Maint Area #1, RD 2047,

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UNIT Nº 6 OF THE SACRAMENTO RIVER FLOOD CONTROL PROJECT

SUPPLEMENT TO STANDARD OPERATION AND MAINTENANCE MANUAL

WEST LEVEE, SACRAMENTO RIVER, COLUSA TO PACKERS

SACRAMENTO DISTRICT

CORPS OF ENGINEERS

DEPARTMENT OF THE ARMY

SACRAMENTO, CALIFORNIA

Reclamation Board

Incl 12

FILE

Unit No. 6 of the

Sacramento River Flood Control Project

West Levee of the Sacramento River, Colusa to Packers, Calif.

Supplement to

Standard

Operation and Maintenance Manual

Sacramento District
Corps of Engineers
U. S. Army
Sacramento, California

Unit No. 6 of the

Sacramento River Flood Control Project

West Levee of the Sacramento River, Colusa to Packers, Calif.

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Exhibits

"B" As Constructed Drawings No. 50-4-2244, in 6 sheets, dated January 1945

"E" Check List No. 2, in two sheets

"F" Resolution adopted by the Reclamation Board 21 August 1946

UNIT NO. 6 OF THE

SACRAMENTO RIVER FLOOD CONTROL PROJECT

SUBJECT TO FLOOD CONTROL REGULATIONS

1. Levees

(a) Description. Unit No. 6 of the flood control works described below forms an integral part of the Sacramento River Flood Control Project. It consists of a portion of the West Levee of the Sacramento River from Colusa to Packers as shown on attached Drawings 50-4-2244, 7 sheets, and dated January 1945. The drainage structures tabulated under the attached Exhibit "E" are shown on drawing 50-4-2246 dated January 1945 and on drawing 50-4-2247 dated January 1945.

Under the program provided by the Sacramento River Flood Control Project this levee has been enlarged to form a crown 20 feet wide, a landside slope of one vertical on two horizontal and a riverside slope of one vertical on three horizontal. Construction also included a gravel road surfacing 12 feet wide on top of the levee with turnouts at 1,000-foot intervals, 50 feet long and 18 feet wide, and the necessary drainage structures, road approaches and appurtenances. All the structures are listed in Exhibit "E".

(b) Location. The levee is located within the boundary of Reclamation District No. 2047 along the westerly bank of the Sacramento River between Colusa and Packers, California and is approximately 85 miles northerly of Sacramento, California. The project extends from Sta. 62+00 northerly to Sta. 544+50, a distance of 48,250 feet.

(c) Protection Afforded. This levee provides direct protection to Reclamation District No. 2047 against high water of the Sacramento River and its tributaries in this area. The grade of the adopted flood profile along the main channel of the Sacramento River varies from Elevation 72.5 at the lower end to Elevation 85.5 at the upper end. (All elevations are referred to U. S. C. E. Datum). The levee grade provides a freeboard of three feet above the flood profile. It is estimated that a flood flow of 170,000 second feet in the main channel of the Sacramento River in this area will produce the adopted flood profile. Such a flow is not expected to occur more than once in 200 years.

(d) Contractor. The enlargement of the levee described above was performed by Morrison-Knudsen Co., Inc., contractors, under Contract W-04-167-eng-1061; a copy of which is on file in the U. S. Corps of Engineers' office, Sacramento District, Sacramento, California.

(e) Beginning and Completion of Construction. Construction was started on 3 September 1945, and completed on 2 May 1947.

(f) Outstanding Construction Features. In general, all construction features are based on Standard plans and specifications, and the details are fully covered in the attached drawings listed below. (See Exhibit "B")

File No.	Title
50-4-2244	Proposed levee enlargement, Sacramento River Levees, West levee, Sacramento River, Colusa to Packers.
50-4-2246	Irrigation Structure
50-4-2247	Irrigation Structure

2. Maintenance and Operation. The levee and drainage structures referred to above should be maintained and operated in accordance with the provisions covered under the Operation and Maintenance Manual for the Sacramento River Flood Control Project. Copies of this Manual may be obtained from office of the District Engineer, Corps of Engineers, Sacramento, California.

The responsibility for the maintenance and operation of this unit of levee was accepted by the Reclamation Board of the State of California on 21 August 1946, as shown under attached resolution, Exhibit "F".

Exhibit "E"

CHECK LIST NO. 2

Drainage Structures located along the westerly bank of the Sacramento River between Colusa and Packers, California and approximately 85 miles northerly of Sacramento, California, as shown on Drawing No. 50-4-2244 in 7 sheets.

HIGHWATER PERIOD. This term is used under Paragraph 4-02(c)3b of the Standard Manual; it applies to floods rising above the reading of 68.0 on the U. S. Geological Survey gage located on the right bank of the Sacramento River immediately downstream from the Colusa bridge. Zero of this gage is set to Elev. 0.0 U. S. C. E. datum.

Location (Station)	Corr. Metal Pipe	Steel Pipe	Gates Model No.	Frames Height Feet	Elevation of Invert U.S.C.E. Datum	Gage reading at for Structures to be closed	Recommended Maintenance
63+53	36"		Sliding Metal Gate	71.5	61.5		
103+18	dbl.36"		2-101	72.4	61.4		
120+00	54"		101	73.0	61.25		
120+60	24"		101	73.0	62.1		
150+20	30"		101	73.3	62.1		
177+67	36"		101	74.0	66.1		
197+19	36"		101	76.6	65.5		
198+00	36"	18"	101& 100	74.6	65.5		
247+86	30"				66.7		

EXHIBIT "E"
Sheet 1 of 2 Sheets

CHECK LIST NO. 2

Location (Station)	Corr. Metal Pipe	Steel Pipe	Gates Model No.	Frames Height Feet	Elevation of Invert U.S.C.E. Datum	Gage reading at for Structures to be closed	Recommended Maintenance
303+70	36"				68.5		
331+31	36"		101	79.6	70.2		
339+74	72"		Sliding Metal Gate	84.2	66.5		
538+42		24"	100		72.2		

Inspected by_____

Date_____

EXHIBIT "E"
Sheet 2 of 2 Sheets

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RESOLUTION

PASSED AND ADOPTED BY THE RECLAMATION BOARD

AUGUST 21, 1946

- - - -

WHEREAS The Reclamation Board has heretofore approved certain items of "new construction"; consisting of (1) the enlargement and construction of the West levee of the Sacramento River from Colusa to Packers, in Reclamation District No. 2047; (2) the enlargement and construction of the West levee of the Sacramento River and the South levee of Sycamore Slough located near Knights Landing in Reclamation District No. 730; and (3) the enlargement and construction of the West levee of the Feather River, two miles north of Yuba City, northerly twelve miles, a portion of which lies in Reclamation District No. 777, and a portion lying in Levee District No. 9 of Sutter County; and

WHEREAS the War Department, Corps of Engineers, District Engineer, Sacramento District, under dates of 12 August, 1946, and 13 August, 1946, has notified The Reclamation Board of the completion of the three items of levee enlargement and construction, and has transferred said portions of levee to the State of California for maintenance and operation by the proper local interests; and

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

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

RESOLVED AND ORDERED that the West levee of the Sacramento River from Colusa to Packers, together with the berms and appurtenant structures thereof, be turned over to Reclamation District No. 2047 for maintenance and operation, as the legally authorized function of said District; and be it further

RESOLVED AND ORDERED that the West levee of the Sacramento River and the South levee of Sycamore Slough located and being near Knights Landing, lying in Reclamation District No. 730, be, and the same is hereby transferred to said Reclamation District No. 730 for maintenance and operation as the legally authorized function of said District; and be it further

RESOLVED AND ORDERED that such portion of the West levee of the Feather River from two miles north of Yuba City northerly twelve miles, as lies in Levee District No. 9 of Sutter County, be, and the same is hereby transferred to said Levee District No. 9 of Sutter County for maintenance and operation, as the legally authorized function of said District, and that the remaining portion of said section of levee, so much thereof as lies within Reclamation District No. 777, be, and the same is hereby transferred to said Reclamation District No. 777 for maintenance and operation as the legally authorized function of said District.

