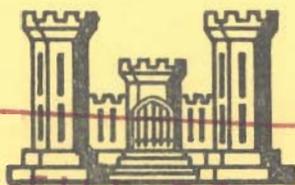


SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE
MANUAL

SACRAMENTO RIVER
FLOOD CONTROL PROJECT

UNIT NO. 122—PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR
AND
NORTH LEVEE OF SACRAMENTO BYPASS
AND
EAST LEVEE OF YOLO BYPASS FROM
WOODLAND HIGHWAY TO SACRAMENTO
BYPASS



FILE COPY

RETURN TO
SACRAMENTO DISTRICT
CORPS OF ENGINEERS
FLOOD OPERATIONS CENTER
U. S. ARMY

SACRAMENTO, CALIFORNIA

CORPS OF ENGINEERS
U. S. ARMY

SUPPLEMENT TO STANDARD
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Sacramento District
Corps of Engineers
U. S. Army
August 1955

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EXHIBITS

<u>Exhibit</u>	<u>Description</u>	
A	Flood Control Regulations -----	Unattached (Contained in Standard Manual)
A-1	Location Drawing -----	1 sheet
B	"As Constructed" Drawings -----	Unattached
C	Plates of Suggested Flood Fighting Methods -----	Unattached (Contained in Standard Manual)
D	Check List No. 1-Levee Inspection Report -----	Unattached (Contained in Standard Manual)
E	Check Lists-Levees, Channels and Structures -----	Sheets 1 thru 8
F	Letter of Acceptance by State Reclamation Board--	Sheets 1 thru 4
G	Semi-Annual Report Form -----	Sheets 1 and 2

REVISIONS OR ADDITIONS

	<u>ADDITIONS</u>	<u>DATE</u>
Paragraph 1-04 1 - - - - -	add Contract No. 67-C-0052	January 1968
Add Paragraph 2-05 - - - - -	Levee Re-Vegetation	January 1968
EXHIBIT B - - - - -	add Drawing No. 6-4-2095	January 1968
EXHIBIT F - - - - -	add letter of acceptance dated 8 December 1967	January 1968

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

UNIT NO. 122 - PART NO. 1
WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR
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AND
EAST LEVEE OF YOLO BYPASS FROM
WOODLAND HIGHWAY TO SACRAMENTO BYPASS

SECTION I

INTRODUCTION

1-01. Location. - The improvement covered by this manual is Unit No. 122 - Part No. 1 of the Sacramento River Flood Control Project and comprises the following levees and adjacent channels or floodways. The west levee of the Sacramento River from mile 70.8 at the Elkhorn Ferry crossing downstream about 7.3 miles to mile 63.5 at the north end of the Sacramento Weir (with exception of a section of the west levee of the Sacramento River from mile 68.42 to mile 67.11 which is not to grade and section and which requires additional work; also the north levee of the Sacramento Bypass and the east levee of the Yolo Bypass from the south boundary of Reclamation District No. 1600 at the Woodland Highway crossing downstream about 6.14 miles to the north levee of the Sacramento Bypass. Levees of this unit protect the lands of Reclamation Districts No. 537, 752, 785, and 827, in Yolo County, California, as shown on Exhibit A-1.

1-02. Protection provided. - The levees described in this manual provide protection to adjacent agricultural land against flood waters of the Sacramento River, Sacramento Bypass and Yolo Bypass and are essential features of the Sacramento River Flood Control Project. The grade of the adopted flood plane profile of the Sacramento River within this unit varies from elevation 38.20 at the Elkhorn Ferry crossing (mile 70.8) to elevation 34.5 at the north end of the Sacramento Weir (mile 63.5). Along the Sacramento Bypass the grade of the adopted flood plane profile varies from elevation 34.5 at the Sacramento Weir to elevation 29.4 at junction of Sacramento and Yolo Bypasses. Along Yolo Bypass the grade of the adopted flood plane profile varies from elevation 34.40 at the Woodland Highway crossing to elevation 29.4 at the Sacramento Bypass. (All elevations are referred to U. S. Corps of Engineers datum). The levee project grade within this unit provides a freeboard of at least 3 feet along the Sacramento River and a freeboard of at least 6 feet along the Sacramento and Yolo Bypasses. The project design capacity within this unit is 107,000 cubic feet per second in the Sacramento River, 112,000 cubic feet per second in the Sacramento Bypass, and 377,000 cubic feet per second in the Yolo Bypass.

1-03. Project works. - The flood control improvements covered by this manual were authorized by the Flood Control Act of 1917 as modified by the Acts of 1928, 1937, and 1941. All levees of this unit as described in paragraph 1-01, were originally built by local interests and consists of the following:

a. The Sacramento River levee was repaired or reconstructed by the Corps of Engineers by bank protection works and other levee repairs at various places.

b. No Federal work was necessary on the north levee of the Sacramento By-pass.

c. The Yolo By-pass levee reach was enlarged to adopted grade and section by the Corps of Engineers.

Part No. 1 of Unit No. 122 comprises a large percentage of the entire unit, the remainder being the exception as referred to above, VIZ: that portion of the west levee of the Sacramento River from mile 68.42 to 67.11. At such time when the remainder is completed to project standards, this manual will be revised to cover the whole unit.

1-04. Construction Data and Contractor. - Necessary construction to bring levees to project standards was accomplished under the following contracts:

a. Enlargement of the east levee of Yolo Bypass along Reclamation District No. 827 was accomplished under Contract No. W-1105-eng-740 by the Ajax Dredge Company and completed on 5 October 1931.

b. Enlargement of the east levee of Yolo Bypass along Reclamation District No. 785 was accomplished under Contract No. W-1105-eng-1106 by the Olympian Dredge Company and completed on 22 December 1933.

c. Bank protection work on the west bank of the Sacramento River at mile 65.9 was accomplished under Job Order No. 1071 and completed on 6 September 1946.

