

SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL

SACRAMENTO RIVER
FLOOD CONTROL PROJECT

UNIT NO. 134

LEVEES OF RECLAMATION DISTRICT NO. 70
EAST LEVEE OF SACRAMENTO RIVER
FROM
BUTTE SLOUGH OUTFALL GATES TO WINSHIP SCHOOL
AND
WEST LEVEE OF SUTTER BY-PASS
FROM
BUTTE SLOUGH OUTFALL GATES TO LONG BRIDGE



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

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PREPARED BY THE SACRAMENTO DISTRICT
CORPS OF ENGINEERS, U. S. ARMY
SACRAMENTO CALIFORNIA, DATED JUNE 1953

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LOCATION	ADDITION OR REVISION	DATE
1-04 i.	Add contract no. 65-15	Jul 1966
Exhibit B	Add drawing no. 50-4-3754	Jul 1966
Exhibit F	Add letter of transfer dated 26 Oct 1965	Jul 1966
1-04 j.	Add contract no. 66-50	Dec 1966
Exhibit B	Add drawing no. 50-4-4004	Dec 1966
Exhibit F	Add letter of transfer dated 23 Nov 1966	Dec 1966
1-04 k.	Add contract no. DACW05-68-C-0067	Dec 1970
Exhibit B	Add drawing no. 50-4-4179	Dec 1970
Exhibit F	Add copy of letter of acceptance dated 24 Dec 1968	Dec 1970
1-04	Add subparagraph l.	Mar 1972
Exhibit B	Add drawing no. 50-4-4339	Mar 1972
Exhibit F	Add copy of letters of acceptance dated 17 Dec 1970 and 31 Dec 1971	Mar 1972
1-04	Add subparagraph m.	Jun 1975
2-02	Add subparagraph e.	Jun 1975
Exhibit B	Add drawing no. 50-4-4586	Jun 1975
Exhibit F	Add copy of letters of acceptance dated 16 Jan 1973 and 1 Oct 1973	Jun 1975
1-04	Add subparagraph n.	Nov 1975
Exhibit B	Add drawing no. 50-4-4713	Nov 1975
Exhibit F	Add copy of letter of acceptance date 15 Jan 1973	Nov 1975
1-04	Add subparagraph o.	Jan 1976
Exhibit B	Add drawing no. 50-4-4777	Jan 1976
Exhibit F	Add copy of letter of acceptance dated 9 Jul 1974	Jan 1976
1-04	Add subparagraph p.	Feb 1979
2-02	Delete subparagraph e. (June 1975)	Feb 1979
2-05	Added environment protection	Feb 1979
Exhibit B	Added drawing no. 50-4-5011	Feb 1979

LOCATION	ADDITION OR REVISION	DATE
Exhibit F	Added copy of letter of acceptance dated 25 Aug 1977	Feb 1979
1-04 q.	Add subparagraph q.	Feb 1979
Exhibit B	Added drawing no. 50-4-5422	Feb 1979
Exhibit F	Added copy of letter of acceptance dated 7 Dec 1977	Feb 1979
1-04 r.	Add subparagraph r.	Nov 1983
Exhibit B	Add drawing no. 50-4-5438	Nov 1983
Exhibit F	Add copy of letters of transfer dated 15 Dec 1981 and 30 Nov 1982	Nov 1983
1-04	Added subparagraph s.	Sep 1990
Exhibit F	Add copy of letter of transfer dated 23 Jun 1947	22 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 2 Jul 1947	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 30 Nov 1949	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 20 Feb 1950	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 30 Aug 1950	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 8 Dec 1951	22 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 18 Dec 1951	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 15 Aug 1952	22 Dec 2010
Exhibit F	Add copy of letter of transfer dated 30 Nov 1956	22 Dec 2010
Exhibit F	Add copy of letter of acceptance dated 9 Dec 1966	2 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 20 Feb 1967	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 16 Nov 1970	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 30 Nov 1971	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 28 Dec 1972	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 29 Dec 1972	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 25 Sep 1973	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 21 Nov 1977	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 20 Jun 1974	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 11 Aug 1977	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 31 Dec 1981	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 21 Dec 1982	8 Mar 2011
Exhibit F	Add copy of letter of acceptance dated 3 Mar 1986	8 Mar 2011
1-04	Add subparagraph t	8 Mar 2011
Exhibit F	Add copy of letter of transfer dated 21 Dec 1987	8 Mar 2011

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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 includes the east levee of the Sacramento River from Butte Slough Outfall Gates to Winship School and the West levee of Sutter Bypass from Butte Slough Outfall Gates to a point near Long Bridge which marks the common boundary between Reclamation District No. 70 and Reclamation District No. 1660 on the west levee of the Sutter Bypass. The Sutter Bypass is a leveed floodway which conveys excess flood waters of the Sacramento River. The main channel of the Sacramento River within this unit is leveed along both banks and conveys normal flows in addition to a portion of the flood flows of the Sacramento River System. The levees of Unit No. 134 are located in Reclamation District No. 70, in Sutter County, California and in the general vicinity of the town of Meridian. Location of the completed unit covered by this manual is shown on Exhibit A-1. This manual covers and supersedes a portion of the supplemental manual designated as Unit No. 10 (east levee of Sacramento River between Meridian Bridge and Tisdale Weir).

1-02. Protection provided. - The project works are designed to protect adjacent agricultural lands and the town of Meridian. The project design flood for levees of this unit are 66,000 cubic feet per second in the Sacramento River and 178,000 cubic feet per second in Sutter Bypass. The grade of the adopted flood plane profile in the Sacramento River varies from elevation 69.0 at Butte Slough Outfall Gates to elevation 57.0 at Winship School. Along Sutter Bypass the grade of the adopted flood plane profile varies from elevation 69.0 at Butte Slough Outfall Gates to elevation 56.7 at Old Long Bridge. (All elevations are referred to U.S.C.E. datum).

The levee grade provides for a freeboard of 3 feet in the Sacramento River and 6 feet in Sutter Bypass above the adopted flood plane profile.

1-03. Project works. - The project works covered by this manual include the following:

a. The east levee and banks of the Sacramento River from Butte Slough Outfall Gates southerly (downstream) 16.2 miles to Winship School as constructed by local interests and/or as reconstructed by levee setbacks and bank protection works by the Corps of Engineers to adopted grade and section.

b. The westerly levee and channel of Sutter Bypass from Butte Slough Outfall Gates southerly (downstream) 7.95 miles to the northerly boundary of Reclamation District No. 1660 on the west levee of Sutter Bypass. The levee of this unit was constructed by local interests and reconstructed to adopted grade and section by the Corps of Engineers.

1-04. Construction data. - Unit No. 134 of the flood-control works described in this manual forms an integral part of the Sacramento River Flood Control Project. In addition to emergency bank protection work and building of levees by local interests, construction required to bring this unit to project standards was completed by the Corps of Engineers as follows:

a. Levee setback and standard bank protection was constructed on the Sacramento River from station 693⁷/₂₅ to 708⁷/_{67.19} as shown in Exhibit B, Drawing No. 50-4-1831 in 1 sheet. Work at Yates from mile 129.8 to 131.0 was completed on 20 November 1940 under Job Order No. 626.

b. Repair of levee break on the west levee of Sutter Bypass from station 194⁷/₅₀ to station 234⁷/₁₆ as shown in Exhibit B, Drawing No. 50-4-1791, sheets 1 and 2 was accomplished by hired labor under Job Order No. 600 and completed on 18 July 1940.

c. Enlargement to adopted grade and section of the west levee of Sutter Bypass from Butte Slough Outfall Gates to Longbridge from Station 0⁷/₀₀ to 194⁷/₅₀ and Station 234⁷/₁₆ to 399⁷/₀₀ as shown in Exhibit B, Drawing No. 50-4-1818-1, sheets 1, 2, 3, and 4. Work in this area was completed on 17 December 1941 under Contract No. 2872 by H. Earl Parker, Inc., contractor.

d. Enlargement to adopted grade and section of the west levee of Sutter Bypass from Long Bridge southerly (downstream) as shown on Exhibit B, Drawing No. 50-4-1819-2, sheet 1 was accomplished under Contract No. 2880 by Parish Bros., contractors and completed on 27 November 1941.

e. Enlargement to adopted grade and section of the east levee of the Sacramento River from Meridian Bridge to Winship School from station 498/60 to 693/50 and station 708/00 to 958/00 as shown in Exhibit B, Drawing No. 50-4-2287, Sheets 1, 2, 3, and 4. Work along said levee was started on 1 October 1946 and completed 23 May 1947 under Contract No. W-04-167-eng-1208 by H. Earl Parker, Inc., contractor.

f. Revetment repairs were accomplished at Girdner Bend (Mile 126.0L) on the east levee of the Sacramento River as shown in Exhibit B, Drawing No. 50-4-2369, in 1 sheet and designated as Part "F". Work at Mile 126.0L was completed on 25 November 1947 under Contract No. W-04-167-eng-1345 by H. Earl Parker, Inc., contractor.

g. Levee setback and bank protection work along the east levee of the Sacramento River from Mile 132.7 to Mile 143.7 at Parts (a), (b), (c), (f), and (g) as shown in Exhibit B, Drawing No. 50-4-2545, sheets 2, 3, and 6. Work in this reach of levee at parts noted was started on 11 February 1949 and completed 26 May 1950 under Contract No. W-04-167-eng-1576 by H. Earl Parker, Inc., contractor.

h. Levee setback and bank protection work along the east levee of the Sacramento River from Mile 102.5 to 133.8 at Parts (o), (r), (t), and (u) as shown in Exhibit B, Drawing No. 50-4-2614, sheets 6, 7, 8, and 11. Work along this section of the Sacramento River was started on 5 June 1950 and completed on 17 November 1951 under Contract No. DA-04-167-eng-272 by H. Earl Parker, Inc., contractor.

i. Bank protection, right and left banks Sacramento River at various locations between Colusa and Boyers Bend was accomplished under Contract No. DA-04-167-CIVENG-65-15 by Elmer G. Wendt, Inc. during the period from 22 September 1964 to 5 November 1965, Specification No. 3024, Drawing No. 50-4-3754.

j. Bank protection, left bank of Sacramento River at various locations between Knights Landing and Colusa (Unit No. 8) was accomplished under Contract No. DA-04-167-CIVENG-66-50 by H. Earl Parker, Inc. during the period from 18 October 1965 to 18 November 1966. Specification No. 3154, Drawing No. 50-4-4004.

k. Stone protection on the left bank of the Sacramento River at Site Mile 137.67 (a portion of Unit No. 13, Sacramento River Bank Protection Project) was accomplished under Contract No. DACW05-68-C-0067 by H. Earl Parker during the period from 17 April 1968 to 29 August 1969. Specification No. 3369, Drawing No. 50-4-4179.

l. Bank protection on the left bank of the Sacramento River at site miles 123.0, 125.3, 126.0, and 136.6 (Unit No. 17) was accomplished under Contract No. DACW05-70-C-0049 by A. A. Teichert and Sons during the period from 15 December 1969 to 20 January 1972. Specification No. 3406. Drawing No. 50-4-4339.

m. Bank protection and selective clearing on the left bank of the Sacramento River at Site Miles 138.2 and 123.9 (Unit No. 22) was accomplished under Contract No. DACW05-72-C-0057 by A. A. Teichert and Sons during the period from 20 March 1972 to 9 November 1973. Specification No. 3924, Drawing No. 50-4-4586.

n. Bank protection and selective clearing on the left bank of the Sacramento River at Site Mile 130.0 (Unit No. 24) was accomplished under Contract No. DACW05-73-C-0038 by Claude C. Wood during the period from 11 October 1972 to 6 January 1975. Specification No. 4169, Drawing No. 50-4-4713.

o. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Miles 134.7 and 136.1 (Unit No. 26) was accomplished under Contract No. DACW05-73-C-0059 by Luhr Brothers, Inc. during the period from 12 December 1972 to 15 November 1974. Specification No. 4251, Drawing No. 50-4-4777.

p. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Miles 122.3, 122.4, 123.3, 125.0, 125.6, 128.6, 135.0 and 137.5 (of Unit 29) was accomplished under Contract NO. DACW05-76-C-0084 by Claude C. Wood Company during the period from 28 June 1976 to 9 August 1977. Specification No. 4833, Drawing No. 50-4-5011.

q. Bank sloping, stone protection and selective clearing on the right bank levee of Sutter Bypass at Decker Road was accomplished under Contract No. DACW05-77-C-0094 by Claude C. Wood Company during the period from 12 September 1944 to 11 November 1977, Specification No. 5383, Drawing No. 50-4-5422.

r. Bank sloping, stone protection and selective clearing on the bank of the Sacramento River at Site Miles 126.6 L, 132.6 L, 135.4 L and 137.3 L (a portion of Unit 35) was accomplished under Contract No. DACW05-81-C-0036 by Francis Construction, Inc. Construction was completed on 18 November 1982. Specification No. 5472, Drawing No. 50-4-5438.

s. Bank sloping, stone protection and selective clearing on the left bank of the Sacramento River at Site Mile 127.5 and 128.5 (a portion of Unit 38A) was accomplished under Contract No. DACW05-84-C-0112 by Aloha Dredging Co. Construction was completed on 6 October 1985. Specification No. 7053, Drawing No. 50-4-5712.

t. Bank sloping and stone protection on the left bank of the Sacramento River, Site Miles 132.4, 134.8, 135.4 and 137.5 was completed on 18 December 1987 under Contract No. DACW05-86-C-0095. Specification No. 7875, Drawing No. 50-4-5758.