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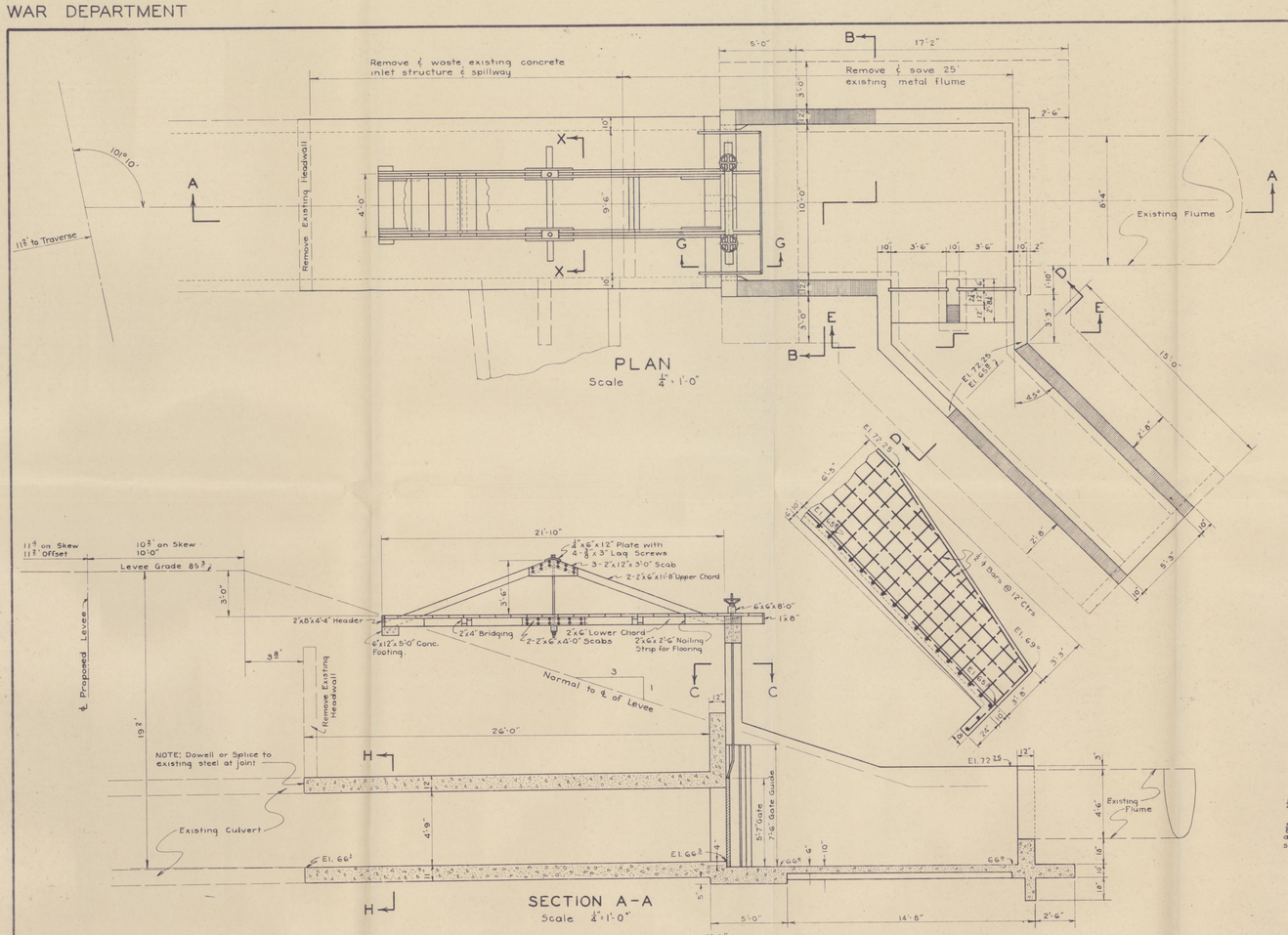
STATE OF CALIFORNIA)
COUNTY OF SACRAMENTO) ss.
Office of The Reclamation Board)

I, S. A. HONAKER, Assistant Secretary of The Reclamation Board, do hereby certify that the above and foregoing is a true and correct copy of a Resolution made by said Board at its meeting held August 21, 1946.

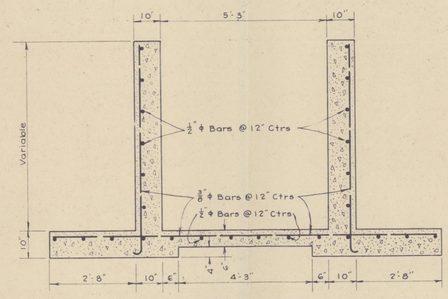
IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of The Reclamation Board this 22 day of August, 1946.

/s/ S. A. Honaker
/t/ S. A. HONAKER
Assistant Secretary
The Reclamation Board



PLAN
Scale 1/4" = 1'-0"

SECTION A-A
Scale 1/4" = 1'-0"



SECTION D-D
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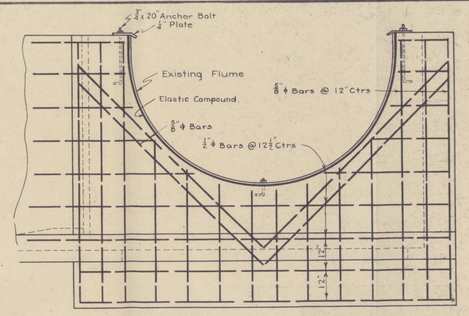

END VIEW OF SADDLE
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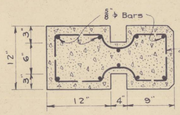

SECTION J-J
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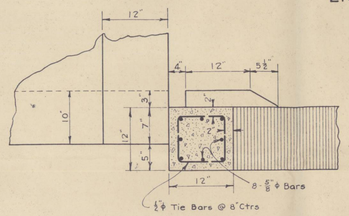

SECTION C-C
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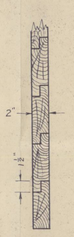
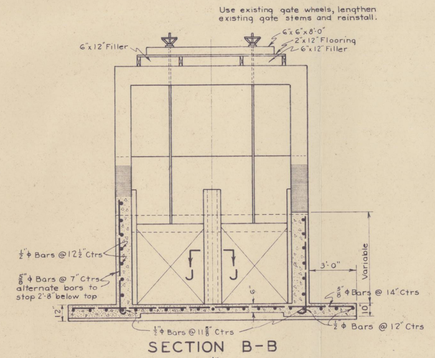


DETAIL OF FLASHBOARDS
Scale 1½" = 1'-0"



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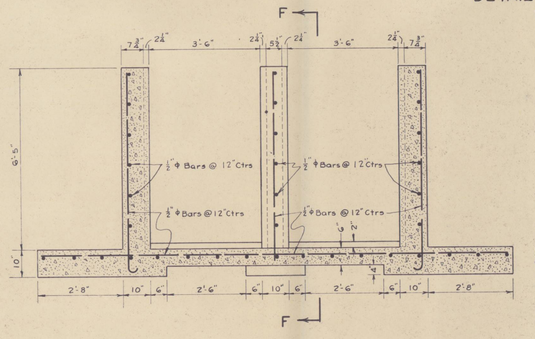

SECTION E-E
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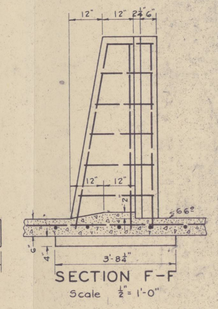

