Mar 2011
Exhibit B	Add drawing no. 50-4-4899	3 Mar 2011
1-04	Add subparagraph q	11 May 2011
Exhibit B	Add drawing no. 50-4-6039	11 May 2011
Exhibit F	Add copy of letter of transfer dated 11 Apr 2001	11 May 2011
1-04	Add subparagraph r	20 Sep 2011
Exhibit F	Add copy of letter of transfer dated 30 Jun 1983	20 Sep 2011
2-01	Add subparagraph c – Landside Berm Maintenance	9 Jan 2012
Exhibit B	Add drawing no. 50-10-3334/1	17 Sep 2012
Exhibit F	Add copy of letter of transfer dated 4 Oct 1965	17 Sep 2012
Exhibit F	Add copy of letter of transfer dated 29 Nov 2016	29 Dec 2016

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EXHIBITS

<u>Exhibit</u>	<u>Description</u>	
A	Flood Control Regulations (Contained in Standard Manual)	Unattached
A-1	Location Map	1 sheet
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
E	Check Lists - Levees, Channels and Structures	Sheets 1 thru 8
F	Letters of Transfer to the State Reclamation Board	Sheets 1 thru 13
G	Suggested Semi-Annual Report Form	Sheets 1 and 2

SUPPLEMENT TO STANDARD
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UNIT NO. 102
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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 (left bank) from the north boundary of Reclamation District No. 2067 at Isleton to Threemile Slough and the northerly levee of Threemile Slough from the Sacramento River to the San Joaquin River within Reclamation District No. 1601. The levee of this unit lies within Reclamation Districts 2067 and 1601 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 town of Isleton and adjacent agricultural lands against floodwaters of the Sacramento River and Threemile Slough. The grade of the adopted flood plane profile in the Sacramento River varies from elevation 14.0 at Isleton, the north boundary of Reclamation District No. 2067 to elevation 12.0 at its junction with Threemile Slough. Along Threemile Slough the grade of the adopted flood plane profile is level at elevation 12.0. Elevations are referred to U.S. Corps of Engineers datum. The reach of the Sacramento River from Isleton to Junction Point has a project design capacity of 35,900 cubic feet per second; from Junction Point to Threemile Slough the project design capacity is 579,000 cubic feet per second and along Threemile Slough the project design capacity is 65,000 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 17.4 to mile 9.1. Also, the levee and channel of Threemile Slough from the

Sacramento River to the San Joaquin River, a distance of about three miles. The above described levee has been constructed by local interests and portions as shown on the drawings of Exhibit B were enlarged, repaired or provided with stone protection 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 Threemile Slough near its junction with the San Joaquin River was completed on 28 February 1946, under Job Order No. 1037.
- b. Bank protection work on the left bank of the Sacramento River at mile 13.5 and 15.4 was completed on 28 February 1947 under Job Order No. 1092.
- c. Bank protection work on Threemile Slough 0.9 miles northerly from its junction with the San Joaquin River was completed on 2 December 1947, under Job Order No. 1119.
- d. Bank protection work at various sites along the Sacramento River at miles 12.5, 11.3, 11.15 and 10.7 was accomplished under Contract No. DA-04-167-ENG-181 by Blake Bros. Co. and completed on 3 April 1950.
- e. Levee setback and bank protection work at mile 15.0 on the left bank of the Sacramento River and at three sites along the easterly bank of Threemile Slough was accomplished under Contract No. DA-04-167-ENG-640 by A. Tiechert and Son, Inc., during the period from 15 August 1951 to 9 May 1952.
- f. Levee reconstruction and bank protection work at mile 10.5 on the left bank of the Sacramento River and along Threemile Slough was accomplished under Contract No. DA-04-167-ENG-1148 by M. Malfitano and Son, Inc., during the period from 25 March 1954 to 17 November 1954.
- g. Shaping and surfacing of the levee along the easterly or left bank of Threemile Slough was completed on 10 August 1955 under Contract No. DA-04-167-ENG-1368.
- h. 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.
- i. 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.

j. Stone protection on the left bank of the Sacramento River at Site Mile 12.4 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.

k. Stone protection on the left bank of the Three Mile Slough at Sites II and III and on the left bank of the Sacramento River at Site Miles 16.7 and 15.4 (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.

l. Stone protection, selective clearing, and levee bank sloping on the left bank of the Sacramento River at Site Mile 12.4 (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.

m. Stone protection, selective clearing, and levee bank sloping on the left bank of the Sacramento River at Site Mile 12.9, 13.1, 14.9, and 15.3 (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, Inc. during the period from 25 August 1975 to 27 December 1976. Specification No. 4559, Drawing No. 50-4-4898.

n. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Mile 16.5 (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.

o. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Mile 10.4 (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.

p. Levee repair, ½ mile downstream from Seven Mile Slough, landside subsidence, was accomplished by James L. Ferry & sons during the period from 6 September 1973 to 7 December 1973 under Contract No. DACW05-74-C-0012. Specification No. 4592, Drawing No. 50-4-4899.

q. Emergency levee repairs at various locations along the east bank of Three Mile Slough in Reclamation District No. 1601, from Seven Mile Slough to the San Joaquin River was completed by AFA Construction Inc. on 3 November 1997 under Contract No. DACW05-97-C-0148. Specification No. 9924E, Drawing No. 50-04-6039.

r. Emergency levee repairs on Twitchell Island consisting of construction of an approximately 4,000-foot long by 200 to 400-foot wide landside berm along the left bank Three Mile Slough, was completed on 24 March 1983 under Contract No. DACW05-83-C-0054.

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 8.0 on the U.S. Corps of Engineers continuous water stage recorder and staff gage located on the right bank of the Sacramento River at the Army dock about one mile downstream from Rio Vista. Gage set at elevation 0.00 feet U.S. Corps of Engineers datum and minus 3.06 feet, U.S.G.S. datum. Also when water surface in Threemile Slough reaches or exceeds the reading of 5.0 of the State Department of Water Resources continuous water stage recorder and staff gage located on the right bank of Threemile Slough 300 feet downstream from the Sacramento River. Gage set at elevation 0.00 U.S.G.S. datum, and 3.22 U.S. Corps of Engineers datum.

1-06. Assurances Provided by Local Interests. Assurance 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. Transfer to the State Reclamation Board. The levee within this unit was transferred to the State Reclamation Board for maintenance and operation by letters dated 16 November 1951, 7 December 1951, 13 December 1951, 24 November 1953, 17 December 1954 and 12 August 1955, all as shown on copies of letters of 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. State Highway No. 24 traverses the crown of the levee for most of the distance from Isleton to Threemile Slough. Along the northerly bank of the Threemile Slough from the Sacramento River to Sevenmile Slough there is no levee as that portion is covered by a dredge spoil area to a higher elevation than would be required for a levee. Within this unit there is included about one half mile of levee along the easterly bank of Sevenmile Slough from a dam across Sevenmile Slough to its junction with Threemile Slough. This unit also includes the left bank levee of Threemile Slough from its junction with Sevenmile Slough to the San Joaquin River, a distance of about two miles. 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.

c. Landside Berm Maintenance. A permanent 150-foot wide landside berm should be maintained. A permanent easement should be obtained over the 150-foot landside berm area and activities within this area should be regulated. Material placed beyond the 150-foot limit is to be used for maintenance work on the project levee and berm, with a temporary easement over that area to control use of the material. Refer to transfer letter dated 30 June 1983, Exhibit F.