1.05. Flood Flows. For purposes of this manual, the term “flood” or “high water period” shall refer to flows when the water surface in the Sacramento River reaches or exceeds the reading of 62.0 on the State of California, Division of Water Resources gage located on the left bank of the Sacramento River at Butte Slough Outfall Gates; or when the water surface in the Sutter Bypass reaches or exceeds the reading of 60.0 on the State of California, Division of Water Resources gage located on steel span of the Mawson Bridge on the West Butte-Meridian Road. Both gaging stations are continuous water stage recorders. There are also staff gages set on 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 Acceptance by State Reclamation Board. Responsibility for operating and maintaining the completed works was officially accepted by the Reclamation Board of the State of California on 2 July 1947, 20 November 1951, 18 December 1951, and 18 February 1953, as shown on the attached copies of letters of acceptance, 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. Channels. -

a. Description. - The principal features consist of: Channels or floodways -- the main channel of the Sacramento River with a project design capacity of 66,000 cubic feet per second is leveed along both banks and conveys normal flows of the Sacramento River System. When flood discharge exceeds the carrying capacity of the Sacramento River along Butte Basin, water overflows into that basin through natural overflow channels and over Moulton and Colusa Weirs. The overflow waters, after passing through Butte Basin, are concentrated in Sutter Bypass which has a width of 4,000 feet at its upper end, levees 18 to 20 feet in height, and a project design capacity of 178,000 cubic feet per second within Unit No. 134. During normal flow of water from Butte Basin, the flow is controlled at Butte Slough Outfall Gates to supply irrigation needs in Sutter Bypass and the remainder is discharged into the Sacramento River.

Since the channel of the Sacramento River from Butte Slough Outfall Gates to Winship School is utilized for navigable purposes, the responsibility of local interests for inspection, maintenance and operation of the channel of the Sacramento River shall be limited to flood control and the requirements of paragraphs 2-01b, c, and d, which follow, shall be observed only to that extent.

The floodway of Sutter Bypass within this unit shall be inspected, maintained and operated as outlined in paragraphs 2-01b, c and d.

b. Inspection. -

(1) Pertinent requirements of the code of Federal regulations. - Flood-Control Regulations, Par 208.10(g)(1) are quoted in part as follows:

"(g) Channels and floodways....(1) Maintenance, Periodic inspections of improved channels and floodways shall be made by the Superintendent to be certain that:

- (i) The channel or floodway is clear of debris, weeds, and wild growth;
- (ii) The channel or floodway is not being restricted by the depositing of waste materials, building of unauthorized structures or other encroachments;

- (iii) The capacity of the channel or floodway is not being reduced by the formation of shoals;
- (iv) Banks are not being damaged by rain or wave wash, and that no sloughing of banks has occurred;
- (v) Riprap sections and deflection dikes and walls are in good condition;
- (vi) Approach and egress channels adjacent to the improved channel or floodway are sufficiently clear of obstructions and debris to permit proper functioning of the project works.

Such inspections shall be made prior to the beginning of the flood season and otherwise at intervals not to exceed 90 days. Immediate steps will be taken to remedy any adverse conditions disclosed by such inspections....."

(2) The purpose of the flood-flow channels inspection is to insure that conditions which affect the channel capacity will remain the same, as far as possible, as those considered in the design assumptions and that no new conditions develop that may affect the stability of the project structures. At each inspection required by Par. 208.10 (g)(1) of the Flood-Control Regulations, particular attention will, therefore, be given the following:

- (a) Location, extent and size of vegetal growth.
- (b) Unauthorized operations within the flood-flow channel right-of-way, such as excavations, buildings, and other structures, levees, bank protection, or training dikes.
- (c) Rubbish and industrial waste disposal.
- (d) Changes in the channel bed such as aggradation or degradation, which would interfere with free-flow from side drainage structures or induce local meanders that would scour the banks.
- (e) Operations of any nature upstream from

the project that would affect flow conditions within the limits of the flood-control project.

(f) Condition of project structure.

1. Channel walls:

- a. Deviation from alignment and grade.
- b. Development of cracks and spalls.
- c. Mechanical injuries.

2. Fencing:

- a. Injuries to posts, fencing or
barbed wire.
- b. Damage to galvanizing.

3. Earth fills:

- a. Settlement.
- b. Erosion of levee slopes.
- c. Excessive seepage or saturation area
back of fills.
- d. Condition of bank protection -
concrete or stone blanket.

4. Right-of-way:

- a. Presence of dumped refuse.
- b. Encroachment or trespass.

(3) No excavation within the limits of this unit in Sutter Bypass or the Sacramento River will be permitted unless an excavation permit has been approved by the State Reclamation Board.

(4) If any work is done to improve flow conditions in Sutter Bypass or the Sacramento River, it should be coordinated with the District Engineer to insure that proper provisions are made for channel alignment and capacity to conform to the existing project.

(5) The intent of these inspections is to disclose all conditions which in any way affect the stability of the structures and their functioning for the control of floods. Each inspection report

should note and comment on any repair measures that have been taken since the last inspection. In making these inspections, the check sheets included as Exhibit E shall be explicitly followed.

c. Maintenance

(1) Pertinent Requirements of the Code of Federal Regulations. Flood-Control Regulations, Par. 208.10 (g)(1) are quoted in part as follows: "... Immediate steps will be taken to remedy any adverse conditions disclosed by such inspection...."

(2) Shoaling or aggradation at the inlets or outlets of side drainage structures may render them inoperative. It is, therefore, imperative that all drains be kept open and unobstructed at all times.

(3) Dumped rock or other suitable types of protection should be placed at locations found by experience to be critical trouble points, with a view to stabilizing the channel alignment and preserving the general uniformity of the bank lines.

(4) Sediment and debris plugs or other obstructions should be removed from the channel to prevent any tendency for the flows to be deflected within the channel. The heavy material likely to accumulate in the new channel at the mouths of tributaries should be removed to keep the channel clear.

(5) The channel and right-of-way shall be kept reasonably clear of debris, refuse matter, or industrial wastes.

(6) Weeds and other vegetal growth in the channel shall be cut in advance of the flood season and together with all debris, removed from the channel.

(7) All eroded concrete shall be repaired as soon as reinforcing steel is exposed or erosion reaches a depth of 4 inches. For this purpose, it is recommended that the repair be made by thoroughly cleaning the surface by sandblasting and building up the section with pneumatically placed Portland cement mortar. All evidence of settlement, uplift, or failure of concrete structures shall be referred to the State Engineer for analysis and remedial measures.

(8) All damage to fencing, whether resulting from accidental or willful injuries or from corrosion, shall be promptly repaired with new material in order to maintain satisfactory protection to the public.

(9) All subdrainage structures which have become cemented due to the evaporation of ground water or other causes,

shall be thoroughly cleaned out and repacked with fresh gravel.

d. Operation. -

(1) Pertinent requirements of the Code of Federal Regulations, Par. 208.10(g)(2), are quoted in part as follows:

"(g) Channels and floodways (2) Operation. Both banks of the channel shall be patrolled during periods of high water Appropriate measures shall be taken to prevent the formation of jams of debris. Large objects which become lodged against the bank shall be removed. The improved channel or floodway shall be thoroughly inspected immediately following each major high water period. As soon as practicable thereafter all snags and other debris shall be removed and all damage to walls, drainage outlets or other flood-control structures repaired."

(2) 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 62.0 on the gage in the Sacramento River at Butte Slough Outfall Gates or 60.0 on the gage at Mawson Bridge in Sutter Bypass as indicated in paragraph 1-05 of this manual. The superintendent shall cause readings to be taken at said gages at intervals of two or four hours during the period when the water surface is above the flood-flow stage indicated above and record the time of the observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-03c of the Standard Manual.

2-02. Levees. -

a. Description - The levees described in this manual are located along the easterly side (left bank) of the Sacramento River from Butte Slough Outfall Gates to Minship School and along the westerly side (right bank) of Sutter Bypass from Butte Slough Outfall Gates to a point below Long Bridge which marks the common boundary between Reclamation District No. 70 and Reclamation No. 1660 on the west levee of Sutter Bypass. A majority of the levees of this unit, originally

built by local interests, have been enlarged, setback or have been given bank protection work by new construction. For more complete detail of items in construction of above mentioned levees, refer to the "As Constructed" drawings of Exhibit B. Structures affecting levee maintenance are listed in Exhibit E.

b. Inspection.

(1) Pertinent requirements of the code of Federal regulations. Flood-Control Regulations, paragraph 208.10 (b) (1), are quoted in part as follows:

"(b) Levees - (1) Maintenance

Periodic inspection shall be made by the superintendent to be certain that

- (i) No unusual settlement, sloughing, or material loss of grade of levee cross section has taken place.
- (ii) No caving has occurred on either the landside or the riverside of the levee which might affect the stability of the levee section.
- (iii) No seepage, saturated areas, or sand boils are occurring.
- (iv) Toe drainage systems and pressure relief wells are in good working condition, and that such facilities are not becoming clogged.
- (v) Drains through the levees and gates on said drains are in good working conditions.
- (vi) No revetment work or riprap has been displaced, washed out, or removed.
- (vii) No action is being taken, such as burning grass and weeds, during inappropriate seasons, which will retard or destroy the growth of sod; (see Note (a) at end of subparagraph (1).)
- (viii) Access roads to and on the levee are being properly maintained.

- (ix) Cattle guards and gates are in good condition.
- (x) Crown of levee is shaped so as to drain readily, and roadway thereon, if any, is well shaped and maintained.
- (xi) There is no unauthorized grazing or vehicular traffic on the levees.
- (xii) Encroachments are not being made on the levee right-of-way which might endanger the structure or hinder its proper and efficient functioning during times of emergency.

Such inspections shall be made immediately prior to the beginning of the flood season immediately following each major high water period, and otherwise at intervals not exceeding 90 days; and such intermediate times as may be necessary to insure the best possible care of the levee..."

Note (a)

Since the growth of sod on the slopes of the levees of this project is not practicable and as the nature of the levee growth warrants burning thereof to facilitate inspection, the provisions of subparagraph b(1) of the regulations inconsistent therewith shall not apply. In place of item (vii), therefore, the following shall be observed:

Weeds, grasses, and debris on the levee are burned during appropriate seasons, where not dangerous or impracticable, in order to permit the detection of cracks, holes, burrows, slips, and other damage and to permit the detection and extermination of burrowing animals and that grass and weeds on levee slopes be mowed where removal by burning is dangerous or impracticable, such as peat levees or where burning would constitute a hazard.

(2) To insure the taking of such maintenance measures as will be required for proper functioning of the levee, the following items shall be specifically covered in each inspection:

(a) Aggradation or degradation of the stream bed along the toe.

(b) Settlement of levee fill.

(c) Erosion of levee slopes; both sides of levees.

(d) Presence of seepage; saturated areas, or sand boils back of levee.

(e) Condition of access roads and roadway on levee .

c. Maintenance

(1) Repairs to levee embankment - Methods used for repair or reconstruction of the levee fill will depend on the extent of the damaged section. If of small extent, the most suitable method will be to bring the levee back to line and grade by a fill made in 6-inch layers of earth free from brush, roots, sod or other unsuitable material. If of larger extent, the fill should be made in the same manner as the original construction, of selected material from borrow pits approved for the project, placed in uniform layers of loose material and not more than 6 inches in depth and compacted in accordance with the specifications under which the work was completed or compacted according to approved construction practices.

(2) Depredations of burrowing animals - Dens and runways formed within the levee by burrowing animals are frequently the causes of levee failures during flood stages. Burrowing animals such as muskrats, ground hogs, ground squirrels, moles and gophers, found in the levee should be exterminated. The dens and runways should be opened up and thoroughly compacted as they are backfilled. Levees kept properly cleared are not seriously menaced by burrowing animals as they prefer areas where a protective cover, such as high grass, weeds, and brush, is found. Several methods of extermination are found effective, such as trapping, baiting, and poison gases, depending on the type of animal present and the time of year the work is done. Advice concerning the best methods in each locality can be obtained from the County agricultural agent.

(3) Access Route – Access roads to the levees shall be maintained in such condition that they will be accessible at all times to trucks used to transport equipment and supplies for maintenance of flood fighting.

d. Operation

(1) Pertinent requirements of the code of Federal regulations – Flood Control Regulations, Par. 208.10(b)(2) are quoted in part as follows:

“(2) Operation – During flood periods, the levee shall be patrolled continuously to locate possible sand boils or unusual wetness of the landward slope to be certain that:

- “(i) There are no indications of slides or sloughs developing.
- (ii) Wave wash or scouring action is not occurring.
- (iii) No low reaches of levee exist which may be over-topped.
- (iv) No other conditions exist which might endanger the structures.

Appropriate advance measures will be taken to insure the availability of adequate labor and materials to meet all contingencies. Immediate steps will be taken to control any condition which endangers the levee and to repair the damaged section.”