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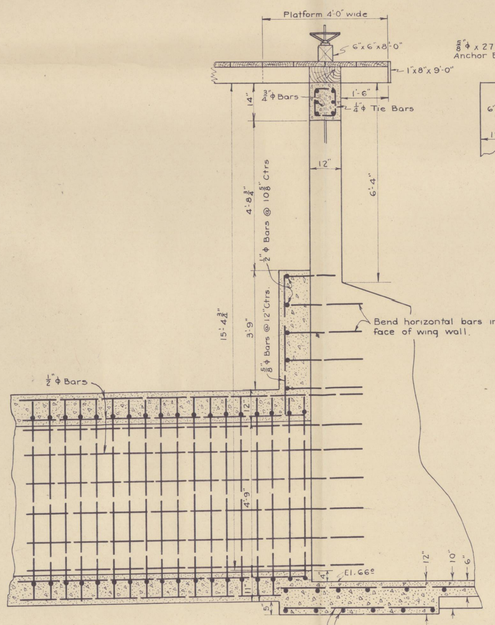

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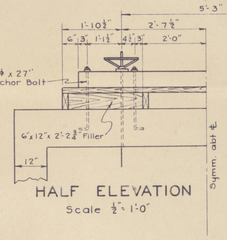

HALF ELEVATION
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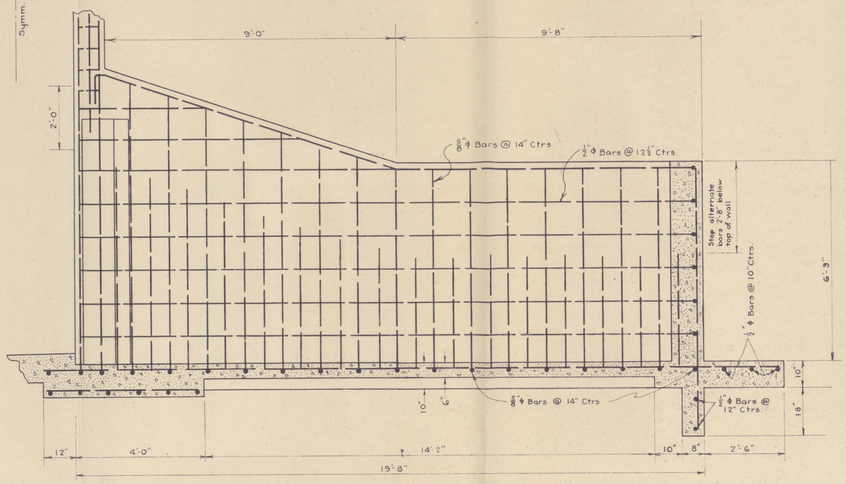
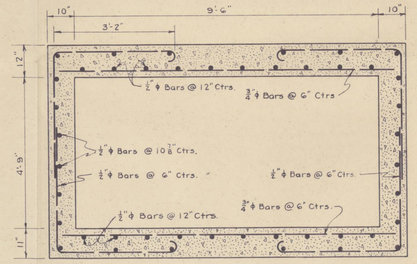
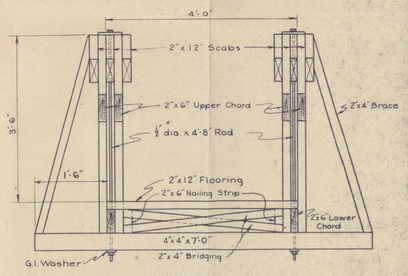


WING WALL REINFORCING
Scale 1/2" = 1'-0



SECTION H-H
Scale 1/2" = 1'-0"



SECTION X-X
Scale 3/4" = 1'-0"

NOTES

All elevations are referred to U.S.E.D. datum: Mean Lower Low Water Suisun Bay = 3.6 ft below Mean Sea Level.

Embedment of bars in anchorage and lapping of spliced bars to be 40 diameters.

All bends to be not less than 6 diameters.

All main reinforcing bars to be placed 2" clear from face of concrete except as shown.

Wood gates to be constructed with 3" redwood lumber bolted to cleats arranged to fit the existing gate stems.

AS CONSTRUCTED

SACRAMENTO RIVER CALIFORNIA
FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT

WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS

IRRIGATION STRUCTURE AT STATION 370+90

In 1 Sheet — Sheet No 1

Scales as Shown

U.S. Engineer Office, Sacramento, California Jan. 1945

Submitted: J. R. Morton, Principal Engineer

Approval Recommended: O. H. Hart, Principal Engineer

Approved: For The District Engineer: A. R. Crumpin, Major, Corps of Engineers U.S.A.

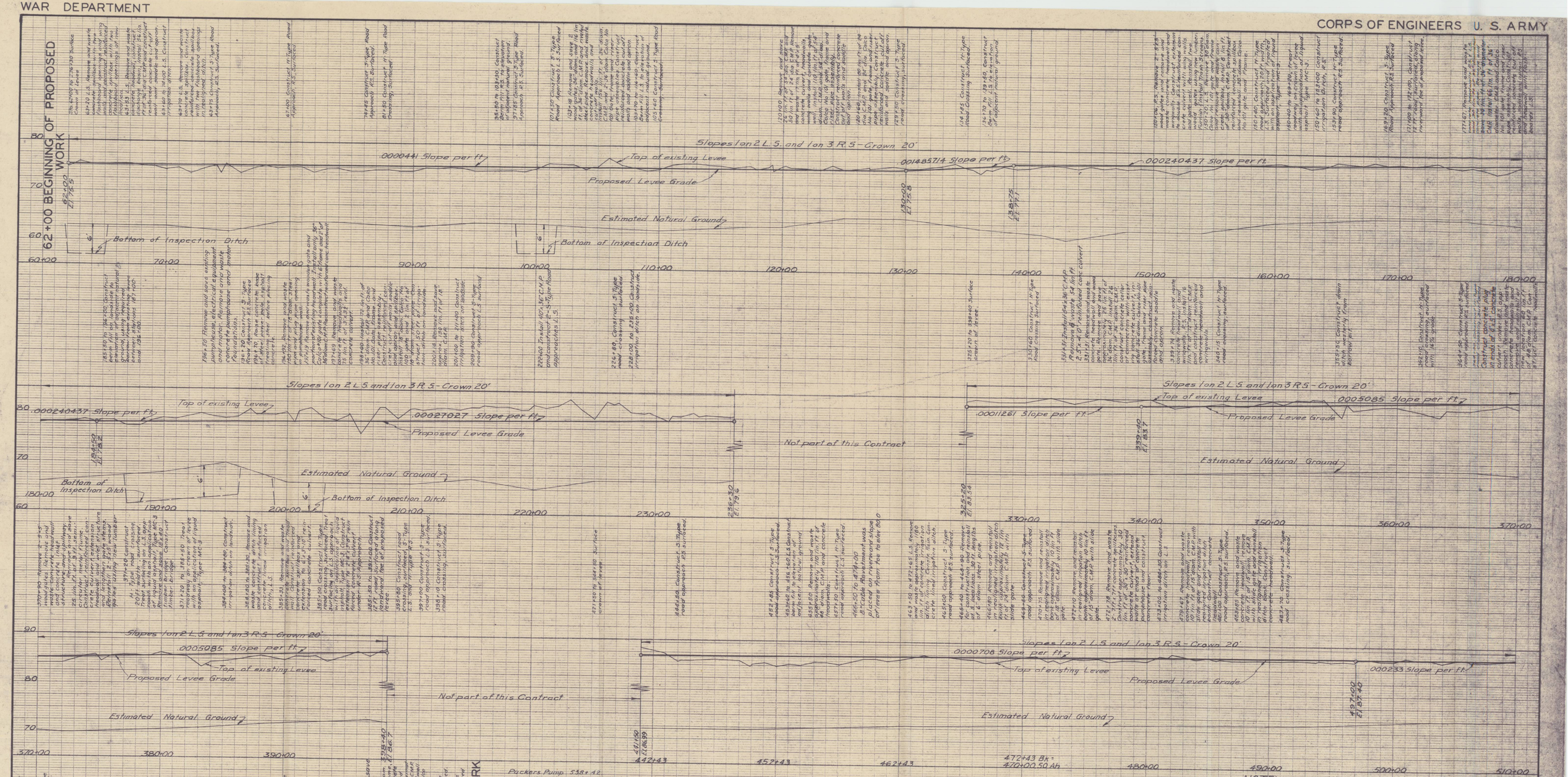
Dr. C.M.F.	Tr. C.M.F.	Ch. A.R.H.