UNIT NO. 122 - PART NO. 1

1-04.

1. Planting of trees and shrubs on the waterside slope and berm along the right bank of the Sacramento River between river miles 64.4 and 65.5 was accomplished under Contract No. DACW05-67-C-0052 by Fairway Landscape Company, during the period from 13 April 1967 to 15 November 1967. Specification No. 3429, Drawing No. 6-4-2095.

d. Bank protection work on the west bank of the Sacramento River at mile 67.1 was accomplished under Job Order No. 1072 and completed on 6 September 1946.

In addition to the foregoing work emergency repairs on the west bank of the Sacramento River from mile 65.9 to mile 66.4 was accomplished under Contract No. DA-04-167-eng 1023 by Carl C. Harmeling and completed on 31 July 1953.

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 29.0 on the U. S. Corps of Engineers and State Division of Water Resources continuous water recorder and staff gage located on the right bank of the Sacramento River 100 feet downstream from the Sacramento Weir; also when the water surface in the Yolo Bypass reaches or exceeds the reading of 27.0 on the State Division of Water Resources continuous water stage recorder and staff gage located on the east levee of Yolo Bypass immediately upstream from the Sacramento Northern Railway near the Woodland Highway; also when the water surface in the Yolo Bypass reaches or exceeds the reading of 22.0 on the State Division of Water Resources continuous water stage recorder and staff gage located at the intersection of the east levee of Yolo Bypass and the north levee of the Sacramento Bypass. All gages are 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 easterly levee of Yolo By-pass from Fremont Weir to Miner Slough and the northerly levee of the Sacramento By-pass was officially accepted by the Reclamation Board of the State of California on 18 December 1951, as shown on the attached letter of acceptance, Exhibit F.

Portions of the west levee of the Sacramento River from mile 70.9 to 68.42 and from mile 67.11 to 63.5 were transferred to the State Reclamation Board by letter of 8 December 1951, as shown on the attached letter of transfer, Exhibit F.

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

SECTION II

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levees.

a. Description. The levees described in this manual are located along the westerly side of the Sacramento River from the Elkhorn Ferry crossing at mile 70.8 downstream about 7.3 miles to mile 63.5 at the north end of the Sacramento Weir (with exception of a section of the west levee of the Sacramento River from river mile 68.42 to 67.11). Also the north levee of the Sacramento Bypass and the easterly levee of Yolo Bypass from the Woodland Highway crossing downstream about 6.14 miles to the north levee of the Sacramento Bypass. All levees of this unit were originally built by local interests and the east levee of Yolo Bypass has been rebuilt to adopted grade and section by new construction. Portions of the west levee of the Sacramento River has been reinforced by bank protection work. For more complete detail of items included in construction of above mentioned levees, reference is made to the "As Constructed" drawings of Exhibit B. Structures affecting levee maintenance are listed in Exhibit E.

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

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

2-02. Drainage and Irrigation Structures.

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

River Mileage	Size and Kind of pipe	Other Structure Description	Elev. of invert at pipe
<u>West Levee Sacramento River (see drwg. 6-13-573 of Exhibit B).</u>			
70.05	18" steel	Pumphouse R.S.	33.4
69.50	30" steel	Pumphouse R.S.	32.6
68.86	12" steel	Centrifugal pump R.S.	30.9
68.43	18" steel		

River	Size and		Elev. of invert
Mileage	Kind of pipe	Other Structure Description	at pipe

West Levee Sacramento River (see drwg. 6-13-573 of Exhibit B).

67.04	12" iron	Centrifugal pump R.S.	37.1
65.58	4" steel	Gate Valve R.S.	28.3
65.58	8" steel	Centrifugal pump and gate valve R.S.	28.5
65.13	4" steel	Pump L.S.	32.6
65.12	8" steel	Pumphouse L.S.	31.9
64.71	12" steel	Concrete plug L.S.	24.2
64.71	4" steel	Pumphouse L.S.	23.0
64.61	8" steel		28.0
64.44	8" steel	Concrete plug R.S.	30.6
64.44	18" steel	Centrifugal pump L.S.	27.8
64.31	8" steel	Pump L.S.	27.8
64.19	10" steel	Pumphouse R.S.	26.6
64.11	18" iron	Pumphouse R.S.	27.0
63.69	8" steel	Pump R.S.	

River	Size and		Elev. of invert
Mileage	Kind of pipe	Other Structure Description	at pipe

North Levee Sacramento Bypass (see drwg. 50-10-2796 of Exhibit B)

174	36" C.M.P.	Drainage pump L.S.	11.3
178	30" C.M.P.		13.7
179	3-14" steel	Pump L.S.	

East Levee Yolo Bypass (see drwg. 50-4-1304-1 and 50-4-1274 of Exhibit B)

Station
Location

131+70	12" steel		33.9
3+75	24" steel	R.D. No. Pumping Plant	31.2
169+25	10" steel		32.1
111+70	24" steel	Pumphouse on pile structure R.S.	29.4

Notes on abbreviations:

R.S. = Riverside

L.S. = Landside

C.M.P. = Corrugated Metal Pipe

R.D. = Reclamation District

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

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

2-03. Channels.

a. Description. The main channel of the Sacramento River from the south boundary of Reclamation District No. 1600 at the Elkhorn Ferry crossing to the Sacramento Weir is a navigable stream with a controlling depth of six feet. This portion of the main channel of the Sacramento River is confined between levees along both banks and has a project design capacity of 107,000 cubic feet per second. When flood discharge exceeds the carrying capacity of the Sacramento River, flood water is discharged into the Sacramento Bypass through the Sacramento Weir which, in turn, is discharged into the Yolo Bypass.

