Revised 29 Dec 2016

SUPPLEMENT TO STANDARD OPERATION AND MAINTENANCE MANUAL

SACRAMENTO RIVER FLOOD CONTROL PROJECT

UNIT NO. 155
COLUSA WEIR AND TRAINING LEVEES
SACRAMENTO RIVER, CALIFORNIA

SACRAMENTO DISTRICT

CORPS OF ENGINEERS

U. S. ARMY

SACRAMENTO, CALIFORNIA

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Prepared in the Sacramento District
Corps of Engineers, U. S. Army
Sacramento, California
August 1955

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

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LOCATION	ADDITION OR REVISION	DATE
Exhibit F	Add copy of letter of transfer dated 1 Dec 1951	28 Dec 2010
Exhibit F	Add copy of letter of transfer dated 18 Dec 1951	28 Dec 2010
Exhibit F	Add copy of letter of transfer dated 2 Apr 1952	28 Dec 2010
1-04	Add subparagraph a	2 Feb 2011
Exhibit F	Add copy of letter of transfer dated 12 Dec 1967	2 Feb 2011
Exhibit F	Add copy of letter of acceptance dated 10 Jan 1968	2 Feb 2011
Exhibit B	Add drawing no. 50-4-4078	12 Oct 2011
Exhibit B	Add drawing no. TR 2-1011-3	27 Aug 2013
1-02	Add note to paragraph 1-02	31 Dec 2013
1-03	Add note to paragraph 1-03	31 Dec 2013
2-03	Add note to subparagraph a.	31 Dec 2013
Exhibit F	Add copy of letter dated 10 Mar 1967	31 Dec 2013
Exhibit F	Add copy of letter dated 24 Mar 1967	31 Dec 2013
Exhibit F	Add copy of letter of transfer dated 29 Nov 2016	29 Dec 2016

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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 7
F	Letter of Acceptance by State Reclamation Board-	Sheets 1 and 2
G	Semi-Annual Report Form - - - - - - - - - - - - - -	Sheets 1 and 2

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

UNIT NO. 155
COLUSA WEIR AND TRAINING LEVEES
SACRAMENTO RIVER, CALIFORNIA

SECTION I – INTRODUCTION

1-01. Location. – The improvement covered by this manual is that part of the Sacramento River Flood Control Project which comprises the Colusa Weir together with its outflow channel and training levees. The weir structure includes a concrete apron, cobble revetments and a highway bridge. The weir is located along the easterly side (left bank) of the Sacramento River one mile north of Colusa, California in Reclamation District No. 1005 as shown on location map exhibit A-1.

1-02. Project Works. – Colusa Weir is a reinforced concrete structure with crest length of 1,650 feet and width of 20 feet. It is flanked by training levees that extend from the Sacramento River to Butte Basin. A highway bridge supported by concrete pile bents traverses the length of the Weir. For more complete details of the structure see drawings of Exhibit B. (Note - Levees extended by Rec. Board in 1968)

1-03. Protection Provided. – The primary function of Colusa Weir and training levees is to provide a means for release of excess overflow waters of the Sacramento River into Butte Basin. Adjoining training levees provide direct protection to adjacent agricultural lands. The project design capacity of this weir is 70,000 cubic feet per second. (Note - There is no design flood plane – use 3 foot freeboard below top of As-constructed levees to determine flood plan elevation)

1-04. Construction Data and Contractor. – The Colusa Weir and Training Levees described in this manual form an integral part of the Sacramento River Flood Control Project. Construction of Colusa Weir was accomplished by the Corps of Engineers under Contract No. W-1105-eng-1063 with Fredrickson and Watson Construction Company. Work was started on 16 October 1932 and completed on 30 January 1933. Drwg. 50-9-1326-1, 50-9-1326-2, 50-9-1333

a. Bank sloping and stone protection on the Sacramento River at Site Mile 147.55, left bank, was completed on 15 November 1967 under Contract No. DACW05-68-C-0014. Specification No. 3288, Drawing No. 50-4-4078.

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 66.0 on the U.S. Corps of Engineers and State Division of Water Resources continuous water stage recorder and staff gage located on the upstream end of Colusa Weir. This gage is 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 18 December 1951, as shown on copy of letter contained in exhibit F.

