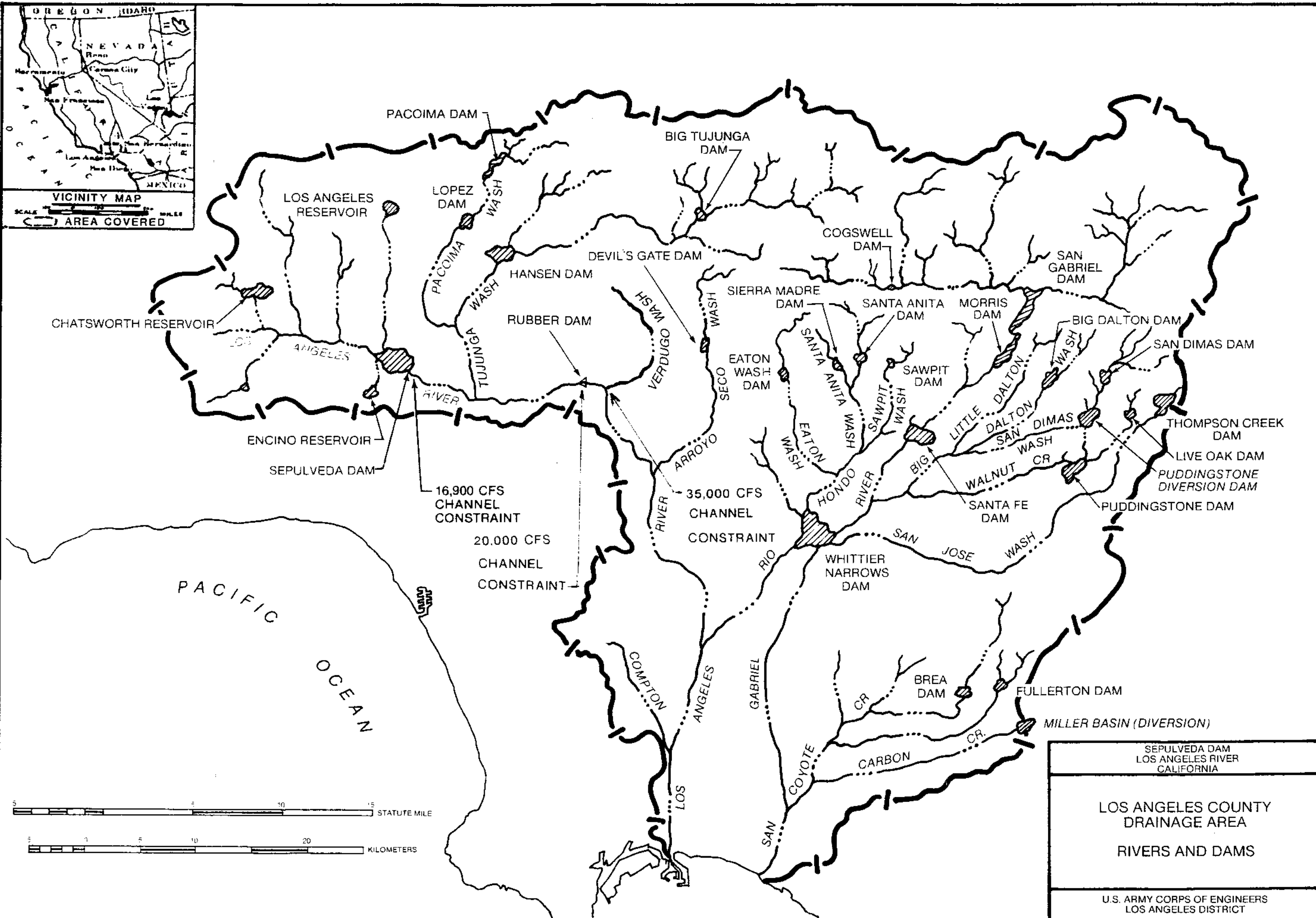


- LEGEND**
- BOUNDARY OF DRAINAGE AREA
  - IMPROVEMENT COMPLETED BY C OF E
  - IMPROVEMENT TO BE CONSTRUCTED BY C OF E
  - IMPROVEMENT COMPLETED BY LOCAL INTERESTS
  - IMPROVEMENTS TO BE CONSTRUCTED BY LOCAL INTERESTS
  - FLOOD CONTROL DAM AND RESERVOIR
  - DEBRIS BASIN
  - WATER SUPPLY RESERVOIR

