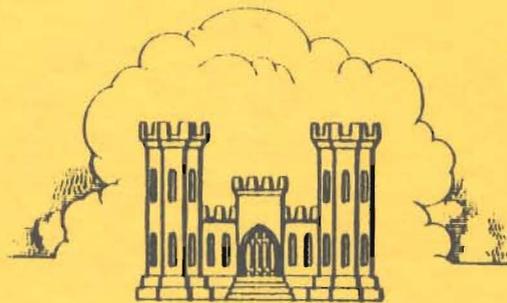


SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL

SACRAMENTO RIVER
FLOOD CONTROL PROJECT

UNIT NO. 101
RECLAMATION DISTRICT NO. 341
SHERMAN ISLAND



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

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

UNIT NO. 101
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SHERMAN ISLAND

U. S. Army Engineer District, Sacramento
Corps of Engineers
Sacramento, California
February 1962

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

UNIT NO. 101

RECLAMATION DISTRICT NO. 341
SHERMAN ISLAND

LOCATION	ADDITION OR REVISION	DATE
1-04 k.	Add contract no. 65-54	Jun 1965
Exhibit B	Add drawing no. 50-4-4038	Jun 1965
Exhibit F	Add letter of acceptance dated 8 Mar 1965	Jun 1965
1-04 k.	Add contract no. DACW05-69-C-0075	Dec 1970
Exhibit B	Add drawing no. 50-4-4283	Dec 1970
Exhibit F	Add copy of letter of acceptance dated 25 Nov 1969	Dec 1970
1-04	Add subparagraph l.	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 28 Nov 1951	16 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 2 Jan 1952	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Jul 1960	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 9 Nov 1960	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 15 Sep 1961	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 25 Jan 1965	16 Dec 2010
1-04	Change paragraph l to paragraph m	16 Dec 2010
1-04	Change second paragraph k to paragraph l	16 Dec 2010
1-04	Add paragraph n	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 22 Mar 1983	16 Dec 2010
Exhibit F	Add copy of letter of transfer dated 10 Nov 1969	1 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 18 Mar 1986	3 Mar 2011

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<u>Exhibit</u>	<u>Description</u>
A	Flood Control Regulations - - - - - Unattached (Contained in Standard Manual)
A-1	Location Map - - - - - 1 Sheet
B	"As Constructed" Drawings - - - - - Unattached
C	Plates of Suggested Flood Fighting Methods Unattached (Contained in Standard Manual)
D	Suggested Check List No. 1 - Levee Inspection Report - - - - - Unattached (Contained in Standard Manual)
E	Suggested Check List - Levee, Channels and Structures - - - - - Sheets 1 through 8
F	Letters of Transfer to or Acceptance by the State Reclamation Board - - - - - Sheets 1 through 11
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SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
SACRAMENTO RIVER FLOOD CONTROL PROJECT
UNIT NO. 101
RECLAMATION DISTRICT NO. 341
SHERMAN ISLAND

SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the Sacramento River Flood Control Project levee and channel that lies along the left bank of the Sacramento River and right bank of Threemile Slough in Sacramento County, about 4 miles south of Rio Vista. Description by levee mileage: along the right bank of Threemile Slough, Unit 1, mile 0.00 at junction of Threemile Slough and San Joaquin River to mile 3.34 at the left bank of the Sacramento River; thence along the left bank of the Sacramento River, Unit 2, mile 3.34 to mile 9.74; a total distance of 9.74 levee miles. The project levee of this unit lies within Reclamation District No. 341 along the northerly and easterly sides of Sherman Island as shown on the location map, Exhibit A-1.

1-02. 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 right bank levee and channel of Threemile Slough and the left bank levee and channel of the Sacramento River that lies along Sherman Island. 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 conform with project standards.

1-03. Protection Provided. The levee of this unit is an essential feature of the Sacramento River Flood Control Project. It provides direct protection to about 10,000 acres of agricultural lands and a State highway against floodwaters of the Sacramento River and Threemile Slough. The elevation of the adopted flood plane profile in the Sacramento River varies from 12.0 at the junction of the Sacramento River and Threemile Slough to 11.5 at Mayberry Slough near the lower end of Sherman Island. Along Threemile Slough 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 its junction with Threemile Slough to the lower end of Sherman Island has a project design capacity of 514,000 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.

1-04. 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. Setback of levee on Sherman Island above Threemile Slough, Mile 9.8(1), was accomplished under Job Order No. 664, and completed on 30 January 1941.

b. Levee setback and bank protection from its head northerly 1,700 feet was accomplished under Job Orders 895 and 931, and completed on 30 November 1943.

c. Bank protection on Sherman Island at the junction of the Sacramento River and Threemile Slough was accomplished under Contract No. W-04-167-eng-1340 by the Basalt Rock Company, and completed on 2 December 1947.

d. Bank protection along the Sacramento River and Threemile Slough was accomplished under Contract No. DA-04-167-eng-181 by the Blake Bros. Company, and completed on 3 April 1950.

e. Repairs of the levee along Threemile Slough was accomplished under Contract No. DA-04-167-eng-588 by A. Teichert & Son, Inc., during the period from 28 June 1951 to 12 October 1951.

f. Bank protection and levee enlargement along the Sacramento River from Maybery Slough to Junction Point was accomplished under Contract No. DA-04-167-eng-1148 by M. Malfitano & Son, Inc., during the period from 25 March 1954 to 17 November 1954.