1-08. Superintendent. – The name and address of the Superintendent appointed by the State or acting as a representative of the State Division of Water Resources 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. Drainage and Weir Structure.

a. Description. The Colusa Weir is a fixed concrete drainage structure located along the easterly side of the Sacramento River about one mile north of Colusa, California. The Weir is a reinforced concrete structure, placed on steel sheet piling cut-off walls on the upstream side and on wood sheet piling cut-off walls on the downstream side. The base of the Weir is set at elevation 61.8 (U. S. Corps of Engineers datum). Cobble paving adjoins the concrete base of the Weir and extends for a distance of 20 feet above and below the structure. A highway bridge supported by concrete pile bents, set at 40 foot centers traverses the length of the Weir. Upstream from the Weir revetted training levees extend 400 feet to the Sacramento River. Downstream from the Weir the training levees extend about 5,500 feet to the Butte Basin. For more complete details of the structure see drawings of Exhibit B.

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

(1) Maintenance - Paragragh 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.

2-02. Channel.

a. Description. The channel extends from the Sacramento River to Butte Basin as described in paragraphs 1-02 and 1-03.

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 66.0 on the gage located on the upstream end of the Colusa Weir, 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 at Colusa Weir reaches the gage readings to indicated above. The Superintendent shall cause readings to be taken at intervals of two to four hours during the period when the water surface is above flood-flow stage 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.

2-03. Levees.

a. Description. The training levees have a crown width of 20 feet with slopes of 1 on 2 on the landside and 1 on 3 on the channel side and are paved with cobbles from station 2+80 to the lower end on the channel side; also on the landside slopes a cobble blanket has been placed from station 14+00 to the lower end of the training levees. For complete details of the training levees in this project refer to paragraphs 1-02 and 1-03 of this manual and Drawing No. 50-9-1333 of Exhibit B. Levees extended by Rec. Bd in 1968. See Rec Bd, dwg # TR-2-1011-3 (9 sheets) filed in back.

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.

2-04. 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) Utility Relocation. The County road on top of the Sacramento River Levee was located over a concrete bridge which extends the full length of Colusa Weir. This bridge is 20 feet wide from curb to curb.

(2) Hydrographic Facilities. U. S. Corps of Engineers and State Division of Water Resources continuous water stage recorder and staff gage located near the north end of Colusa Weir.

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

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

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

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

SECTION III-REPAIR OF DAMAGE TO PROJECT WORKS AND METHODS OF COMBATING FLOOD CONDITIONS

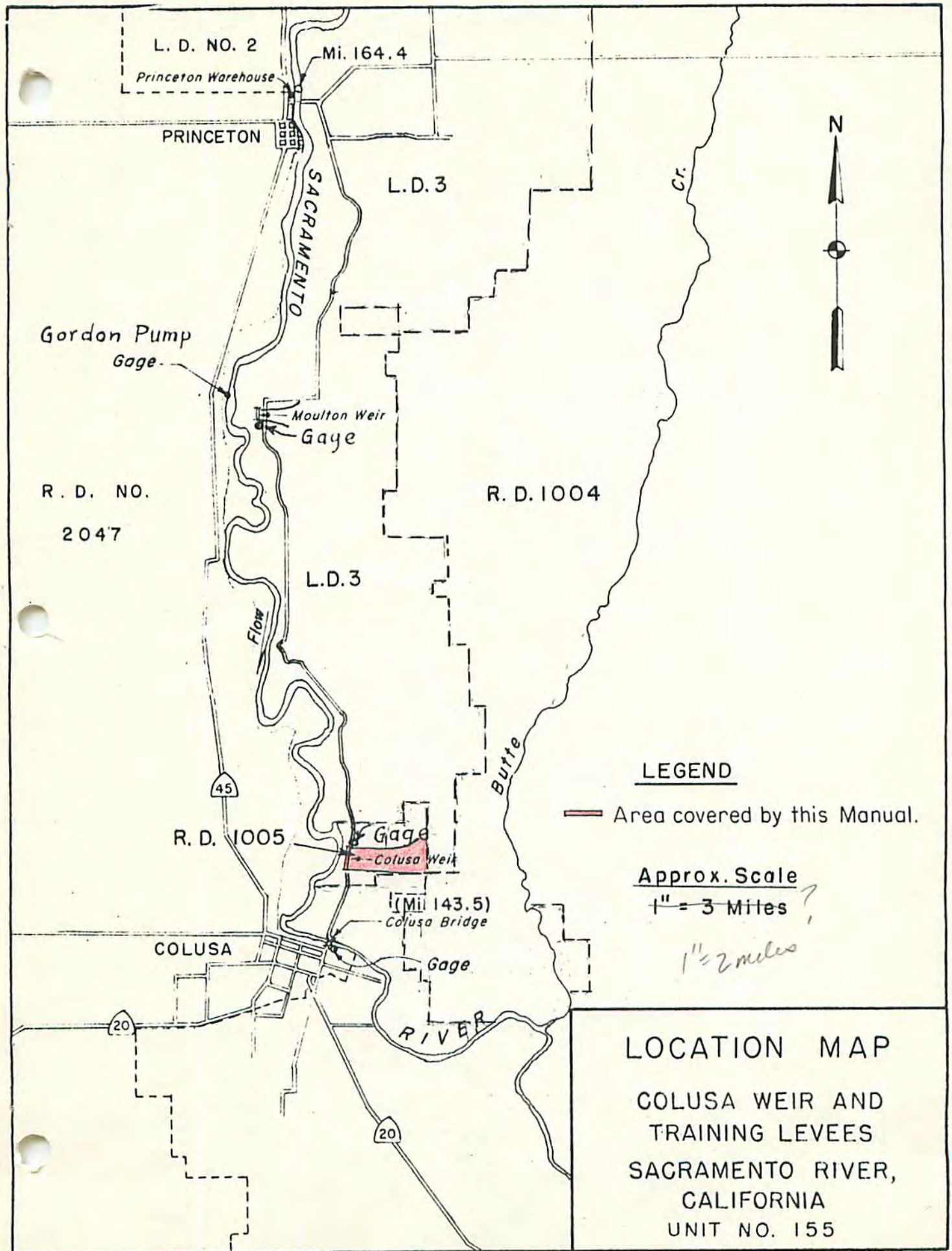
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the Superintendent will contact a representative of the Division of Water Resources, State of California who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