Sacramento Bypass is a leveed overflow channel about 1,800 feet wide that carries excess flood waters of the Sacramento River to the Yolo Bypass. Levees along both banks are lined with a concrete blanket on the riverside slopes for about half the distance downstream from the Weir. The project design capacity of the Sacramento Bypass is 112,000 cubic feet per second.

The Yolo Bypass within this unit from the south boundary of Reclamation District No. 1600 at the Woodland Highway to the Sacramento Bypass is a leveed floodway about $2\frac{1}{2}$ miles wide that is used during flood periods to carry excess flood water of the Sacramento River System. A large portion of the overflow area between levees of the Yolo Bypass is used for production of seasonal crops. The project design capacity of the Yolo Bypass in this reach is 377,000 cubic feet per second.

Since the channel of the Sacramento River within this unit 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 which follow shall be observed only to that extent.

The floodways of the Sacramento Bypass and the Yolo Bypass within this unit shall be inspected, maintained, and operated as outlined in the paragraphs which follow.

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

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

It shall be the duty of the Superintendent to maintain a patrol of the project works during all periods of flood in excess of a reading of 29.0 on the gage at Sacramento Weir, 27.0 on the gage in Yolo Bypass near the Woodland Highway and a reading of 22.0 on the gage at the west end of the north levee of the Sacramento Bypass as indicated in paragraph 1-05 of this manual. The Superintendent shall dispatch a message by the most suitable means to the District Engineer whenever the water surface reaches the gage readings indicated above. The Superintendent shall cause readings to be taken at said gages at intervals of two to four hours during the period when the water surface is above the flood-flow stages indicated above and record the time of observations. One copy of the readings shall be forwarded to the District Engineer immediately following the flood, and a second copy transmitted as an inclosure to the semi-annual report in compliance with paragraph 3-06 of the Standard Manual.

2-04. Miscellaneous Facilities.

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

(1) Elkhorn Ferry crossing the Sacramento River at north end of this unit.

(2) Sacramento Weir at south end of this unit.

(3) Sacramento Northern Railway trestle and State Highway bridge crossing Yolo Bypass at the north end of this unit.

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

(5) Hydrographic Facilities to be maintained by the agencies listed below are as follows:

(a) U. S. Corps of Engineers and State Division of Water Resources continuous water recorder and staff gage located on the right bank of the Sacramento River 100 feet downstream from the Sacramento Weir.

(b) State Division of Water Resources continuous water stage recorder and staff gage located on the east levee of Yolo Bypass immediately upstream from the Sacramento Northern Railway trestle near the Woodland Highway.

(c) State Division of Water Resources continuous water stage recorder and staff gage located at the intersection of the east levee of Yolo Bypass and the north levee of the Sacramento Bypass.

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

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

2-05. Levee Re-Vegetation.

a. Description. The waterside slope and berm has been planted with trees and shrubs for a total length of about 11,500 feet along the right bank of the Sacramento River between river miles 64.4 and 65.5. For more details, see drawings of EXHIBIT B (Drawing No. 6-4-2095). Aesthetic and functional considerations were requisites in the designing and planting on levee slopes and berms and should be the guide line in the maintenance which follows. Landscaped areas should be maintained as originally planted unless experience indicates a change should be made. Some of the requirements are as follows:

-
- Inlet*
- (1) After each flood season (15 April), the plant basins should be restored to original condition to permit watering until the fall of 1969.
 - (2) From May through October of each year until October 1969, watering will be required in an amount to maintain sufficient water in the root zone of trees and shrubs to maintain growing conditions during the growing season.
 - (3) Dry grass should be hoed or trimmed in a 5-foot radius around trees and shrubs to maintain a fire guard. In lieu thereof, grass may be controlled by use of contact herbicides.
 - (4) Until October 1969, small doses of commercial fertilizer shall be applied to all plantings to maintain vigorous growth.
 - (5) Delay pruning until the winter of 1969; after that date lower limbs of the trees shall be removed from the main trunk to a point 5 feet above the ground.
 - (6) Tree stakes and ties should be checked at intervals to prevent girdling. The ties should be loosened as the tree expands, or replaced as old ties break. Sufficient looseness should be left in the tie to permit movement and growth of the trees. Remove stakes when the trees no longer need support (probably 1970).
 - (7) If some trees expire, replacement will not be necessary as sufficient trees were planted with expectation that some would die.