g. Emergency levee repairs along the left bank of the Sacramento River at Horseshoe Bend, Mile 8.6, was accomplished under Contract No. DA-04-167-CIVENG-57-40 by Blake Brothers Company during the period from 2 October 1956 to 28 November 1956.

h. Bank protection at critical locations along the right bank of Threemile Slough and the left bank of the Sacramento River was accomplished under Contract No. DA-04-167-CIVENG-60-30 by Elmer G. Wendt, contractor, during the period from 5 October 1959 to 8 June 1960.

i. Bank protection at critical locations along the right bank of Threemile Slough was accomplished under Contract No. DA-04-167-CIVENG-60-94 by Basalt Rock Co., Inc., during the period from 10 June 1960 to 11 October 1960.

j. Bank protection and levee enlargement on the right bank of Threemile Slough (Sherman Island Side) between river mile 0.50 and 1.30 was accomplished under Contract No. DA-04-167-CIVENG-61-76 by the Basalt Rock Co., Inc., during the period from 23 May 1961 to 7 September 1961.

UNIT NO. 101

1-04.

k. Levee construction and stone protection on lower end of Sherman Island was accomplished under Contract No. DA-04-167-CIVENG-65-54 by Peter L. Ferry & Son during the period from 7 December 1964 to 20 January 1965, Specification No. 3165, Drawing No. 50-4-4038.

l. Stone protection on the right bank of Three Mile Slough at Site I (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 10 November 1969. Specification No. 3349, Drawing No. 50-4-4283.

m. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Mile 8.5 (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.

n. Emergency repairs consisting of construction of a 1,100 foot long by 60 foot wide by 2 feet thick landside berm along the left bank of the Sacramento River was completed on 8 March 1983 under Contract No. DACW05-83-C-0055.

1-05. Flood Flows. For purposes of this manual, the term "flood" or "high water" shall refer to flows when the water surface in Threemile Slough reaches or exceeds a reading of 15.0 on 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. Zero of the gage is set at -10.00 U.S.G.S. datum, and -6.78 U. S. Corps of Engineers datum. Also when the water surface in Threemile Slough reaches or exceeds the reading of 15.0 on the State Department of Water Resources continuous water stage recorder and staff gage located on the right bank of Threemile Slough 500 feet upstream from the San Joaquin River. Zero of the gage is set at -10.00 U.S.G.S. datum and -7.11 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 or Acceptance by the State Reclamation Board. Responsibility for operating and maintaining portions of the completed work were officially transferred to the State Reclamation Board by letters dated 16 November 1951, 13 December 1951 and 17 December 1954 and other portions were accepted by the State Reclamation Board by letter dated 9 August 1960 and 23 December 1961 as shown on the attached letters of transfer and acceptance, EXHIBIT F.

1-08. Inspection Procedure. Since the enactment of State Legislation of Chapter 1528, Statutes of 1947, the Department of Water Resources, State of California, has made semi-annual inspections of all levees of authorized flood control projects in the Sacramento-San Joaquin drainage basin pursuant to the Federal Regulations of 16 August 1944 (Title 33), and reports its findings to the local agency, the State Reclamation Board and the Sacramento District, Corps of Engineers, U. S. Army. This activity, initiated pursuant to Section 208.10(a) of the Federal Regulations, has in effect provided for transfer from the local agencies to the State Department of Water Resources the obligation of compliance with Sections 8371, 8372, and 8373 of the Water Code of the State of California. These sections of the Code require the local responsible agencies to submit a report to the State Department of Water Resources on or before 1 June of each year on the condition of the levees within their jurisdiction. Supervisory powers and duties of the Department are applicable to all works of the Sacramento River Flood Control Project maintained and operated by the local agencies without regard to status of completion, or expenditure of Federal funds on the construction of such works.

The following procedure is used in inspecting the levees of the responsible maintaining agency:

Personnel of the State Department of Water Resources make a detailed inspection in the spring and fall of each year and make a report on any required maintenance. The inspection objectives are to determine if the following items, which are a condensation of Federal Regulations, are being adhered to:

- a. That all brush, trees and wild growth other than sod are removed from the levee crown and slopes.
- b. That all weeds, grass and debris on the levee have been burned during the appropriate season, where not dangerous or impractical.
- c. That all grass and weeds on the levee have been mowed where removal by burning is dangerous or impracticable. This applies only on peat levees or where burning would constitute a hazard to improvements.
- d. That all burrowing animals have been exterminated.
- e. That all caves, sloughs, burrows, holes, slips or other damaged portions of the levee have been repaired.
- f. That all irrigation and drainage structures through the levee are in good working condition.
- g. That no revetment work or riprap have been displaced, washed out or removed.
- h. That the crown of the levee is well shaped and maintained and that unauthorized vehicular travel is restricted.
- i. That stock grazing on the levee is restricted to conditions and seasons when the levee would not be seriously scarred or otherwise damaged thereby.
- j. That encroachments are not being erected on the levee which would hinder travel by authorized patrol vehicles.
- k. Prevent the erection of structures on, additions to, or alterations of, the levee unless authorized by permit from the State Reclamation Board.

Following this detailed inspection a joint field inspection is made with representatives of the responsible maintaining agency and the State Department of Water Resources to review and discuss the inspection report.