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

EXHIBIT A

FLOOD CONTROL REGULATIONS

(See Standard Manual)



LOCATION MAP

COLUSA WEIR AND TRAINING LEVEES

SACRAMENTO RIVER, CALIFORNIA

UNIT NO. 155

EXHIBIT A - 1

EXHIBIT B

"AS CONSTRUCTED"
DRAWINGS

(See separate folder for the following Drawings)

File No.	Title
50-9-1326-1	Colusa Weir – Viaduct Details. Sheets 3 and 4.
50-9-1326-2	Colusa Weir – Plan, Location & Borings; Weir Details and Viaduct Details. Sheets 1, 2 and 3.
50-9-1333	Colusa Weir – Levees. 1 sheet.
TR 2-1011-3	Rec. Bd. Dwgs. for extension of levees.
50-4-4078	Bank Protection, Various Locations, Right and Left Banks Sacramento River and Feather River, in 20 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

COLUSA WEIR AND TRAINING LEVEES

Inspector's Report Sheet No. _____ Inspector_____

Date _____ Superintendent_____

Item	Remarks
(a) Location by Station	
(b) Settlement, sloughing, or loss of grade	
(c) Erosion of both slopes	
(d) Condition of roadways, including ramps	
(e) Evidence of seepage	
(f) Condition of 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.

Item (c) If sufficient erosion or gullying of slopes of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.

Item (d) Note any other 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

COLUSA WEIR AND TRAINING LEVEES

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 channels.

Item (c) Note nature and extent of debris and refuse that might cause bridges over the channel.

Item (d) Report any construction along or above the diversion channel that has come to the attention of the inspector and that might affect the functioning of the project.

Item (e) Indicate any change in grade or alignment of the channels, either by deposition or sediment or scour, that is noticeable by visual inspection. Estimate amount and extent.

Item (f) Indicate any change that has taken place in the riprap such as disintegration of the rock, erosion, or movement of the rock. Note the presence of vegetal growth through the riprap.

Item (g) Note any damage or settlement of the footings of the bridges. Indicate condition of wooden structures and if repainting is required. Indicate condition of bridge approaches, headwalls, and other appurtenances.

Item (h) Indicate maintenance measures that have been performed since the last inspection and their condition at time of this inspection.