2-02. Drainage and Irrigation Structures.

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

<u>Location:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>River</u>	<u>: Size of</u>	<u>: Gate</u>	<u>:</u>	<u>: Invert - Ft.</u>
<u>Mileage</u>	<u>: Steel Pipe</u>	<u>: Location</u>	<u>: Other Structure Description</u>	<u>: below crown</u>
<u>R. D. 2067</u>				
17.3	8"	R.S.		7.7
17.0	8"	R.S.		7.7
16.8	12"	-		7.0
16.8	6"	L.S.	Pumphouse L.S.	6.5
16.7	4"	-	Abandoned	10.3
16.7	4"	-	Abandoned	3.3
16.7	4'x4'	-	Concrete box - abandoned	5.0
16.7	6"	-	Abandoned	5.5
16.6	14"	-		4.2
16.4	10"	L.S.	Pumphouse L.S.	7.8
16.2	10"	L.S.	Pumphouse L.S.	7.8
15.9	20"	-	Siphon	4.7
15.8	10"	R.S.	Pumphouse R.S.	3.8
15.3	7"	R.S.		13.0
14.8	12"	L.S.		13.0
13.6	10"	L.S.		4.8
13.4	8"	-		8.7
13.2	16"	-	Siphon	6.3
13.0	16"	-		6.3
12.8	16"	-		7.5
12.75	33"	R.S.		5.2
12.6	12"	-	At Rio Vista Bridge	2.0
12.2	8"	L.S.	Pumphouse L.S.	3.7
11.9	2-7"	R.S.		6.6 & 7.6
11.75	14"	-		10.7
11.1	10"	-	Siphon	3.8
10.9	12"	-	Abandoned	4.0
10.9	18"	-	Siphon	4.5
10.5	16"	-		7.3
9.8	20"	-		5.7
9.5	20"	-		5.7
<u>R.D. 1601</u>				
0.1	8"	-	Siphon on Sevenmile Slough	3.2
0.34	8"	-	Siphon on Sevenmile Slough	3.1
1.66	8"	-	Siphon on Threemile Slough	3.6

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 from Isleton to Junction Point and the width between the levees varies from 700 feet at Isleton to 1,200 feet at Junction Point. From Junction Point to Threemile Slough there is a levee on the left bank only and the average channel width is about 2,400 feet. On Threemile Slough the channel is confined between levees on both banks with a high spoil area on the lower end of Brannan Island. The average width between levees on Threemile Slough is about 600 feet. The project design capacity of both channels is indicated in paragraph 1-02 of this manual.

Since the channels of the Sacramento River and Threemile Slough are utilized for navigable purposes, the responsibility for inspection, maintenance and operation of the channels 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 8.0 on the gage near Rio Vista and a reading of 5.0 on the gage on Threemile Slough near the Sacramento River 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 Rio Vista and on Threemile Slough reaches the gage reading indicated above and record the time of observations. One copy of the readings shall be forwarded to the District Engineer 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 bridge crossing the Sacramento River at Rio Vista at approximate river mile 12.6.

(b) A bridge crossing Threemile Slough near its junction with the Sacramento River.

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

(3) Hydrographic Facilities.

(a) A continuous water stage recorder and staff gage located on the right bank of the Sacramento River at the Army dock about one mile downstream from Rio Vista. This gage to be maintained by the U. S. Corps of Engineers.

(b) A continuous water stage recorder and staff gage located on the right bank of Threemile Slough about 300 feet downstream from the Sacramento River. 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:

Standard Manual. (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

2-05. Environment Protection.

a. 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. *
Dead trees with wildlife value will be retained except where they constitute a hazard to existing flood control works.

b. Consistent with the standards established in this manual and those established by the State of California, all wild growth, including but not limited to, trees, shrubs and other vegetation within those project areas where environmental easements have been obtained by local interests shall be preserved and retained. (Reference Site Miles 15.3, left bank, Sacramento River.) *

SECTION III

REPAIR OF DAMAGE TO PROJECT WORKS AND METHODS OF COMBATING FLOOD CONDITIONS

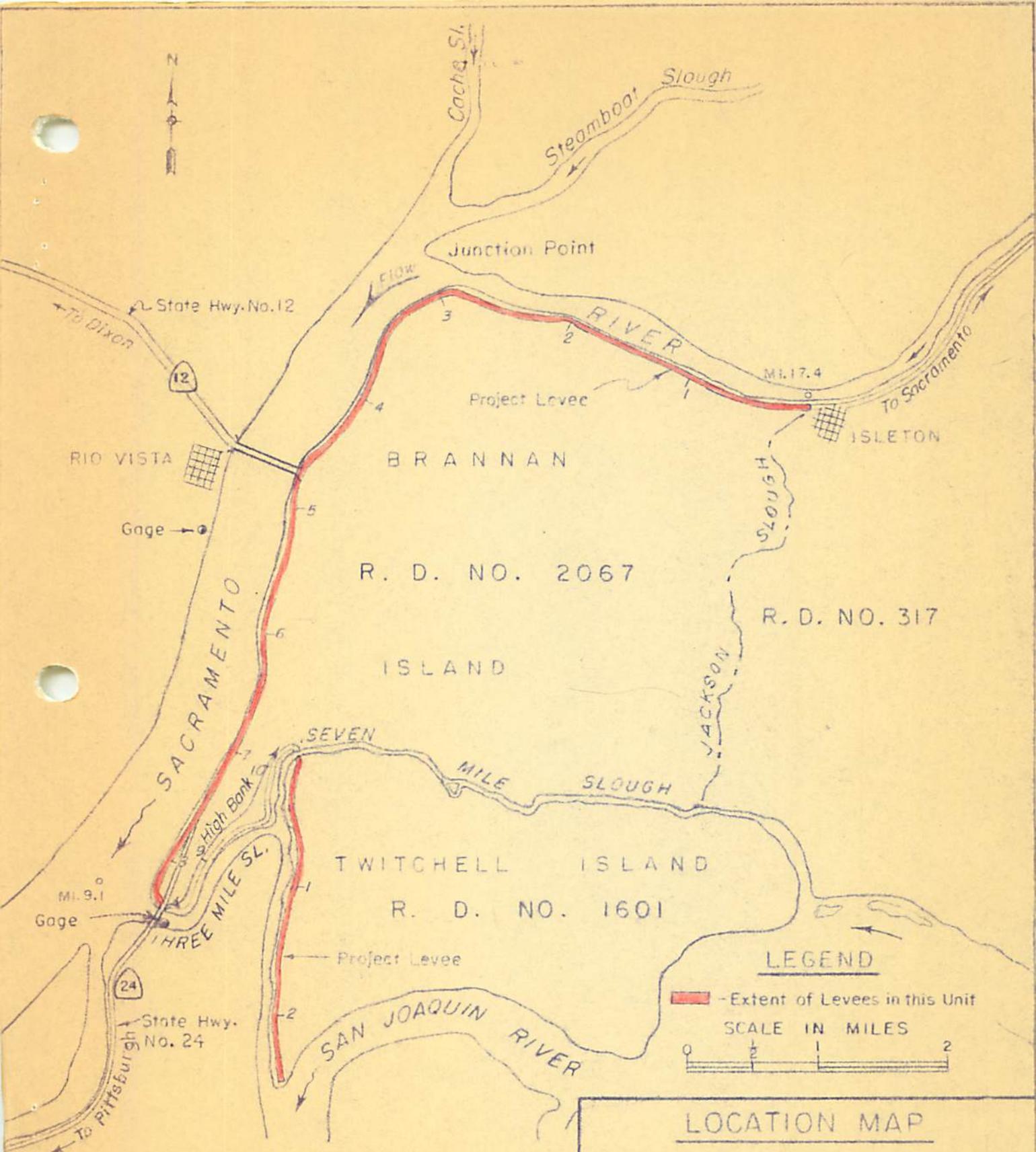
3-01. Repair of Damage. In the event of serious damage to the project works, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Department of Water Resources, State of California, who coordinates maintenance of project works of 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