SECTION III

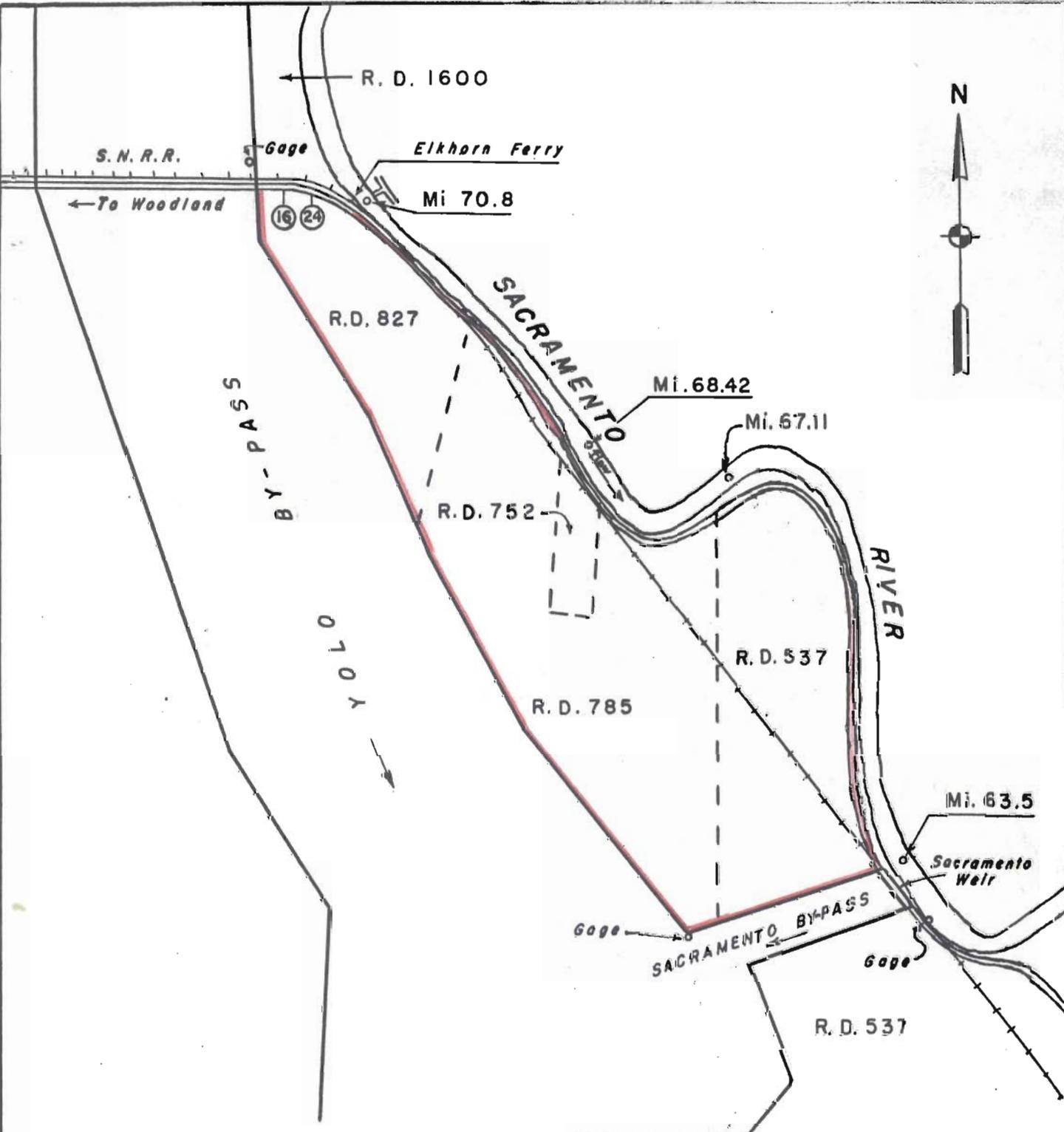
REPAIR OF DAMAGE TO PROJECT WORKS AND METHODS OF COMBATING FLOOD CONDITIONS

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 Division of Water Resources, State of California, who coordinates maintenance of project works of the Sacramento River Flood-Control Project. The State representative will give assistance of advice, or will determine appropriate action to be taken.

3-02. Applicable methods of combating floods. - For applicable methods of combating flood conditions, reference is made to Section VIII of the Revised Standard Manual, where the subject is fully covered.

EXHIBIT A

FLOOD-CONTROL REGULATIONS
(See Standard Manual)



LEGEND

— Location of Levee within this Unit

LOCATION MAP
UNIT NO. 122 - PART NO. 1
 WEST LEVEE SACRAMENTO RIVER FROM
 MILE 70.8 TO SACRAMENTO WEIR
 AND NORTH LEVEE SACRAMENTO BY-PASS
 AND WEST LEVEE OF YOLO BY-PASS

EXHIBIT B

"AS CONSTRUCTED"
DRAWINGS

(See separate folder for the following drawings)

<u>File No.</u>	<u>Title</u>
6-4-1582	Sacramento River Bank Protection Work - West Bank of River at Mile 65.9, 1 sheet
6-4-1592	Sacramento River Bank Protection Work - West Bank of River at Mile 67.1, 1 sheet
50-10-2796	Sacramento River Profile Downstream from Fremont Weir to Sacramento Bypass, sheets 2 and 3
50-4-1274	Enlargement of East Levee of Yolo Bypass along District No. 785, 1 sheet
50-4-1304-1	Enlargement of East Levee of Yolo Bypass along Reclamation District No. 827, 1 sheet
6-13-573	Sacramento River from Sacramento to Vernon, sheets 5, 6, 7, 8, and 9.
50-4-2967	Emergency Levee Repair work on the west levee of the Sacramento River from Mile 65.9 to 66.4, 1 sheet

EXHIBIT B

File No.

Title

Levee Re-Vegetation right bank Sacramento River Mile 65.0, in 2 sheets.

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

EXHIBIT B
Unattached

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. 122 - PART NO. 1

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

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

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

- Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.
- Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gulying of the section has occurred.
- Item (c) If sufficient erosion or gulying of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.
- Item (d) Note any natural change in any section of roadway or ramps, Indicate any inadequacy in surface drainage system.
- Item (e) Indicate any evidence of seepage through the embankment section.
- Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if 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. 122 - PART NO. 1

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

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

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

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

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

CHECK LIST NO. 4
DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 122 - PART NO. 1

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

For location of stations see drawings of Exhibit B

(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
River Mileage	West, Levee of Sacramento River						
70.05	Right						
69.50	"						
68.86	"						
68.43	"						
67.04	"						
55.58	"						
65.58	"						
65.13	"						
65.12	"						
64.71	"						
64.71	"						
64.61	"						
64.44	"						
64.44	"						

CHECK LIST NO. 4
DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 122 - PART NO. 1

Inspector's Report Sheet No. _____

Inspector _____

Date _____

Superintendent _____

For location of stations see drawings of Exhibit B

(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
West Levee of Sacramento River, cont.							
River Mileage							
64.31	Right						
64.19	"						
64.11	"						
63.69	"						
North Levee of Sacramento By-Pass							
Section Number							
174	Right						
178	"						
179	"						
East Levee of Yolo By-Pass							
Station							
131770	Left						
3475	"						
169425	"						
111470	"						

INSTRUCTIONS FOR COMPLETING SHEET 6, EXHIBIT E

(To be printed on back of sheet 6)

- (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

C
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THE RECLAMATION BOARD
State of California

C
O
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Y

December 8, 1967
4130.60.202

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

Dear Sir:

Reference is made to your letter of November 17, 1967 concerning transfer to the State of California of revegetation portion of the Sacramento River Bank Protection Project, Unit 5A, in accordance with Specification No. 3429.