Upon completion of the fall inspection the State Department of Water Resources publishes an annual report entitled, "Status of Project Levee Maintenance" which indicates the degree of proficiency attained by each obligated local agency in providing required maintenance.

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 and the right bank of Threemile Slough is located on Sherman Island as described in paragraphs 1-01 and 1-03 of this manual. The levees have been reconstructed with slopes of 1 on 3 waterside and 1 on 2 landside and a crown width of 20 feet. Stone protection has been provided over a large portion of the project levee. The necessary drainage structures, road approaches, and appurtenances were also included in the work. For more complete detail in construction of the above-mentioned levees, 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.

2-02. Drainage and Irrigation Structures.

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

Levee Mileage	Size of Pipe	Gate Location	Other Structure Description	Invert-ft. below Crown
<u>Unit No. 1 - Threemile Slough</u>				
0.00	30"	-		11.1
0.50	10"	-		1.8
1.06	14"	-		5.0
1.37	8"	-	Abandoned	3.7
1.42	-		Gas line crossing	-
1.44	-		Gas line crossing	-
2.04	-		P.G.&E. gas line crossing	-
2.33	10"		Pumphouse L.S.	4.6
2.93	2 - 8"			1.4 & 1.6

Levee Mileage	Size of Pipe	Gate Location	Other Structure	Description	Invert-ft. below Crown
<u>Unit No. 2 - Left Bank Sacramento River</u>					
4.03	10"		Pump	L.S.	3.8
4.03	12"		Abandoned		4.0
4.29	12"		Vertical Pump	W.S.	4.0
4.95	12"		Pumphouse	L.S.	6.8
5.02	2 - 20"				8.1
5.10	8"				3.4
5.40	16"	L.S.			2.5
5.81	8"				2.6
5.81	14"	L.S.			3.0
6.12	12"	L.S.			3.0
6.31	12"				2.0
6.64	20"				5.6
7.08			P.G.&E. gas line crossing		
7.42	24"		Pumphouse	L.S.	6.1
7.65	16"				5.3
8.59	10"		Riser	L.S.	5.5
8.74	12"	L.S.			5.6
9.08	10"				5.1
9.19	14"		Standpipe	L.S.	4.0
9.54	10"				5.5

Note on abbreviations:

L.S. = Landside

W.S. = Waterside

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 from

its junction with Threemile Slough to the lower end of Sherman Island has an average width of about 2,700 feet. Along Threemile Slough the channel is confined between levees on both banks with the average width between levees of about 600 feet. The project design capacity of both channels is indicated in paragraph 1-03 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 local agency responsible for maintenance to keep in contact with the State Department of Water Resources' Flood Operation Center during all periods of flood danger, and maintain a patrol of the project works in their area during periods of flood in excess of a reading of 15.0 on the gage on Threemile Slough near the Sacramento River or a reading of 15.0 on the gage on Threemile Slough near the San Joaquin River, as referred to in paragraph 1-05 of this manual.

The Flood Operation Center is responsible for data collection and issuance of a joint river forecast with the U. S. Weather Bureau and coordinates with the Sacramento District Engineer, and other agencies to keep appraised of the current situation in accordance with terms of the Memorandum of Understanding dated 1 November 1956, between the Division Engineer, U. S. Army Engineer Division, South Pacific, and the Director, Department of Water Resources, State of California for cooperative action during flood emergencies.

2-04. Miscellaneous Facilities.

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

- (1) Bridges. A lift span 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 Threemile Slough about 300 feet downstream from the Sacramento River. This gage to be maintained by the State Department of Water Resources.

(b) A continuous water stage recorder and staff gage located on the right bank of Threemile Slough about 500 feet upstream from the San Joaquin 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:

- (1) Maintenance - paragraph 7-02 of the Standard Manual.
- (2) Check Lists - paragraph 7-03 of the Standard Manual.
- (3) Operation .. paragraph 7-04 of the Standard Manual.