LOCATION MAP

UNIT NO. 102
 EAST LEVEE OF
 SACRAMENTO RIVER
 AND NORTHERLY LEVEE
 OF THREEMILE SLOUGH

EXHIBIT B

“AS CONSTRUCTED”

Drawings

See separate folder for the following drawings:

<u>File No.</u>	<u>Title</u>
7-4-1234	Levee Setback and Bank Protection on Threemile Slough near junction with San Joaquin River, 1 sheet.
6-4-1594	Proposed Shore Protection, Mile 13.5L, 1 sheet.
6-4-1595	Proposed Bank Protection, Mile 15.4L, 1 sheet.
50-4-2374	Proposed Levee Setback and Bank Protection along Threemile Slough 0.9 Miles northerly from junction with San Joaquin River, 1 sheet.
50-4-2626	Bank Protection at various locations, Lower Sacramento River and Threemile Slough, 1 sheet.
50-4-2757	Locality Map, Bank Protection – Levee Setbacks at 7 Sites, 1 sheet.
50-4-2761	Bank Protection Left Bank Sacramento River Mile 15.0, 1 sheet.
50-4-2762	Bank Protection Left Bank Threemile Slough at Junction of Sevenmile Slough, 1 sheet.
50-4-2763	Levee Setback and Bank Protection, Left Bank Threemile Slough 1 mile downstream from Sevenmile Slough, 1 sheet.
50-4-2764	Levee Setback and Bank Protection, Left Bank Threemile Slough at Junction of Stockton Deep Water Channel, 1 sheet.
50-4-2958	Levee Enlargement and Bank Protection, East Levee Sacramento River and Threemile Slough, Sheets 1, 10, 12, 13 and 14.
50-4-3076	Levee Crown Surfacing, Left Bank Levee of Sacramento River and Threemile Slough, 1 sheet.
50-4-3741	Stone protection at various locations between Sacramento and Rio Vista, sheets 2, 3, and 14.

EXHIBIT B

<u>File No.</u>	<u>Title</u>
50-4-4047	Bank Protection Right and Left Banks Sacramento River Various Sites Between Sacramento and Rio Vista, in 27 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.
50-4-4283	Bank Protection, Various Locations, Right and Left Banks, Sacramento River and Georgiana Slough, in 34 sheets.
50-4-4487	Bank Protection, Various Locations, Right and Left Banks, Sacramento River from Mile 53.3 to Rio Vista, in 24 sheets.
50-4-4898	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Between Mile 12.0 and Mile 58.0, in 43 sheets.
50-4-4899	Levee repair, Left Bank, Threemile Slough ½ mile downstream from Seven Mile Slough.
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, Unit 37, Right and Left Banks, Sacramento River and Tributaries, Mile 0.0 to Mile 62.0 in 55 sheets.
50-4-6039	Twitchell Island, Sacramento County RD 1601, PL 84-99 Phase III Levee Repair, in 10 sheets.
50-10-3334/1	Enlarged Channel – reference 4 October 1965 letter (Exhibit F) and profile drawing (unattached)

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. 102

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

Item	:	Remarks
(a) Location by Station	:	
(b) Settlement, sloughing, or loss of grade	:	
(c) Erosion of back slope	:	
(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 gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying 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 repairing 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. 102

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 or above the diversion works 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
UNIT NO. 102

Inspector's Report Sheet No. _____

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
<u>Sacramento River - R.D. 2067</u>							
17.3	Left						
17.0	Left						
16.8	Left						
16.8	Left						
16.7	Left						
16.7	Left						
16.7	Left						
16.7	Left						
16.6	Left						
16.4	Left						
16.2	Left						
15.9	Left						
15.8	Left						
15.3	Left						
14.8	Left						
13.6	Left						
13.4	Left						
13.2	Left						

CHECK LIST NO. 4
DRAINAGE AND IRRIGATION STRUCTURES
UNIT NO. 102

Inspector's Report Sheet No. _____

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
<u>Sacramento River - R.D. 2067</u>							
13.0	Left						
12.8	Left						
12.75	Left						
12.6	Left						
12.2	Left						
11.9	Left						
11.75	Left						
11.1	Left						
10.9	Left						
10.9	Left						
10.5	Left						
9.8	Left						
9.5	Left						
<u>Twitchell Island - R.D. 1601</u>							
0.1	Left						On Severnile Slough
0.34	Left						On Sevenmile Slough
1.66	Left						On Threemile Slough

INSTRUCTIONS FOR COMPLETING SHEET 6, EXHIBIT E
(To be printed on back of sheets 6 and 7)

- (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 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

Standard O&M Manual Sacramento River Flood Control Project	
Unit No.	Project Name
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

Unit No.	Project Name
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

THE RECLAMATION BOARD

16 NINTH STREET, ROOM 1601
SACRAMENTO, CA 95814
(916) 653-5434 FAX: (916) 653-5805
Permits: (916) 653-5726 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 Three Mile Slough at Levee Mile 0.02 to LM 2.20 (in Reclamation District No. 1601) 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. We acknowledge receipt of as-constructed drawings and will forward a copy to RD 1601.

The Board, on behalf of the State of California, accepted the completed repairs at its June 15, 2001 meeting and transferred the Three Mile Slough levee repairs to RD 1601. Until the Corps provides the O&M Manual amendment, RD 1601 will perform operation and maintenance in accordance with 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) 574-0364.

Sincerely,

A handwritten signature in cursive script that reads "Betsy A. Marchand".

Betsy A. Marchand
President

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

Mr. Ricky Carter, Superintendent
Reclamation District No. 1601
2360 West Twitchell Island Road
Rio Vista, California 94571

Exhibit F



APR 11 2001

Navigation and Flood Control Unit

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

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the east levee of Three Mile Slough from Seven Mile Slough to the San Joaquin River, in RD 1601, to the State of California for operation and maintenance.