DOC FILE	FILE	DIV	DRAWING
	50	4	2247

EXHIBIT "B" PLATE 8.

WAR DEPARTMENT

CORPS OF ENGINEERS U. S. ARMY



Packers Pump 538+42.
(Supplemental)
Pumping Unit and supporting timber structure, corrugated metal pumphouse, walkway and fender piling, 276 lin. ft. 24" soilproofed steel pipe.
3/8" Wall thickness in place.
1-24" Calco #100 gate in place.
4"x 4" Mesh reinforcement in place. (No. 9 gage)
Remove conc. wall of existing outlet structure and double 24" C.M.P. approx 20 ft long.
Plug opening in ditch bank.
Backfill excation under conc. structure in irrigation ditch.
Remove section of wall at discharge headwall.
Bolted type coupling for 24" soilproofed steel pipe.
24" Gate valve in place.
10" Butterfly valve, Flashboards and steel guides, corrugated metal cut-off wall for 24" steel pipe.

Drawing References: The following references are given to detail drawing of structures.
For details on Typical Road Approaches see Dwg No 50-4-1717.
For details on Saddle & Aprons, Cut-off Walls and riser pipe installations see Dwg. No. 50-4-1825
For details on Concrete Spillboxes see Dwg. No. 50-4-2197
For Special Irrig. Structures See Dwg. No. 50-4-2244 Sheets 1 & 4
50-4-2246 Sheet 1
50-4-2247 Sheet 1
For Timber Bridge See Dwg. No. 50-4-2244 Sheet 4

NOTE:
All elevations are referred to U.S.E.D. datum = Mean Lower Low Water Suisun Bay = 3.6 ft below Mean Sea Level.

AS CONSTRUCTED

PROFILE
SCALE HOR. 1" = 400'
VER. 1" = 10'

NO.	REVISION	DATE	BY
1	Revised as constructed	11-18-47	P.S.

SACRAMENTO RIVER CALIFORNIA
FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS
PROFILE

In 7 Sheets Scales as Shown Sheet No. 7

U.S. Engineer Office, Sacramento, California Jan 1945

Submitted: J. R. Morton, Principal Engineer
Approval Recommended: O. H. Ketchum, Principal Engineer
Approved: For The District Engineer: W. A. Crumpton, Major, Corps of Engineers U.S.A.

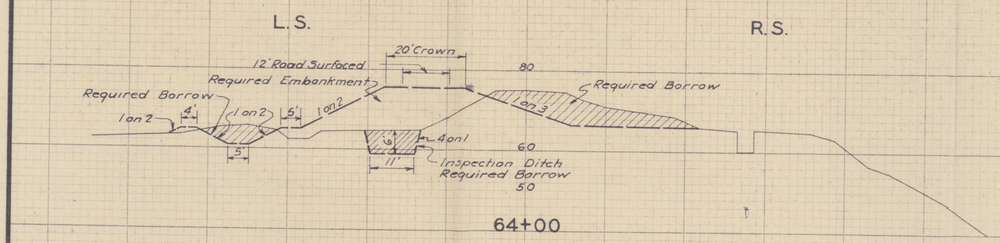
Dr. C.M.F. Tr. A.E.J. Ck. M.F. Ch. A.R.H.

DOC. FILE	FILE	DIV.	DRAWING
	50	4	2244

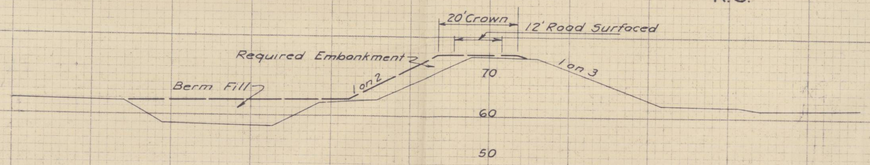
EXHIBIT "B" PLATE 7.

WAR DEPARTMENT

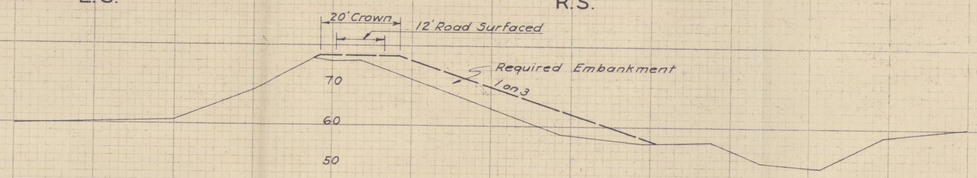
CORPS OF ENGINEERS U. S. ARMY



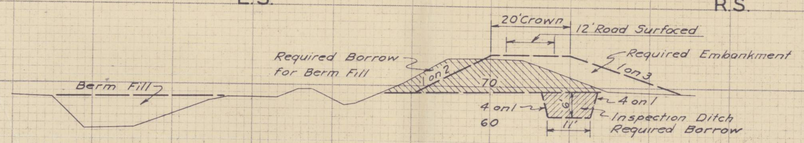
64+00



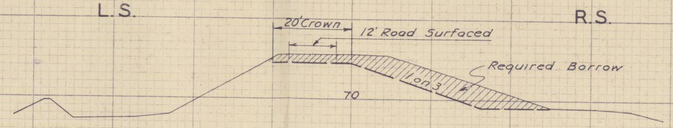
107+00



142+00



188+00



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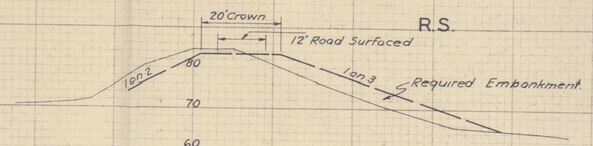
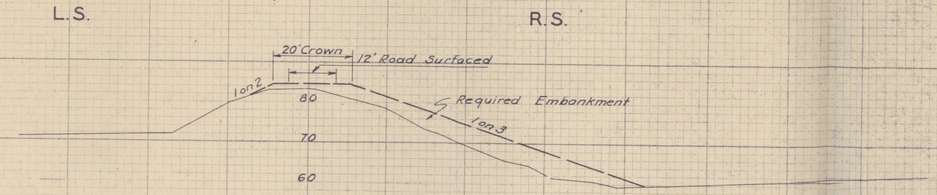


341+00



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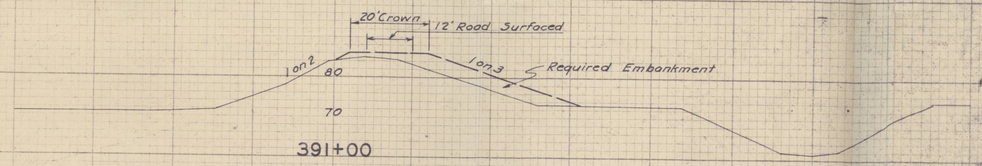
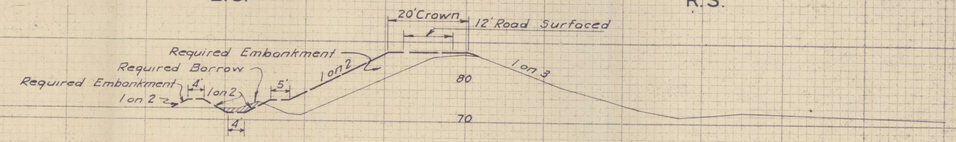
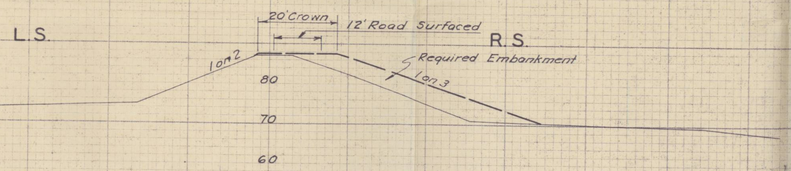


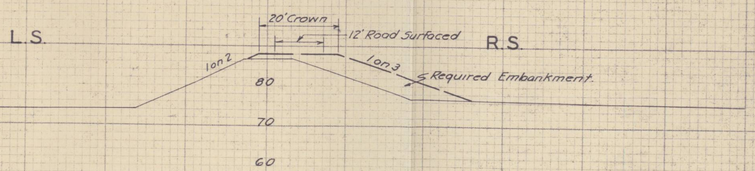
391+00



475+00



500+00



528+00

AS CONSTRUCTED

All elevations are referred to U.S.E.D. Datum = Mean Lower Low Water Suisun Bay = 3.6 ft. Below Mean Sea Level.