**LOS ANGELES COUNTY  
DRAINAGE AREA (REVIEW)  
CALIFORNIA**

**LOCATION  
AND  
VICINITY MAP**

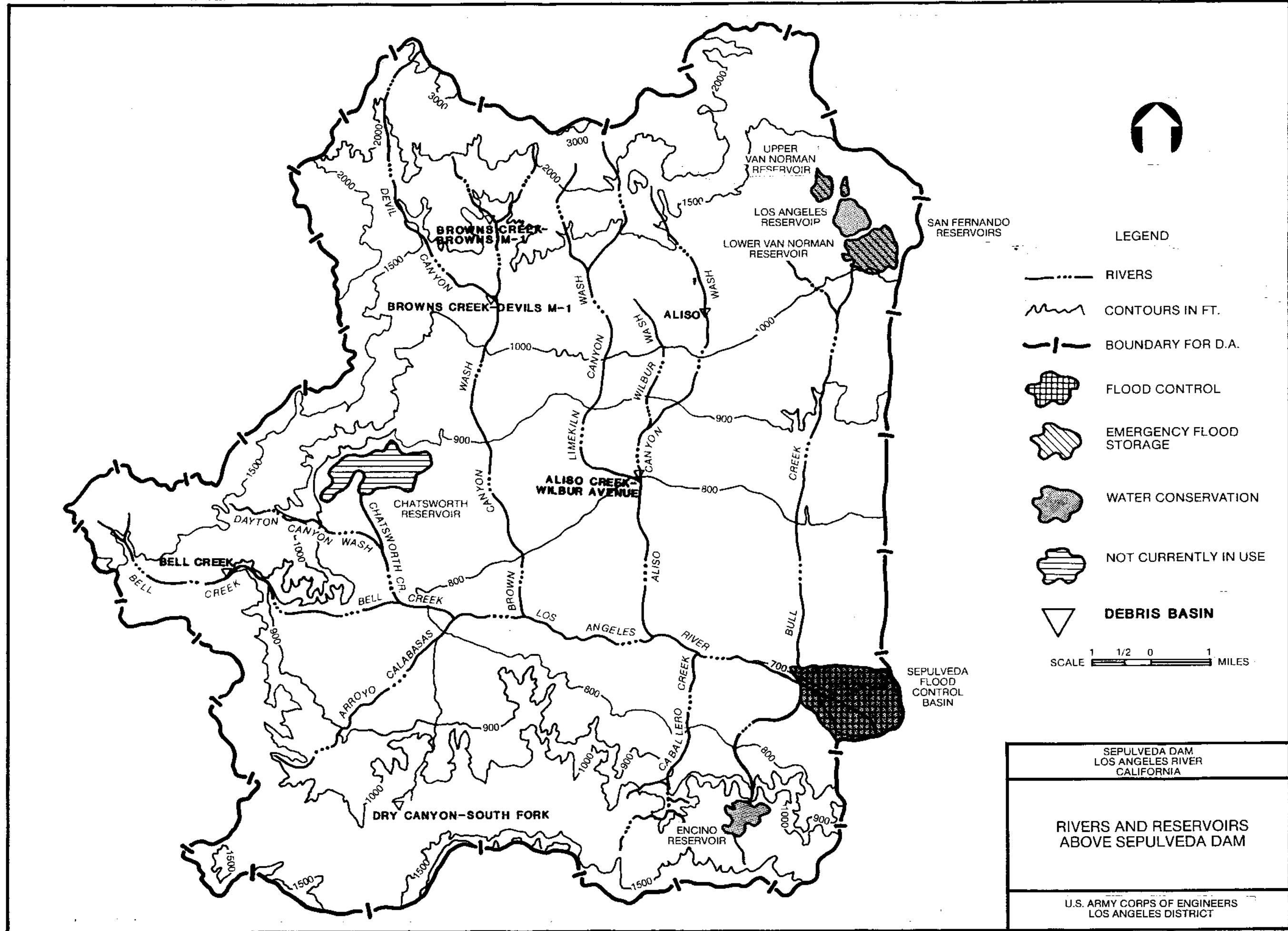
**U.S. ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS**











SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

**LOS ANGELES COUNTY  
DRAINAGE AREA  
RIVERS AND DAMS**

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



**LEGEND**

-  RIVERS
-  CONTOURS IN FT.
-  BOUNDARY FOR D.A.
-  FLOOD CONTROL
-  EMERGENCY FLOOD STORAGE
-  WATER CONSERVATION
-  NOT CURRENTLY IN USE
-  **DEBRIS BASIN**

SCALE 1 1/2 0 1 MILES

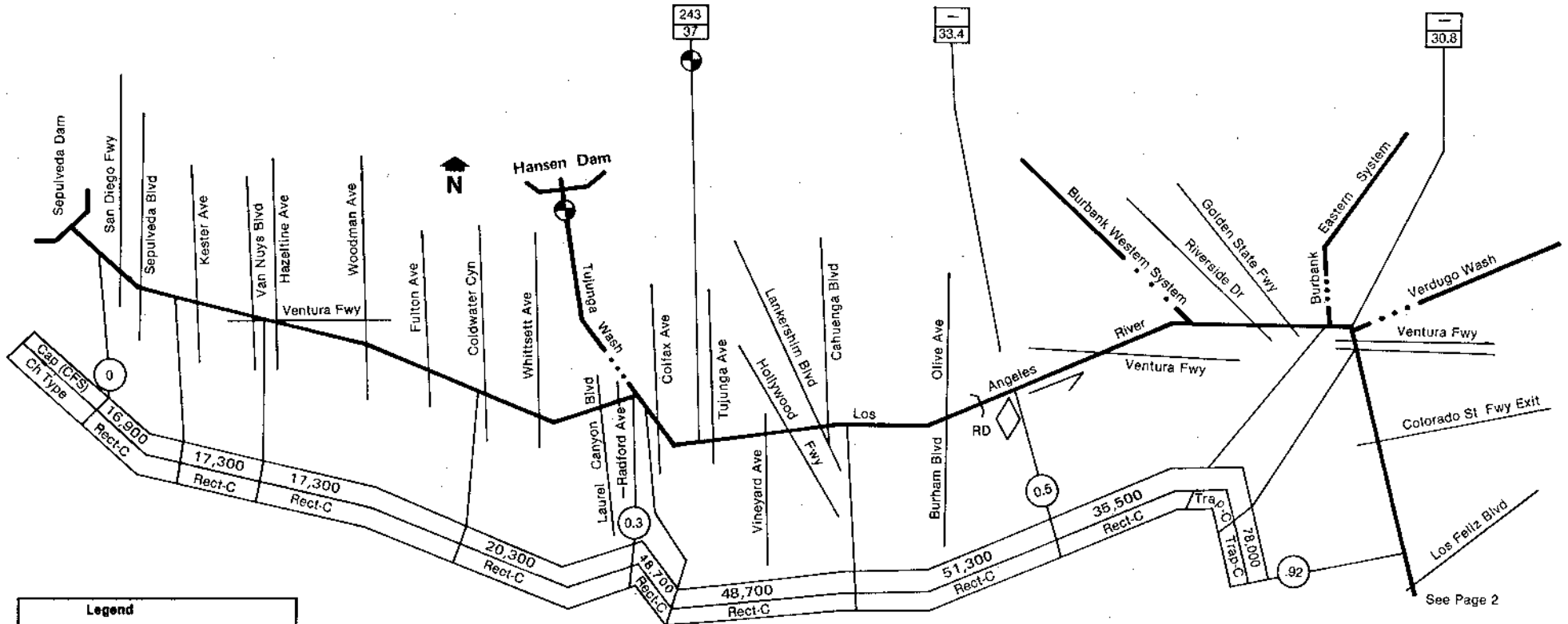
SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

---

RIVERS AND RESERVOIRS  
ABOVE SEPULVEDA DAM

---

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



See Page 2

**Legend**

- Dam
- Recharge Basin
- RD Rubber Dam
- Drop Structure
- Stream Gage
- Drainage Area Miles From Stream Mouth
- Travel Time (Hours)
- Foot Bridge
- Channel Unlined
- Rip Rap Side Slopes
- Soft Bottom
- Concrete
- Grouted Stone
- Side Slope
- Bottom
- Levee