The work consisted of restoring the east bank of Three Mile Slough damaged by the January 1997 flood by installing riprap over levee rockfill placed over geotextile at L.M. 0.74, L.M. 1.05, L.M. 1.09-1.10, L.M. 1.19-1.20, L.M. 1.30, L.M. 1.40, L.M. 1.45, L.M. 1.50, L.M. 1.60, L.M. 1.70, L.M. 1.80, L.M. 1.90, L.M. 1.95, L.M. 2.00, L.M. 2.15, and L.M. 2.20. Levee rockfill was installed over geotextile at L.M. 0.02, L.M. 0.42, and L.M. 0.70. The levee was built up and the road surface was replaced at L.M. 0.48-0.64. A seepage/stability berm with levee fill and drain rock was installed and the berm was hydroseeded at L.M. 0.49-0.56. The work, as listed in the enclosure, was completed on November 3, 1997 in accordance with Specification No. 9924E, Drawing File 50-04-6039, Contract No. DACW05-97-C-0148.

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 1601. 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.

Sincerely,

Michael J. Walsh
Colonel, Corps of Engineers
District Engineer

Enclosure

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

Unit 102

MINTON *dd*

TAVANA

SANDNER

WINTON

DURHAM-AGUILERA

DOYLE

KORMAN

CHARLTON

O'BRIEN

WALSH

MC

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>7a. EMPLOYEE'S INITIALS</p>	
<p>5. DATE OF DELIVERY DEC 17 1983</p>		<p>POSTMARK (may be on reverse side)</p>	
<p>6. ADDRESSEE'S ADDRESS (Only if requested)</p>		<p>7. UNABLE TO DELIVER BECAUSE:</p>	

(PL 99 ASSURANCE # 657) *Smith*
Helms
Kelly

June 30, 1983

SPKED-D

Mr. Eldon E. Rinehart, General Manager
The Reclamation Board
1416 Ninth Street, Room 335-18
Sacramento, California 95814

Dear Mr. Rinehart:

We received a copy of Mr. John Wright's June 15, 1983 letter to you and your June 21 reply concerning Reclamation District No. 1601's proposed work along the landside berm placed along the Twitchell Island project levee this year under PL 84-99 authority.

Members of my staff have previously discussed with Mr. Wright and your staff maintaining a 150-foot wide berm landward of the landside toe of the levee. We have no objection to the Reclamation District's proposed work if the 150-foot limit is adhered to rather than the 90-foot limit proposed in Mr. Wright's June 15 letter. Mr. Don Jones of my staff discussed this limit with Mr. Wright most recently on June 23. We request you furnish us copies of plans for the work and any drawings or surveys made after the work is complete.

The Corps of Engineers' emergency work on Twitchell Island was accomplished 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 March 24, 1983 and consisted of constructing an approximately 4,000-foot long by 200 to 400-foot wide landside berm along the left bank levee of Threemile Slough in accordance with Contract No. DACW05-83-C-0054. A permanent 150-foot wide landside berm is to be maintained in accordance with assurances which your Board provided for the Sacramento River Flood Control Project. A permanent easement should be obtained over the 150-foot landside berm area and activities within this area should be regulated. Material placed beyond the 150-foot limit is to be used for maintenance work on the project levee and berm, and a temporary easement should be obtained over that area to control use of the material. Information on this emergency work will be added by amendment to the Operation and Maintenance Manual, Supplement No. 102, Sacramento River Flood Control Project, and copies of the amendment will be furnished your office at a later date.

The final construction cost for the Corps of Engineers flood fight work on Twitchell Island earlier this year was \$564,000. In accordance with our March 9, 1983 letter, please submit funds in the amount of \$282,000 payable to the Treasurer of the United States.

I thought funds were to be submitted prior to advertising work. *AS*

Sincerely,

Arthur E. Williams
Colonel, Corps of Engineers
District Engineer

JONES/dc

NOLAN

COUNTRYMAN

Copy Furnished:
Mr. John Wright
Consulting Civil Engineer
2012 "H" Street, Suite 201
Sacramento, California 95814

CROWE

WEDDELL

cc: Levees
Civ Des Br
Engr Div
C-O Div
Ops Br ✓
Emerg Mgmt Br
Counsel
Reading File

GARRETT

HELM

DENNIS

DENNEY

LEE

WILLIAMS

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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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

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

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STATE OF CALIFORNIA
THE RECLAMATION BOARD

C
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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

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

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 57+00	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*

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

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December 18, 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 December 4, 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 53.3, 51.7, 46.3, 45.9, 44.9, Right Bank and Site Mile 12.4 Left 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, and 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

4 December 1972

F & A (Jones)

Valley Res Ofc

Engr (Prog Dev)

cc: Engr (Lev&Chann)

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

Gentlemen:

On 3 November 1972 a joint inspection was made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #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 right bank at Site Miles 44.9, 45.9, 46.3, 51.7 and 53.3, and left bank at Site Mile 12.4 is listed on the inclosure. The work was completed on 3 November 1972 in accordance with Specification No. 3680, Contract No. DACW03-72-C-0046, 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 4 December 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, Supplement Nos. 102, 114 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

1 Incl (dupe)
As stated

Copy furnished:
DWR, ATTN: John Wright & C. King
DAEN-CWO
SPB

*Unit 102,
114, 116*

[Signature]
ROMPALA/dc

[Signature]
COLEMAN
[Signature]
HENSON

[Signature]
MCKINSEY

[Signature]
LORD

DONOVAN
[Signature]

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

RIGHT BANK

<u>SECT MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TOEWALL</u>	<u>L.F.</u>
114 { 44.9 45.9 46.3 51.7 53.3	136+00 to 148+61	1261		
	93+00 to 101+00	800		
	68+00 to 79+00	1100		
	24+00 to 48+50	2450	33+50 to 37+00	350
	0+00 to 9+85	985		
	14+00 to 24+25	1025		
		7621		

LEFT BANK

12.4	7+00 to 19+25	1225	8+72 to 10+20	148
		8846		

Unit 102, 114, 116

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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

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
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November 25, 1969

4130.60.107

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

Dear Sir:

Reference is made to your letter of November 10, 1969, concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project, Unit 15, consisting of Site I, Right Bank, and Sites II and III, Left Bank, Three Mile Slough.

This work was constructed in accordance with Specification No. 3349, Contract No. DACW05-69-C-0076, Drawing No. 50-4-4283.