2-03. Drainage and irrigation structures

a. Description – Drainage and irrigation structures which extend through the levees are listed as follows:

Location Station	Size and Kind of Pipe	Other Structure Description	Elev. of Invert at Pipe
<u>WESTERLY LEVEE OF SUTTER BYPASS</u>			
5+75	24” c.m.p.	Pump on R.S., 101 gate, 2 concrete cut-off walls, saddle and apron	
142+70	12” Steel	Pump on R.S. Concrete spill box. L.S. 2-No. 105 gates, cut-off plate	

Location:	Size and :		Elev.of
Station:	Kind of Pipe:	Other Structure Description	Invert at Pipe

165/90	15" Steel	Pump on R.S., concrete spill box. No. 101 gate, cut-off plate	
180/50	18" Steel	Pump on R.S., No. 101 gate, cut-off plate	
189/30	24" Steel	Pump on R.S., No. 101 gate, cut-off plate	
237/40	18" Steel	Pump on R.S., cut-off plate, concrete spillbox	
251/30	18" Steel	Pump on R.S., cut-off plate, concrete spillbox	
332/72	12" Steel	Pump on R.S., cut-off plate, concrete spillbox	
352/00	14" Steel	Pump on R.S., 14" gate valve R.S., cut-off plate, concrete spillbox L.S.	

EAST LEVEE SACRAMENTO RIVER

320/00	18" c.m.p.		
330/00	24" c.m.p.		
347/32	18" Steel	Pump R.S., concrete spillbox L.S., 2-24" No. 105 gates, 1-C.M. Cut-off wall	53.21
374/87	16" Steel	Pump R.S., 1-C.M. cut-off wall	54.20
399/34	18" Steel	Pump R.S., 1-C.M. cut-off wall	52.04
413/97	22" Steel	Pump R.S., 2-24" slide headgates	53.70
422/63	24" c.m.p.		
452/92	24" c.m.p.	Pump R.S., 1-C.M. cut-off wall, No. 101 gate	51.82
455/39	24" c.m.p.	Pump R.S., 1-C.M. cut-off wall, No. 101 gate	54.62

Location: Station:	Size and Kind of Pipe:	Other Structure Description:	Elev. of Invert at Pipe
492/86	30" Steel & 24" Steel	Pump R.S., slide headgates	43.00
496/25	4", 8" & 10" Steel	Pump R.S., Seed Washing plant L.S.	68.35
516/06	24" c.m.p.	Pump R.S., concrete pit R.S., No. 101 gate	53.20
526/71	10" Steel	Pump R.S., Shut-off valve L.S., 1-C.M. cut-off plate	64.90
555/09	24" c.m.p.	Pump R.S., concrete box R.S. berm, No. 101 gate	53.80
589/82	24" c.m.p.	No. 101 gate in 36" c.m.p., gate well section on R.S. L.S. end of pipe in concrete saddle and apron	53.40
610/84	24" Steel	Pump R.S., No. 101 gate in steel well R.S., No. 100 gate in box on L.S.	54.20
689/50	8" to 10" Steel	Pump R.S., concrete pit L.S.	45.30
694/50	15" Steel	Pump R.S., 2 No. 101 gates R.S.	51.20
694/85	18" Steel	Pump R.S., concrete box R.S. toe, No. 101 gate	51.30
751/80	30" Steel	Pump R.S., 2 cut-off plates	45.20
813/00	12" Steel	Discharge into wood distribution box L.S.	62.90
824/00	2-18" Steel	2 slope mounted pumps R.S., concrete box L.S., 2 No. 100 gates L.S.	62.00
889/72	30" Steel	Pump R.S., electric valve in pump pit R.S.	38.50
930/22	12" Steel	Pump R.S., concrete box L.S.	60.00
1006/60	18" Steel	Pump with concrete pit R.S.	43.30

Location: Station:	Size and: Kind of Pipe:	Other Structure Description	Elev. of Invert at Pipe
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EAST LEVEE SACRAMENTO RIVER (Continued)

1007/10	48" c.m.p. also 40" & 50"	Recl. Dist. No. 70 drainage pump, 40" & 50" pipes are steel encased in concrete	48" - 45.80 40" & 50" - 20.00
1086/55	2-24" Steel 1-15" Steel	Pumps R.S., valves on pipes	24" pipes at 38.2 15" pipe at 38.7

Notes pertaining to gates and abbreviations:

(a) Gate model number 100 is a Calco automatic drainage gate on outlet end of pipe. It closes against face pressure and opens automatically to permit outflow when pressure is released.

Gate Model No. 101 is a Calco slide gate which operates by hand-screw on a steel frame.

Gate Model No. 105 is a Calco inlet gate which operates under moderate pressure. Slide gate is hand operated, made of galvanized metal guide on an angle iron frame.

(b) Abbreviations are as follows:

C.M. = Corrugated Metal.
C.M.P. = Corrugated Metal Pipe
R.S. = Riverside
L.S. = Landside

b. Inspection.

(1) Pertinent requirements of the code of Federal regulations. Flood-Control Regulations, paragraph 208.10 (d) (1), are quoted in part as follows:

"(d) Drainage Structures (1) Maintenance - Adequate measures shall be taken to insure that inlet and outlet channels are kept open and that trash, drift, or debris is not allowed to accumulate near drainage structures. Flap gates and manually operated gates and valves on drainage

structures shall be examined, oiled, and trial operated at least once every 90 days Periodic inspections shall be made by the superintendent to be certain that:

- (i) Pipes, gates, operating mechanism, riprap and headwalls are in good condition;
- (ii) Inlet and outlet channels are open;
- (iii) Care is being exercised to prevent the accumulation of trash and debris near the structures and that no fires are being built near bituminous coated pipes;
- (iv) Erosion is not occurring adjacent to the structures which might endanger its water tightness or stability.

Immediate steps will be taken to repair damage, replace missing or broken parts, or remedy adverse conditions disclosed by such inspections."

(2) At each inspection required by paragraph 4-02 (b) (2) of the Standard Manual, the following items, if applicable, shall be particularly noted:

- (a) Debris or other obstructions to flow.
- (b) Condition of pipes and gates.
- (c) Damage or settlement of pipe.
- (d) Condition of concrete cracks, spalls, erosion.

c. Maintenance.

(1) All eroded concrete shall be repaired as soon as any reinforcing steel is exposed or erosion reaches a depth of 4 inches. For this purpose it is recommended that the repair be made by thoroughly cleaning the surface by sandblasting and building up the concrete to its original section with pneumatically placed portland cement mortar. All evidences of settlement, uplift, or failure of concrete structures should be referred to the State Engineer for analysis and recommendation of remedial measures.

(2) If the inspection shows that the automatic drainage structures have been jammed in an open position by debris or other obstructions, they shall be thoroughly cleaned so that they swing freely to a true closure. If any parts of the gates have been damaged or broken, they shall be replaced by new parts.

(3) Compliance with the provisions prescribed above pertaining to drainage structures is essential for proper maintenance of the levee system covered by this manual. Levee failures caused by neglected drainage structures are of common occurrence; it is, therefore, of utmost importance that these structures always be kept in perfect working condition in accordance with the regulations.

(4) Care should be taken not to bury any of the side drainage inlets in the event that it becomes necessary to fill any of the low-lying pockets in back of the levee. Plans for the maintenance of drainage facilities at any such points should be submitted to the State Reclamation Board for approval before such work is started.

d. Operation.

(1) Pertinent regulations of the code of Federal regulations. Flood-Control Regulations, paragraph 208.10 (d)(2), are quoted in part as follows:

"(2) Operation. Whenever high water conditions impend, all gates will be inspected a short time before water reaches the invert of the pipe and objects which might prevent closure of the gate shall be removed. Automatic gates shall be closely observed until it has been ascertained that they are securely closed All drainage structures in the levees shall be inspected frequently during floods to ascertain whether seepage is taking place along the lines of their contact with the embankment. Immediate steps shall be taken to correct any adverse conditions."

(3) The outlets of side drainage structures inundate at relatively low river stages. They should, therefore, be inspected at the first sign of a rise in the river to make certain that the gates are not jammed in an open position and thus allow flood waters to enter behind the levee.

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. (for further details see Exhibit B).

(a) State Highway No. 20 and Sacramento Northern Railroad Bridge - swing span across Sacramento River at Meridian - station 498/95.

(b) Lawson Bridge across Butte Slough Bypass at station 104/42.

(c) Bridge across borrow pit along westerly levee of Sutter Bypass at station 356/10.

(d) Old Highway Bridge across Sutter Bypass at station 388/30.

(e) Bridge across borrow pit along westerly levee of Sutter Bypass at station 389/60.

(f) Sacramento Northern Railroad Trestle across Sutter Bypass at station 391/00.

(g) State Highway No. U. S. 20 Bridge across Sutter Bypass at station 399/40 (Long Bridge).

(2) Control gates. Butte Slough Outfall Gates at junction of Butte Slough and Sacramento River. Operation and maintenance of these gates will be covered in a separate manual.

(3) Utility relocations. None

(4) Hydrographic facilities. Water gaging facilities within this unit are listed as follows:

(a) Continuous water stage recorder and staff gage located on the left bank of the Sacramento River at Butte Slough Outfall Gates.

(b) Continuous water stage recorder and staff gage located on a steel span section of Lawson Bridge on the West Butte-Meridian Road.

(c) Continuous water stage recorder and staff gage located on downstream side of bridge in Sacramento River at Meridian.

(d) Staff gage on left bank of Sacramento River at Reclamation District No. 70 pumping station.

(e) Continuous water stage recorder and staff gage on left bank of Sacramento River at north end of Tisdale Weir.

(f) Continuous water stage recorder and staff gage in Sutter Bypass at the west end of "Old" Long Bridge.

Note: All gages listed above are set on U. S. Corps of Engineers datum.

b. Inspection and maintenance.

(1) Pertinent requirements of the code of Federal regulations. Flood-Control Regulations, paragraph 208.10 (h)(1) are quoted in part as follows:

"(h) Miscellaneous facilities. (1) Maintenance. Miscellaneous structures and facilities constructed as a part of the protective works and other structures and facilities which function as a part of, or affect the efficient functioning of the protective works, shall be periodically inspected by the Superintendent and appropriate maintenance measures taken. Damaged or unserviceable parts shall be replaced without delay"

(2) Inspection of the miscellaneous facilities shall be made at the same time that inspection of the other features of the project are made, and shall be reported on check list No. 3, sheet No. 4 of EXHIBIT E.

(3) The interest of the Corps of Engineers and the responsibility of the local interests in the existing highway and railroad bridges is confined to their effect on the safety and functioning of the flood-control channel, but any conditions noted in the inspections that may affect them in any way should, as a matter of courtesy, be brought to the attention of the agencies maintaining and operating them. If the inspection of any miscellaneous structure, either existent or constructed in the future under permit, discloses any condition that indicates the probability of failure during periods of high water, the Superintendent shall address a letter to the owner of the structure, quoting this manual as authority and inviting attention to the conditions observed and requesting that immediate steps be taken to correct them. A copy of such letter shall be forwarded to the District Engineer for his information. A report on the action taken by the owner shall be submitted to the District Engineer to accompany the next semi-annual report under provisions of paragraph 3-03c of the Standard Manual. A suggested report form is included as EXHIBIT G of this manual.

(4) The purpose of maintenance work is to insure continuous satisfactory operation of equipment. It is, therefore, important in such work that all possible causes of future trouble be found and corrected. Particular attention should be given to minor weaknesses which may be an indication of future trouble.

c. Operation. - Requirements of the Code of Federal regulations. Flood-Control Regulations, paragraph 208.10 (h)(2) are quoted as follows:

"(2) Operation. Miscellaneous facilities shall be operated to prevent or reduce flooding during periods of high water. Those facilities constructed as a part of the protective works shall not be used for purposes other than flood protection without approval of the District Engineer unless designed therefor."