	Significant Features	Miles	Remarks
	Headworks Spreading Grounds	33.4	Intake Capacity 40 CFS at Rubber Dam
	Los Angeles River at Tujunga (LACFCD)	37	Telemetry LART
	Tujunga Wash	37.8	Flows Regulated by Hansen, Big Tujunga, Pacoima and Lopez Dams

SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

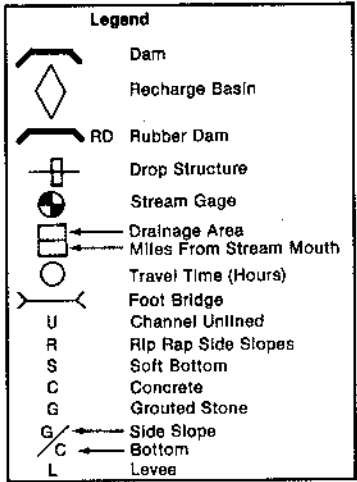
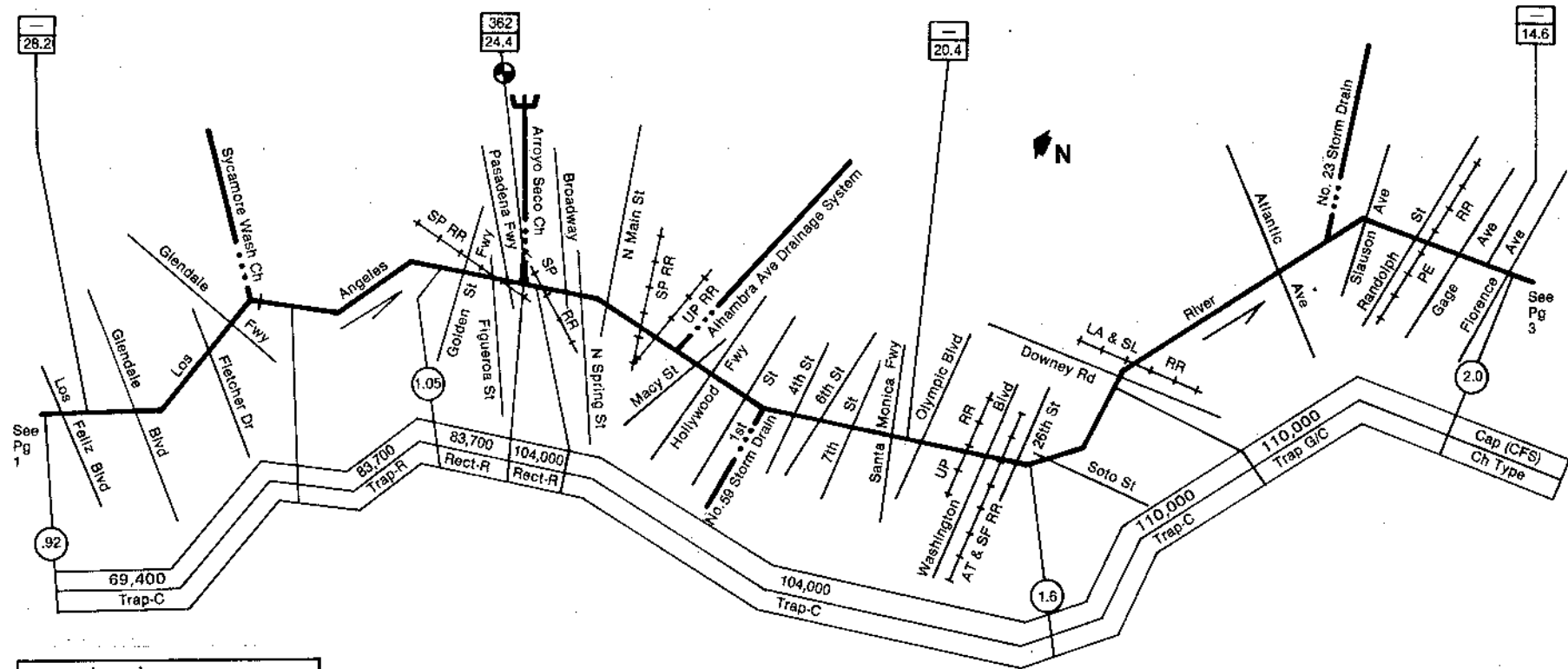
---

**CHANNEL CAPACITIES & CONFIGURATIONS  
LOS ANGELES RIVER**

SEPULVEDA DAM  
TO  
LOS FELIZ BLVD

---

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



	Significant Features	Miles	Remarks
	Los Angeles River Above Arroyo Seco	24.4	Telemetry 002 LARA
	Arroyo Seco Channel	24.3	Flow Regulated by Devils Gate Dam (Max Q = 43,000 CFS)

SEPUVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

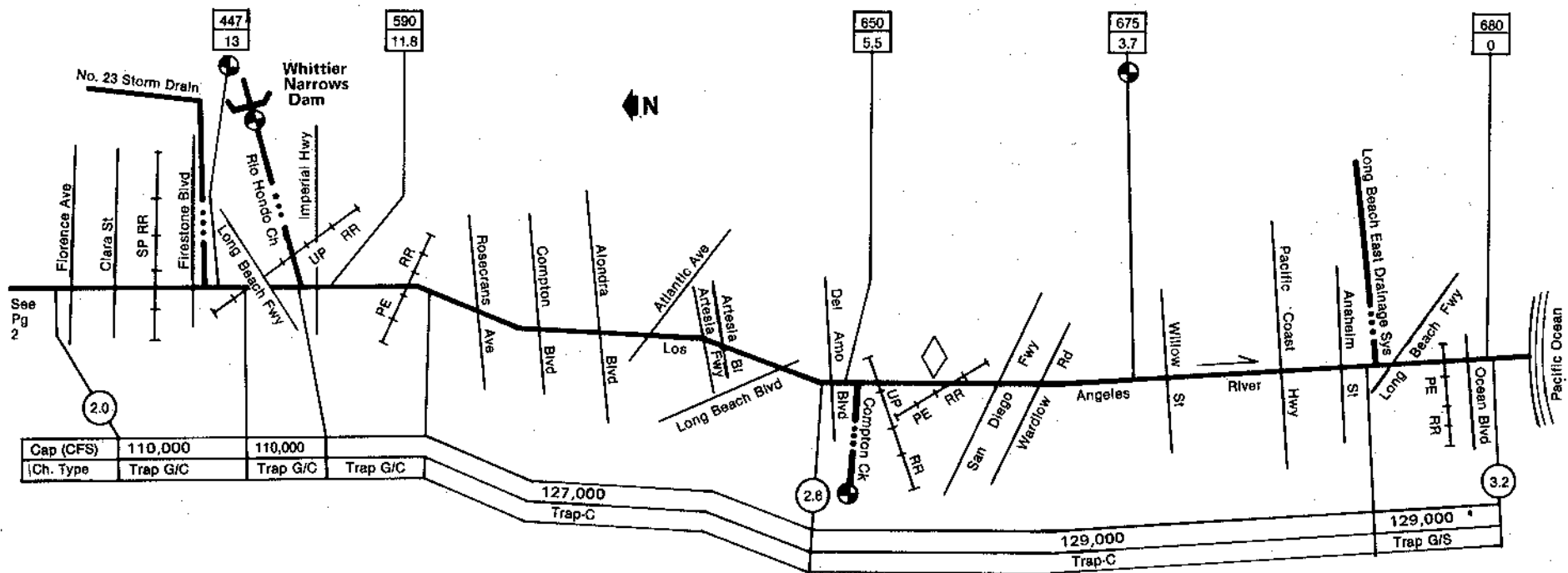
---

**CHANNEL CAPACITIES & CONFIGURATIONS  
LOS ANGELES RIVER**

LOS FELIZ BLVD  
TO  
FLORENCE AVE

---

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



Cap (CFS)	110,000	110,000	127,000	129,000	129,000
Ch. Type	Trap G/C	Trap G/C	Trap-C	Trap-C	Trap G/S

**Legend**

- Dam
- Recharge Basin
- RD Rubber Dam
- Drop Structure
- Stream Gage
- Drainage Area Miles From Stream Mouth
- Travel Time (Hours)
- Foot Bridge
- Channel Unlined
- Rip Rap Side Slopes
- Soft Bottom
- Concrete
- Grouted Stone
- Side Slope
- Bottom
- Level

Symbol	Significant Features	Miles	Remarks
	Los Angeles River Near Firestone	13	Telemetry LARF
	Rio Hondo Channel near Downey	12.1	Flows Regulated by Whittier Narrows Flood Control Reservoir
	Dominguez Gap Spreading Grounds	4.7-5.1	Intake Capacities 3-20 CFS
	Los Angeles River Near Wardlow	3.7	Telemetry LARW
	Compton Creek Near Greenleaf		(LACFCF)

SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

---

**CHANNEL CAPACITIES & CONFIGURATIONS  
LOS ANGELES RIVER**

FLORENCE AVE  
TO  
PACIFIC OCEAN

---

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

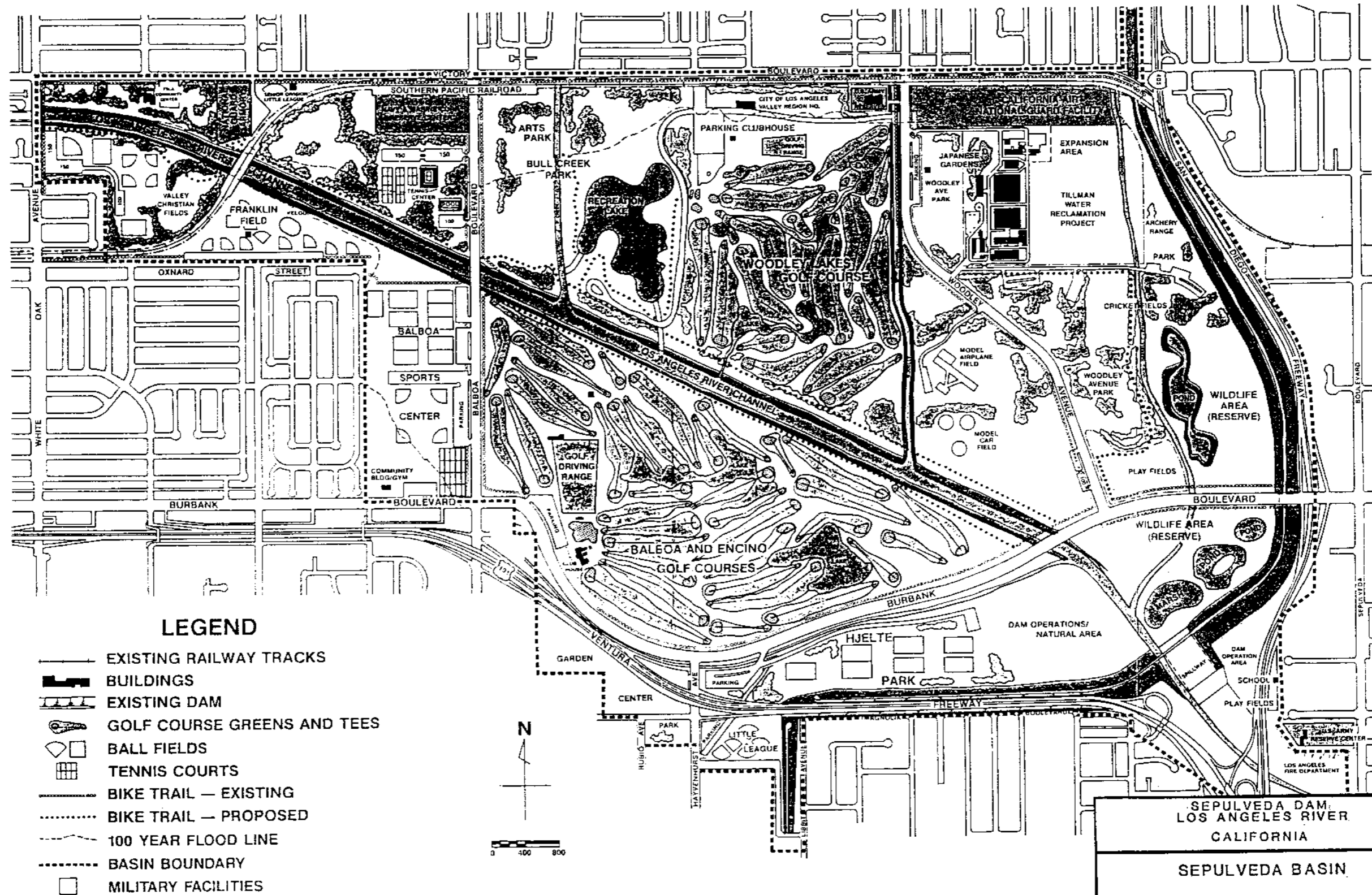
**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.