SECTION III

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

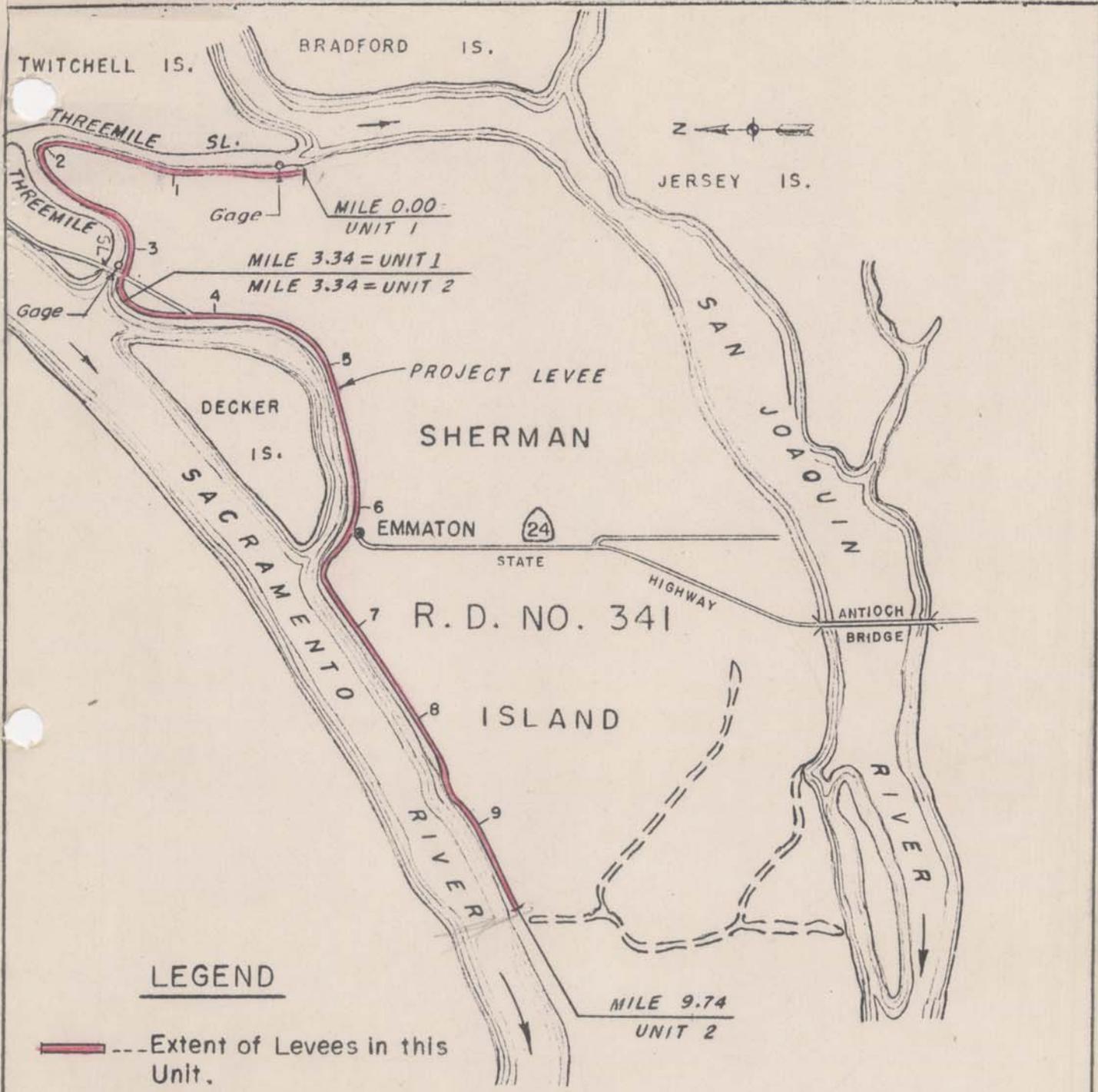
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the local agency responsible for maintenance will contact a representative of the Department of Water Resources, 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 where the subject is fully covered.

EXHIBIT A

FEDERAL FLOOD CONTROL REGULATIONS

(SEE STANDARD MANUAL)



*Enlarged Channel
 Junction Point, River mile 14.4
 to Collinsville, River Mile 0.00*

LOCATION MAP
 UNIT NO. 101
 RECL. DIST. NO. 101
 SHERMAN ISLAND

EXHIBIT B

"AS CONSTRUCTED"
DRAWINGS

See separate folder for the following drawings:

<u>File No.</u>	<u>Title</u>
50-4-1871	Bank Protection on Threemile Slough, in 1 sheet
50-4-2044	Bank Protection on Sherman Island, Threemile Slough, in 1 sheet
50-4-2373	Bank Protection on Sherman Island at Junction of Threemile Slough, in 1 sheet
50-4-2626	Bank Protection - Lower Sacramento River and Threemile Slough, in 1 sheet
50-4-2842	Bank Protection on Sherman Island - Threemile Slough, in 2 sheets
50-4-2958	Bank Protection and Levee Enlargement - Sacramento River - Mayberry Slough to Junction Point, sheets 1 to 11, incl
50-4-3284	Emergency Repairs - Left Bank Sacramento River at Horseshoe Bend Mile 8.6, in 1 sheet
50-4-3614	Bank Protection at Critical Locations, Right Bank Threemile Slough and Left Bank Sacramento River, sheets 4 to 7, incl
50-4-3626	Bank Protection at Critical Locations - Right Bank Threemile Slough, sheet 4, 5, 7 and 8
50-4-3673	Bank Protection - Right Bank Threemile Slough, sheets 1 to 3, incl
50-4-4038	Levee Construction and Stone Protection on Lower End of Sherman Island, in 1 sheet.
<i>No Drawing</i>	<i>Enlarged Channel</i>
50-4-4283	Bank Protection, Various Locations, Right and Left Banks, Sacramento River and Georgiana Slough, in 34 sheets

Unattached

50-4-5697

Bank Protection, Unit 37, Right and Left Banks Sacramento River
and Tributaries, Mile 0.0 to 62.0 in 55 sheets.

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(SEE STANDARD MANUAL)

EXHIBIT C
Unattached

EXHIBIT D

SUGGESTED CHECK LIST NO. 1

LEVEE INSPECTION REPORT

(SEE STANDARD MANUAL)

EXHIBIT E

SUGGESTED CHECK LISTS OF LEVEES,

CHANNEL AND STRUCTURES

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

SUGGESTED CHECK LIST NO. 2
UNIT NO. 101

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

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

Instructions for Completing Sheet 2, Exhibit E
(To be printed on back of Sheet 2)

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or 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 repainting is required.
- Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.
- Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

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

SUGGESTED CHECK LIST NO. 3

CHANNEL AND RIGHT-OF-WAY

UNIT NO. 101

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 or 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.