Item (i) Record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

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

CHECK LIST NO. 4

WEIR STRUCTURE

COLUSA WEIR

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

Item	Remarks
(a) Condition of concrete bridge and piling	
(b) Condition of concrete weir section	
(c) Condition of riprapped sections	
(d) Vegetal growth	
(e) Accumulation of trash and debris	
(f) Measures taken since last inspection	
(g) Comments	

Instructions For Completing Sheet 6, Exhibit E
(To be printed on back of Sheet 6)

Item (a) Inspect condition of concrete bridge and piling bents and record observations.

Item (b) Note condition of concrete weir section for abrasion, chipping or spalling.

Item (c) Note condition of riprap such as erosion, movement of the rock or presence of vegetal growth through the riprap.

Item (d) Note nature, extent, and size of vegetal growth in and around the weir structure.

Item (e) Note nature and extent of debris that might cause scour around the weir or bridge structure or tend to decrease the channel capacity.

Item (f) Indicate maintenance measures that have been performed since the last inspection and their condition at time of this inspection.

Item (g) Record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other items.

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.

EXHIBIT F

LETTER OF ACCEPTANCE

BY STATE RECLAMATION BOARD

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

NOV 29 2016

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

Dear Ms. Gallagher:

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

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

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

Sincerely,

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

Enclosures

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

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

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

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

TRS
Coleman

STATE OF CALIFORNIA—RESOURCES AGENCY

RONALD REAGAN, Governor

THE RECLAMATION BOARD

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

JAN 10 1968

4130.60.203

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

Dear Sir:

Reference is made to your letter of December 12, 1967 concerning transfer to the State of California of the Sacramento River Bank Protection Project, Unit No. 12, Site Mile 147.55, left bank and Site Mile 79.5, right bank, in accordance with Specification No. 3288.

The Reclamation Board, at its meeting of January 5, 1968, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A. E. McCOLLAM
Chief Engineer and
General Manager

JHMacC:pa

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Units 123, 155

Copy to [illegible] 11 [illegible]

12 December 1967

SPKKO-F

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

Gentlemen:

Reference is made to the joint inspection of 8 December 1967, made for the purpose of transferring a portion of the Sacramento River Bank Protection work (Unit #12), to the State of California for operation and maintenance.

The flood control work consisting of bank sloping and placement of stone bank protection on Sacramento River at Site Mile 147.55, left bank and Site Mile 79.5, right bank is listed on the attached inclosure. The work was completed on 15 November 1967, in accordance with Specification No. 3288, Contract No. DACW05-68-C-0014, Drawing No. 50-4-4078.

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

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

This portion of the project work will be added by amendment to the operation and maintenance manual, Supplement Nos. 123 & 155, Sacramento River Flood Control Project. Copies will be furnished your office at a later date.

Sincerely yours,

CRAWFORD YOUNG
Colonel, CE
District Engineer

Units 123/155

1 Incl
as stated

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

RAMPAIA/p
COLEMAN
HENSON
YOUNG

To Alice Hukari 12 DEC 67 JK

SUMMARY OF SACRAMENTO RIVER BANK PROTECTION PROJECT
PORTION OF UNIT #12

LEVEE MILE SITE MILE	STONE PROTECTION STATION	LINEAL FEET	ROCK TOE WALL STATION	LINEAL FEET
Right Bank:				
79.5	33+00 to 56+00	2300	-	-
Left Bank:				
147.55	17+00 to 28+00	1100	20+40 to 21+10	70
			23+40 to 25+00	160

Colusa Basin

Lynn - Is this going up as part of the project? If so, how does it effect the oper's maint. manual?

TS. File

SPKGP

24 March 1967

Edmaston

Report filed in bookcase behind "Red"

Reclamation Board
State of California
1416 Ninth Street
Sacramento, California 95814

Gentlemen:

Reference is made to your letter of 10 March 1967 which requested our views on the plan proposed in Office Report for the Reclamation Board entitled, "Colusa Weir Investigation."

Deposition of sediment within the training levees downstream from Colusa Weir and extending into Butte Basin has been developing since construction of Colusa Weir in 1937. The deposition has reached a stage where the functioning of Colusa Weir may soon be adversely affected, and the channel of Butte Creek may be in danger of filling with sediment. The covering of Laux Road by debris is of course a problem of some years standing. Accordingly, remedial action is desirable.