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. *

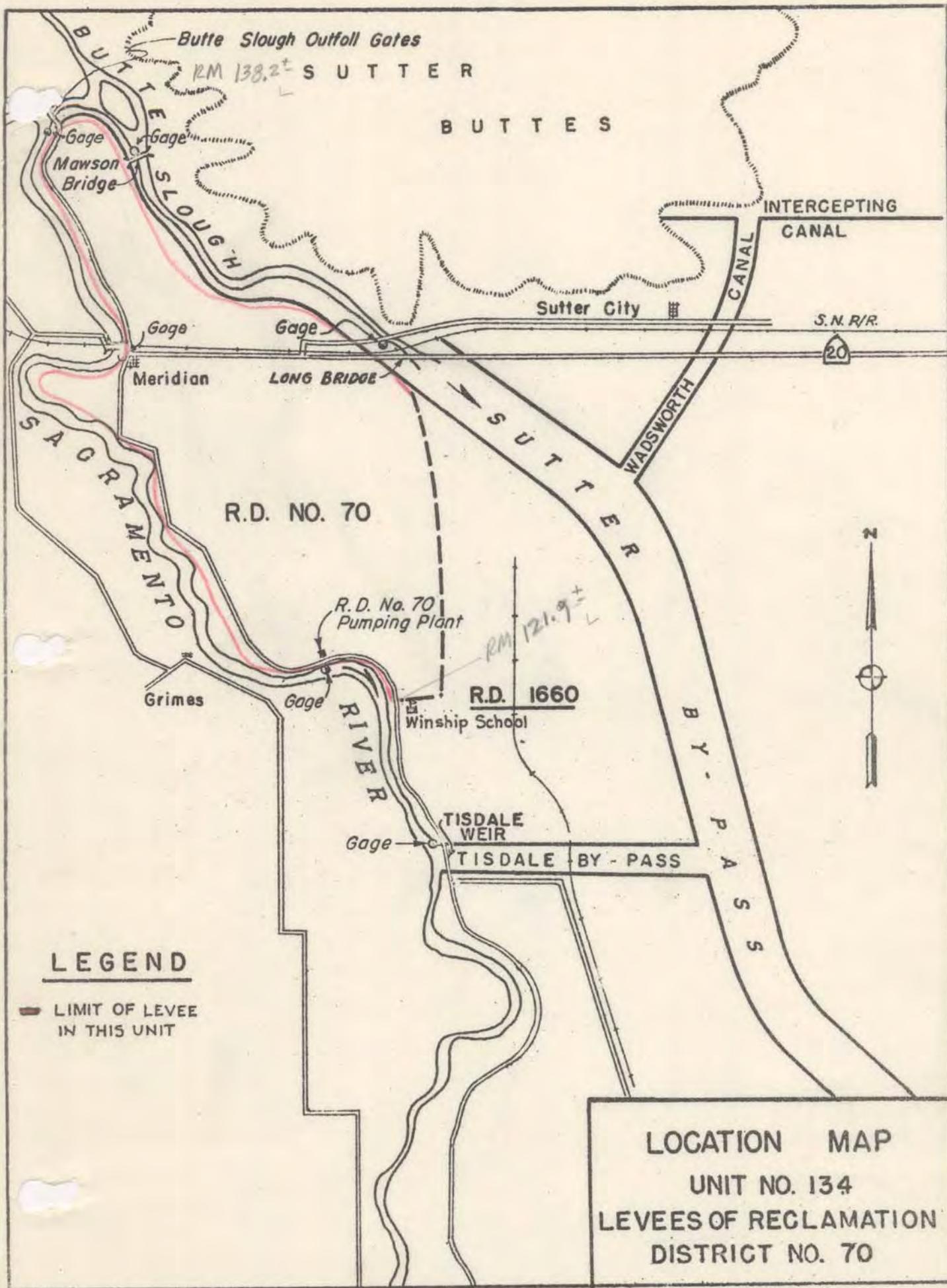
b. Consistent with the standards established in this manual and those established by the State of California, all wild growth, including but not limited to, trees, shrubs and other vegetation within those project areas where environmental easements have been obtained by local interests shall be preserved and retained. (Reference Site Mile 137.5, 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 whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the State Division of Water Resources 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 V of the Standard Manual, where the subject is fully covered.

EXHIBIT A
FLOOD-CONTROL REGULATIONS
(See Standard Manual)



LEGEND

— LIMIT OF LEVEE
IN THIS UNIT

LOCATION MAP
UNIT NO. 134
LEVEES OF RECLAMATION
DISTRICT NO. 70

EXHIBIT B
"AS CONSTRUCTED"
DRAWINGS

See separate folder for the following drawings:

<u>DRAWING NO.</u>	<u>TITLE</u>
50-4-1831	Sacramento River - Work at Yates from Mile 129.8 to 131.0L. Sheet 1
50-4-1818-1	West Levee of Sutter Bypass from Butte Slough Outfall Gates to Longbridge. Sheets 1 to 4, inclusive ✓
50-4-1791	Repair of Levee Break District No. 70, sheets 1 and 2
50-4-1819-2	West Levee Sutter Bypass from Longbridge Southerly 5.3 miles sheet 1
50-4-2287	East Levee of Sacramento River from Meridian Bridge to Tisdale Weir, Sheets 1 to 4, inclusive
50-4-2369	Sacramento River Revetment Repairs Girdner Bend - Mi. 126.0L. 1 sheet.
50-4-2545	Sacramento River Levee Setbacks and Bank Protection - Mile 132.7 to 143.7. Sheets 2, 3, and 6.
50-4-2614	Sacramento River Levee Setbacks and Bank Protection - Mile 102.5 to 133.8. Sheets 6, 7, 8 and 11.

Additional drawings of cross-sections, structures, and miscellaneous facilities are available in the Office of The District Engineer.

50-4-3754	Bank Protection, Right and Left Banks Sacramento River at Various Locations between Colusa and Boyers Bend, in 22 sheets. (Unit No. 4).
50-4-4004	Bank Protection, Various Locations, Right and Left Banks Sacramento River and Bear River and Right Bank Feather River, in 33 sheets (Unit No. 8).
50-4-4179	Bank Protection, Various Locations, Right and Left Banks, Sacramento River and Elder Creek, in 20 sheets
50-4-4339	Bank Protection, Various Locations, Right and Left Banks, Sacramento River between Colusa and Boyers Bend, in 32 sheets.
50-4-4586	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 144.0 to Mile 110.0, in 18 sheets.
50-4-4713	Bank Protection, Various Locations, Right and Left Banks, Sacramento River Mile 60.0 to Mile 111.0, in 20 sheets.

over

50
Detached

- 50-4-4777 Bank Protection, Various Locations, Right and Left Banks,
Sacramento River Mile 84.0 to Mile 148.0, in 38 sheets.
- 50-4-5011 Bank Protection, Various Locations, Right and Left Banks,
Sacramento River Mile 111.0 to Mile 143.0, in 38 sheets.
- 50-4-5422 Bypass Levee Revetment, Left Levee, Yolo Bypass, Right Levee
Sutter Bypass, in 5 sheets.
-
- 50-4-5438 Bank Protection, Various Locations, Right and Left Banks,
Sacramento River Mile 110.0 to Mile 184.0, in 33 sheets.
-
- 50-4-5712 Bank Protection, Unit 38A, Right and Left
Banks, Sacramento River Mile 80.0 to Mile
193.0, in 31 sheets.
-

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(See Standard Manual.)

EXHIBIT D

CHECK LIST NO. 1

Levee Inspection Report

(See Standard Manual)

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. 134
LEVEES OF RECLAMATION DISTRICT NO. 70

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 of levees.	
(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.

CHECK LIST NO. 3
CHANNEL AND RIGHT-OF-WAY
UNIT NO. 134

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, or the bridges over the channel.
- Item (d) Report any construction along the channels or above the channels 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. 134

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Location by Station	(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>Westerly Levee of Sutter Bypass</u>							
5475	Right						
142470	Right						
165490	Right						
180450	Right						
189430	Right						
237440	Right						
251430	Right						
332472	Right						
352400	Right						
<u>East Levee of Sacto River</u>							
320400	Left						
330400	Left						
347432	Left						
374487	Left						

CHECK LIST NO. 4
DRAINAGE AND IRRIGATION STRUCTURES
UNIT NO. 134

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Location by Station	(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>Westerly Levee of Sutter Bypass</u>							
5475	Right						
142470	Right						
165490	Right						
180450	Right						
189430	Right						
237440	Right						
251430	Right						
332472	Right						
352400	Right						
<u>East Levee of Sacto River</u>							
320400	Left						
330400	Left						
347432	Left						
374487	Left						

CHECK LIST NO. 4 (Continued)
DRAINAGE AND IRRIGATION STRUCTURES
UNIT NO. 134

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Location by Station	(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
East Levee of Sacto River (continued) 889/72 930/22 1006/60 1007/10 1086/55	Left " " " " " "						

CHECK LIST NO. 4 (Continued)
DRAINAGE AND IRRIGATION STRUCTURES
UNIT NO. 134

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Location by Station	(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
East Levee of Sacto River (continued) 889/72 930/22 1006/60 1007/10 1086/55	Left " " " " " "						

INSTRUCTIONS FOR COMPLETING SHEET 6 & 7 EXHIBIT E

(To be printed on back of sheet 6 & 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

LETTER OF ACCEPTANCE
BY STATE RECLAMATION BOARD

CERTIFIED

December 21, 1987

No. 789725
RETURN RECEIPT REQUESTED

Navigation and Flood Control Unit

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

not

Members of the Board:

This is in regard to the joint inspection of December 1, 1987, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 40A), 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 147.7, 174.0, 176.2, 176.8 and 177.3; and left bank at Site Miles 132.4, 134.8, 135.4, 137.5, 144.7, 156.1, 159.3 and 159.8.

(1145)

12-23
ROMPALA/dc

The work was completed on December 18, 1987, in accordance with Contract Number DACW05-86-C-0095, Specification Number 7875 and Drawing Number 50-4-57

KELLY

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 the Water Resources Development Act of 1986 (PL99-662, October 17, 1986), and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway bank contiguous, thereto, is transferred as of December 21, 1987 to the State of California for operation and maintenance.

A. SMITH

HELM

FAST

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 134, 136, 137 and 140, Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

DENNIS

CZARZASTY

SCHOLL

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

Sincerely,

Wayne J. Schell
Colonel, Corps of Engineers
District Engineer

WANG #8708a

Copies Furnished:

DWR, ATTN: G. Snow
DWR, ATTN: G. Qualley
Commander, South Pacific Division, ATTN: CESP-D
Commander, USACE, ATTN: DAEN-CECW-OM

DEC 21 1987
DISPATCHED
ENGINEERS
SACRAMENTO DIST

*11/17/87
134/136/1
137/140*

Goodnight

MAR 3 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 November 27, 1985 concerning the transfer of a portion of the Sacramento River Bank Protection Project in Contract No. 38A 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 Sites Miles 94.0, 96.6, 127.5, and 128.5, Left Bank, and 80.6 and 99.2, Right Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5712, Specification No. 7053, and Contract No. DACW 05-84-C-0012, insofar as could be determined visually.

The Reclamation Board, at its regular meeting of December 20, 1985, formally accepted the completed work on the above-referenced sites from the District Engineer for operation and maintenance.

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

Sincerely,

Original signed by
Robert L. Manning

for

RAYMOND E. BARSCH
General Manager

bcc: Gene Snow
Robert Bailey

RRGoodnight:pva

*Units 123, 128, 130,
134*

November 27, 1985

Navigation and Flood Control Unit

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 inspection of November 14, 1985 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 38A), 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 left bank at Site Miles 94.0, 96.6, 127.3 and 128.5 and right bank at Site Miles 80.6, 99.2, and 154.6. These sites were completed during the past construction season in accordance with Contract Number DACW03-84-C-0112, Specification Number 7033 and Drawing Number 30-4-5712.

The work was performed under general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (Pl. 86-649, 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 November 20, 1985 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Numbers 123, 128, 130, 134, and 137 Sacramento River Flood Control Project. Copies will be furnished to your office at a later date.

Sincerely,

ROMPALA/jb

KELLY

Wayne J. Scholl
Colonel, Corps of Engineers
District Engineer

HELM

FAST

Copy Furnished:

DWR, ATTN: M. Luttrupp
DWR, ATTN: D. Naixner
Commander, South Pacific Division, ATTN: SPDCO-0
Commander, USACE, ATTN: DAEN-CWO-0

SCHOLL

cc: Flood Control Unit
Div (Civ Des Sec D (Pahl)
Div
F&A Br
Valley Res Ofc
C-O Div

VERES
CAMPBELL
PAHL
FILE

**DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD**

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



DEC 21 1982

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

Dear Colonel Williams:

Reference is made to your letter of November 30, 1982, concerning the transfer to the State of California for operation and maintenance, a portion of the Sacramento River Bank Protection Project, in Unit No. 35.

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 115.3, 118.4, 123.9, 130.5, 134.7, 136.7, 137.2, 137.4, and 140.9 Right Bank, Sacramento River.

Sites Miles 120.7, 126.6, 132.6, and 135.4 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5438, Specification No. 5472, and Contract No. DACW 05-81-C-0036, insofar as could be determined visually.

The Reclamation Board at its regular meeting of December 17, 1982, formally accepted from the District Engineer, for operation and maintenance, the completed work on the above-referenced sites.

Sincerely,


ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Unit 130, 131, 133, 134





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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

30 November 1982

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

Gentlemen:

This is in regard to the joint inspection of 23 November 1982 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 35), 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 right bank at Site Miles 115.3, 118.4, 123.9, 130.5, 134.7, 136.7, 137.2, 137.4 and 140.9 and left bank at Site Miles 120.7, 126.6, 132.6 and 135.4. The sites were completed on 18 November 1982 in accordance with Contract No. DACW05-81-C-0036, Specification No. 5472 and Drawing No. 50-4-5438.

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 23 November 1982 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 130, 131, 133 and 134, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

HENRY LEE
Lieutenant Colonel, CE
Acting District Engineer

Copy furnished:
DWR, ATTN: M. Luttropp
BWR, ATTN: D. Meixner

EXHIBIT F

DEPARTMENT OF WATER RESOURCES
THE RECLAMATION BOARD

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



DEC 31 1981

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

Dear Colonel Kavanaugh:

Reference is made to your letter of December 15, 1981, concerning the transfer to the State of California for operation and maintenance, a portion of the Sacramento River Bank Protection Project, in Unit No. 35.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 146.0 and 154.7 Right Bank and Sites Miles 137.3, 142.2 and 159.6 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5438, Specification No. 5472, and Contract No. DACW 05-81-C-0036, insofar as could be determined visually.