The Reclamation Board, at its meeting of November 21, 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

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

10 November 1969

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

Gentlemen:

Reference is made to the joint inspection of 10 November 1969, 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 bank sloping and placement of stone bank protection on two sites on the left bank and one site on the right bank of Threemile Slough, is listed on the inclosure. The work was completed on 10 November 1969, in accordance with Specification No. 3349, Contract No. DACW05-69-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 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. 101 & No. 102, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

GEORGE B. FINK
Colonel, CE
District Engineer

1 Incl
as

Copy furnished:
DWR

OCE
SPD

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

M
ROMPALA/pp

M
COLEMAN

A
HENSON

D
HART

G
FINK

Units 101, 102

K

Copy to Alameda

SPKCO-0

10 November 1969

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT - PORTION OF UNIT 15
(THREE MILE SLOUGH)

RIGHT BANK - SHERMAN ISLAND

<u>SITE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>
I	64+00 to 66+45	= 245

LEFT BANK - TWITCHELL ISLAND

II	20+40 to 28+00	= 760
III	38+30 to 39+70	= 140

Units 101, 102

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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)

ROMPALA/pp

COLEMAN

H

YOUNG

31

CW

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



OCT 25 1967

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 October 3, 1967 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 11, Sites Mile 16.6 left bank Sacramento River and Sites Mile 18.5, 18.8, 23.7 and 24.1 right bank Sacramento River, in accordance with Specification No. 3157.

The Reclamation Board, at its meeting of October 20, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A handwritten signature in cursive script that reads "A. E. McCollam".

A. E. McCOLLAM
General Manager

JHMacC:pa

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Units 102, 104

OCT 25 1967

#14
C-2
3 October 1967

SPKCO-F

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

Gentlemen:

Reference is made to the joint inspection of 31 August 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.

The flood control work consisting of levee enlargement, bank sloping and placement of stone bank protection on Sacramento River at Sites Mile 16.6, left bank; and Site Miles 18.5, 18.8, 23.7 & 24.1, right bank, is listed on the attached inclosure. The work was completed on 25 September 1967, 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 in 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 & 104, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG
Colonel, CE
District Engineer

JK
ROMPAIA/PP

CC
COLEMAN

MS
HENSBY

MS
HART

JK
YOUNG

✓ 1 Incl
Summary Sheet

✓ Copy furnished:
Dept Water Resources

✓ O.C.E.
S.P.D.

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

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

JK
3

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT
UNIT #11

<u>LEVEE UNIT SITE MILE</u>	<u>LEVEE ENLARGEMENT STATION</u>	<u>LINEAL FEET</u>	<u>STONE PROTECTION STATION</u>	<u>LINEAL FEET</u>	<u>ROCK TOE WALL STATION</u>	<u>LINEAL FEET</u>
<u>LEFT BANK</u>						
16.6	2+15 to 6+60	445	2+15 to 6+60	445	6+15 to 6+60	45
<u>RIGHT BANK</u>						
18.5	15+50 to 22+00	650	15+50 to 22+00	650		
18.8	3+00 to 6+42	342	3+00 to 6+42	342		
23.7	128+00 to 136+45	845	128+00 to 136+45	845		
24.1	107+00 to 123+00	1,600	107+00 to 122+00	1,500		

102

104

67-0027

To Alice H. Odell
3882 LEVEE
STONE RETET.

Channel Enlargement
(reference profile drawing)

WPGO-F F

4 October 1965

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

Gentlemen:

Reference is made to the following:

- a. Flood Control Act, 1 March 1917, authorizing a plan for Flood Control on the Sacramento River in accordance with the plans of the California Debris Commission as delineated in House Document No. 81, 62nd Congress, 1st Session.
- b. Flood Control Act, 15 May 1928, modifying the plan for Flood Control on the Sacramento River in accordance with the recommendations of the Debris Commission as contained in Senate Document No. 23, 69th Congress, 1st Session.
- c. Memorandum of Understanding dated 6 November 1953, listing the remaining items of work to complete the Sacramento River Flood Control Project.
- d. Sacramento District letter dated 30 August 1965, to your Board, advising that the enlarged channel of the Sacramento River between Junction Point and Collinsville, is adequate for flood control as authorized.

In accordance with the above references, the enlarged channel of the Sacramento River between Junction Point, River Mile 14.4, to Collinsville, River Mile 0.0, Unit No. 677, is hereby transferred to the State of California for operation and maintenance.

Maintenance work required 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. In this instance an Operation and Maintenance Manual will not be prepared.

SPERO-N
The Reclamation Board

4 October 1965

However, maintenance dredging shall be performed as required to insure that the flood plane does not rise above that shown on Drawing No. 50-10-3334/1, a print of which is inclosed herewith. Also, channel banks that are not occupied by Sacramento River Flood Control Project levees shall be maintained by revetment or otherwise as necessary to keep such banks in a reasonably stable condition.

Sincerely yours,

- 2 Incl
1. P.C. Regs
2. Dwg 50-10-3334/1

ROBERT E. MATHE
Colonel, CE
District Engineer

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

Dept Water Resources

cc: Engr Div-Lev & Chan w/o incl
Engr Div-Prog Dev w/o incl
Valley Res Ofc w/o incl
F&A (Attn: Cordano) w/o incl

[Signature]
MORGAN/PP

[Signature]
COLEMAN

[Signature]
THOMPSON

[Signature]
GOMEZ

[Signature]
MATHE

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>LEVEE 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

SPKCO-C

27 SEP 1961

Supplement #1

The Reclamation Board
State of California
1215 "O" Street
Sacramento 14, California

Gentlemen:

Reference is made to Supplement dated 29 November 1957 to the Memorandum of Understanding entered into with the State of California under date of 30 November 1953, covering added items of work required to complete the Sacramento River Flood Control Project.

The flood control work, designated as Item No. 50c in the above referenced supplement, was completed on 8 September 1960 and consists of gravel surfacing of patrol road, 12-foot wide and 4-inches thick, on left levee (Twitchell Island side) of Threemile Slough. The patrol road starts approximately 3200 feet below the junction of Threemile and Sevensmile Sloughs and extends 680 feet downstream on above described levee.

The foregoing supplemental work, having been completed to current standards for the Sacramento River Flood Control Project, is hereby transferred to the State of California for operation and maintenance. A maintenance manual for this section of project levee has already been furnished which adequately covers operation and maintenance requirements for the above item.

A copy of this letter is being transmitted to the Department of Water Resources.

Sincerely yours,

M. R. BITTIKOFER
Lt Colonel, CE
Acting District Engineer

Copy furnished:
Dept Water Resources
23rd & "R" Streets
Sacramento, Calif.

O.C.E.
S.P.D.

cc: Engr Divn-Levees & Channels
Engr Divn-Program Dev Br
Fin & Acctg Br
Northern Area Ofc

REGISTERED

RETURN RECEIPT REQUESTED

Concurrences	<i>[Signature]</i>
Originator	LHK
Date	9/25/61
Dist. Engr.	<input checked="" type="checkbox"/>
Dep. Dist. Engr.	<i>[Signature]</i>
Exec. Asst.	<i>[Signature]</i>
Cmptlr.	
Budget	
Fin. & Acctg.	
Mgmt.	
Property	
Office Service	<i>[Signature]</i>
Constn. Opns.	<i>[Signature]</i>
Engr'g.	
R. E.	
Personnel	
Counsel	
Supply	
Security	
Safety	
Tech. Liaison	

OPERATIONS BRANCH
CHANNELS & LEVEES SECTION

Unit 102

EARL WARREN
GOVERNOR

A. M. BARTON
Chief Engineer and General Manager
EDMUND C. BROWN, Attorney General
Legal Adviser
G. F. MELLIN
Assistant Engineer and Appraiser
S. A. HONAKER
Assistant Secretary

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

THE RECLAMATION BOARD

OF THE
STATE OF CALIFORNIA

1100 O STREET
SACRAMENTO 14, CALIFORNIA
TELEPHONE: GI 3-4671

January 22, 1954

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

Mile	16.9 to 16.95	=	369
	17.5 to 17.6	=	370
	18.0 to 18.15	=	371
	26.3 to 26.4	=	372
	26.45 to 26.5	=	373
	21.5 to 21.6	=	374 ✓

Dear Sir:

Reference your SPKKO-P 824.3 (Sacramento River Flood Control Project) dated December 11, 1953 relating to units of levee between Mile 16.9 and 26.5 on the left bank of the Sacramento River.