The Reclamation Board, at its meeting of December 1, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

THE RECLAMATION BOARD
OF THE
STATE OF CALIFORNIA

April 2, 1952

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

Dear Sir:

1. Reference is made to your letter of 4 December 1951, File SPKKA 824.3 (Sacramento River Flood Control Project) transferring levee reaches and waterway banks contiguous thereto, to the Reclamation Board, located as follows:

- a. Easterly levee of Yolo Bypass from Fremont Weir to Miner Slough.
- b. Northerly levee of Sacramento Bypass.
- c. * * * * *

2. There are no contiguous water banks to the above reaches of levee other than the levees themselves and the adjoining Bypass areas. Since enactment of Chapter 774, California Statutes of 1927, maintenance of the bypass areas has been an obligation of the State of California.

3. The easterly levee of the Yolo Bypass was principally constructed by local interests funds. The Federal work on this levee has been shaping of the same and providing uniform slopes, mainly three horizontal to one vertical on the waterward side. A short section of levee from Fremont Weir southerly, has been constructed to four to one waterward slopes. The remainder of the levee does not have this standard section. A considerable length of this levee will be the waterward bank of the Sacramento Deep Water Channel. The Reclamation Board cannot assume any obligation as to the portion of the waterward bank of the Yolo Bypass east levee, which is also the waterward bank of the ship channel project. Maintenance of this levee has continuously since its construction been an obligation of local interests. The State of California under Section 8361 of the Water Code of California now maintains the northerly 2 miles of this levee. The remainder is maintained by the following local Reclamation Districts: 1660, 827, 785, 537, 900, 765, and 999.

Formal acceptance by the Reclamation Board on 18 December 1951, is conditioned on the Federal obligation to complete the levee to the authorized cross-section and no State obligation to maintain any of the banks of the Sacramento Deep Water Channel.

4. The north and south levees of the Sacramento Bypass, and the bypass itself were entirely constructed by local interest monies. Maintenance and operation thereof is an obligation of the State under Section 8361 of the Water Code. No Federal funds have ever been spent upon this portion of the project. The Flood-Control Act of 22 December 1944, calls for flattening of the slopes of these levees to the four to one and three to one authorized section. This work is not required. The Reclamation Board on 18 December 1951, formally accepted these levees and this bypass as complete.

Yours very truly,

THE RECLAMATION BOARD

NOTE: Only items pertaining to Operation and Maintenance Manual No. 122 are included in the above copy.

By /s/ A. M. Barton
A. M. BARTON
Chief Engineer and General Manager

Registered Mail
Return Receipt Requested

SPKKA 824.3 (Sacto. R.F.C.P.)

8 December 1951

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

Gentlemen:

Reference is made to your letter of 22 June 1951 acknowledging that certain reaches of the levees of the Sacramento River Flood Control Project and the waterway bank contiguous to said levee reaches meet the requirements of the project as authorized prior to the Flood Control Act of 1944.

The levee reaches in question are located as follows:

a. * * * * *

b. * * * * *

c. Westerly levee of the Sacramento River. (Continued)

* * * * *

(5) Mile 63.5 (North End Sacramento Weir) to Mile 67.11.

(6) Mile 68.42 to Mile 70.9.

d. * * * * *

The levee covered by items * * * * *

e. (5), e.(6), 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.

Sincerely yours,

/s/H.R. Reinfsvyder
H. R. REINFSNYDER
Lt. Colonel, Corps of Engineers
Executive Officer

NOTE: Only items pertaining to Operation and Maintenance Manual No. 122 are included in the above copy

EXHIBIT G
SUGGESTED SEMI-ANNUAL REPORT FORM

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

(1 May 19__)
(1 November 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,
Supplemental Manual Unit No. 122- Part No. 1; the west levee of Sacramento
River from Mile 70.8 to Sacramento Weir, and north levee of Sacramento
Bypass and east levee of Yolo Bypass from Woodland Highway to Sacramento
Bypass 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 antici-
pated maintenance operations for the following 6 months.)

b. During this report, major high water periods (water level
of Sacramento Weir gage at 29.0 at Woodland Highway at 27.0 and/or 22.0
at west end of north levee of Sacramento Bypass) occurred on the following
dates:

<u>Dates</u>	<u>Maximum elevation</u>
_____	_____
_____	_____
_____	_____

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

(Superintendent's log of flood observations)

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

(See Maintenance Manual _____.)