SUGGESTED CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 101

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Location by Levee 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
0.00	Rt.						
0.50	"						
1.06	"						
1.37	"						
1.72	"						
1.44	"						
2.04	"						
2.33	"						
2.93	"						
4.03	Lt.						
4.03	"						
4.29	"						

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 101

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

(a) Location by Levee 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
4.95	Lt.						
5.02	"						
5.10	"						
5.40	"						
5.81	"						
5.81	"						
6.12	"						
6.31	"						
6.64	"						
7.08	"						
7.42	"						
7.65	"						
8.59	"						
8.74	"						
9.08	"						
9.19	"						
9.54	"						

Left Bank Sacramento River, cont.

Instructions for Completing Sheet 6 and 7, Exhibit E
(To be printed on back of Sheet 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 deteriorations. Record conditions under Column (e).
- (5) Inspect backfill area adjacent to structure for evidence of erosion caused by over flow 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 OR ACCEPTANCE BY THE STATE RECLAMATION BOARD

EXHIBIT F

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SPKKO-P 824.3 (Sac Riv FCP)

16 November 1951

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

Gentlemen:

Reference is made to letter from this office dated 2 November 1951, wherein it was proposed to transfer to the jurisdiction of the State of California two 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 9 November 1951. The location of these two units is described as follows:

a. Site "A", right bank of Threemile Slough, on Sherman Island, from 1.3 miles below State Highway 24 downstream 0.7 miles, Station 69+00 to 108+40, Drawing 50-4-2842.

b.

The work referred to above, covered by Specification No. 1543, Contract No. DA-04-167-eng-588 was completed on 12 October 1951 and now meets the requirements of the Sacramento River Flood Control Project. Therefore, said levee units referred to above, together with the slough banks contiguous thereto, are hereby transferred to the State of California for maintenance and operation.

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The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations 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,

Note: Only portion pertaining to Unit No. 101 contained in this copy.

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

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SPKKA 824.3 (Sac Riv FCP)

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. Sherman Island levee of Threemile Slough.

(1) State Highway Bridge to Sacramento River.

(2) From the State Highway Bridge, 1300 feet toward the San Joaquin River.

(3) From a point 3900 feet toward the San Joaquin River from the State Highway Bridge to a point 6900 feet toward the San Joaquin River from the State Highway Bridge.

(4) From a point 10,500 feet toward the San Joaquin River from the State Highway Bridge to the San Joaquin River

.....

d. Easterly levee of the Sacramento River.

(1) From a point 23,650 feet, measured along the Sherman Island levee, downstream from Threemile Slough to a point 21,950 feet downstream from Threemile Slough.

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(2) From a point 14,850 feet, measured along the Sherman Island levee, downstream from Threemile Slough to a point 7,750 feet downstream from Threemile Slough.

(3) From a point 6,300 feet, measured along the Sherman Island levee, downstream from Threemile Slough to a point 3,450 feet downstream from Threemile Slough.

(4) From a point 3,300 feet, measured along the Sherman Island levee, downstream from Threemile Slough to a point 700 feet downstream from Threemile Slough.

(5) From a point 500 feet, measured along the Sherman Island levee, downstream from Threemile Slough to Threemile Slough.

.....

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

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with existing Flood Control Regulations which have been

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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,

Note: Only portion pertaining to Unit No. 101 contained in this copy.

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

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SPKKO-P (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 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
379	Easterly levee of the Sacramento River, from mile 5.05 to 5.6, on Sherman Island.
380	Easterly levee of the Sacramento River, from mile 5.92 to 7.65, on Sherman Island.
381	Southerly levee of Threemile Slough, from a point 1300 feet easterly from Highway No. 24 to a point 3900 feet beyond said Highway No. 24 in the direction to the San Joaquin River, on Sherman Island.
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The levee sections, No. 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.

Surveys made in September 1952 indicate that the levee sections listed below also meet the requirements of the Sacramento River Flood Control Project:

Levee Section No.	Location
385	Easterly levee of the Sacramento River, on Sherman Island, from a point 7,700 feet downstream from Threemile Slough upstream approximately 1400 feet (mile 8.52 to 8.78).
386	Easterly levee of the Sacramento River, on Sherman Island, from a point 3,450 feet downstream from Threemile Slough upstream approximately 150 feet (mile 9.33 to 9.35).
387	Easterly levee of the Sacramento River, on Sherman Island from a point 700 feet downstream from Threemile Slough upstream approximately 200 feet (mile 9.85 to 9.90).

Therefore in accordance with the above, said levee sections Nos. 385 to 387 inclusive, together with the waterway banks contiguous thereto, are also hereby transferred to the State of California for operation and maintenance.

It is to be noted that the levee sections described above combined with other sections previously transferred now from 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:

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1. Easterly levee of the Sacramento River on Sherman Island, from Mile 5.05 to Threemile Slough (Mile 8.8).

.....

4. Westerly levee of Threemile Slough on Sherman Island, from the Sacramento River to the San Joaquin River, a distance of approximately 3.8 miles.

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 process of preparation and will be furnished to you upon completion.

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

NOTE: Only portion pertaining to Unit No. 101 contained in this copy.