The Reclamation Board at its meeting on January 20, 1954 accepted for operation and maintenance the levee on the left bank of the Sacramento River between Mile 16.9 and 26.5, reaffirming their action of July 2, 1947 and December 3, 1953 in acceptance of completed contracts. Contiguous banks were accepted December 3, 1953 on contract work under Specification No. 1784. This contract included work on the contiguous banks at the following locations: Left Bank of Sacramento River, between River Mile Numbers 16.9 to 16.95, 17.5 to 17.6, 18.0 to 18.15, 26.3 to 26.4, and 26.45 to 26.5.

The remaining 9.15 miles of contiguous waterway banks were not accepted at this time. Contiguous waterway banks for considerable distances in this reach are not in a stable condition capable of economic maintenance. Under work accepted on July 2, 1947, an average berm width of 40 feet was provided by levee set back between River Mile 18.6 and 26.4. Right of way for this set back was very expensive. No bank protection was provided in the setting back of the levee. Present observation has indicated that bank recession in this 7.8 miles has averaged about two feet per year, with a maximum of about 6 feet per year. Under present bank deterioration additional set back of this levee will be required in the near future.

The Board at its meeting on January 20, 1954, also adopted a policy not to accept the contiguous banks where unstable conditions exist and the banks are not the proper height.

Unit No 374
Ltr to Div Engr Letters No. 35
Unit 2102 + 103

-2-

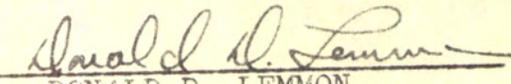
District Engineer
January 22, 1954

Attached, for your information, are a set of cross sections taken from your final sections on the work completed in 1947 upon which indicated in red, are present locations of river bank.

Yours very truly

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

BY



DONALD D. LEMMON
Assistant Secretary

GFM:cmh
Encls. (4)

CC: State Engineer

RECEIVED

JAN 28 8 02 AM '54

RECEIVED

Units 102+103

C
O
P
Y

THE RECLAMATION BOARD
of the
STATE OF CALIFORNIA

April 2, 1952

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 December 7, 1951, File SPKKO-P, transferring to The Reclamation Board levees and their contiguous waterward banks as follows:

- 87A**
= 329 a. Site 2 of Part "A" - Right bank of the Sacramento River, Mile 28.5 on Grand Island, Station 6700 to 16700, Drawing No. 50-4-2760. 104
- 89A**
= 331 b. Site 1 of Part "B" - Left bank of the Sacramento River, Mile 15.0 on Brannan Island, Station 22735 to 31700, Drawing No. 50-4-2761. 102

2. The foregoing items are completed contract units of bank revetment on levees constructed by local interests. The Reclamation Board on December 18, 1951, formally accepted these two sections of levee and their contiguous waterward banks for flood control operation and maintenance.

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 Engr, South Pacific Div.

Corps of Engrs, U. S. Army

P. O. Box 3339, Rincon Annex, San Francisco 19

State Engineer

Sacramento, California

Units 104, 102

(14)

329 and 331

Units 87A and 89A

Jan. 2, 1952

The Board accepted the transfer from the Corps of Engineers, in letters as 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
Unit No. 80A = 322 1	13 Dec. 1951	a. Left Bank Sacramento River Mile 94.0 to 96.6	Completed contract. Spec. No. 1485. Maintained by R. D. No. 1500
Unit No. 81A 323		b. Left Bank Sacramento River Mile 114.2 to 115.6	Do
Unit No. 82A 324		c. Left Bank Sacramento River Mile 116.1 to 117.0	Do
Unit No. 86A 325 2	19 Dec. 1951	Part A, Site 1 - Right Bank Sacramento River, Spec. No. 1515, Grand Island Mile 30.25 to 30.5	Completed contract. Maintained by R. D. No. 3
3	13 Dec. 1951	a(1) Sherman Island Levee Bridge to Sacramento River	Completed contract. Maintained by R. D. No. 341. 101
		a(2) Sherman Island Levee Bridge East 1300 ft.	Do 101
		b. Plug across Seven Mile Slough	Constructed and maintained by R.D. Nos. 1601 and 2067. 102
		c. Brannan Island levee of Seven Mile Slough plug and along Three Mile Slough to Sacramento River	Spoil area owned by S. & S.J.D.D. No maintenance required. 103
		d(14) East levee Sacramento River Mile 18.5 to 21.5	Completed contract. Maintained by R.D. No. 407. 103
		d(15) East levee Sacramento River Mile 21.6 to 26.3	Completed contract. Maintained by R.D. No. 556.
		d(16) East levee Sacramento River Mile 26.4 to Georgiana Sl.	Completed contract. Maintained by R. D. No. 556. 103
		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. 103

Units No. 80A-81A - 82-A and 86A, and
Items 199 to 295
1005
15

No.	Date of Letter	Levee Location	Remarks
3	13 Dec. 1951	d(28) East levee Sacramento River Mile 35.38 to 35.74	Completed contract. Maintained by R.D. No. 755. 111
		d(44) East levee Sacramento River Mile 44.5 to 45.3	Constructed by Assessment No. 5. 115 X
		d(46) East levee Sacramento River Mile 56.1 to American River	Constructed and maintained by City of Sacramento. 110.1 X
		d(50) East levee Sacramento River Mile 92.9 to 94.0	Completed contract. Maintained by R.D. No. 1500.
		d(52) East levee Sacramento River Mile 97.5 to 97.7	Completed contract. Maintained by R. D. No. 1500.
		d(54) East levee Sacramento River Mile 99.9 to 102.5	Do
		d(57), (58) East levee Sacramento River Mile 104.2 to 105.65	Do
		d(59) East levee Sacramento River Mile 110.9 to 111.5	Do
		d(61) East bank Sacramento River at Tisdale Weir	Maintained by State under Section 8361 Water Code. 120
		h(3) West levee Sacramento River Mile 133.1 to 133.3	Completed contract. Maintained by Sacramento River West Side Levee District.
		h(5) West levee Sacramento River Mile 134.3 to 140.6	Do
		h(7) West levee Sacramento River Mile 141.3 to 142.0	Do
		h(9) West levee Sacramento River Mile 142.3 to 142.7	Do
		i. East levee Georgiana Slough from S.P.R.R. upstream 22,500 ft.	Completed contract. Maintained by Tyler Island District. 103
		j. North levee American River from Jibboom St. Bridge to El Camino Avenue	Constructed by and maintained by R. D. No. 1000. 125 X