The Reclamation Board at its regular meeting of December 18, 1981, formally accepted from the District Engineer, for operation and maintenance, the completed work on the above-referenced sites.

Sincerely,

David B. Anderson

FOR
ELDON E. RINEHART
General Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

*By cert to
Nolan 7/2/82
Talley
Unit 137
137*





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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

15 December 1981

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

Members of the Board:

This is in regard to the joint inspection of 10 December 1981, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit 35), 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 right bank at Site Miles 146.0 and 154.7 and left bank at Site Miles 137.3, 142.2 and 159.6. The sites described in the inclosure were completed on 10 December 1981 in accordance with Contract No. DACW05-81-C-0036, Specification No. 5472 and Drawing No. 50-4-5438.

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 15 December 1981 to the State of California for operation and maintenance.

This portion of the work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 134, 136 and 137 Sacramento River Flood Control Project. Copies will be furnished your Board at a later date.

Sincerely,

1 Incl
As stated

PAUL F. KAVANAUGH
Colonel, CE
District Engineer

Copy furnished: w/Incl
DWR, ATTN: M. Luttrupp and D. Meixner

EXHIBIT F

SUMMARY OF SACRAMENTO RIVER
BANK PROTECTION PROJECT
PORTION OF UNIT 35
SACRAMENTO RIVER

<u>SITE MILE</u>	<u>STATION</u>	<u>STONE PROTECTION L.F.</u>
137.3 left bank	22+00 to 31+00	900
142.2 left bank	14+00 to 22+50	850
159.6 left bank	0+00 to 12+00	1200
146.0 right bank	-0+50 to 22+00	2250
154.7 right bank	16+00 to 22+00	600

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THE RECLAMATION BOARD
STATE OF CALIFORNIA

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December 7, 1977

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:

At its regular meeting of November 29, 1977, The Reclamation Board formally accepted from the District Engineer the completed flood control work on a portion of the Sacramento River Major and Minor Tributaries Project. The flood control work was transferred to the State of California by your letter of November 21, 1977.

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 1 located on the right bank levee of Sutter Bypass at Decker Road, Site 2 on the east levee of Yolo Bypass about 400 feet north of I-80 bridge and Site 3, 2,100 feet south of I-80 bridge.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5422, Specification No. 5383, and Contract No. DACW 05-77-C-0094, insofar as could be determined visually.

Sincerely,

/s/ Paul L. Clifton
PAUL L. CLIFTON
General Manager

EXHIBIT F

SPKCO-0

21 November 1977

File

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

Gentlemen:

Reference is made to the joint inspection of 17 November 1977, made for the purpose of transferring three completed rock revetment sites to the State of California for operation and maintenance. This work consists of two sites on the Yolo Bypass east levee and one site on the Sutter Bypass west levee (Butte Slough), as described on the inclosure. The work was constructed as part of the Sacramento River major and Minor Tributaries Flood Control Project and completed on 17 November 1977, in accordance with Specification No. 5383, Contract No. DACW05-77-C-0094, Drawing No. 50-4-5422.

ROMP/ALA/mm/RI

MCBRIDE

The work was performed under the general authority of the Flood Control Act of 22 December 1944 (Public Law 534, 78th Congress, 2nd Session), as amended and now meets the requirements of the Sacramento River Major and Minor Tributaries Flood Control Project. Therefore, said work, together with waterway banks contiguous thereto, is transferred as of 17 November 1977 to the State of California for operation and maintenance.

SMITH

HENSON

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 116 and 134, Sacramento River Flood Control Project, and furnished to your office at a later date.

PROBASCO

Sincerely yours,

O'SHEI

DONALD M. O'SHEI
Colonel, CE
District Engineer

Units 116, 134

cc: Engr Div (Lev & Chan)
Engr Div (Prog Dev)
Valley Res Ofc (2)
F&A (Kalal)
Flood Control

1 Incl
As stated

Copy furnished:
DWR, ATTN: R. Franson

OCE
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STATE OF CALIFORNIA
THE RECLAMATION BOARD

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August 25, 1977

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 August 23, 1977, formally accepted from the District Engineer the completed flood control work on a portion of Unit No. 29 of the Sacramento River Bank Protection Project. The flood control work was transferred to the State of California by your letter of August 11, 1977.

The flood control work consisted of selective clearing, bank sloping, placement of stone bank protection, and such miscellaneous work as necessary to complete the construction at Sites Miles 114.8, 119.8, 120.3, 121.5, 121.7, 122.3, 122.4, 123.3, 125.0, 125.6, 128.6, 135.0 and 137.5 Left Bank, Sacramento River.

The work was constructed in a workmanlike manner and in conformance with Drawing No. 50-4-5011, Specification No. 4833, and Contract No. DACW 05-76-C-0084, insofar as could be determined visually.

Sincerely,

/s/ Paul L. Clifton
PAUL L. CLIFTON
General Manager

EXHIBIT F

11 August 1977

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

done

Gentlemen:

Reference is made to the joint inspection of 9 August 1977, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project (Unit No. 29) 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 114.8, 119.8, 120.3, 121.5, 121.7, 122.3, 122.4, 123.3, 125.0, 125.6, 128.6, 135.0, and 137.5. The sites, as listed on the inclosure, were completed on 9 August 1977 in accordance with Specification No. 4833, Contract No. DACW05-76-C-0084, Drawing No. 50-4-5011.

The work was performed under the general authority of the Flood Control Act of 1960, 86th Congress, 2nd Session (PL 86-645, 14 July 1960), and Section 2304(a), Title 10, and now meets the requirements of the Sacramento River Bank Protection Project. Therefore, said work together with the waterway banks contiguous thereto, is transferred as of 10 August 1977 to the State of California for operation and maintenance.

jr
ROMPALA/sip
RI *PH*
M. P. O'Connell

This ^{part} of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 128, 133, and 134, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

AS
A. SMITH

HESS
HESS

Sincerely yours,

DONALD M. O'SHEI
Colonel, CE
District Engineer

PROBASSO
PROBASSO

O'SHEI
hampel

X 1 Incl
As stated

Copy furnished:
X DWR, ATTN: R. Franson & Robert Potter

X OCE
X SPD

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

*MM 75 1281
133, 134*

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT - ^{SR} PROTION OF UNIT 29
 SACRAMENTO RIVER LEFT BANK

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>
114.8	18+50 to 30+40	1190
119.8	34+60 to 42+40	780
120.3	6+40 to 11+00	460
121.5	90+00 to 96+20	620
*121.7	73+20 to 83+50	1030
122.3	43+50 to 49+50	600
122.4	36+90 to 38+80	190
123.3	45+25 to 56+25	1100
125.0	34+00 to 40+40	640
125.6	5+00 to 8+50	350
128.6	48+60 to 60+10	1150
135.0	142+30 to 150+90	860
137.5	13+60 to 16+60	<u>300</u>

* 50' Deleted at Downstream End of Site

10 AUG 77
 Units 128, 133, 134

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THE RECLAMATION BOARD
STATE OF CALIFORNIA

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July 9, 1974

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

Refer to: 4130.20.306

Dear Sir:

The Reclamation Board at its regular meeting of June 28, 1974, formally accepted a portion of the completed flood control work on Unit No. 26 of the Sacramento River Bank Protection Project from the District Engineer for operation and maintenance. The flood control work was transferred to The Reclamation Board by your letter of June 20, 1974.

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 Sites Miles 114.4, 118.4, 120.1, 134.7, 136.1, 142.7, 145.0, and 147.3 Left Bank, Sacramento River.

The flood control work was constructed in a workmanlike maner and in conformance with Drawing No. 50-4-4777, Specification No. 4251, and Contract No. DACW05-73-C-0059, insofar as could be determined visually.

Sincerely yours,

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

SPKCO-0

20 June 1974



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

Gentlemen:

Reference is made to the joint inspection of 3 June 1974, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit No. 26), to the State of California for operation and maintenance. This portion of the flood control work consists of levee and bank sloping, and placement of stone bank protection on the Sacramento River left bank at Site Miles 114.4, 118.4, 120.1, 134.7, 136.1, 142.7, 145.0 and 147.3. The sites, as listed on the enclosure, were completed on 3 June 1974 in accordance with Specification No. 4251, Contract No. DACW05-73-C-0059, Drawing No. 50-4-4777.

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 20 June 1974 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 Nos. 128, 133, 134 and 136 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

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

done

*Units 128,
133, 134 &
136*

ROMPALA/d
Redac

COLEMAN
HENSON

McKINSLEY

POTAMOS

ROCKWELL

y

Valley Res Ofc
F & A (Jones)

Engr (Lev & Chan)
Engr (Prog Dev)

cc: Copy furnished:
DWR, ATTN: JOHN WRIGHT

OCE
SPD

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

SUMMARY OF PORTION OF SACRAMENTO RIVER
BANK PROTECTION UNIT NO. 26
SACRAMENTO RIVER LEFT BANK

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>
114.4	30+00 to 36+15	615
118.4	21+10 to 23+50	240
120.1	20+00 to 24+00	400
134.7	158+40 to 161+00	260
136.1	86+15 to 99+70	1355
142.7	10+00 to 13+65	365
145.0	3+70 to 11+00	730
147.3	36+00 to 44+30	830
		<u>4795</u>

Units 128, 133,
134 + 136

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THE RECLAMATION BOARD
STATE OF CALIFORNIA

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October 1, 1973

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

Refer to: 4130.60.305

Dear Sir:

Reference is made to your letter of September 25, 1973, concerning the transfer of a portion of the Sacramento River Bank Protection Project, Unit No. 22, 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 Site Miles 110.9, 118.6, and 123.9 all on the Left Bank, Sacramento River and 110.8, 123.3, 124.1, 126.5, and 128.0 all on the Right Bank, Sacramento River.

The flood control work has been completed and was constructed in a workmanlike manner. This flood control work has been constructed in conformance with Drawing No. 50-4-4586, Specification No. 3924, and Contract No. DACW05-72-C-0057, insofar as could be determined visually.

The work performed at Site Miles 123.3, 124.1 Right Bank and 123.9 Left Bank differed from your normal standards in that the rock revetment was terminated at Elevation 45.0 rather than at the top of the berm. It is the Reclamation Board's understanding, in accordance with Mr. Weddell's letter of November 29, 1972, that these sites are considered experimental and if found to be unsuccessful within a five (5) year period, the Corps of Engineers will complete the work to an acceptable standard.

The Reclamation Board, at its regular meeting of September 28, 1973, formally accepted for operation and maintenance the completed flood control work on the above referenced sites, based on the above understanding.

Sincerely yours,

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

EXHIBIT F

25 September 1973

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

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 22), to the State of California for operation and maintenance. This portion of flood control work consists of levees sloping and the placement of stone bank protection on the Sacramento River left bank at Site Miles 110.9, 118.6 and 123.9 and right bank at Site Miles 110.8, 123.3, 124.1, 126.5 and 128.0. The sites, as listed on the inclosure, were completed on 24 September 1973 in accordance with Specification No. 3924, Contract No. DACW05-72-C-0057, Drawing No. 58-4-4586.

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 25 September 1973 to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 128, 130, 131, ~~132~~, and 134, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely,

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

1 Incl
As stated

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

Valley Res Ofc
F & A (Jones)

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

ROMPALA/d
Redac

COLEMAN

HENSON

McKINSEY

POT

WELL

Units
128, 130, 131,
131

Copies to
Ldc - Estabone
24 Sept

SUMMARY OF PORTION OF
SACRAMENTO RIVER BANK PROTECTION
UNIT NO. 22 SACRAMENTO RIVER

Left Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>	<u>Stone Toe Wall</u>	<u>L.F.</u>
110.9	117+00 to 120+00	300		
118.6	12+00 to 18+50	650		
123.9	10+00 to 41+50	3150	10+40 to 16+50	610
		<u>4100</u>	17+50 to 24+50	700
			25+50 to 41+30	15+80

Right Bank

<u>Site Mile</u>	<u>Stone Protection</u>	<u>L.F.</u>	<u>Stone Toe Wall</u>	<u>L.F.</u>
110.8	7+10 to 14+00	690	7+46 to 14+00	654
123.3	11+00 to 34+00	2300	11+00 to 34+00	2300
124.1	3+00 to 12+00	900	3+00 to 4+50	150
			5+50 to 10+00	450
126.5	4+00 to 12+00	800		
128.0	11+00 to 15+00	400		
		<u>5090</u>		

Units 128, 130, 131, 134

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THE RECLAMATION BOARD
STATE OF CALIFORNIA

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January 16, 1973

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

Refer to: 4130.60.305

Dear Sir:

Reference is made to your letter of December 29, 1972, concerning the transfer to the State of California, for maintenance and operation, a portion of the Sacramento River Bank Protection Project, Unit No. 22.

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 143.8 Right, 142.4 Left, 140.3 Left, 138.5 Left and 138.2 Left, 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. 50-4-4586, Specification No. 3924, and Contract No. DACW72-C-0057, insofar as could be determined visually.

