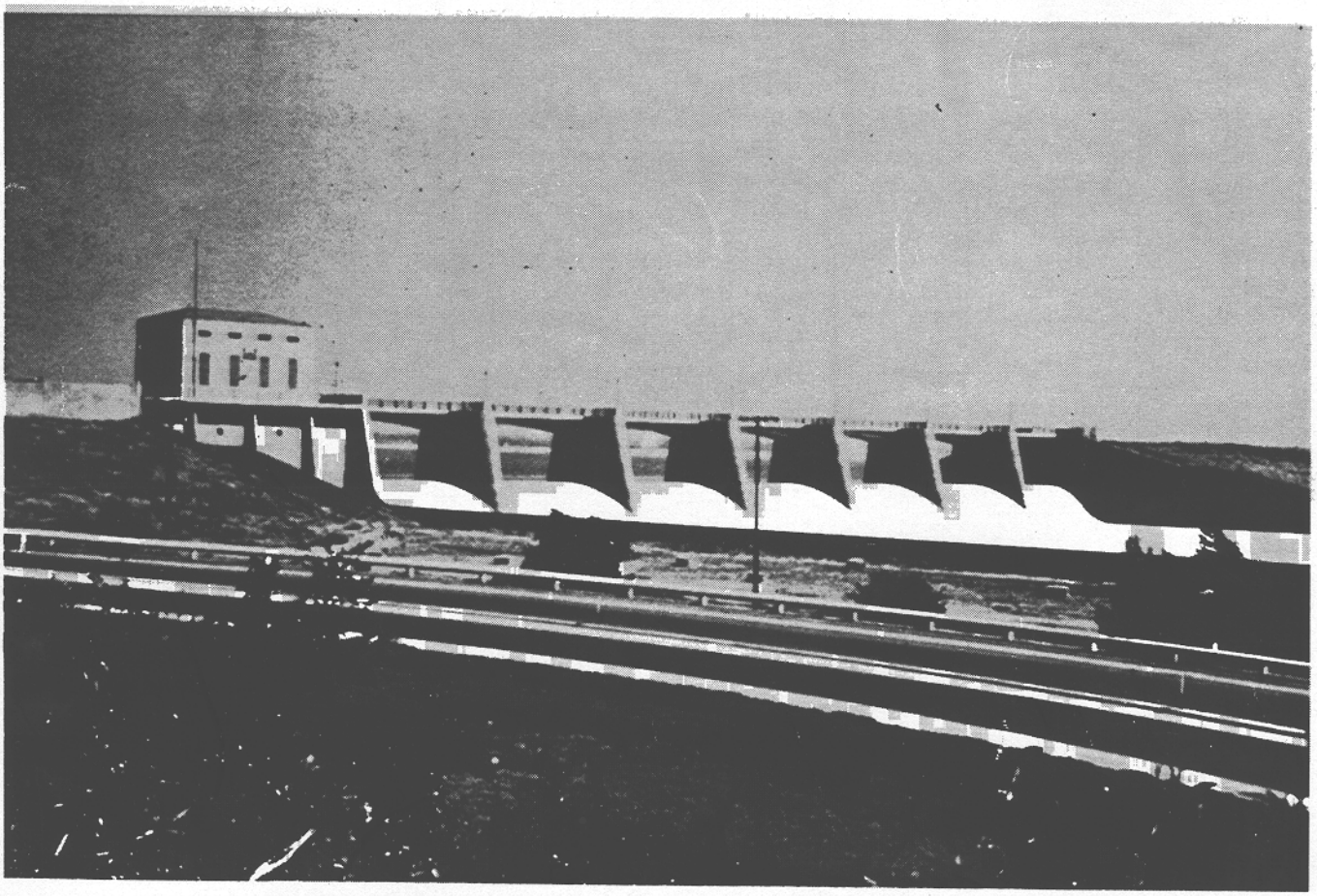
US Army Corps
of Engineers
Los Angeles District