We concur in the proposed stage 1 construction plan in the report. This plan generally consists of: (a) clearing of trees, brush and deposited debris within the existing Colusa Bypass training levees and beyond; (b) extending a levee north and east from the terminus of the north existing training levee in order to limit overflow and deposition of materials north of the vicinity of Laux Road; (c) relocating Laux Road; (d) providing necessary drainage for lands adjacent to the levee extension and (e) planting vegetative screening as required.

The second stage of the proposed plan would consist of construction of a sedimentation basin in the existing bypass and extension of the south training levee southerly one-half mile and easterly about one mile. Before stage 2 work is done it is recommended that the problem be restudied in the light of the conditions then prevailing.

Red-
I assume that if it involves changing a project feature "as constructed" it will become part of the project and will require a change in the manual. If its an additional or new feature it will not be a part of project & CB will come up with O & M requirement

s/ Henson

SPKGP
Reclamation Board

24 March 1967

We also concur that a rigid annual maintenance program is needed to maintain the proper functioning of the project for flood control.

Sincerely yours,

CRAWFORD YOUNG
Colonel, CE
District Engineer

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

cc: Const Oper Div
Proj Plng Br
Levees
Inv Sec A

JOHNSON/11

DOYLE

BARSDALE

GOMEZ

HART

YOUNG

STATE OF CALIFORNIA—RESOURCES AGENCY

RONALD REAGAN, Governor

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*

March 10, 1967

Refer to: 1004.70.300

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

Dear Sir:

Enclosed is a report prepared by the Department of Water Resources for the Reclamation Board and a modification plan for the Colusa Weir portion of the Sacramento River Project.

You will note from the report that the Board adopted phase 1 of the project at its September 15, 1966 meeting and the Board has budgeted in Fiscal Year 1967/68 the project to construct the first phase.

In view of the fact that the proposed construction would modify the levee system of the Sacramento River Project, it is requested that you give us your views on the necessity and urgency for proceeding with this plan and that you approve the plan as adopted by the Board.

Very truly yours,

A E McCollam

A. E. McCOLLAM
General Manager

AEM:ms

Encls

EARL WARREN
GOVERNOR

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

April 2, 1952

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

Dear Sir:

This is in reply to your 1 December 1951, your file SPKKA 824.3 (Sac.Riv.F.C.P.) transferring levees and contiguous waterway banks to The Reclamation Board as follows:

Item 1 a. Southerly Moulton Weir Training Levee

Item 2 b. Northerly Moulton Weir Training Levee

Item 3 c. Southerly Colusa Weir Training Levee

Item 4 d. Northerly Colusa Weir Training Levee

Item 5 e. Grasshopper Diversion Channel from Grasshopper Creek to South Dry Creek

Levees, a, b, c, and d themselves constitute all of the waterway banks involved. Maintenance of these levees since their construction and the adjoining by-pass areas has been continuously performed by the State as required by Section 8361 of the Water Code of the State of California and Chapter 774, Statutes of California of 1927. Acceptance of these levees has been an actual fact since their construction. Formal acceptance by The Reclamation Board was made December 18, 1951.

Grasshopper Diversion Channel is less than one mile in length and does not constitute a unit capable of single economic maintenance. Formal acceptance will be made upon formal transfer of the south levee of South Dry Creek and the north levee of Bear River east of Reclamation District No. 817, at which time Sections

Items 1 to 5

8400 to 8447 of the Water Code of the State of California, may become operative.

No Federal maintenance of this channel has been done and none is required.

Yours very truly,

THE RECLAMATION BOARD

By _____
A. M. BARTON
Chief Engineer and General Manager

AMB:FK

cc: Chief of Engineers
Washington, D. C.

Division Engineer
South Pacific Division
Corps of Engineers, U. S. Army
P.O. Box 3339, Rincon Annex
San Francisco 19, California

State Engineer
Sacramento

Items 1 to 5

(2)

(3)

2

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	1 Dec.1951 N. and S. Training* Levees Moulton Weir*	Maintained by State
(3)-(4)	1	Do N. and S. Training* Levees Colusa Weir*	Maintained by State
(6)	2	3 Dec.1951 W. Levee Sacramento River, Mile 177.5 Mile 174.1	Maintained as Maintenance Area No. 2
(9)	3	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)	3	Do N.&S. Levees Sacramento By-pass*	Maintained by State. Waterward slopes on 4 to 1 not required.
(21a)	4	6 Dec.1951 Back levee Egbert District*	Maintained by R. D. No. 536
(22)	4	6 Dec.1951 W. Levee Yolo By-pass Lindsey* Slough to Watson Hollow Drain*	Maintained by R. D. No. 536
(24)	4	Do N.Levee Watson Hollow Drain*	Do
(16)	5	6 Dec.1951 W.Levee Sacramento River Mile 59.0 to Lake Washington Barge Canal	Maintained by R. D. No. 900
(18)	5	Do W. Levee Sacramento Riv.Mile 50.8 to 50.5	Bank protection contract. Maintained by R. D. No. 765

Copy to USED.