**LEGEND**

- EXISTING RAILWAY TRACKS
- BUILDINGS
- EXISTING DAM
- GOLF COURSE GREENS AND TEES
- BALL FIELDS
- TENNIS COURTS
- BIKE TRAIL — EXISTING
- BIKE TRAIL — PROPOSED
- 100 YEAR FLOOD LINE
- BASIN BOUNDARY
- MILITARY FACILITIES



**SEPULVEDA BASIN MASTER PLAN**

SEPULVEDA DAM,  
LOS ANGELES RIVER  
CALIFORNIA

---

SEPULVEDA BASIN  
WILDLIFE AND RECREATION:  
MASTER PLAN

---

U.S. CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

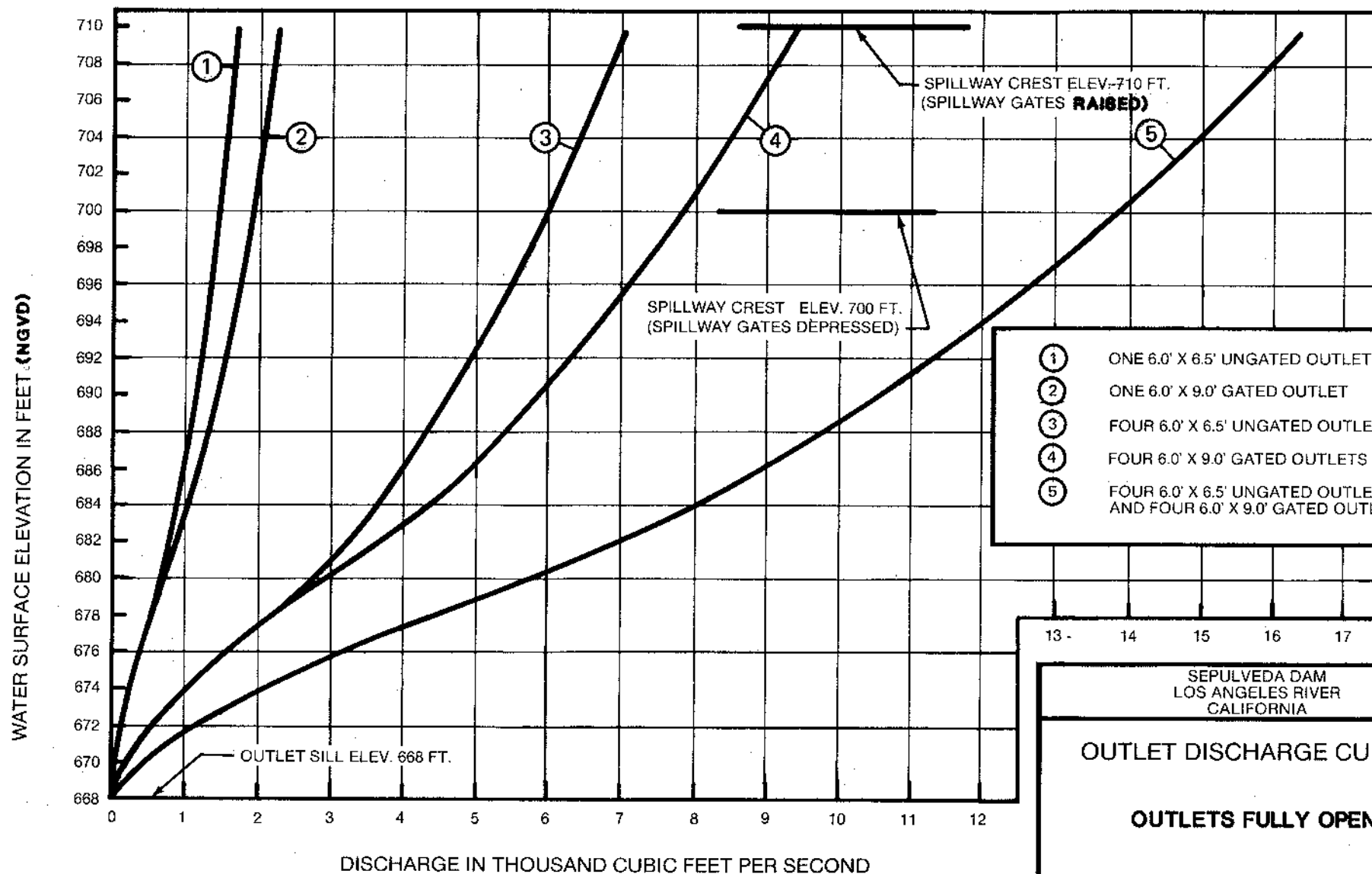
**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

GATE OPENINGS IN FEET



- ① ONE 6.0' X 6.5' UNGATED OUTLET
- ② ONE 6.0' X 9.0' GATED OUTLET
- ③ FOUR 6.0' X 6.5' UNGATED OUTLETS
- ④ FOUR 6.0' X 9.0' GATED OUTLETS
- ⑤ FOUR 6.0' X 6.5' UNGATED OUTLETS AND FOUR 6.0' X 9.0' GATED OUTLETS