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THE RECLAMATION BOARD
State of California

August 9, 1960

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

Dear Sir:

Reference is made to your letter of July 20, 1960, concerning the transfer to the State of the levee construction and bank revetment on the Sacramento River Flood Control Project on the levee sections listed below:

<u>Levee Section No.</u>	<u>Site</u>	<u>Location</u>
663	E	Threemile Slough on Sherman Island side of channel, beginning at State Highway 24 Bridge, thence along Horseshoe Bend 0.51 miles.
664	G	Threemile Slough on Sherman Island side of channel, Mile 2.76 to 2.98.

The Reclamation Board at its meeting of August 3, 1960, formally accepted these levee sections for operation and maintenance.

Sincerely yours,

/s/A. N. Murray
A. N. MURRAY
General Manager and Chief Engineer

Note: Only portion pertaining to Unit No. 101 contained in this copy.

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THE RECLAMATION BOARD
State of California

December 23, 1960

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

Dear Sir:

Reference is made to your letter of November 9, 1960, File SPKKO-C regarding transfer to the State of levee sections on the Sacramento River Flood Control Project at locations listed below:

<u>Site</u>	<u>Location</u>	<u>Mile Point</u>
M	Right Bank, Threemile Slough (Sherman Island Side)	1.44 to 1.87, and 2.01 to 2.59

.....

The Reclamation Board at its meeting of December 1, 1960, formally accepted these levee sections for operation and maintenance.

Sincerely yours,

/s/A. N. Murray
A. N. MURRAY
General Manager and Chief Engineer

Note: Only portion pertaining to Unit No. 101 contained in this copy.

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THE RECLAMATION BOARD
of the
State of California

October 27, 1961

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

Dear Sir:

Reference is made to your letter of September 15, 1961, regarding a transfer to the State of California of levee improvement and bank protection work on the right bank of Three Mile Slough in Reclamation District 341, Specification No. 2720, between River Mile 0.50 and 1.30.

The Reclamation Board, at its meeting of October 5, 1961, formally accepted the above levee and bank protection for operation and maintenance.

Sincerely yours,

/s/Robert W. James
ROBERT W. JAMES
General Manager and Chief Counsel

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

SAH:emw

Unit 102

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

①

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
		(248) d(44) East levee Sacramento River Mile 44.5 to 45.3	Constructed by Assessment No. 5. 115 X
		(250) d(46) East levee Sacramento River Mile 56.1 to American River	Constructed and maintained by City of Sacramento. 118.1 X
		(254) d(50) East levee Sacramento River Mile 92.9 to 94.0	Completed contract. Maintained by R.D. No. 1500.
		(256) d(52) East levee Sacramento River Mile 97.5 to 97.7	Completed contract. Maintained by R. D. No. 1500.
		(258) d(54) East levee Sacramento River Mile 99.9 to 102.5	Do
		(261) d(57), (58) East levee Sacramento River Mile 104.2 to 105.65	Do
		(263) d(59) East levee Sacramento River Mile 110.9 to 111.5	Do
		(265) d(61) East bank Sacramento River at Tisdale Weir	Maintained by State under Section 8361 Water Code. 130
		(277) h(3) West levee Sacramento River Mile 133.1 to 133.3	Completed contract. Maintained by Sacramento River West Side Levee District.
		(279) h(5) West levee Sacramento River Mile 134.3 to 140.6	Do
		(281) h(7) West levee Sacramento River Mile 141.3 to 142.0	Do
		(283) h(9) West levee Sacramento River Mile 142.3 to 142.7	Do
		(284) i. East levee Georgiana Slough from S.P.R.R. upstream 22,500 ft.	Completed contract. Maintained by Tyler Island District. 103
		(285) 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

SPHO-C

20 JUL 1960

Supplement #2

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

Gentlemen:

Reference is made to the joint inspection made on 26 April 1960 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.

The required work, consisting of levee construction and bank revetment, is completed in accordance with Specification No. 2601, Contract No. DA-04-167-CIVENG-60-30 and Drawing No. 50-4-3614. The levee sections referred to above are listed as follows:

<u>LEVEE SECT NO.</u>	<u>TYPE</u>	<u>LOCATION</u>	
661	C	Sacramento River, Right Bank, Mile 42.76 to 42.98	113 42.98 42.76 (.32)
662	D	Sacramento River, Right Bank, Mile 31.87 to 32.32	104 32.32 31.87 (.45)
663	E	Three-Mile Slough on Sherman Island side of channel, beginning at State Hwy 24 Bridge thence along Horseshoe Bend 0.51 miles	105 (.51)
664	G	Three-Mile Slough on Sherman Island side of channel, Mile 2.76 to 2.98	2.98 2.76 (.22)

The levee sections 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.

The maintenance work required under the provisions of the Sacramento River Flood Control Project shall be performed in accordance with

REGISTERED

RETURN RECEIPT REQUESTED

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Total 1.50

20 JUL 1960

SPKCO-C
The Reclamation Board

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

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

Sincerely yours,

H. N. TURNER
Colonel, CE
District Engineer

1 Incl
F.C. Reg.

Copy furnished:
Dept Water Resources
23rd & "R" Sts.
Sacramento, Calif. w/o incl
O.C.E. w/o incl
S.P.D. w/o incl

cc: Engr Divn, Levees & Chann Sect w/o incl
Northern Area Ofc w/o incl
Operations Branch

OPERATIONS BRANCH

Concurrences	
Originator:	LHK
Date:	7/18/60
Dist. Engr.	[Signature]
Asst. D.E. (A)	
Asst. D.E. (O)	3 [Signature]
Exec. Asst.	
Cmptlr.	
Budget Fin. & Acctg.	
Mgmt.	
Property Office	
Copy	[Signature]
Engr'g	[Signature]
R. E.	
Prsnl.	
Legal	
Supply	

Wm 75 101, 104, 113

Benj. [Signature]
V.B. Levee [Signature]

REGISTERED # 1733

RETURN RECEIPT REQUESTED

SPIKCO-C

9 NOV 1960

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

Supplement #2

Gentlemen:

Reference is made to the second supplement dated 5 June 1958, to Memorandum of Understanding entered into with the State of California under the dated of 30 November 1953, covering added items of work at critical locations required to complete the Sacramento River Flood Control Project.