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

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

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

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

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

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

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

Respectfully submitted,

Superintendent of Works

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM WOODLAND
HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

ADDITION	DATE
Paragraph 1-04 e. ----- add Contract No. 57-67	Nov. 1963
Paragraph 1-04 f. ----- add Contract No. 58-13	Nov. 1963
Paragraph 1-04 g. ----- add Contract No. 61-45	Nov. 1963
EXHIBIT B ----- add Drawing No. 50-4-3295	Nov. 1963
EXHIBIT B ----- add Drawing No. 50-4-3321	Nov. 1963
EXHIBIT B ----- add Drawing No. 50-4-3678	Nov. 1963

Sheet 02

UNIT NO. 122 - PART NO. 1

1-04.

e. Emergency levee repairs, east levee of Yolo Bypass in Reclamation District No. 827 was made under Contract No. DA-04-167-CIVENG-57-67 by An-Nan Construction Company during the period from 8 October 1956 to 31 January 1957, Specification No. 2244, Drawing No. 50-4-3321.

f. Levee construction, right bank Sacramento River, vicinity of Monument Bend, Mile 66.9 to Mile 68.3 was accomplished under Contract No. DA-04-167-CIVENG-58-13 by Basalt Rock Company, Inc. during the period from 18 July 1957 to 15 July 1958, Specification No. 2325, Drawing No. 50-4-3295.

g. Emergency levee construction on right bank Sacramento River, Mile 66.6 was accomplished under Contract No. DA-04-167-CIVENG-61-45 by Arons Building Wrecking Company during the period from 4 November 1960 to 15 December 1960, Specification No. 2715, Drawing No. 50-4-3678.

EXHIBIT B

<u>File No.</u>	<u>Title</u>
50-4-3295	Levee construction, right bank Sacramento River vicinity Monument Bend, in 11 sheets
50-4-3321	Emergency levee construction, east levee Yolo Bypass in R.D. No. 827, in 2 sheets
50-4-3678	Emergency levee construction, right bank Sacramento River, Mile 66.6, in 3 sheets

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM WOODLAND
HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

ADDITIONS	DATE
* Paragraph 1-04 h. ----- add Contract No. 65-132	July 1966
EXHIBIT B ----- add Drawing No. 50-4-3756	July 1966
EXHIBIT F ----- add copy of letter of acceptance dated 18 February 1966	July 1966

* This work was performed under the Sacramento River Bank Protection Project authorized by the Flood Control Act of 14 July 1960, Eighty-sixth Congress, Second Session, Senate Document No. 103.

UNIT NO. 122 - PART NO. 1

1-04.

h. Bank protection on the right bank of the Sacramento River from Monument Bend to Sacramento Weir (Mile 67.0 to 63.4) was accomplished under Contract No. DA-04-167-CIVENG-65-132 by Spike Voudouris & Hulse Bros. during the period from 13 May 1965 to 27 May 1966, Specification No. 3025, Drawing No. 50-4-3756 (Unit No. 5).

EXHIBIT B

Title

File No.

50-4-3756 Bank Protection, Right Bank Sacramento River from Monument Bend to Sacramento Weir, in 18 sheets.

C
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THE RECLAMATION BOARD
State of California
February 18, 1966

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

Dear Sir:

Reference is made to your letter of January 4, 1966 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Contract No. 5 Monument Bend to Sacramento Weir, Right Bank, in accordance with Specification No. 3025.

The Reclamation Board, at its meeting of February 17, 1966, formally accepted the above referred to work for operation and maintenance

This work was accepted with the condition that the irrigation facilities presently incompleted must be operable before the beginning of the 1966 irrigation season.

Sincerely your,

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

EXHIBIT F

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

UNIT NO. 122

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BY-PASS AND
EAST LEVEE OF YOLO BY-PASS FROM
WOODLAND HIGHWAY TO SACRAMENTO BY-PASS

REVISIONS OR ADDITIONS		DATE
ADDITIONS		
Paragraph 1-04 j.-----	add Contract No. 66-134	December 1966
EXHIBIT B-----	add Drawing No. 50-4-4214	December 1966
EXHIBIT F-----	add letter of transfer dated 29 November 1966	December 1966

UNIT NO. 122

1-04.

j. Bank protection on the east levee of Yolo By-pass was accomplished under Contract No. DA-04-167-CIVENG-66-134 by G. T. Construction Company during the period from 10 June 1966 to 4 November 1966. Specification No. 3330, Drawing No. 50-4-4214.

EXHIBIT B

File No.

Title

50-4-4214

By-pass Levee Revetment, East Levee Yolo By-pass, 2.2 to 3.3 miles upstream from Sacramento By-pass and Sacramento By-pass downstream to S.P.R.R., in 8 sheets.

COPY

COPY

SPKKO-F

29 November 1966

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

Gentlemen:

Reference is made to the joint inspection on 22 November 1966, made for the purpose of transferring two completed rock revetment sites to the State of California for operation and maintenance. This rock revetment work was placed on the east levee of the Yolo Bypass at two sites. One site starts at the Sacramento Bypass and runs for a distance of 5,800 feet to the S.P. Railroad. The other site starts 2.2 miles upstream from the Sacramento Bypass and runs for a distance of 6,380 feet.

The work was completed on 4 November 1956, in accordance with Specification No. 3330, Contract No. DA-04-167-CIVENG-66-134, and Drawing No. 50-4-4214. This work was performed under the general authority of the Sacramento River Major and Minor Tributaries Flood Control Project, which was authorized by the Flood Control Act of 22 December 1944 (Public Law 534, 78 Congress, 2nd Session).

The above Flood Control work now meets the requirements of the Sacramento River Major and Minor Tributaries Flood Control Project. Therefore, said flood control work is hereby transferred to the State of California for operation and maintenance.

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, Supplement Nos. 116 and 122, Sacramento River Flood Control Project, and furnished to your office at a later date.

Sincerely yours,

T. S. MEADE
Lieutenant Colonel, CE
Acting District Engineer

EXHIBIT F

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM WOODLAND
HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

ADDITIONS	DATE
Paragraph 1-04 k ----- add Contract No. 66-146	June 1967
EXHIBIT B ----- add Drawing No. 50-4-4287	June 1967

UNIT NO. 122 - PART NO. 1

1-04.

k. Levee repairs, right bank of Sacramento River at Mile 65.5 was accomplished under Contract No. DA-04-167-CIVENG-66-146 by James L. Ferry & Son, Contractor, during the period from 27 June 1966 to 5 October 1966. Specification No. 3353, Drawing No. 50-4-4287 (Unit No. 6A).