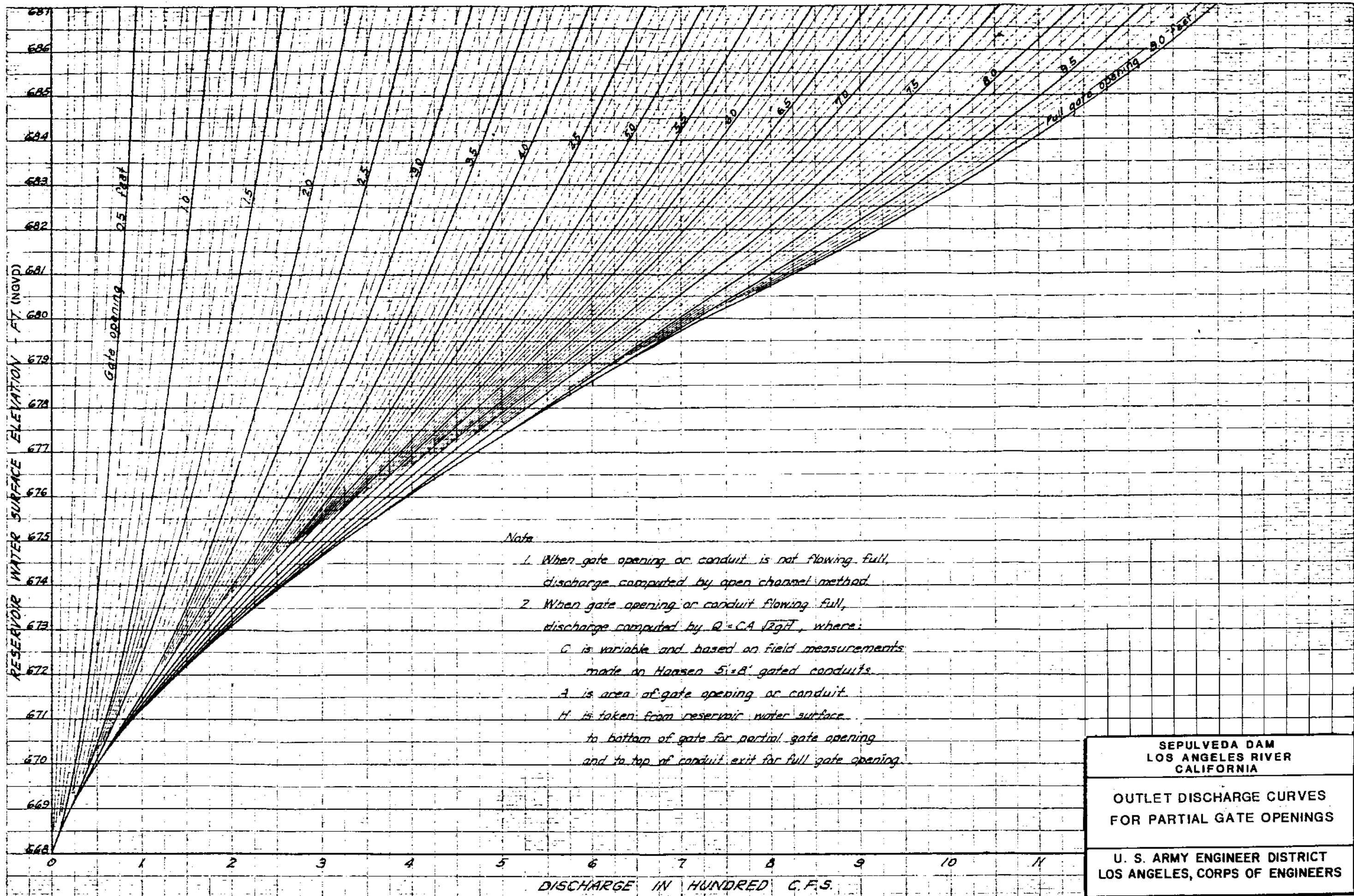
13 - 14 - 15 - 16 - 17

SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

OUTLET DISCHARGE CURVES

OUTLETS FULLY OPEN

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

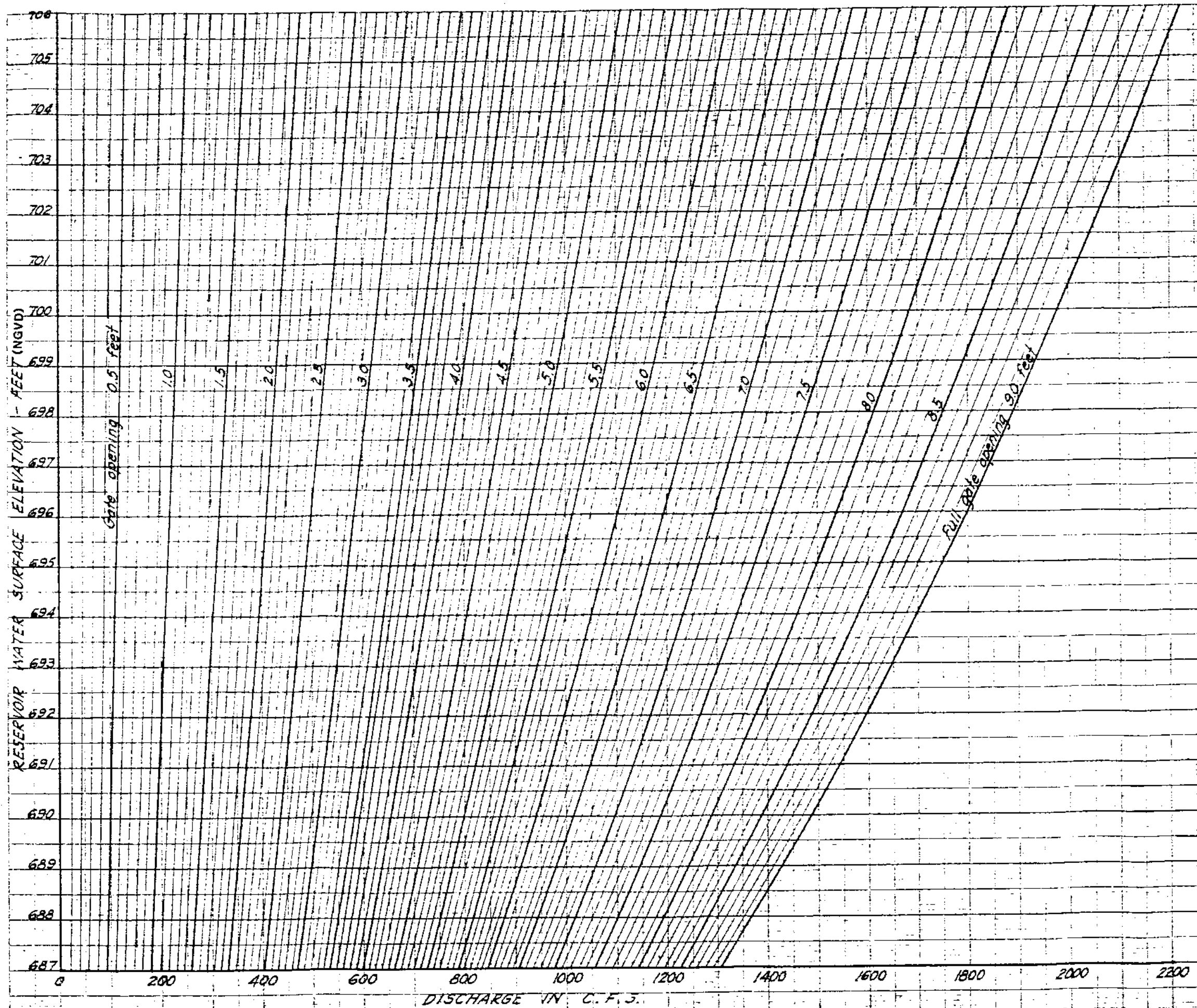
---

OUTLET DISCHARGE CURVES  
FOR PARTIAL GATE OPENINGS

---

U. S. ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS

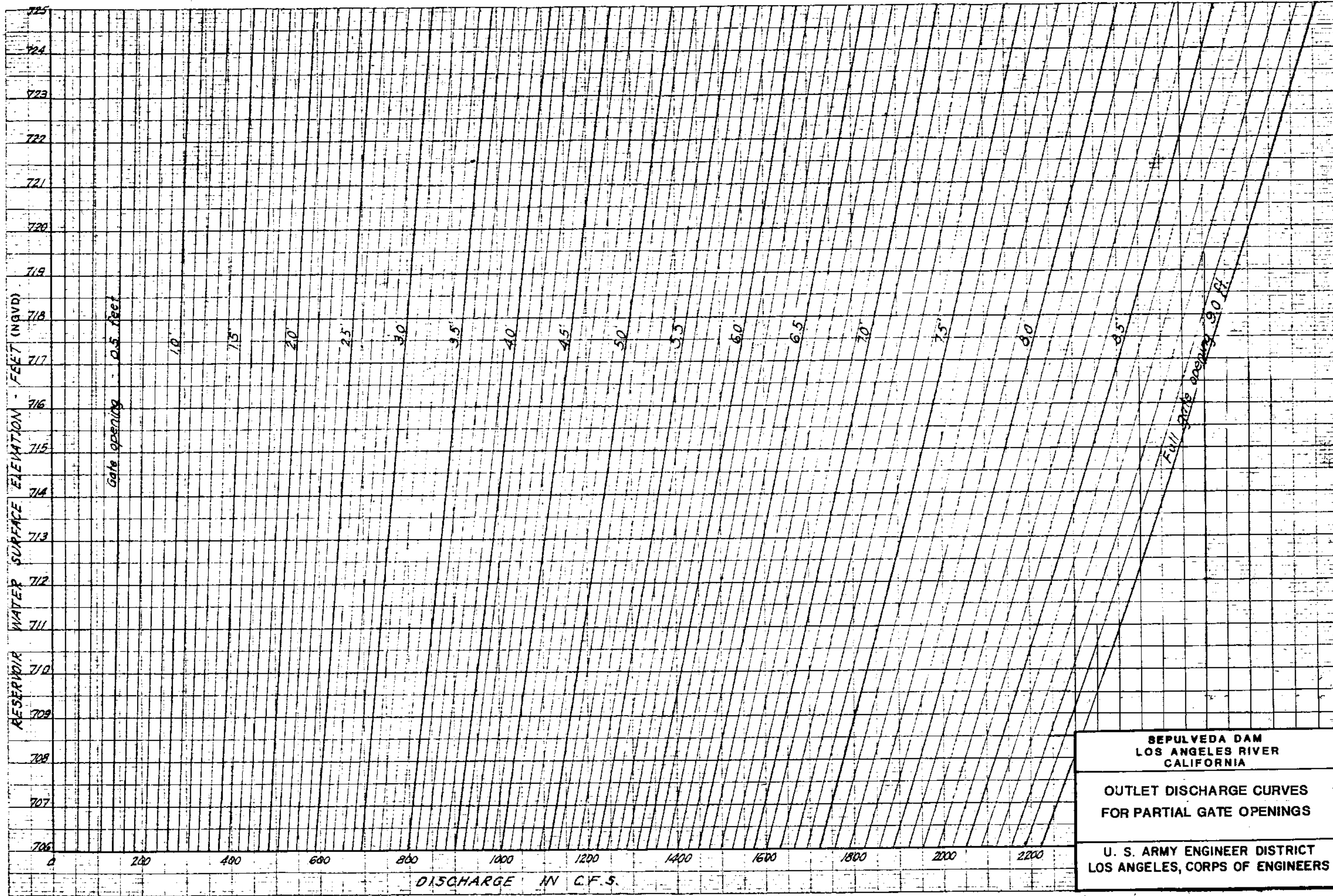




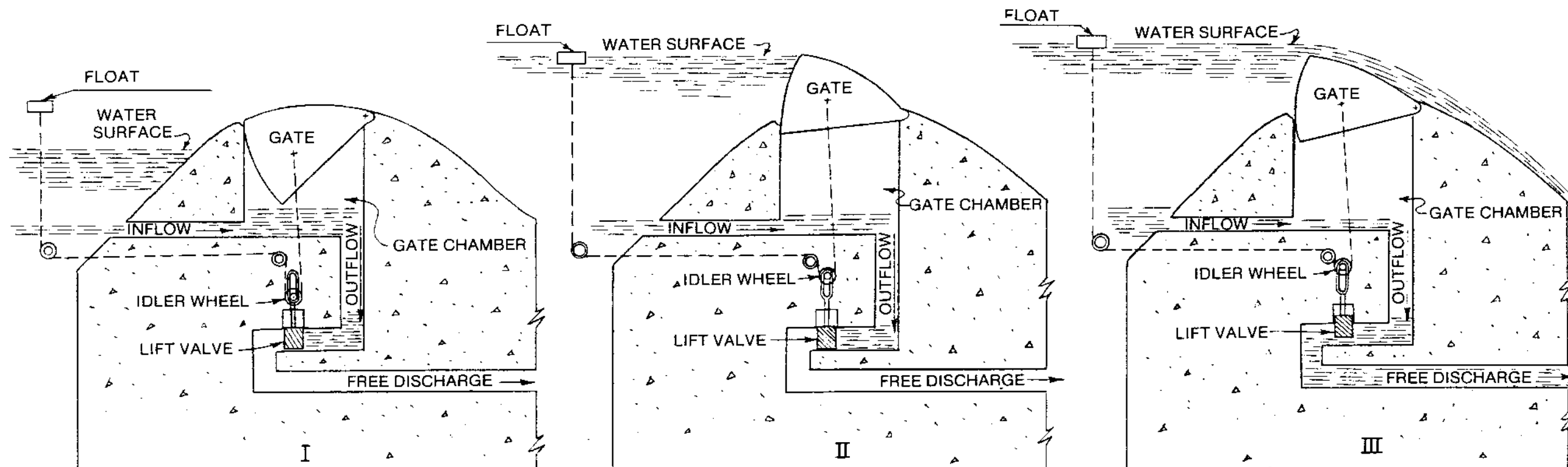
SEPULVEDA DAM  
 LOS ANGELES RIVER  
 CALIFORNIA

OUTLET DISCHARGE CURVES  
 FOR PARTIAL GATE OPENINGS

U. S. ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS



**SEPULVEDA DAM**  
**LOS ANGELES RIVER**  
**CALIFORNIA**  
  
**OUTLET DISCHARGE CURVES**  
**FOR PARTIAL