The Reclamation Board at its regular meeting of January 12, 1973, 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

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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
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Y

January 15, 1973

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

Refer to: 4130.60.206

Dear Sir:

Reference is made to your letter of December 28, 1972, concerning the transfer to the State of California, for maintenance and operation, a portion of the Sacramento River Bank Protection Project, Unit No. 24.

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 Site Mile 130.0 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. 50-4-4713, Specification No. 4169, and Contract No. DACW73-C-0038, insofar as could be determined visually.

The Reclamation Board at its regular meeting of January 12, 1973, formally accepted from the District Engineer for operation and maintenance, the completed work on the above referenced site.

Sincerely yours,

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

Clark file
DISTRICT ENGINEER
SACRAMENTO
CALIFORNIA
29 December 1972

SPKCO-0

29 December 1972

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

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 22), to the State of California for operation and maintenance. This portion of flood control work consists of levee construction, bank sloping and the placement of stone bank protection on the Sacramento River right bank at Site Mile 143.8 and left bank at Site Miles 142.4, 140.3, 138.5 & 138.2. See Attached list for lineal footage and stationing. The sites were completed on 18 December 1972 in accordance with Specification No. 3924, Contract No. DACW05-72-C-0057, Drawing No. 50-4-4586.

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 29 December 1972 to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 134, ~~136~~ and ~~137~~ 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
as stated

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

~~OCE~~
~~SPD~~

cc: ~~Engr Div-Lev & Chan/Engr Div-Prog Dev~~
~~F&A, Valley Res Ofc~~

ROMPALA/pp

COLEMAN

HENSON

MCKINSEY

DONOVAN

Units 134, 136

Copy to A. Huber 23 Jan 73

[Handwritten signature]

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION
UNIT 22, SACRAMENTO RIVER

RIGHT BANK

<u>SITE MILE</u>	<u>LEVEE CONSTRUCTION</u>	<u>L.F.</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TOE WALL</u>	<u>L.F.</u>
143.8	21+00 to 26+00	500	7+20 to 35+00	2780	7+20 to 11+50	430
			0+00 to 1+20	120	16+50 to 22+00	550

LEFT BANK

142.4			0+00 to 11+01BK	1101	2+68 to 11+01BK	833
			11+02AH to 15+80	478	11+02AH to 15+00	398
140.3			21+60 to 33+60	1200		
138.5			118+70 to 132+35	1365		
134 138.2			145+40 to 149+00	360	145+40 to 148+50	310

136

134

SFRCO-0

28 December 1972



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

Gentlemen:

The purpose of this letter is to officially transfer a portion of the Sacramento River Bank Protection Project (Unit No. 24), to the State of California for operation and maintenance. This portion of flood control work consists of bank sloping and the placement of approximately 450 feet of stone protection along the Sacramento River left bank at site mile 130.0. The site was completed on 18 December 1972 in accordance with Specification No. 4169, Contract No. DACW05-73-C-0038, Drawing No. 50-4-4713.

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 28 December 1972 to the State of California for operation and maintenance.

This portion of the project will be added by amendment to the Operation and Maintenance Manual, Supplement No. 134 Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES C. DONOVAN
Colonel, CE
District Engineer

RC
ROMPALA/P

RC
COLEMAN

MB
HENSON

MB
MCKINSEY

DONOVAN

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

OCE ✓
SPD ✓

cc:
✓ Engr Div-Lev&Chan; ✓ Engr Div-Prog Dev;
✓ F&A (Jones); ✓ Valley Res Ofc ✓

Unit 134

Copy to Auburn & Fiber 4 Jan 73.

C
O
P
Y

THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
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Y

December 31, 1971

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

Refer to: 4130.60.304

Dear Sir:

Reference is made to Unit No. 17 of the Sacramento River Bank Protection Project, with special reference to the transferring of a portion of the above project to the State of California for operation and maintenance.

The completed work on Unit No. 17 was constructed in accordance with Specification No. 3406, Contract No. DACW05-70-C-0049, Drawing No. 50-4-4339.

The Reclamation Board at its regular meeting of December 17, 1971, formally accepted from the District Engineer the above-referenced project for operation and maintenance. At the same meeting the Reclamation Board transferred the following sites to the maintaining agencies for operation and maintenance.

Sacramento River West Side Levee District

Site Miles 112.3, 121.1, 123.1, 124.7, 125.1, 127.1, 130.7,
132.7, 141.7 and 142.6 Right Bank Sacramento River

Reclamation District No. 70

Site Mile 126.0 Left Bank Sacramento River

Reclamation District No. 1500

Site Miles 116.4 and 117.3 Left Bank Sacramento River

Statutory Maintenance Area (DWR)

Site Mile 138.5 Left Bank Sacramento River

Sincerely yours,

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

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
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P
Y

December 17, 1970

File No: 4130.60.304
Your contract 70-C-0049

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

Dear Sir:

Reference is made to your letter of November 16, 1970, concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project (Unit No. 17) for maintenance and operation. The transferred sites were as follows:

Sacramento River

Mile 114.3, Left Bank
Mile 117.7, Left Bank
Mile 123.0, Left Bank
Mile 125.3, Left Bank
Mile 136.6, Left Bank
Mile 140.5, Left Bank

This work was constructed in conformance with specification No. 3406, Contract No. DACW05-70-C-0049, Drawing No. 50-4-4339 and the work to be done on Sacramento River, Left Bank.

The Reclamation Board at its meeting of December 3, 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

SPKCO-0

30 November 1971

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

Gentlemen:

Reference is made to the joint inspection of 23 November 1971, made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #17), to the State of California for operation and maintenance.

The flood control work consists of bank sloping, placement of stone bank protection and levee enlargement on the Sacramento River left bank at Site Miles 116.4, 126.0 & 138.5 and right bank at Site Miles 112.3, 121.1, 123.1, 124.7, 125.1, 127.1, 130.7, 132.7, 141.7 & 142.6. A list covering the completed work is inclosed. The work was completed on 23 November 1971 in accordance with Specification No. 3406, Contract No. DACW05-70-C-0049, Drawing No. 50-4-4339.

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 23 November 1971, to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 128, 130, 131, 134 & 136, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JAMES G. DONOVAN
Colonel, CE
District Engineer

1 Incl
as stated

Copy furnished:
DWR, ATTN: John Wright

DAEN-CWO
SPD

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

ROMPALA/p

COLEMAN

HEMSON

DONOVAN

*Units 128, 130,
131, 134, 136*

Copies to Goodnight, Adams & Hiler 200271

SUMMARY OF PORTION OF SACRAMENTO RIVER BANK PROTECTION PROJECT, UNIT 17,
SACRAMENTO RIVER

RIGHT BANK:

<u>SITE MILE</u>	<u>STONE PROTECTION</u>	<u>L.F.</u>	<u>STONE TOEWALL</u>	<u>L.F.</u>	<u>LEVEE ENLARGEMENT</u>	<u>L.F.</u>
112.3	17+00 to 23+00	600	20+60 to 23+00	240		
121.1	0+00 to 7+00	700				
123.1	0+00 to 11+13	1113	0+00 to 1+22	122		
124.7	35+00 to 50+50	1550	47+75 to 49+00	125		
125.1	20+62 to 27+00	638	21+00 to 27+22	600		
127.1	2+00 to 5+50	350				
130.7	9+00 to 12+52	352	10+85 to 12+52	167		
132.7	0+00 to 23+00	2300	3+68 to 5+75	207	0+00 to 23+00	2300
141.7	85+00 to 95+35	1035	93+30 to 95+35	205		
142.6	40+70 to 52+82	1212	42+35 to 50+75	840		

9850

LEFT BANK:

116.4	65+15 to 74+94	979				
126.0	0+00 to 5+80	580	1+27 to 3+48	221	3+00 to 5+80	280
138.5	107+72 to 118+00	1028			107+00 to 117+00	1000

2587

Total 12,437

Units 12, 8, 130, 131,
134, 136

SPKCO-0

16 November 1970



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

Gentlemen:

Reference is made to the joint inspection of 23 September 1970 made for the purpose of transferring a portion of the Sacramento River Bank Protection Project Work (Unit #17) to the State of California for operation and maintenance.

The flood control work consisting of levee setback, bank sloping and placement of stone bank protection on the Sacramento River left bank at Site Miles 114.3, 117.3, 117.7, 123.0, 125.3, 136.6 & 140.5, is listed on the inclosure. The work was completed on 4 November 1970 in accordance with Specification No. 3406, Contract No. DACW057D-C-0049, Drawing No. 50-4-4339.

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 November 1970 to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplements Nos. 128 & 134, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

JK
ROMPALA/p

MB
COLEMAN

MB
HENSON

JK
HART

JK
DONOVAN

1 Incl (in dupe)
as stated

JAMES C. DONOVAN
Colonel, CE
District Engineer

Units 128, 134

Copy furnished:
DWR, AFEM: John Wright
OCE
SPD

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

*copy to
also
1 pack
28 Nov 70*

70-10

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION
PORTION OF UNIT #17, SACRAMENTO RIVER LEFT BANK

<u>SITE MILE</u>	<u>LEVEE SETBACK STATION</u>	<u>L.F.</u>	<u>STONE PROTECTION STATION</u>	<u>L.F.</u>	<u>STONE TOE WALL STATION</u>	<u>L.F.</u>
114.3			36+00 to 46+50	1050	41+35 to 41+64	29
117.3			16+50 to 31+00	1450		
117.7			0+00 to 10+49 0+00A to 4+00A	1049 400	0+00 to 0+80	80
123.0			0+00 to 3+25	325	0+00 to 1+80 2+75 to 3+25	180 50
125.3	17+00 to 34+00	1700	17+40 to 32+67	1527		
136.6			50+02 to 61+50	1148	50+02 to 53+00	298
140.5			15+12 to 22+00	688		

Units 128, 134

C
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The Reclamation Board
State of California

C
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DEC 24 1968
4130.60.303

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

Dear Sir:

Reference is made to your letter of November 21, 1968 concerning transfer to the State of California of a portion of the Sacramento River Bank Protection Project, Unit 13, specifically Site Mile 137.67, left bank, Sacramento River for maintenance and operation.

The work was constructed in accordance with Specification No. 3369, Contract No. DACW05-68-C-0067, Drawing No. 50-4-4179.

The Reclamation Board, at its meeting of December 20, 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

THE RECLAMATION BOARD

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



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

FEB 20 1967

Refer to: 4130.60.301

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

Dear Sir:

Reference is made to your letter of October 26, 1965 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 4, Sites Mile 142.65, 118.70, 112.30 (3 sites), right bank and 142.95, 130.22, 128.80, 126.80, 125.15, 117.95, 113.30, left bank, in accordance with Specification No. 3024.

The Reclamation Board, at its meeting of February 16, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A. E. McCollam

A. E. McCOLLAM
General Manager

JHMacC:pa

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

*Units 128, 130, 131, 133,
134, 136*

*COPIES TO ENR & VANCIVY.
7 MAR 67 JK.*

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23 November 1966

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

Gentlemen:

Reference is made to the joint inspection of 18 November 1966, made for the purpose of transferring a portion of the Sacramento River Bank Protection work, upon completion, to the State of California for operation and maintenance.

The flood control work consisting of bank sloping, levee setback and placement of bank protection on Sacramento River left bank at Site Miles 112.6, 114.2, 114.8, 117.5, 124.3 and 137.8, as listed on the attached inclosure, was completed on 18 November 1966. The work was done in accordance with Specification No. 3154, Contract No. DA-04-167-CIVENG-66-50, Drawing No. 50-4-4004.

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, Supplements Nos. 128 & 134, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG
Colonel, CE
District Engineer

EXHIBIT F

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT
SACRAMENTO RIVER LEFT BANK

<u>LEVEE UNIT SITE MILE</u>	<u>BANK SLOPING</u>	<u>LINEAL FEET</u>	<u>STONE PROTECTION</u>	<u>LINEAL FEET</u>	<u>LEVEE SETBACK</u>	<u>LINEAL FEET</u>
112.6	25+00to44+00	1900	25+00to44+00	1900		
114.2	46+50to49+00	250	46+50to49+00	250		
114.8	11+50to19+00	750	11+50to19+00	750		
117.5			3+00to17+50	1450	2+00to18+00	1600
124.3	0+00to11+00	1100	0+00to11+00	1100		
137.8	0+15to3+00	285	0+15to3+00	285		

THE RECLAMATION BOARD

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

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

Handwritten notes:
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1/10/66

Handwritten notes:
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DEC 9 1966
Refer to: 4130.60.302
Contract No. 66-50

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

Dear Sir:

Reference is made to your letter of November 23, 1966 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 8, Sites Mile 112.6, 114.2, 114.8, 117.5, 124.3 and 137.8, left bank, in accordance with Specification No. 3154.

The Reclamation Board, at its meeting of December 1, 1966, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

JHMacC:pa

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Units 128, 134

July 66
change
addition

C
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Y

SPKKO-F

26 October 1965

C
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P
Y

The Reclamation Board
State of California
1416 Ninth Street, Room 1335
Sacramento, California

Gentlemen:

Reference is made to the joint inspection made on 22 & 23 September 1965, 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. 4, consisting of levee enlargement, levee setback, shaping and placement of bank protection at 11 locations from Colusa to Boyers Bend right and left banks as listed on the attached inclosure, was completed on 20 October 1965, in accordance with Specification No. 3024, Contract No. DA-04-167-CIVENG-65-15 and Drawing No. 50-4-3754.