SACRAMENTO RIVER CALIFORNIA
FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS
TYPICAL SECTIONS

In 7 Sheets Scale: 1" = 20' Hor. & Vert. Sheet No. 6

U.S. Engineer Office, Sacramento, California Jan. 1945

Submitted: J. R. Morton, Principal Engineer

Approval Recommended: O. H. Ivers, Principal Engineer

Approved: For The District Engineer: W. F. Thompson, Major, Corps of Engineers, U.S.A.

Dr: C.M.F. Tr: C.M.F. Ch: A.R.H.

DOC. FILE	FLE	DIV	DRAWING
	50	4	2244

(M)

EXHIBIT "B" PLATE 6.

WAR DEPARTMENT

CORPS OF ENGINEERS U. S. ARMY

246,550N MATCH LINE SHEET NO.6

132,000W.

128,000W.

124,000W.

244,000N.

240,000N.

236,350N MATCH LINE SHEET NO.4

COMPTON'S LDG.

Stone Mon. No. 29 El. 75.67

Stone Mon. No. 30 El. 75.73

To Princeton

U.S.E.D. B.M. NO. 1259 EL. 85.35

MOULTON WEIR

U.S.E.D. B.M. NO. 1257 EL. 85.35

AUTOMATIC GAGE 0.00 GAGE = 0.00 U.S.E.D. DATUM

To Butte City

CHAS & ELEANOR WELCH

ORCHARD

STA. 544+50 END OF PROPOSED WORK

U.S.G.S. B.M. El. 70.78

U.S.E.D. B.M. NO. 1254 EL. 74.62

U.S.E.D. B.M. NO. 1252 EL. 76.28

Grain

CHAS & ELEANOR WELCH

Heavy Timber

PACKER'S PUMP

CULTIVATED

CULT.

COUNTY ROAD (Paved)

Pipe under road

U.S.E.D. B.M. NO. 1255 EL. 74.02

MORSE, PACKER ET AL

SOUTHERN PACIFIC R.R.

COUNTY ROAD (Paved)

To Colusa

S A C R A M E N T O R.

Mi. 157

Mi. 156

PASTURE

WALNUTS

T.H. No. 31

T.H. No. 32

T.H. No. 30

Borrow Area

MORSE, PACKER ET AL

MORSE, PACKER ET AL

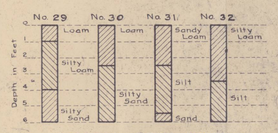
AZM. MARK NO. 1253 EL. 75.59

U.S.E.D. B.M. NO. 1251 EL. 73.55

U.S.E.D. B.M. NO. 369 EL. 74.88

AZM. MARK NO. 1250 EL. 73.57

ROSE C. WOHLFROM



LOG OF TEST HOLES

LEGEND

- Railroads
- Highways and Roads
- ℄ Proposed Levee
- Area available for Borrow
- R S River Side of Levee
- L S Land Side of Levee
- ③ Structure Designation

NOTE:
All elevations are referred to U.S.E.D. datum = Mean Lower Low Water Suisun Bay + 3.6 ft below Mean Sea Level

AS CONSTRUCTED

SACRAMENTO RIVER, CALIFORNIA

FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS

IN 7 SHEETS SCALE 1" = 400' SHEET NO. 5

0' 400' 800' 1200' 1600'

U.S. Engineer Office, Sacramento, California, Jan. 1945

SUBMITTED: J. R. Thorton, PRINCIPAL ENGINEER

APPROVAL RECOMMENDED: J. H. Hall, PRINCIPAL ENGINEER

APPROVED: FOR THE DISTRICT ENGINEER: W. A. Thompson, MAJOR, CORPS OF ENGINEERS, U.S.A.

Doc. No.	File	Div.	Chkd.
	50	4	2244

DRAWING

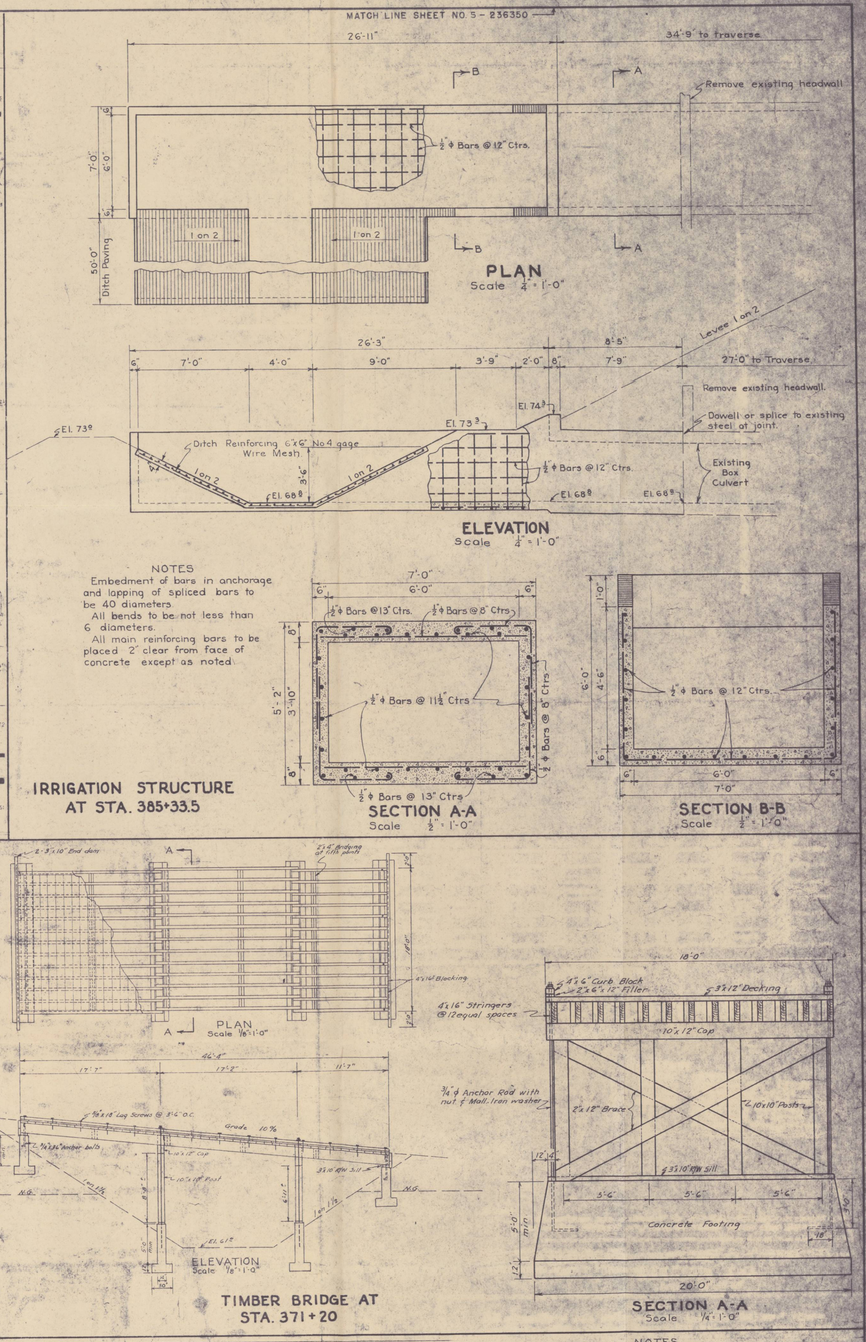
EXHIBIT "B" PLATE 5.