EXHIBIT B
TITLE

<u>File No.</u> 50-4-4287	Levee Repairs Unit No. 6A, Right Bank Sacramento River at Mile 65.5, in 4 sheets.
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Incl 2'

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO WEIR FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM WOODLAND
HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

ADDITIONS	DATE
Paragraph 1-04 m.----- add Contract No. 67-C-0082	January 1968
EXHIBIT B ----- add Drawing No. 50-4-4348	"
EXHIBIT F ----- add letter of acceptance dated 21 December 1967	

UNIT NO. 122-PART NO. 1

1-04

m. Bank protection east levee of Yolo Bypass was accomplished by Spike Voudouris under Contract No. DACW03-67-C-0082 during the period from 24 May 1967 to 30 November 1967, Specification No. 3418, Drawing No. 50-4-4348.

EXHIBIT B

File No.

Title

50-4-4348

Bypass Levee Revetment East and West Levees Yolo Bypass,
in 7 sheets.

Incl 1'

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

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Dec 21 1967
4130.55.604

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

Dear Sir:

Reference is made to your letter of November 28, 1967 concerning transfer to the State of California of three completed rock revetment sites on the east and west levees of the Yolo Bypass, in accordance with Specification No. 3418.

The Reclamation Board, at its meeting of December 15, 1967, 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

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WIER AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM WOODLAND
HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

	ADDITIONS	DATE
Paragraph 1-04 1 - - - - -	add Contract No. 67-C-0052	January 1968
Add Paragraph 2-05 - - - - -	Levee Re-Vegetation.	January 1968
EXHIBIT B - - - - -	add Drawing No. 6-4-2095	January 1968
EXHIBIT F - - - - -	add letter of acceptance dated 8 December 1967	January 1968

UNIT NO. 122 - PART NO. 1

1-04.

1. Planting of trees and shrubs on the waterside slope and berm along the right bank of the Sacramento River between river miles 64.4 and 65.5 was accomplished under Contract No. DACW05-67-C-0052 by Fairway Landscape Company, during the period from 13 April 1967 to 15 November 1967. Specification No. 3429, Drawing No. 6-4-2095.

2-05. Levee Re-Vegetation.

a. Description. The waterside slope and berm has been planted with trees and shrubs for a total length of about 11,500 feet along the right bank of the Sacramento River between river miles 64.4 and 65.5. For more details, see drawings of EXHIBIT B (Drawing No. 6-4-2095). Aesthetic and functional considerations were requisites in the designing and planting on levee slopes and berms and should be the guide line in the maintenance which follows. Landscaped areas should be maintained as originally planted unless experience indicates a change should be made. Some of the requirements are as follows:

Incl 13

- (1) After each flood season (15 April), the plant basins should be restored to original condition to permit watering until the fall of 1969.
- (2) From May through October of each year until October 1969, watering will be required in an amount to maintain sufficient water in the root zone of trees and shrubs to maintain growing conditions during the growing season.
- (3) Dry grass should be hoed or trimmed in a 5-foot radius around trees and shrubs to maintain a fire guard. In lieu thereof, grass may be controlled by use of contact herbicides.
- (4) Until October 1969, small doses of commercial fertilizer shall be applied to all plantings to maintain vigorous growth.
- (5) Delay pruning until the winter of 1969; after that date lower limbs of the trees shall be removed from the main trunk to a point 5 feet above the ground.
- (6) Tree stakes and ties should be checked at intervals to prevent girdling. The ties should be loosened as the tree expands, or replaced as old ties break. Sufficient looseness should be left in the tie to permit movement and growth of the trees. Remove stakes when the trees no longer need support (probably 1970).
- (7) If some trees expire, replacement will not be necessary as sufficient trees were planted with expectation that some would die.

EXHIBIT B

File No.

Title

Levee Re-Vegetation right bank Sacramento River Mile
65.0, in 2 sheets.

C
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THE RECLAMATION BOARD
State of California

C
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December 8, 1967
4130.60.202

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

Dear Sir:

Reference is made to your letter of November 17, 1967 concerning transfer to the State of California of revegetation portion of the Sacramento River Bank Protection Project, Unit 5A, in accordance with Specification No. 3429.

The Reclamation Board, at its meeting of December 1, 1967, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

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

EXHIBIT F

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO RIVER AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM
WOODLAND HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS	DATE
ADDITIONS	
Paragraph 1-04 n. ----- add Contract No. 68-C-0077	December 1968
EXHIBIT B ----- add Drawing No. 50-4-4393	December 1968
EXHIBIT F ----- add letter of acceptance dated 24 December 1968	December 1968

UNIT NO. 122 - PART NO. 1

1-04.

n. Bank protection on east levee of Yolo Bypass (sites 1 & 2) was accomplished by Spike Voudouris under Contract No. DACW05-68-C-0077 and completed on 5 November 1968. Specification No. 3492. Drawing No. 50-4-4393.

EXHIBIT B

File No.

Title

50-4-4393

Bypass Levee Revetment Yolo and Sutter Bypass Levees, in 7 sheets.

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THE RECLAMATION BOARD
STATE OF CALIFORNIA

DEC 24 1968

4130.55.605

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

Dear Sir:

Reference is made to your letter of November 22, 1968 concerning transfer to the State of California of the Sutter and Yolo Bypass Levee Revetment Project, Sites 1, 2, 3 and 4 for maintenance and operation.