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 works, 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 No. 128, 130, 131, 133, 134 and 136, Sacramento River Flood Control Project, and furnished your office at a later date.

Sincerely yours,

ROBERT E. MATHE
Colonel, CE
District Engineer

EXHIBIT F

REGISTERED

RETURN RECEIPT REQUESTED

30 NOV 1956

SPKHO-P 121.3 (Sac. Riv. F.C.P.)

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

Gentlemen:

Reference is made to the District Engineer's letter dated 5 November 1956 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 7 November 1956.

The required work on the levee sections referred to above was completed on 17 November 1956 in accordance with Specification No. 2006, Contract No. DA-01-167-DIVM-56-196 and Drawings Nos. 50-l-3058, 50-l-3059, 50-l-3062 and 50-l-3065. These levee sections on the Sacramento River are listed as follows:

<u>Levee Section No.</u>	<u>Location No.</u>	<u>Drawing File No.</u>	<u>River Mile Points</u>	<u>Right or Left Bank</u>
187	A	50-l-3059	102.0 to 107.1	Right } 130
188	B	50-l-3059	107.1 to 108.9	Right } 128
189	C	50-l-3062	110.1 to 110.9	Left } 134
190	D	50-l-3058	122.1 to 123.1	Left } 134

The levee sections, Nos. 187 to 190 inclusive, described above, now meet the requirements of the Sacramento River Flood Control Project, therefore said levee sections, together with the veterinary banks contiguous thereto are hereby transferred to the State of California for operation and maintenance.

REGISTERED

RETURN RECEIPT REQUESTED

Cont. 56-196 Postcard

497-490

W. B. HARGRAVES

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

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

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

Sincerely yours,

A. E. McCOLLAM
Colonel, CE
District Engineer

1 Incl.
1. F.C. Reg.

Copy furnished:
Dept. of Water Resources
Sacramento, Calif. w/o incl.
OCS w/o incl.
So. Pac. Divn. Engr. w/o incl.

cc: Engr Div w/o incl.
Northern Area Ofc w/o incl.
W. B. Hargraves w/o incl.



REGISTERED MAIL
Return Receipt
Requested

8/15/52

SPKKO-P 824.3(Sac. R. FCP)

15 AUG 1952

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

Gentlemen:

Reference is made to District Engineer letter dated 9 July 1952, wherein it was suggested that a joint inspection be made for the purpose of transferring to the jurisdiction of the State of California, when completed, various levee units of the Sacramento River Flood Control Project. Reference is also made to the joint inspection of these units of work which was made on 15 July 1952.

347

In accordance with the above, you are hereby advised that Part "C" of Specification No. 1636, Drawing No. 50-4-2897, located on the easterly bank of the Sacramento River, from Mile 136.9 to Mile 137.9, was completed on 11 August 1952. This levee unit forms an integral part of the Sacramento River Flood Control Project and meets with the requirements of the project. Therefore, said levee unit, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for operation and maintenance.

824.3 (Sac. R. FCP) SMC

It is to be noted that the sections of levee listed below, are sections joining the levee unit referred to above and include portions of levee on which patrol roads were recently constructed under Part "C" of Specification No. 1636, which were previously transferred to the State of California for operation and maintenance:

a. Easterly levee along the Sacramento River

- (1) From Meridian Bridge, Mile 134.0 to Mile 136.9, opposite Steidelmeyer's pump. Transferred by letter dated 8 December 1951.

Levee Section 347 Unit 134
Letter No 36

71



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

- (2) From Marty's pump Mile 137.9 to Butte Slough out-fall gates, Mile 138.2. Transferred by letter dated 8 December 1951. 134

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

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

FOR THE DISTRICT ENGINEER:

Copy furnished:
State Engineer
Dept. of Public Works
1120 "N" Street
Sacramento, California

Sincerely yours,

Earl G. Peacock
Lt. Col., Corps of Engineers
Executive Officer

- cc: Office C of E
- So. Pac. Div. Eng.
- Sacto Field Office
- Eng. Div.
- C. de Arrieta

Concurrences	
Originator	<i>C. de A</i>
Date:	15 Aug. 1952
Exec. O	3 <i>P</i>
Chief	
Asst.	2 <i>B</i>
Chf. Tech	
Asst.	
Manag.	
Office	
Svce.	
Oper.	<i>JRM</i>
Eng'g	
R. E.	
Flsc.	
Pers.	
Legal	
Supply	

72

(Handwritten mark)

This copy was furnished on 24 Feb. 1953 B. de 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)

= 331

(89-A)

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

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

8 8 Dec. 1951

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

Maintained as Maintenance
Area No. 1.

(51) (52) (53) (54) (55) (56) (57)

8 Do

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

Maintained by State
Separate completed contracts.

(58) (59) (60) (61) (62) (63)

8 Do

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

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

(64) (65) (66) (67) (68) (69) (70)

8 Do

West levee, Sutter By-pass*

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

(71) (72) (73)

8 Do

North levee Tisdale
By-pass†

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

(74)

8 Do

South levee Tisdale
By-pass†

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

(75)

8 Do

East levee Sutter
By-pass*.

Maintained by State.

(76)

9 Do

W. levee Sacramento River
Mile 35.15 to 35.86.

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

(81)

Accepted Items

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

Accepted
Items

5

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

(21)

4

Accepted
Items

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

12 8 Dec. 1951

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

a. Junction Miner and Sutter Sloughs westerly 5000 feet.

b. From State Highway Bridge West. 3035 ft.

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

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

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

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

Covered by letter dated 16 Nov. 1951

321 → (32) (79A) ✓

303 Covered by letter dated

(53A) ✓

304 17 Nov. 1951

(54A) ✓

(23)

(50)

*No waterway banks contiguous to these levees.

REGISTERED MAIL
Return Receipt
Requested

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

8 DEC 1951

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

824.3(SAC.R.FCP)SPK

Gentlemen:

Reference is made to your letter of 4 May 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. Westerly levee of the Sacramento River.

- 51 (1) Mile 163.8 (Princeton) to Mile 155.3. 137
- 52 (2) Mile 155.3 to Mile 154.3.
- 53 (3) Mile 154.3 to Mile 152.1.
- 54 (4) Mile 152.1 to Mile 151.3.
- 55 (5) Mile 151.3 to Mile 146.4.
- 56 (6) Mile 146.1 to Upstream outskirts of Colusa.
- 57 (7) Upstream outskirts of Colusa to Mile 143.5 (Colusa Bridge), excepting 320 lin. ft. at Colusa Warehouse Mile 144.2. 137

b. Easterly levee of the Sacramento River.

- 58 (1) Mile 155.3 (Terrill's Landing) to Mile 152.7 (South Line Begg's Ranch). 136

Letter No. 8

Items 51 to 76

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

- 59 (2) Mile 149.9 to Mile 149.7 (Graham's Ranch).
- 60 (3) Mile 149.4 (Farnsworth Pump) to Mile 149.0 (Sailor Bend).
- 61 (4) At Colusa Weir.
- 62 (5) Mile 143.3 (Arnold's) to Mile 140.2.
- 63 (6) Mile 139.3 to Mile 138.2 (Butte Slough Outfall Gates).
- 64 (7) Mile 138.2 (Butte Slough Outfall Gates) to Mile 137.9 (Marty's Pump).
- 65 (8) Mile 136.9 (Opposite Steidelmayer's Pump) to Mile 134.0 (Meridian Bridge).
- 66 (9) Mile 134.0 (Meridian Bridge) to Mile 133.8.
- 67 (10) Mile 133.2 to 132.3.
- 68 (11) Mile 131.8 to Mile 125.9.
- 69 (12) Mile 125.8 to Mile 123.1.
- 70 (13) Mile 122.8 to Mile 122.0.

c. Westerly levee of the Sutter Bypass.

- 71 (1) Butte Slough Outfall Gates to Tisdale Bypass. 133
- 72 (2) Tisdale Bypass to a point 5.8 miles northerly from Sacramento River. 133
- 73 (3) From a point 5.8 miles northerly from Sacramento River to Sacramento River. 133
- 74 d. Northerly levee of Tisdale Bypass. 133
- 75 e. Southerly levee of Tisdale Bypass. 129
- 76 f. Easterly levee of the Sutter Bypass from high ground near Longbridge to Feather River. 135

The records of this office show that your Board has accepted the levees covered by Items a.(1), a.(3), a.(5), a.(6), b.(4), b.(5), b.(6), b.(7), b.(8), b.(9), b.(10), b.(11), b.(12), b.(13), c.(1), c.(2), d. and e., above as complete. Accordingly the waterway bank contiguous to

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

said Items is hereby transferred to the State of California for maintenance and operation.

The levee covered by Items a.(2), a.(4), a.(7), b.(1), b.(2), b.(5), c.(3) and f. above, although complete, has not been formally transferred as contemplated by the Project documents. Accordingly the levee covered by said Items, together with the waterway bank contiguous thereto, is hereby transferred to the State of California for maintenance and operation.

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

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

FOR THE DISTRICT ENGINEER:

Sincerely yours,

Copy Furnished:

- ✓ Office, Chief of Engineers.
- ✓ So. Pac. Div. Engineer.
- ✓ State Engineer.
- ✓ Engr. Div. (2)
- ✓ C. de Arrieta

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

Original Date:	OHH 12-7-51
Exec. O.	
Chief	2
Ad. Asst.	
Chf. Tech. Asst.	B
Manag. Office Supt.	
Oper.	<i>[Signature]</i>
Eng'rs	
P. E.	
Rec.	
Perf.	
Legal	
Supply	

Letter No. 8

Items 51 to 76

*Design
Burdale*

PSRKO-P 824.3 (Sac. R. F.C. Proj.)

AUG 30 1950

*Accepted
16 August 1950.*

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

Gentlemen:

Reference is made to letter from this office dated 23 June 1950 and letter from your office dated 26 June 1950 wherein a procedure for transfer of completed units of the Sacramento River Flood Control Project was proposed and accepted respectively.

In accordance with your letter of 16 August 1950 the Levee Set-backs and Bank Protection at Ten Sites along the Sacramento River in the vicinity between Colusa and Meridian, completed 26 May 1950, under Contract W-04-167-eng-1576 with H. Earl Parker, Contractor, is hereby transferred to the State of California as of 16 August 1950.

There is inclosed a copy of the Flood Control Regulations prescribed by the Secretary of the Army pursuant to the provisions of Section 3 of the Act of Congress approved 21 June 1936, as amended and supplemented, to govern the maintenance and operation of flood control works, of which the construction referred to is a part. In accordance with paragraph 208.10(10) of these regulations, this office will furnish you and local interests at a later date, with an operation and maintenance manual to assist in carrying out the obligations established. Copies of the contract drawings have previously been furnished to you.

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

Sincerely yours,

C. C. HAUG
Lt. Colonel, Corps of Engineers
District Engineer

1 Incl.
Flood Control
Regulations
cc: C.A.R. w/o incl. ✓
Engr. Div. w/o incl.
OCE w/o incl.
Div. Engr. w/o incl.
State Engr. w/incl.

Unit #39A

de Corrie
X
✓

WASH-9

FEB 20 1950

✓

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

Gentlemen:

The sections of levee listed below which are located along the left bank of the Sacramento River from Meridian to Butte Slough Out-fall Gates have been completed recently. Therefore, in accordance with established procedure, these sections of completed levee are hereby transferred to the State of California for maintenance by the appropriate State agency and/or other local interests concerned.

- (1) Left bank, Sacramento River (Station 512/00 to 489/00), *61*
Mile 133.7 to Mile 134.2, shown on map as Part (b).
- (2) Left bank, Sacramento River (Station 489/00 to 441/00), *60*
Mile 134.2 to Mile 135.1, shown on the map as Part (c).
- (3) Left bank, Sacramento River (Station 416/00 to 345/00), *43*
Mile 135.6 to Mile 136.8, shown on the map as Part (2).
- (4) Left bank, Sacramento River (Station 298/00 to 284/00), *41*
Mile 137.8 to Mile 138.1, shown on the map as Part (g).

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

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

Unit 39 A
See also 26A 531A
134

PSKED-F

The Reclamation Board

referred to above are part thereof. In accordance with paragraph 208.10 (10) of said regulations, this office will furnish your Board and local interests concerned, at a later date with an Operation and Maintenance Manual to assist in carrying out their obligations which have been established by these regulations.

For the records of this office, acknowledgment of this letter is requested on or before 31 March 1950.

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

FOR THE DISTRICT ENGINEER:

2 Incls.

Dwg No. 50-4-2545

(in 8 sheets)

Flood Control Regulations

Copy furnished:

State Engineer

Sacramento, Calif.

Sincerely yours,

C. C. Haug
Lt. Colonel, Corps of Engineers
Executive Officer

cc: Engr. Div.
Sacto. Field O.
CdeA ✓

de Arrista

Contract W-04-167-eng 1576

PACK-7

NOV 30 1949

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

Gentlemen:

The sections of levee listed below which are located along the Sacramento River between Colusa and Meridian, have been recently completed. Therefore, in accordance with established procedure, these sections of completed levees are hereby transferred to the State of California for maintenance by the State Reclamation Board and other local interests concerned.