WAR DEPARTMENT

CORPS OF ENGINEERS U. S. ARMY

TYPICAL SECTION
of concrete lined ditch Sta. 463+50 to 472+65
Scale 1" = 4'

Ditch Reinforcing 6"x6" No. 4 gage wire mesh.



NOTES
All elevations are referred to U.S.E.D. Datum - Mean Lower Low Water Suisun Bay - 3.6 Ft. Below Mean Sea Level.

AS CONSTRUCTED

SACRAMENTO RIVER, CALIFORNIA

FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS

IN 7 SHEETS SCALE 1" = 400' SHEET NO. 4
0' 400' 800' 1200' 1600'

U. S. Engineer Office, Sacramento, California, Jan. 1945

SUBMITTED: J. P. Horton, PRINCIPAL ENGINEER
APPROVED FOR THE DISTRICT ENGINEER: R. W. Crow, MAJOR, CORPS OF ENGINEERS, U.S.A.
APPROVAL RECOMMENDED: H. Marks, PRINCIPAL ENGINEER

OCC. FILE	FILE	CL.	DIV.	DRAWING
	50	4		2244

EXHIBIT "B" PLATE 4

WAR DEPARTMENT

CORPS OF ENGINEERS U. S. ARMY

SACRAMENTO RIVER, CALIFORNIA

FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS

IN 7 SHEETS SCALE 1" = 400' SHEET NO. 3

0 400 800 1200 1600

U.S. Engineer Office, Sacramento, California, Jan 1945

SUBMITTED: J. P. Webster, PRINCIPAL ENGINEER

APPROVED: FOR THE DISTRICT ENGINEER: J. H. Thompson, MAJOR, CORPS OF ENGINEERS, U.S.A.

APPROVAL RECOMMENDED: J. H. Hart, PRINCIPAL ENGINEER

Dr. B.S.P.			
DOC. FILE	FILE	DIV.	DRAWING
	50	4	2244

Note: All elevations are referred to U.S.E.D. Datum - Mean Lower Low Water Suisun Bay - 3.6 ft below Mean Sea Level

MATCH LINE SHEET NO. 4 — 226,150 N.

LEGEND
- Railroads
- Highways and Roads
- Proposed Levee
- Area Available for Borrow
- R.S. River Side of Levee
- L.S. Land Side of Levee
- Structure Designation

AS CONSTRUCTED

LOG OF TEST HOLES

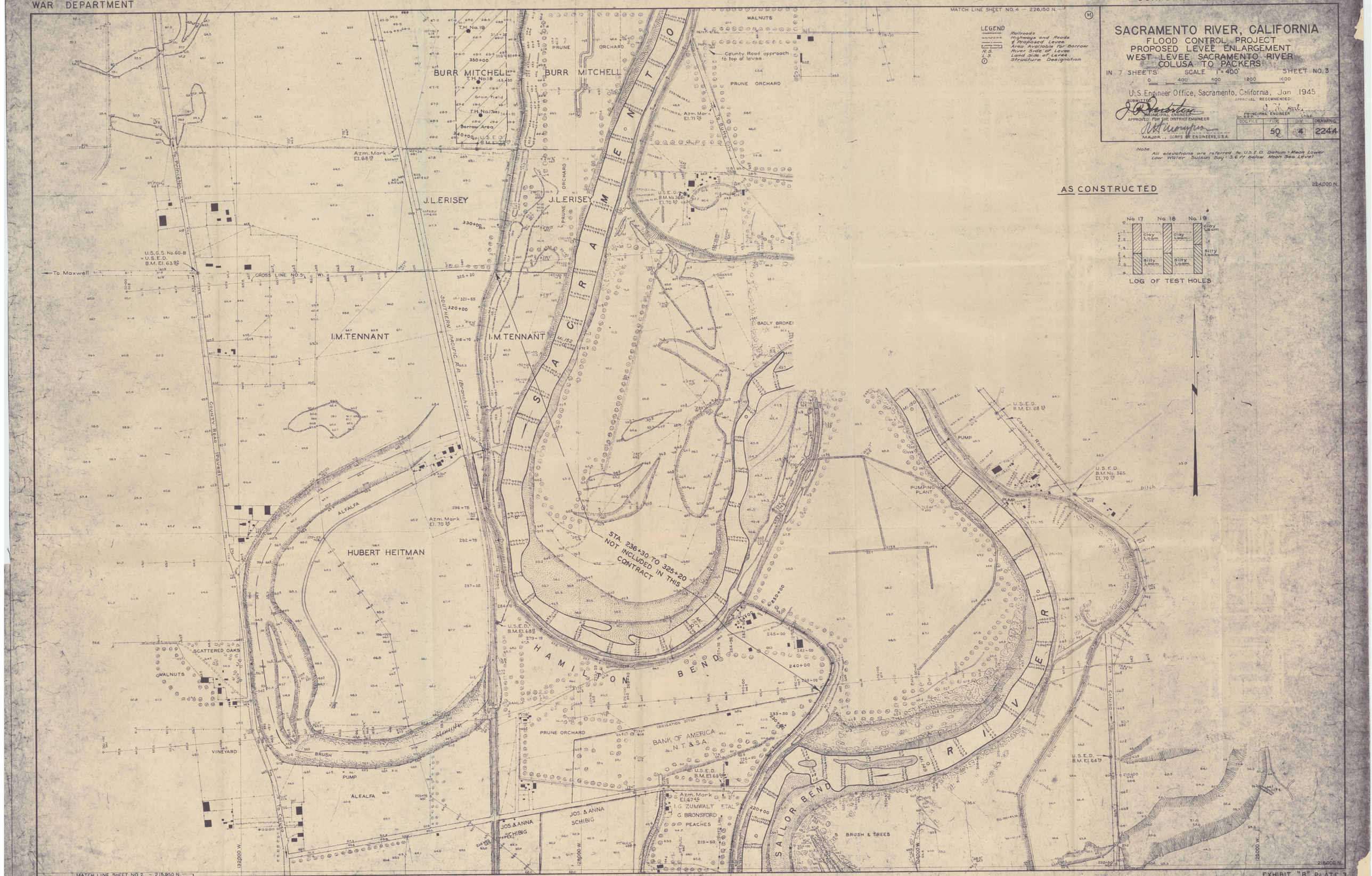


EXHIBIT "B" PLATE 3.

WAR DEPARTMENT

CORPS OF ENGINEERS U. S. ARMY

SACRAMENTO RIVER, CALIFORNIA

FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS

IN 7 SHEETS SCALE 1" = 400' SHEET NO. 2

0' 400' 800' 1200' 1600'

U. S. Engineer Office, Sacramento, California, Jan 1945

SUBMITTED: J. P. Groton, PRINCIPAL ENGINEER, APPROVED FOR THE DISTRICT ENGINEER

APPROVAL RECOMMENDED: C. H. Geis, PRINCIPAL ENGINEER, Dr. S.S.E.

MAJOR, CORPS OF ENGINEERS, U.S.A.

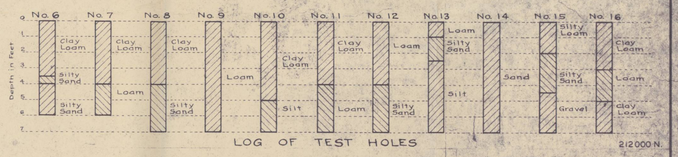
DOC. FILE	FILE	DIV.	DRAWING
	50	4	2244

MATCH LINE SHEET NO. 3 — 215950 N.

LEGEND
- Railroads
- Highways and Roads
- Proposed Levee
- Area Available for Borrow
- R.S. River Side of Levee
- L.S. Land Side of Levee
- Structure Designation

All elevations are referred to U.S.E.D. Datum. Mean lower low water Suisun Bay - 36 feet below mean sea level

AS CONSTRUCTED



LOG OF TEST HOLES

EXHIBIT "B" PLATE 2.