WATER CONTROL MANUAL

SEPULVEDA DAM & RESERVOIR
LOS ANGELES RIVER, CALIFORNIA



MAY 1989

Table 1
SEPULVEDA DAM AND RESERVOIR
LOS ANGELES COUNTY, CALIFORNIA

PERTINENT DATA
SEPTEMBER 1988

Construction Completed		30 December 1941
Stream System		Los Angeles River
Drainage area	Sq. miles	152
Reservoir:		
Elevation		
Top of spillway gates (raised position)	ft., NGVD	710.0
Flood control pool	ft., NGVD	710.0
Spillway design surcharge level	ft., NGVD	716.7
Top of dam	ft., NGVD	725**
Spillway gates begin to automatically lower	ft., NGVD	712.0
Spillway gates complete automatic lowering	ft., NGVD	715.0
Area		
Top of spillway gates (raised position)	acres	1,335
Flood control pool	acres	1,335
Fixed spillway crest	acres	765
Fixed spillway design surcharge level	acres	1,710
Top of dam	acres	2,447
Purchased real estate***	acres	2,097
Capacity, gross		
Top of spillway gates (raised position)	acre-feet	17,425 (2.15*)
Flood control pool	acre-feet	17,425 (2.15*)
Fixed spillway crest	acre-feet	6,857(0.85*)
Spillway design surcharge level	acre-feet	27,563 (3.40*)
Top of dam	acre-feet	44,727 (5.52*)
Allowance for sediment	acre-feet	0
Dam: - Type		Earthfill
Height above original streambed	ft	57
Top length	ft	15,440
Freeboard	ft	30
Spillway: - type		Concrete ogee
Crest length	ft	399
Crest elevation	ft., NGVD	700
Design surcharge	ft	6.7
Design discharge	c.f.s	99,540
Outlets:		
Uncontrolled	number	4
Size		6'W x 6.5'H
Entrance invert elevation	ft., NGVD	668
Controlled	number	4
Size	ft	6'W x 9'H
Gate type		Vertical lift
Entrance invert elevation	ft., NGVD	668
Conduits - (Rectangular)		
Number and Size		
Ungated		4 - 6'W x 6.5'H
Gated		4 - 6'W x 9'H
Length	ft	40
Maximum capacity at spillway crest	c.f.s	16,500
Regulated capacity at spillway crest	c.f.s	16,500
Standard project flood:		
Duration (inflow)	days	3
Total volume (including base flow)	acre-feet	68,200 (8.41*)
Inflow peak	c.f.s	50,000
Probable maximum flood:		
Duration (inflow)	days	4
Total volume	acre-feet	163,200 (20.13*)
Inflow peak	c.f.s	114,000
Historic maximums:		
Maximum inflow	c.f.s	58,970
Date		2-16-80
Maximum release	c.f.s	15,320
Date		2-16-80
Maximum water surface elevation	ft., NGVD	705.1
Date		2-16-80
Maximum storage	acre-feet	11,470
Date		2-16-80

*inches of runoff

**December 1980 survey shows variation in elevation of top of dam from 723.7 feet northeast of Control House to 725.5 feet southwest of Control House.