(1)

3

Accepted Items

No.	Date of Letter	Levee Location	Remarks
6 (12)(13)(14)(15)	6 Dec.1951	Levees of Wadsworth Canal* South levees of E. and W. Intercepting Canals.	Maintained by State. Waterward slopes on 4 to 1 not required.
7 = 329 (87-A)	7 Dec.1951	Site 2 Part A. W.Levee Sacramento River-Mile 28.5 -Grand Island.	Maintained by R.D. No. 3. Completed contract.
= 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 (51)(52)(53)(54)(55)(56)(57)	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.
8 (58)(59)(60)(61)(62)(63)	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.
8 (64)(65)(66)(67)(68)(69)(70)	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.
(71)(72)(73) 8	Do	West levee,Sutter By-pass*	Maintained by R.D.Nos. 70, 1660, 1500.Condition upon completion of remaining part to standard section.
(74) 8	Do	North levee Tisdale By-pass*	Maintained by R.D.No. 1660. Waterward slope of 4 to 1 not required.
(75) 8	Do	South levee Tisdale By-pass*	Maintained by R.D.No.1500. Waterward slope of 4 to 1 not required.
(76) 8	Do	East levee Sutter By-pass*.	Maintained by State.
(81) 9	Do	W. levee Sacramento River Mile 35.15 to 35.86.	Maintained by R.D.No. 150 (Merritt Island).Completed contract bank protection.

(21)

(2)

4

Accepted Items

No.	Date of Letter	Levee Location	Remarks
(91) 10	8 Dec. 1951	Cross levee Steamboat Slough to Sacramento River.*	Maintained by R.D. No. 3 (along U.S.spoil bank).
(140) 11	Do	N. levee American River from Jibboom St.Bridge to Sacramento River.	Maintained by R.D. No. 1000.
(141) 11	Do	E. levee Sacramento River American River to Natomas Cut.	Maintained by R.D.No. 1000.
(142) 11	Do	E. bank Sacramento River At Moulton Weir.	Maintained by State.
(143) 11	Do	E. Levee Sacramento River Mile 158.5 to Mile 164.4.	Maintained partly by State; remainder by Levee District.No. 3, Glenn County, Completed Contract.
(146) 11	Do	W. levee Sacramento River Mile 61.8 to Mile 62.65.	Maintained by Maintenance Area No. 4. Completed contract.
(147) 11	Do	W. Levee Sacramento River Mile 62.65 to Mile 63.1.	Maintained by R.D. No. 537 Completed contract.
(148) 11	Do	Sacramento Weir.	Maintained by State.
(152) 11	Do	Fremont Weir.	Maintained by State.
11 (153) (156) (157)	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.
(158) 11	Do	W. Levee Sacramento River Mile 100.6 to Mile 101.4	Maintained by Sacramento River West Side Levee District. Completed contract.
11 (160) (161) (162) (163)	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.
11 (165) (166) (167) (168) (169) (170)	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.

(21)

(3)

5

Accepted Items

No.	Date of Letter	Levee Location	Remarks
11 (171-172)	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.
11 (173-174)	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.
11 (175)	Do	N. Levee Yuba River from back levee of Marysville upstream 1.8 miles	Maintained by Marysville Levee Commission.
11 (176)	Do	S.Levee Yuba River from S.N.R.R. to S.P.R.R.	Maintained by R.D. No. 784.
11 (177)	Do	N.Levee Bear River from Feather River to W.P.R.R. Interceptor	Maintained by R.D. No. 784.
11 (178)	Do	E. Levee R.D.784 (W.Levee W.P.R.R.Interceptor) Bear River to intersection with W.P.R.R. in S½ Sec.17, T.14 N.,R. 4 E.	Maintained by R.D. No. 784.
11 (179-180)	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.
11 (181-182-183-184-185-186-187-188)	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.
11 (190)	Do	N.&S. levees Willow Slough Interceptor*	Maintained by State and R. D. No. 2035.
11 (191-192)	Do	N.&S. levees of Putah Creek	Maintained by State.
11 (197-198)	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)

6

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

38 ✓ 19A ✓ — Covered by letter dated 16 Nov. 1951 — 321

303 Covered by letter dated 17 Nov. 1951 → 53A ✓

304 → 54A ✓

28 ✓ 50 ✓

*No waterway banks contiguous to these levees.