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY

SACRAMENTO RIVER, CALIFORNIA

FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS

IN 7 SHEETS SCALE 1" = 400' SHEET NO. 1

0' 400' 800' 1200' 1600'

U.S. Engineer Office, Sacramento, California Jan. 1945

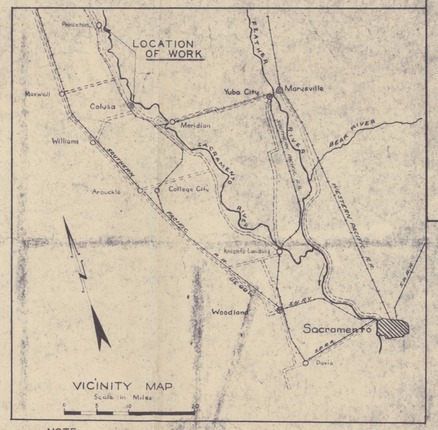
SUBMITTED: J. R. Thorton, PRINCIPAL ENGINEER

APPROVED: FOR THE DISTRICT ENGINEER, MAJOR, CORPS OF ENGINEERS, U.S.A.

APPROVAL RECOMMENDED: U. H. Mills, PRINCIPAL ENGINEER

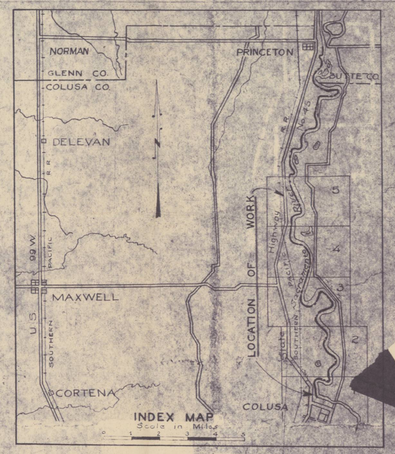
DR. & CHD.			
DOC. FILE	FILE	DIV.	DRAWING
50	4		2244

MATCH LINE SHEET NO. 2 - 205750 N.



NOTE:
ALL ELEVATIONS ARE REFERRED TO U.S.E.D. DATUM - MEAN LOWER LOW WATER SUISUN BAY - 3.6 FT. BELOW MEAN SEA LEVEL.

LEGEND
- Railroads
- Highways and Roads
- Proposed Levee
- Area Available for Borrow
- R.S. River Side of Levee
- L.S. Land Side of Levee
- Structure Designation

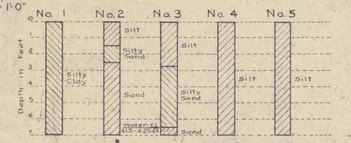


AS CONSTRUCTED

SECTION A-A
Scale 3/8" = 1'-0"

STRUCTURE AT
Stations 65+00, 66+50 and 69+80
Scale 1/4" = 1'-0"

Install 4 - 2"x12" x 4'-4" flashboards

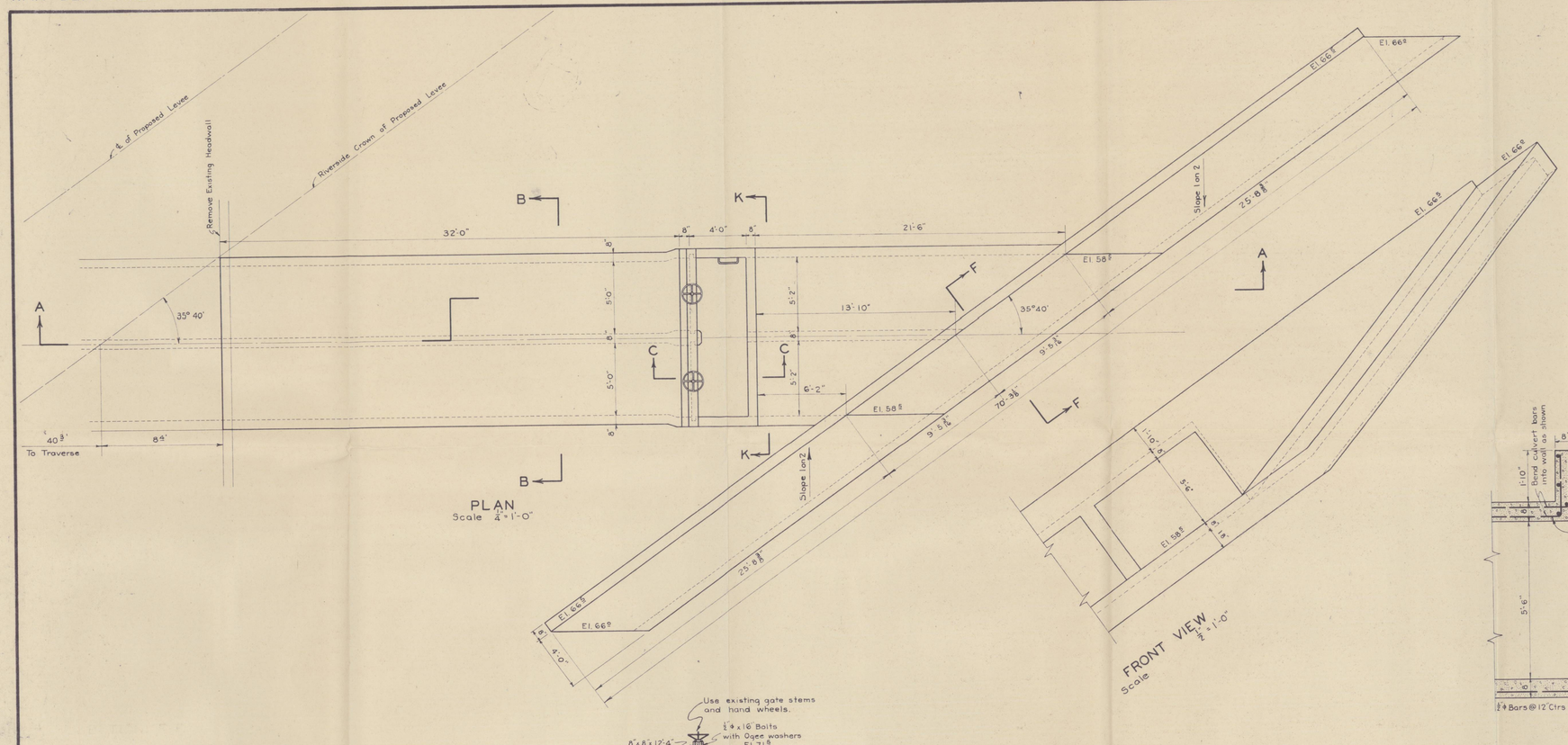


LOG OF TEST HOLES

EXHIBIT "B" PLATE I.

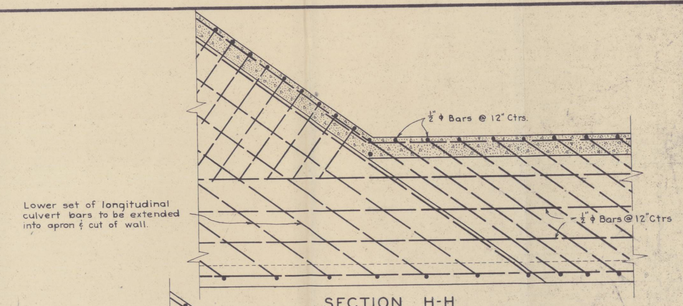
WAR DEPARTMENT

CORPS OF ENGINEERS U.S. ARMY

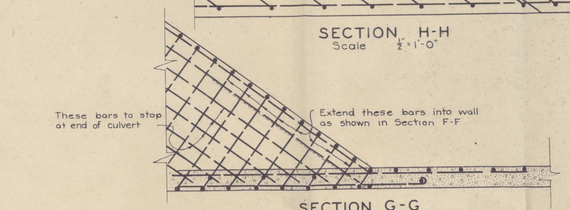


PLAN
Scale 1/4" = 1'-0"