The flood control work consisting of levee construction and bank revetment at four locations listed below was completed on 11 October 1960 in accordance with Specification No. 2645, Contract No. DA-04-167-CIVENG-60-94 and Drawing No. 50-4-3626.

<u>SITE</u>	<u>LOCATION</u>	<u>MILE POINTS</u>
M	Right Bank, Three Mile Slough (Sherman Island Side)	1.44 to 1.87, and 2.01 to 2.59 <i>101.01</i>
H	Left Bank, Lindsey Slough	2.48 to 2.67 <i>107 .19</i>
J	Left Bank, Lindsey Slough	3.22 to 3.55 <i>133</i>
P	Left Bank, Sacramento River	88.28 to 88.51 <i>128 Orig Sac Riv Proj</i>

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 these sections of project levees has already been furnished which adequately covers operation and maintenance requirement for above items.

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REGISTERED
RETURN RECEIPT REQUESTED

LHK/ecg

SPKCO-C
The Reclamation Board

9 NOV 1960

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

Sincerely yours,

H. N. TURNER
Colonel, CE
District Engineer

M. R. BITTIKOFER
Lt. Col, CE
Deputy District Engineer

Copy furnished:
Dept. Water Res.
23rd and N Sts.,
Sacramento, Calif.

O.C.E.
SPD

cc: Engr. Div - Levees & Channels
Engr Div - Program Develop. Br.
Northern Area Office

OPERATIONS BRANCH
CHANNELS & LEVEES SECTION

Concurrences	
Originator:	LHK
Date:	11/8/60
Dist. Engr.	2
Asst. D.E. (A)	
Asst. D.E. (O)	ms
Exec. Asst.	
Compt.	
Budget Fin. & Acctg.	
Mgmt.	
Property Office service	
Constn-Opns.	
Engr'g	
R. E.	
Prsnl.	
Legal	
Supply	

units 10/107, 128

REGISTERED
RETURN RECEIPT REQUESTED

mik

SPKKO-C

15 SEP 1961

Supplement #2

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

Gentlemen:

Reference is made to the joint inspection made on 30 August 1961 of certain levee work on the right bank of Threemile Slough, a unit of the Sacramento River Flood Control Project, for the purpose of transferring it to the State of California for Operation and Maintenance. Reference is also made to the second supplement dated 5 June 1958, to Memorandum of Understanding entered into with the State of California under date of 30 November 1953, covering added items of work at critical locations required to complete the Sacramento River Flood Control Project.

The above flood control work, consisting of bank protection and levee enlargement on the right bank of Threemile Slough (Sherman Island Side) between River Mile 0.50 to 1.30, was completed on 7 September 1961 in accordance with Specification No. 2720, Contract No. DA-04-167-CIVENG-61-76 and Drawing No. 50-4-3673.

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 State of California, Department of Water Resources.

Sincerely yours,

Copy furnished:
Dept Water Resources
23rd & "N" Streets
Sacramento, California
O.C.E.
S.P.D.

H. N. TURNER
Colonel, CE
District Engineer

cc: Engr Divn-Lev&Chan; Prog Dev Br; F & A Br.; Northern Area Ofc.

OPERATIONS BRANCH
CHANNELS & LEVEES SECTION

Concurrences	
Originator:	LHK
Date:	9/14/61
Dist. Engr.	JZ
Dep. Dist. Engr.	WJW
Exec. Asst.	JW
Compt.	
Public Affs.	
Personnel	
Planning	
Records	
Comm. Opra.	IA
Engr'g.	
R. F.	
Financial	
Council	
Supply	
Security	
Safety	
Tech. Liaison	

Unit 101

SPKIO-P

25 JAN 1965

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

Gentlemen:

Reference is made to the joint inspection made on 20 January 1965, of the Levee Enlargement and Bank Protection on the Left Bank of Sacramento River at the Lower End of Sherman Island, for the purpose of transferring it, upon completion, to the State of California for operation and maintenance.

The flood control work performed consists of levee enlargement, bank protection and surfacing of the patrol road, beginning at approximately River Mile 4.05 and running upstream to approximately River Mile 4.50, for a distance of 0.45 miles.

This work was performed under the general authority of the Sacramento River Flood Control Act of 1941, 77th Congress, First Session; Section 2304(a)(17), Title 10, U.S.C.A., and Section 15 of the Small Business Act, and was completed on 20 January 1965, in accordance with Specification No. 3165, Contract No. DA-04-167-CIVENG-65-54, and Drawing No. 50-4-4038.

The flood control work described above now meets the requirements of the Sacramento River Flood Control Project and is hereby transferred to the State of California for operation and maintenance. This levee construction will be added by amendment to the O&M manual, Supplement No. 101, Sacramento River Flood Control Project, and furnished your office at a later date.