***There are no easements acquired in the reservoir area. All real estate is acquired in fee title.

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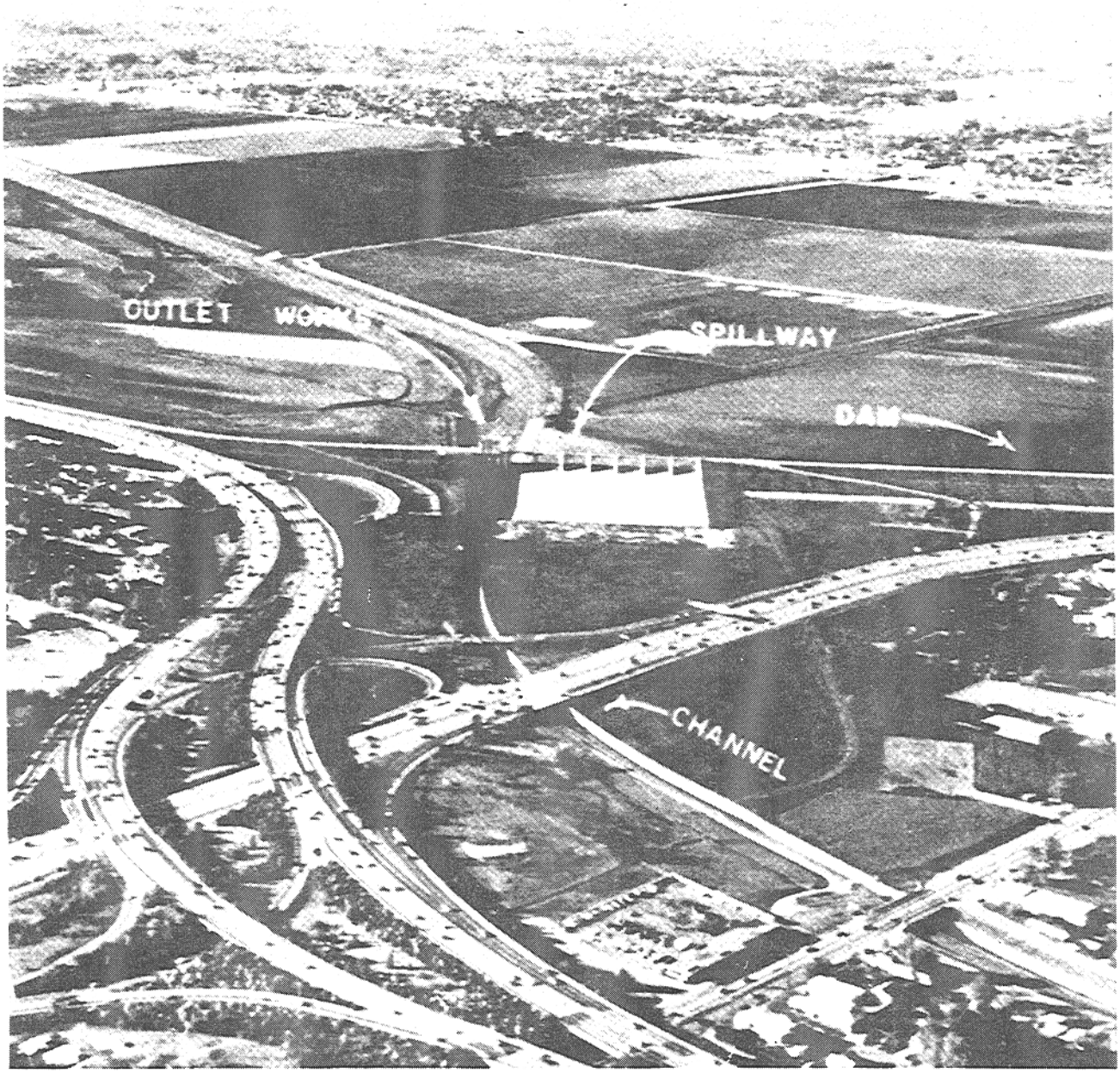
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

May, 1989

Prepared by

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

Reservoir Regulation Section



SEPULVEDA DAM

NOTICE TO USERS OF THIS MANUAL

Regulations specify that this Water Control Manual be published in looseleaf form; and only those sections, or parts thereof, requiring changes will be revised and printed. Therefore, this copy should be preserved in good condition so that inserts can be made in order to keep the manual current.

EMERGENCY REGULATION ASSISTANCE PROCEDURES

In the event that unusual conditions arise, contact can be made by telephone to the U.S. Army Corps of Engineers, Los Angeles District Office during official business hours (0730-1600, Monday through Friday), plus during non-duty periods of flood operations:

Reservoir Regulation Unit (213)452-3530

Sepulveda Dam and Reservoir (view from downstream of dam, taken 5/14/85).