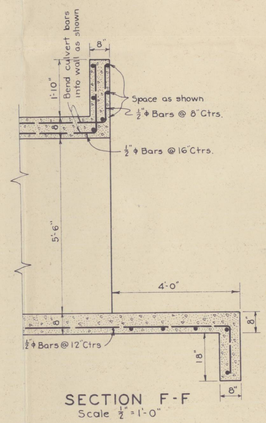
FRONT VIEW
Scale 1/4" = 1'-0"



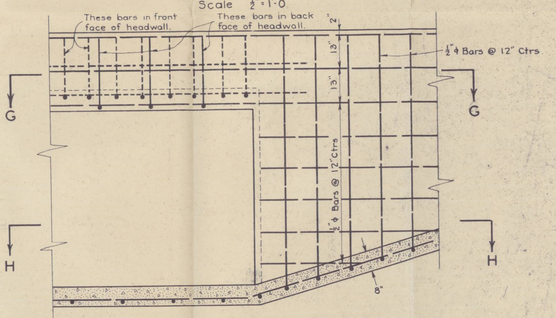
SECTION H-H
Scale 1/2" = 1'-0"



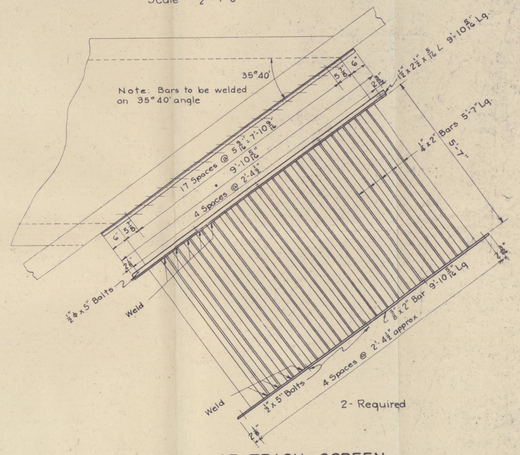
SECTION G-G
Scale 1/2" = 1'-0"



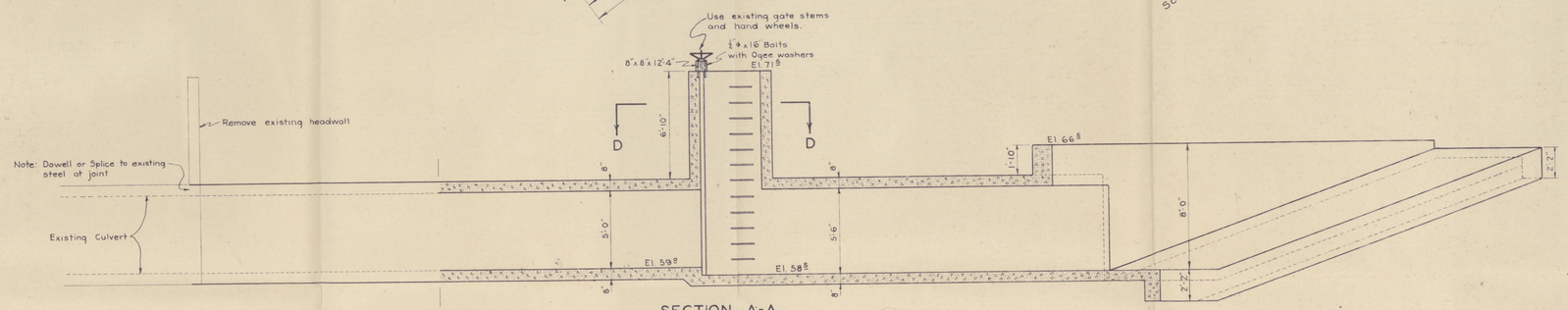
SECTION F-F
Scale 1/2" = 1'-0"



PART ELEVATION OF HEADWALL AND WINGWALL
Scale 1/2" = 1'-0"



DETAIL OF TRASH SCREEN
Scale 1/2" = 1'-0"



SECTION A-A
Scale 1/4" = 1'-0"

NOTES

All elevations are referred to U.S.E.D. Datum = Mean Lower Low Water Suisun Bay = 3.6 ft Below Mean Sea Level.

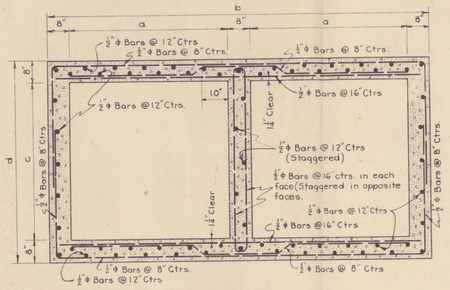
Embedment of bars in anchorage and lapping of spliced bars to be 40 diameters.

All bends to be not less than 6 diameters.

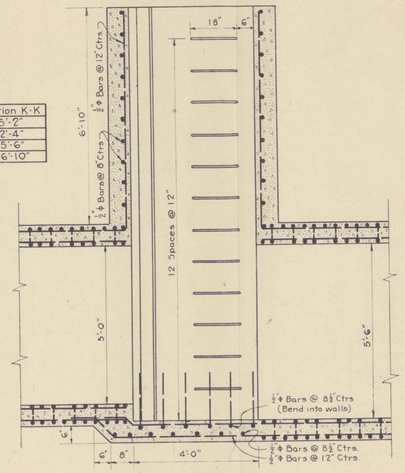
All main reinforcing bars to be placed 2" clear from face of concrete except as shown.

Wood gates to be constructed with 3" redwood lumber bolted to cleats arranged to fit the existing gate stems.

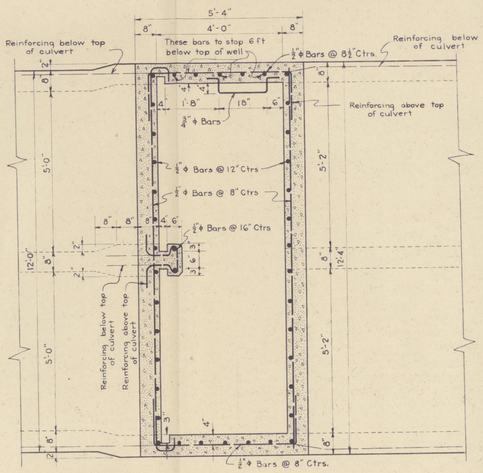
	Section B-B	Section K-K
a	5'-0"	5'-2"
b	12'-0"	12'-4"
c	5'-0"	5'-6"
d	6'-4"	6'-10"



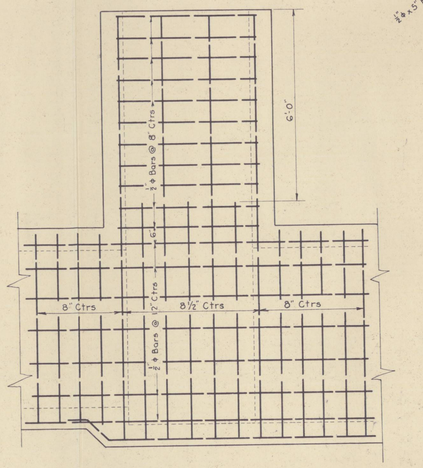
SECTION K-K
SECTION B-B
Scale 1/2" = 1'-0"



SECTION C-C
Scale 1/2" = 1'-0"



SECTION D-D
Scale 1/2" = 1'-0"



SIDE VIEW OF WELL
Scale 1/2" = 1'-0"

AS CONSTRUCTED

SACRAMENTO RIVER CALIFORNIA
FLOOD CONTROL PROJECT
PROPOSED LEVEE ENLARGEMENT
WEST LEVEE SACRAMENTO RIVER
COLUSA TO PACKERS
IRRIGATION STRUCTURE AT STATION 150+06

In 1 Sheet — Sheet No 1

Scales as Shown

U.S. Engineer Office, Sacramento, California Jan. 1945

Submitted: J. R. Morton, Principal Engineer

Approved: For The District Engineer: [signature], Major, Corps of Engineers, U.S.A.

Approval Recommended: O. H. Hart, Principal Engineer, Dr: C.M.E. Tr: C.M.E. Ch:

DOC. FILE	FILE	DIV	DRAWING
	50	4	2246

EXHIBIT "B" PLATE 9.