This work was constructed in accordance with Specification No. 3492, Contract No. DACW05-C-0077, Drawing No. 50-4-4393.

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

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO RIVER AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM
WOODLAND HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

REVISIONS	DATE
Paragraph 1-04 1. ----- add Contract No. 68-C-0077	January 1969

UNIT NO. 122 - PART NO. 1

Revise to read as follows:

1-04.

1. Planting of trees and shrubs on the waterside slope and berm along the right bank of the Sacramento River between river miles 63.8 and 66.0 was accomplished under Contract No. DACW05-67-C-0052 by Fairway Landscape Company, during the period from 13 April 1967 to 15 November 1967. Specification No. 3429, Drawing No. 6-4-2095.

encl 2⁴

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM
WOODLAND HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

ADDITIONS	DATE
Paragraph 1-04 m. ----- Add Contract No. 70-C-0111	January 1971
EXHIBIT B ----- Add Drawing No. 50-4-4529	January 1971
EXHIBIT F ----- Add letter of acceptance dated 9 February 1971	January 1971

UNIT NO. 122 - PART NO. 1

1-04.

m. Bank protection on east levee of Yolo Bypass was accomplished by Spike Voudouris and A. R. McEwen under Contract No. DACW05-70-C-0111 and completed on 1 September 1970. Specification No. 3769, Drawing No. 50-4-4529.

EXHIBIT B

File No.

Title

50-4-4529

Bypass Levee Revetment, East Levee Yolo Bypass,
in 4 sheets

And 1'

C
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THE RECLAMATION BOARD
STATE OF CALIFORNIA

C
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Y

Feb 9, 1971

File No: 4130.55.605
Your Contract: DACW05-70-C-0111

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

Dear Sir:

Reference is made to your letter of September 15, 1970, concerning transfer to the State of California of one rock revetment site on the east levee of the Yolo Bypass, from the Sacramento Bypass Upstream, for maintenance and operation.

This work was constructed in conformance with Specification No. 3769, Contract No. DACW05-70-C-0111, Drawing No. 50-4-4529.

The Reclamation Board at its meeting of October 9, 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

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

UNIT NO. 122 - PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM
WOODLAND HIGHWAY TO SACRAMENTO BYPASS

REVISIONS OR ADDITIONS

ADDITIONS	DATE
*Paragraph 1-04 n. ----- Add Contract No. 70-C-0008	March 1971
EXHIBIT B ----- Add Drawing No. 50-4-4310	March 1971
EXHIBIT F ----- Add copy of letter of acceptance dated 2 October 1970	March 1971

*This work was performed under the Sacramento River Bank Protection Project authorized by the Flood Control Act of 14 July 1960, Eighty-sixth Congress, Second Session, Senate Document No. 103.

1-04.

n. Bank protection on the west levee of the Sacramento River at Mile 70.4 (Unit No. 16) was accomplished by H. Earl Parker under Contract No. DACW05-70-C-0008 and completed on 23 September 1970. Specification No. 3390. Drawing No. 50-4-4529.

EXHIBIT B

File No.

Title

50-4-4310

Bank Protection, Various Locations Right and Left Banks, Sacramento River between Tisdale Weir and Sacramento, in 26 sheets.

C
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DEPARTMENT OF WATER RESOURCES
STATE OF CALIFORNIA

C
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Y

October 2, 1970

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

Subject: 4130.60.204
Your Contract 70-C-0008
Sacramento River Bank Protection
Project, Unit No. 16

Dear Sir:

Reference is made to the precompletion inspection of a portion of the above referenced project made on September 23, 1970.

The work sites inspected were as follows:

Site Mile 61.0, Left Bank, Sacramento River
Site Mile 70.4, Right Bank, Sacramento River
Site Mile 71.5, Right Bank, Sacramento River
Site Mile 71.9, Right Bank, Sacramento River
Site Mile 77.0, Right Bank, Sacramento River
Site Mile 77.85, Right Bank, Sacramento River
Site Mile 84.5, Right Bank, Sacramento River
Site Mile 96.8, Right Bank, Sacramento River
Site Mile 83.45, Left Bank, Sacramento River
Site Mile 89.6, Left Bank, Sacramento River
Site Mile 95.4, Left Bank, Sacramento River
Site Mile 95.6, Left Bank, Sacramento River

The work appeared to be completed in an acceptable manner and, insofar as could be determined visually, in conformance with the plans and specifications for the project. No deficiencies were noted.

Sincerely yours,

/s/ Clyde E. Shields
Clyde E. Shields, Chief
Construction Branch
Division of Design and Construction

EXHIBIT F

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

UNIT NO. 122-PART NO. 1

WEST LEVEE OF SACRAMENTO RIVER FROM
MILE 70.8 TO SACRAMENTO WEIR AND
NORTH LEVEE OF SACRAMENTO BYPASS AND
EAST LEVEE OF YOLO BYPASS FROM
WOODLAND HIGHWAY TO SACRAMENTO BYPASS

<u>REVISIONS OR ADDITIONS</u>		<u>DATE</u>
Paragraph 1-04	Add subparagraph t	February 1985
EXHIBIT B	Add Drawing No. 50-4-5718	February 1985
EXHIBIT F	Add copy of letter of transfer dated November 14, 1984	February 1985

SECTION I

1-04.

t. Emergency repairs to project levees on the left bank levee of the Yolo Bypass in RD 785, RD 827 and RD 1600, were accomplished under Contract No. DACW05-84-C-0119 by Sybon and Reid, Inc.

Specification No. 7219 Drawing No. 50-4-5718.

EXHIBIT B

<u>File No.</u>	<u>Title</u>
50-4-5718	Yolo County, California, Emergency Levee Repairs, East Bank Yolo Bypass, RD 1600, 827 and 785, in 1 sheet.