(21)

5

REGISTERED MAIL
Return Receipt
Requested

Arrieta (1)

Letter No 1

1 DEC 1951

Legend Notes:
Accepted Items (15)
Not accepted Items (18)

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

Refer. Recl. Board letter 2 April 1952:
Items (1) to (4) were formally accepted by the Board on 18 Dec. 1951.
Item (5) will not be accepted. The Board considers this unit is not suitable for maintenance.
The Board requests formal transfer of ~~Levee~~ South Levee of South Dry Creek and North Levee of Bear River east of Reclamation District No. 817

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

Ref. map - Reach No. 45: Information ~~showing~~ acceptance of levees east the S.P.R.R is incorrect.

Gentlemen:

A recent review of the status of the works comprising the Sacramento River Flood Control Project as authorized prior to the Flood Control Act of 1944 has disclosed that the following works meet the requirements of the Project:

Reach 12 (1.) a. Southerly Moulton Weir Training levee from Sacramento River southeasterly to the County Road. 154

Reach 11 (2.) b. Northerly Moulton Weir Training levee from Sacramento River to Moulton Weir. 154

Reach 12 (3.) c. Southerly Colusa Weir Training levee from Sacramento River easterly to its terminous in Butte Basin. 155

Reach 12 (4.) d. Northerly Colusa Weir Training levee from Sacramento River easterly to its terminous in Butte Basin. 155

Reach 45 (5.) e. Grasshopper Creek Diversion Channel, easterly from Wheatland, from its head at Grasshopper Creek northerly to South Dry Creek. 146

The works covered by Items a. to e., inclusive, above, although complete have not been formally transferred as contemplated by the Project documents. Accordingly said works, together with the waterway banks contiguous thereto, are hereby transferred to the State of California for maintenance and operation.

106 to 158

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

Reach 45 ?

Items 1 to 5 (1)

Letter No. 1

(1)

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

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,

C. C. Haug
Colonel, Corps of Engineers
District Engineer

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

(1)

THE RECLAMATION BOARD
of the
State of California

11 March 1953

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

Dear Sir:

Reference your letters file No. SPKKO-P 824.3 (Sac. R.F.C.P.) dated 1 December 1951, 3 December 1951, 4 December 1951 three letters dated 6 December 1951, 7 December 1951 and six letters dated 8 December 1951. Subject letters transferred to the Reclamation Board for operation and maintenance, various levee units of the Sacramento River Flood Control Project.

The Reclamation Board at its 18 December 1951 meeting, on behalf of the State of California, accepted certain of the transferred units together with their contiguous waterway banks for operation and maintenance, and rejected others. A tabulation of the units so accepted or rejected is attached hereto.

Yours very truly

A. M. BARTON
Chief Engineer and General Manager
The Reclamation Board

/s/ D. M. CARR

EXHIBIT F
Sheet 1 of 2

18 December 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	1 December 1951	N and S Training Levees Colusa Weir	Maintained by State
*	* * * * * * *	* * * * * * *	* * * *
8	8 December 1951	E. Levee, Sacramento River At Colusa Weir	Maintained by State
*	* * * * * * *	* * * * * * *	* * * *

NOTE: Only items pertaining to Operation and Maintenance Manual No. 155 are included in the above copy.

EXHIBIT F
Sheet 2 of 2

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 - Colusa Weir and training levees 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 stages (water level at 66.0 on the gage at north end of colusa Weir) occurred on the following dates:

Dates	Maximum Elevation
_____	_____
_____	_____
_____	_____

EXHIBIT G
Sheet 1 of 2

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:

	Labor	Material	Equipment	Overhead	Total
1. Inspection					
2. Maintenance					
3. Flood fighting operations					
TOTAL					

Respectfully submitted,

_____
Superintendent of Works

EXHIBIT G
Sheet 2 of 2