26A

(1) Left bank, Sacramento River (Station 571400 to Station 544400) - Mile 132.7 to Mile 133.2, shown on map as Part (a).

27A

(2) Right bank, Sacramento River (Station 2106400 to Station 2123400) - Mile 135.0 to Mile 135.3, shown on map as Part (d).

28A

(3) Right bank, Sacramento River, Station 2173400 to 2352400 - Mile 134.3 to Mile 137.7, shown on map as Part (e).

29A

(4) Right bank, Sacramento River, Station 2442450 to Station 2478400 - Mile 139.8 to Mile 140.8, shown on map as Part (h).

30A

(5) Right bank, Sacramento River, Station 2531400 to Station 2564400 - Mile 141.4 to Mile 142.0, shown on map as Part (i).

31A

(6) Right bank, Sacramento River, Station 2582400 to Station 2595400 - Mile 142.4 to Mile 142.7, shown on map as Part (j).

131,134

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

Units - Nos. 26A-27A-28A-29A-30A and 31A,
see also Unit 39A

PH201-7

The Reclamation Board

There is also inclosed a copy of Flood Control Regulations prescribed by the Secretary of War (now designated the Secretary of the Army), pursuant to the provisions of Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented, to govern the maintenance and operation of flood control works, of which the levees referred to above are a part thereof. In accordance with paragraph 200.10(10) of said regulations, this office will furnish your Board and local interests concerned at a later date with an Operation and Maintenance Manual to assist in carrying out their obligations which have been established by these regulations.

For the records of this office acknowledgment of this letter is requested on or before 31 December 1949.

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

Sincerely yours,

Incls.

Drawings, File No. 50-4-2545,
in 8 sheets
Flood Control Regulations

J. SEPH S. GORLINSKI
Colonel, Corps of Engineers
District Engineer

Copy furnished:
State Engineer
Sacramento, Calif.
(with Incls.)

cc: Engr. Div.
Sacto. Field O.
CdeA

1311134

Unit 39 A

Units 26A-27A-28A-29A-30A and 31A.

R E S O L U T I O N

PASSED AND ADOPTED BY THE RECLAMATION BOARD

JULY 2, 1947

- - -

WHEREAS The Reclamation Board has heretofore approved certain items of "new construction"; consisting of (1) the enlargement, set back and construction of the East Levee of the Sacramento River from Isleton Bridge to Walnut Grove, in Reclamation Districts Nos. 407 and 556; (2) enlargement, set back and construction of the East Levee of the Sacramento River from Meridian Bridge to Fisdale Weir, in Reclamation Districts Nos. 70 and 1660; and (3) the enlargement, set back and construction of the East Levee of the Sacramento River between River Miles 92.6 to 94.5, 99.3 to 101.2, and 110.8 to 111.5, in Reclamation District No. 1500; and

WHEREAS the War Department, Corps of Engineers, District Engineer, Sacramento District, under date of June 23, 1947, has notified The Reclamation Board of the completion of the three items of levee enlargement, set back and construction, and has transferred said portions of levee to the State of California for maintenance and operation between proper local interests; and

WHEREAS the Chief Engineer of The Reclamation Board has caused to be made an inspection on the ground of the three items of new construction as specified above, and has found and determined that such work, as completed, has been prosecuted and carried out in conformance with plans and specifications therefor; now therefore be it

RESOLVED AND ORDERED that The Reclamation Board does hereby accept for the State of California the said three items of "new construction" as aforesaid, which have on the date above set forth been transferred to said Board by the War Department, U. S. District Engineer; and be it further

RESOLVED AND ORDERED that the East Levee of the Sacramento River from Isleton Bridge to Walnut Grove, together with the berms and appurtenant structures thereof, so much thereof as lies within Reclamation District No. 407, be, and the same is hereby turned over to Reclamation District No. 407 for maintenance and operation, as the legally authorized function of said district; and so much thereof as lies within Reclamation District No. 556 be, and the same is hereby turned over to Reclamation District No. 556 for maintenance and operation, as the legally authorized function of said district; and be it further

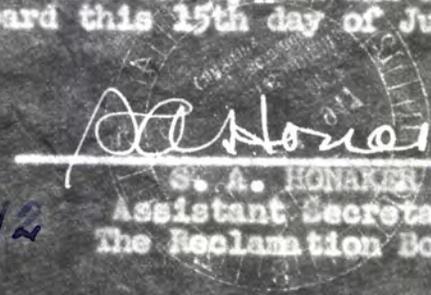
RESOLVED AND ORDERED that the East Levee of the Sacramento River, Meridian Bridge to Tisdale Weir, together with the berms and appurtenant structures thereof, so much thereof as lies within Reclamation District No. 70 be, and the same is hereby turned over to Reclamation District No. 70 for maintenance and operation, as the legally authorized function of said district; and that so much thereof as lies within Reclamation District No. 1660 be, and the same is hereby turned over to Reclamation District No. 1660 for maintenance and operation, as the legally authorized function of said district; and be it further

RESOLVED AND ORDERED that the East Levee of the Sacramento River between Miles 92.6 to 94.5, 99.3 to 101.2, and 110.8 to 111.5, together with the berms and appurtenant structures thereof, be and the same is hereby turned over to Reclamation District No. 1500 for maintenance and operation, as the legally authorized function of said district.

STATE OF CALIFORNIA
COUNTY OF SACRAMENTO }
Office of The Reclamation Board } SS

I, S. A. HONAKER, Assistant Secretary of The Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution adopted by said Board at its meeting held July 2, 1947.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of The Reclamation Board this 15th day of July, 1947.


S. A. Honaker
S. A. HONAKER
Assistant Secretary
The Reclamation Board

Manuals 10, 11 and 12

156

824.3(Sacramento River)PSKKB

23 June 1947

SUBJECT: Maintenance of East Levee, Sacramento River, Meridian Bridge to Tisdale Weir

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

Gentlemen:

Enlargement has been completed of the East Levee, Sacramento River, between Meridian Bridge and Tisdale Weir. Therefore, in accordance with established procedure, this portion of completed levee is hereby transferred to the State of California for maintenance.

This construction forms an integral part of the Sacramento River Flood Control Project. The details and extent of the work are shown on inclosed drawing No. 50-4-2287 in seven sheets, entitled "Proposed Levee Enlargement, East Levee, Sacramento River, Meridian Bridge to Tisdale Weir."

120.
117.9

There is also inclosed a copy of Flood Control Regulations prescribed by the Secretary of War pursuant to provisions of Section 3 of the Act of Congress approved 22 June 1936, as amended and supplemented, to govern the maintenance and operation of Flood Control Works, of which the levee referred to above is a part. In accordance with paragraph 208.10(10) of said regulations, at a later date this office will furnish your Board and local interests with an operation and maintenance manual to assist in carrying out their obligation established by these regulations.

For the records of this office, acknowledgment of this letter is requested on or before 25 July 1947.

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

2 Incls.
Drawing No. 50-4-2287
(in 7 sheets)
Flood Control Regulations

Manual No. 10

133
134

Copy furnished: State Engineer
(with inclosures) cc: CdeA(w/d.)

STATE RECLAMATION BOARD LETTERHEAD

C
O
P
Y

July 23, 1947

District Engineer
Sacramento District
Wright Building
1209-8th Street
Sacramento, California

Dear Sir:

Reference is made to your letter of June 23, 1947, file No. 824.3 (Sacramento River) PSKKB, transferring to the State of California for maintenance a section of the east levee of the Sacramento River, from Meridian Bridge to Tisdale Weir.

The Reclamation Board at its meeting on July 2, 1947, accepted the levee for maintenance, and has subsequently turned it over to Reclamation Districts 70 and 1660 for maintenance.

Copy of the Board's resolution is enclosed with our letter of today, relating to your file No. 824.3 (Sacramento River) PSKKB; east levee, Sacramento River, Isleton Bridge to Walnut Grove.

Yours very truly,

THE RECLAMATION BOARD

A. M. BARTON
Chief Engineer and General Manager

By _____
S. A. Honaker
Assistant Secretary

RESOLUTION

Passed and adopted by The Reclamation Board

C
O
P
Y

July 2, 1947

Whereas - - - - -

Resolved and ordered that the east levee of the Sacramento River, Meridian Bridge to Tisdale Weir, together with the berms and appurtenant structures thereof, so much thereof as lies within Reclamation District No. 70 be, and the same is hereby turned over to Reclamation District No. 70 for maintenance and operation, as the legally authorized function of said district; and that so much thereof as lies within Reclamation District No. 1660 be, and the same is hereby turned over to Reclamation District No. 1660 for maintenance and operation, as the legally authorized function of said district; and be it further

Resolved and ordered - - - - -

STATE OF CALIFORNIA)
County of Sacramento) SS
Office of the Reclamation Board)

I, S. A. Honaker, Assistant Secretary of the Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution made by said Board at its meeting held July 2, 1947.

In witness whereof, I have here unto set my hand and affixed the official seal of the Reclamation Board this 3d day of July 1947.

S. A. Honaker
Assistant Secretary
The Reclamation Board

NOTE: Only item pertaining to Operation and Maintenance Manual No. 134 is included in the above copy.

STATE RECLAMATION BOARD LETTERHEAD

3
0
P
Y

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 8 December 1951, File SPKA 824.3 (Sac. Riv. F.C.P.), transferring to the Reclamation Board for operation and maintenance of levees and their contiguous waterway banks as follows:

a. -----

b. Easterly levee of Sacramento River,

- 1. -----
- 7. From Mile 138.2 to 137.9 (Larty's pump).
- 8. From Mile 136.9 to 134.0 (Meridian Bridge).
- 9. From Mile 134.0 to 133.8
- 10. From Mile 133.2 to 132.3
- 11. From Mile 131.8 to 125.9
- 12. From Mile 125.8 to 123.1
- 13. From Mile 122.6 to 122.0

c. Westerly levee of the Sutter Bypass.

- 1. Butte Slough Outfall Gates to Tisdale Bypass.

5. The Reclamation Board formally accepted levees and their contiguous waterward bank listed under items "a" and "b" for flood-control operation and maintenance on December 18, 1951.

6. There are no contiguous waterway banks other than the adjacent bypass areas under items "c", "d", "e" and "f". On December 18, 1951, the Reclamation Board formally accepted the levees covered by these items together with their contiguous bypass areas subject to the provision that the portion of item "c-1" now having waterward slopes of three horizontal to one vertical would be rectified by Federal construction. All other levees of the Sutter Bypass are now constructed to waterward slopes of four horizontal to one vertical. The Flood-Control Act of December 22, 1944, calls for construction of waterward slopes of four horizontal to

C
O
P
Y

one vertical on the Tisdale Bypass levees. The existing section of these levees is ample.

Yours very truly,

THE RECLAMATION BOARD

By

A. M. Barton
Chief Engineer and General Manager

NOTE: Only items pertaining to Operation and Maintenance Manual No. 134 are included in the above copy.

C
O
P
Y

STATE RECLAMATION
BOARD
LETTERHEAD

November 28, 1951

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

Dear Sir:

Reference your letter 8 November 1951, file SPKKO-P 824.3 (Sac. R.F.C.P.), transferring eleven units of work located along the Sacramento River and referred to in Drawing No. 50-4-2614 as Parts Nos. (K) to (U) inclusive, and located in Reclamation Districts 70, 108, 1500 and 1660 and in Sacramento West Side Levee District.

The Reclamation Board at its meeting 20 November 1951, accepted, on behalf of the State, the subject levees for maintenance and operation.

Yours very truly,

THE RECLAMATION BOARD

A. M. BARTON
Chief Engineer and General Manager

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

NOTE: Parts Nos. R, T, and U only, of Parts Nos. (K) to (U) inclusive, referred to in above copy are included in Operation and Maintenance Manual No. 134.

STATE RECLAMATION BOARD LETTERHEAD

February 25, 1953

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

Dear Sir:

Reference your letters, File No. SPKKO-P 824.3 (Sac. R.F.C.P.) dated 9 July 1952, 15 August 1952, and 15 January 1953, wherein the following levee units were transferred to the State of California:

9 July 1952 (a) - - - - -

15 August 1952 Part "C" of Spec. #1636, easterly bank of the Sacramento River from Mile 136.9 to Mile 137.9

15 January 1953 - - - - -

The Reclamation Board on behalf of the State of California, in meeting held February 18, 1953, accepted the above-mentioned levee units, together with their contiguous waterway banks, for operation and maintenance.

Yours very truly,

THE RECLAMATION BOARD

A. L. BARTON
Chief, Engineer and General Manager

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

NOTE: Only item pertaining to Operation and Maintenance Manual No. 134 is included in above copy.

EXHIBIT G
SUGGESTED SEMI-ANNUAL REPORT FORM

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__) Sacramento River Flood Control Project Unit No. 134, east levee of the Sacramento River and westerly levee of Sutter Bypass 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 62.0 in Sacramento River at Butte Slough Outfall Gates and 60.0 in Sutter Bypass at Mawson Bridge gages) occurred on the following dates:

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