<u>No.</u>	<u>Date of Letter</u>	<u>Levee Location</u>	<u>Remarks</u>
3	13 Dec. 1951	l. Back levee R.D. No. 2068	Completed contract. Maintained by R.D. No. 2068. 109
		m. S. levee North Dry Creek to W.P.R.R. Interceptor	Completed contract.
		n. E. levee W.P.R.R. Interceptor from North Dry Creek to Bear River	Do
		o. N. levee Bear River from W.P.R.R. Interceptor to South Dry Creek	Completed contract. Maintained by R. D. No. 784. 145
		p. N. levee South Dry Creek from Bear River to high ground	Completed contract. Maintained by R. D. No. 817.
		q. South levee Bear River from W.P.R.R. easterly to 5,400 feet east of Carlin Bridge	Completed contract. Maintained by R. D. No. 1001. 141.1
		r. South levee of South Dry Creek from Bear River easterly 1.86 miles	Completed contract. Maintained by R. D. No. 817.
		s. North levee Bear River from South Dry Creek easterly to 4,000 feet easterly from Carlin Bridge	Completed contract. Maintained by R. D. No. 817. 146

31

15

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.
21a	6 Dec. 1951	Back levee Egbert District*	Maintained by R. D. No. 536
22	6 Dec. 1951	W. Levee Yolo By-pass Lindsey* Slough to Watson Hollow Drain*	Maintained by R. D. No. 536
24	Do	N. Levee Watson Hollow Drain*	Do
16	6 Dec. 1951	W. Levee Sacramento River Mile 59.0 to Lake Wash- ington Barge Canal	Maintained by R. D. No. 900
18	Do	W. Levee Sacramento Riv. Mile 50.8 to 50.5	Bank protection contract. Maintained by R. D. No. 765

Copy to USED.

1 21b

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)

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

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

= 331 (89-A)

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.
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.
(153) (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.
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.
(160) (161) (162) (163) 11	Do	E. Levee Sacramento River, Natomas Cut to Feather River	Maintained by Recl.Dist.No.1001.
(164) 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.
(165) (166) (167) (168) (169) (170) 11	Do		

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.

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

NOVEMBER 28, 1951

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

Dear Sir:

Reference your letter 16 Nov 1951, file SPKKO-P 824.3 (Sac. R. F. C. P.), transferring those levees under Par "B" of Specification No. 1515a at Site No. 2, Site No. 3 and Site No. 4, as detailed in said letter.

You state that these levees are complete except for the gravelling of the crown of the levee which for economic reasons will be performed at a later date when adjoining sections of levee will also be graveled in this area to provide adequate patrol roads necessary for maintenance work.

The Reclamation Board at its meeting ¹⁹⁵¹ November 20, accepted said work on a tentative basis for maintenance and operation by the State of California pending the completion of gravelling of the patrol roads in question.

Yours very truly

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

By /s/ S. A. Honaker
S. A. HONAKER
Assistant Secretary

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Unit 102

3 MILE Sl. left bank
TWITCHELL 15. 332 - 333 and 334
Units 90-A, 91-A and 92-A

(1)

file

SPEKO-P 824.8(Sacto.Riv. F.C.P.)

17 NOV 1951

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

Gentlemen:

Reference is made to the letter from this office dated 12 February 1951, outlining the procedure adopted for transferring to the State of California completed units of the Sacramento River Flood Control Project.

In accordance with the above, you are hereby advised that four units of the Sacramento River Flood Control Project now under construction under Specification No. 1515a, Contract No. DA-04-167-eng-640, have been scheduled for completion on or about 27 December 1951. The location of these units of work are listed as follows:

PART "A"

86-A Site 1 - Right bank of the Sacramento River, Mile 30.5 on Grand Island, Station 1+00 to 13+30, Drawing No. 50-4-2759.

104

87-A Site 2 - Right bank of the Sacramento River, Mile 28.5 on Grand Island, Station 6+00 to 12+58 and from 13+60 to 16+00, Drawing No. 50-4-2760.

104

88-A Site 3 - Left bank of Sutter Slough, on Sutter Island at the junction of Sutter Slough with Miner Slough, Station 4+60 to 17+90, Drawing No. 50-4-2716.

110PART "B"

89-A Site 1 - Left bank of the Sacramento River, Mile 18.0 on Braman Island, Station 22+35 to 31+00, Drawing No. 50-4-2761.

102

86-A, 87-A, 88-A, and 89-A

SPEKO-P 834,5(Sacto.Riv. P.C.P.)
The Reclamation Board.

It is suggested that a joint inspection of these units be made on 4 December 1951 for the purpose of determining if the work in progress meets with the requirements of local interests.

Please advise this office if the suggested date for this inspection meets with your approval.

FOR THE DISTRICT ENGINEER:

Sincerely yours,

cc: Sacto. Field Office
C. de Arrieta

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

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SPKKO-P 824.3 (Sacto Riv. F. C. P.)

16 November 1951

The Reclamation Board
State of California
1100 "O" Street

Gentlemen:

In a joint inspection made on 9 November 1951, it was determined that three units of the Sacramento River Flood Control Project located along Three Mile Slough on Twitchell Island have been completed satisfactorily on 5 November 1951. These units of work which are covered under Specification No. 1515a, Contract No. DA-04-167-eng-640, now meet the requirements of the Sacramento Flood Control Project, except for graveling of the crown of the levee which for economic reasons will be performed at a later date when adjoining sections of levee will also be gravelled in this area to provide adequate patrol roads necessary for maintenance work. The completed work is described as follows:

Part "B" of Specification No. 1515a

Site No. 2, Levee construction on the left bank of Three Mile Slough, on Twitchell Island, at the junction of Three Mile Slough with Seven Mile Slough Station 2+70 to 10+49, Drawing No. 50-4-2762.

Site No. 3, Levee construction on the left bank of Three Mile Slough, on Twitchell Island, one mile downstream from Seven Mile Slough, Station 1+30 to 7+00, Drawing No. 50-4-2763.

Site No. 4, Levee construction on the left bank of Three Mile Slough, on Twitchell Island, at the junction of Three Mile Slough with the San Joaquin River, Station 6+50 to 11+26, Drawing No. 50-4-2764.

In accordance with the above, said levee units of the Sacramento River Flood Control Project together with the slough banks contiguous

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SPKKO-P 824.3 (Sacto Riv. F. C. P.)
The Reclamation Board

thereto, are 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 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,

/s/ H. R. REIFSNYDER
H. R. Reifsnnyder
Lt. Colonel, Corps of Engineers
Executive Officer

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SPKKO-P

7 December 1951

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

Gentlemen:

Reference is made to letter from this office dated 17 November 1951, wherein it was proposed to transfer to the jurisdiction of the State of California several 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 30 November 1951. Two of these units, which are listed below, were completed on 3 December 1951, in accordance with Specification No. 1515a, Contract DA-04-167-eng-640:

a. - - - - -

b. Site 1 of Part "B" - Left bank of the Sacramento River, Mile 15.0, on Brannan Island, Station 22+35 to 31+00, Drawing No. 50-4-2761.