Sincerely yours,

ROBERT E. MATHE
Colonel, CE
District Engineer

[Signature]
COLEMAN/PP

[Signature]
THOMPSON

[Signature]
MATHE

Copy furnished:
Dept Water Resources
O.C.E.
S.P.D.

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

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[Handwritten signatures and initials]

COPY

THE RECLAMATION BOARD
STATE OF CALIFORNIA

8 March 1965

Refer to: 7001.70.100
4130.70.100

District Engineer
Corps of Engineers
U. S. Army
P. O. Box 1739
Sacramento, California - 95814

Dear Sir:

Reference is made to your letter of 25 January 1965, concerning transfer to the State of California of levee enlargement and stone protection, Lower End of Sherman Island, Reclamation District No. 341, in accordance with Specification No. 3165.

The work referred to above was accepted by The Reclamation Board at its meeting of March 4, 1965, with a conditional provision that should any subsidence occur within the next five years, the Corps of Engineers would effect a remedy.

Sincerely yours,

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

JHMacC:gg

EXHIBIT F

SPKIO-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.

SPRNO-V
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. F.C. Regs
2. Dwg 50-10-3334/1

ROBERT E. MATHE
Colonel, CE
District Engineer

Copy furnished:

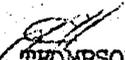
O.C.E.
S.P.D.

Dept Water Resources

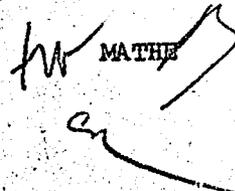
cc: Engr Div-Lev & Chan w/o incl
Engr Div-Prog Dev w/o incl
Valley Res Ofc w/o incl
F&A (Attn: Cordano) w/o incl


MORGAN/pp


COLEMAN


THOMPSON


GOMEZ


MATHE

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

M
ROMPALA/pp

M
COLEMAN

A
HENSON

[Signature]
HART

[Signature]
FINK

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Units 101, 102

Copy to Board/peh

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

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.

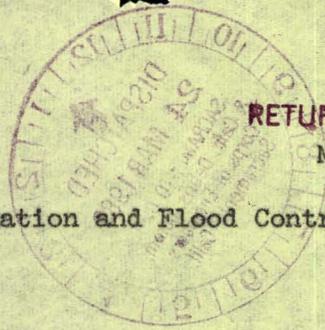
This work was constructed in accordance with Specification No. 3349, Contract No. DACW05-69-C-0076, Drawing No. 50-4-4283.

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



CERTIFIED MAIL
RETURN RECEIPT REQUESTED
March 22, 1983

CERTIFIED
No. 778572
RETURN RECEIPT REQUESTED

Navigation and Flood Control Unit

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

no drawing

Members of the Board:

You are hereby notified that the Corps of Engineers has completed emergency work on Sherman Island in R.D. 341 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 8, 1983 and consisted of construction of a 1100 foot+ long by 60 foot+ wide by 2 feet+ thick landside berm along the left bank levee of the Sacramento River in accordance with Contract Number DACW05-83-C-0055. This work shall be maintained in accordance with the assurances which your Board provided for the Sacramento River Flood Control Project. This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Number 101, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

M 22-3
ROMPALA/db

RCK
KELLY

[Signature]
A. SMITH

Sincerely,

[Signature]

for Arthur E. Williams
Colonel, Corps of Engineers
District Engineer

[Signature]
DENNIS
[Signature]
WILLIAMS

Copy Furnished:
Commander, South Pacific Division, ATTN: SPDCO-0

cc:
Ops Br
Engr Div (Levees & Channels - Nolan)
Val Res Ofc

Unit 101

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*



-2-

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

Copies Furnished:

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

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

Reclamation Board
Romपाला N&F.C.U.

PS Form 3811, July 1982

● **SENDER:** Complete Items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
 Show to whom and date delivered \$
 Show to whom, date, and address of delivery .. \$

2. **RESTRICTED DELIVERY** \$
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. **ARTICLE ADDRESSED TO:**
 State of California
 1416 - 9th Street, Rm 455-6
 Sacramento, California

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
 REGISTERED INSURED
 CERTIFIED COD
 EXPRESS MAIL
783773

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE Addressee Authorized agent
R. L. Manning

5. **DATE OF DELIVERY** **POSTMARK**
DEC 17, 1985 (may be on reverse side)

6. **ADDRESSEE'S ADDRESS** (Only if requested)

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**

* GPO: 1982-379-593

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

SCHOLL
12/16
WANG #29778

DE PIS

PASH

A. SMITH

RK
KELLY

PK 12-13
ROMPALA/mg

RETURN RECEIPT

DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD

1416 - 9th Street, Room 455-6
Sacramento, CA 95814
(916) 445-9454



MAR 18 1986

*except S.M. 16.0R
SACRAMENTO RIVER*

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

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

*copy to C.D. S. D.
328-86*

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*

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

EXHIBIT G

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. 101 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 15.0 at the gage on Threemile Slough near the Sacramento River, and 15.0 on the gage on Threemile Slough near the San Joaquin River) occurred on the following dates:

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

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

(Superintendent's log of flood observations)

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

(See Maintenance Manual _____.)

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

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

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

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

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

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

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

Respectfully submitted,

Superintendent of Works