The completed units of work referred to above now meet the requirements of the Sacramento River Flood Control Project. Therefore, said units, together with the river bank contiguous thereto, are 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 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.

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The Reclamation Board

As provided under Paragraph 208.10(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,

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

Note: Only portion pertaining to Unit No. 102 contained in this copy.

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

13 December 1951

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

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. -----
- b. Plug across Seven Mile Slough near Three Mile Slough.
- c. Brannan Island Levee of Seven Mile Slough and Three Mile Slough from the Plug across Seven Mile Slough southwesterly to Sacramento River.
- d. Easterly levee of the Sacramento River

- (6) Three Mile Slough to Mile 10.58
- (7) Mile 10.71 to Mile 13.1
- (8) Mile 13.59 to Mile 14.5 (Junction Point)
- (9) Mile 14.5 (Junction Point) to Mile 15.0
- (10) Mile 15.1 to Mile 16.9
- (11) Mile 16.96 to Mile 17.5
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SPKKA 824.3 (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,

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

Note: Only portions pertaining to
Unit No. 102 contained in
this copy.

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SPKKO-P 824.3 (Sac Riv FCP)

24 November 1953

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

Gentlemen:

Reference is made to District Engineer's letter dated 9 October 1953, wherein a date for a joint inspection was set for the purpose of transferring to the jurisdiction of the State of California, when completed, five levee sections pertaining to the Sacramento River Flood Control Project, located along the left bank of the Sacramento River between Mile 16.9 and 26.5. Reference is also made to joint inspection of these units of work on 15 October 1953.

The levee sections referred to above, form an integral part of the Sacramento River Flood Control Project, and meet with the requirements of the project, were completed on 26 October 1953 in accordance with Specification No. 1784 and Drawing No. 50-4-2957, under Contract No. DA-04-167-ENG-1090. Therefore, said levee sections together with the waterway banks contiguous thereto are hereby transferred to the State of California for operation and maintenance. The location of these sections of levee is further described as follows:

<u>Location No.</u>	<u>Description</u>	<u>River Mile</u>
1	Left Bank - Sacramento River	16.90 to 16.95

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.

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As provided under paragraph 208.10(10) of these regulations, a maintenance manual covering these sections of levee is in the 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:

/s/ H. A. Nelson
H. A. NELSON
Acting Executive Assistant

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SPKKO-P 824.3 (Sac Riv FCP)

17 December 1954

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

Gentlemen:

Reference is made to District Engineer's letter dated 20 October 1954 suggesting a joint inspection of certain levee sections pertaining to the Sacramento River Flood Control Project, for the purpose of transferring them to the Jurisdiction of the State of California for operation and maintenance. Reference is also made to the joint inspection of these levee sections made on 29 October 1954.

The required work on the levee sections referred to above was completed on 17 November 1954 in accordance with Specification No. 1785, Contract No. DA-04-167-eng-1148 and Drawing No. 50-4-2958 and 50-4-3030. These levee sections are listed as follows:

Levee Section No.	:	Location
---	-	-----
382	-	Easterly Levee of the Sacramento River, Mile 10.58 to 10.71, on Brannan Is- land.
383	-	Easterly Levee of the Sacramento River, from Mile 13.1 to 13.59, on Brannan Island.
384	-	Easterly Levee of Seven Mile Slough, on Twitchell Island, from its junction with Three Mile Slough northerly approximately 2,317 feet to the fill across Seven Mile Slough near the Northwest corner of Twitchell Island.

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

The levee sections, Nos. 379 to 384 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 the levee sections described above combined with other sections previously transferred now form long continuous levee reaches which meet the requirements of the project without the performance of additional work. These long levee reaches are described as follows:

2. Easterly levee of the Sacramento River on Brannan and Andrus Islands, from Three Mile Slough (Mile 8.8) to Georgiana Slough (Mile 26.4).

3. Easterly levee of the Sacramento River, from Georgiana Slough upstream approximately 1.15 miles. (Mile 26.4 to 27.55).

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 manual covering these units of work is in progress 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
WM. J. ELY
Col., CE
District Engineer

Note: Only portions pertaining to
Unit No. 102 contained in
this copy.

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SPKKO-P 824.3 (Sac. R. F.C.P.)

12 August 1955

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

Gentlemen:

Reference is made to the District Engineer's letter dated 3 August 1955 whereby arrangements were made to make a joint inspection of a certain levee section pertaining to the Sacramento River Flood Control Project for the purpose of transferring it, when completed, to the jurisdiction of the State of California for operation and maintenance. Reference is also made to the joint inspection of this levee section made on 8 August 1955.

The location of the levee section referred to above is described as follows:

<u>Levee Section No.</u>	<u>Location</u>
461	On Twitchell Island, along Three Mile Slough, from River Mile 1.30 (Station 10+49"C") southerly to River Mile 3.33 (Station 0+00"B"), Drawing No. 50-4-3076.

This levee section was completed on 10 August 1955 under Contract DA-04-167-eng-1368, Specification No. 1944, and Drawing No. 50-4-3076, and now meets the requirements of the Sacramento River Flood Control Project. Therefore, said levee section, No. 461, together with the waterway bank contiguous thereto, is hereby transferred to the jurisdiction of the State of California for operation and maintenance.

The work performed under said Contract No. DA-04-167-eng-1368 included road surfacing the crown of the levee on three sites, previously transferred to your jurisdiction, described as follows:

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<u>Levee Section No.</u>	<u>Location</u>
332	On Twitchell Island, at the junction of Three Mile Slough with Seven Mile Slough, from River Mile 1.30 (10+49"C") to River Mile 1.45 (Station 2+70"C"), Drawing No. 50-4-2762.
333	On Twitchell Island, along Three Mile Slough, from River Mile 2.15 (Station 7+00) to River Mile 2.24 (Station 1+30), Drawing No. 50-4-2763.
334	On Twitchell Island, along Three Mile Slough, from River Mile 3.10 (Station 11+26"B") to River Mile 3.19 (Station 6+50"B"), Drawing No. 50-4-2764.

It is noted that the levee section No. 461 described above combined with others previously transferred to your jurisdiction now forms a continuous levee reach, 2.53 miles in length, on Twitchell Island, along Three Mile Slough and Seven Mile Slough, all as shown on the inclosed Drawing No. 50-4-3076 and described as follows:

1. 2.03 miles along Three Mile Slough, from River Mile 3.33 (at the junction with the San Joaquin River Deep Water Channel) to River Mile 1.30 (mouth of Seven Mile Slough).
2. 0.45 miles along Seven Mile Slough, from its junction with Three Mile Slough northerly to the fill across Seven Mile Slough. River Mile 0 to 0.45.
3. 0.05 miles, fill across Seven Mile Slough, located 0.45 miles northerly from Three Mile Slough.

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.

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

/s/ Denis B. Grace
DENNIS B. GRACE
Lt. Col., CE
Special Assistant

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

EXHIBIT G

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. 102 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 8.0 on the gage at Rio Vista and 5.0 on the gage at Threemile Slough) 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) improvement 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 correct 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