GATE OPENINGS**  
  
**U. S. ARMY ENGINEER DISTRICT**  
**LOS ANGELES, CORPS OF ENGINEERS**

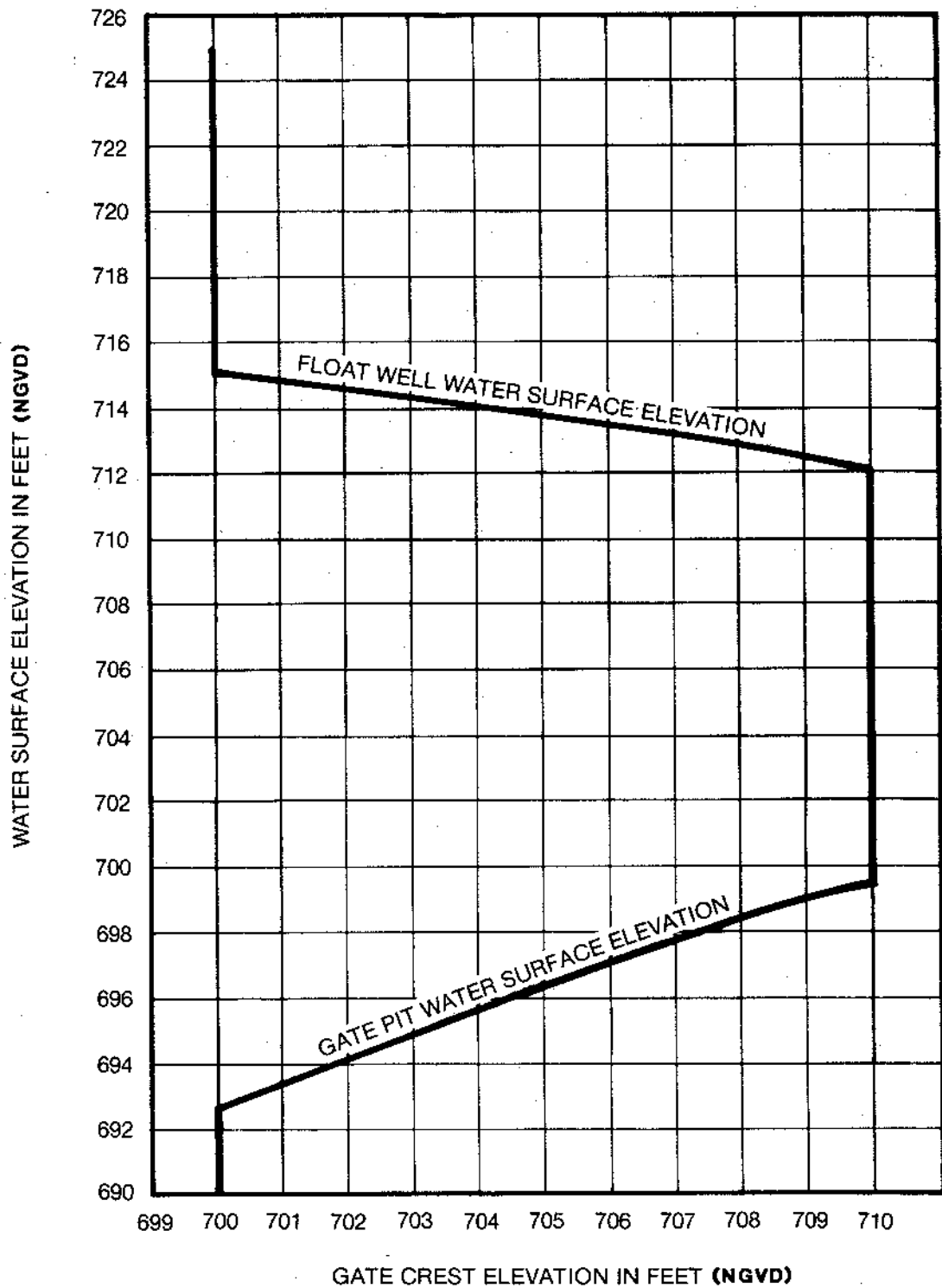


WATER IS RISING, GATE IS CLOSED, AND FLOAT IS AT LOWEST POSITION. IDLER WHEEL IS AT BOTTOM OF SLOT TO TAKE UP SLACK IN CABLE. LIFT VALVE IS CLOSED BY ITS OWN WEIGHT.

WATER IS AT MAXIMUM ELEVATION WITHOUT SPILLING. GATE HAS FLOATED TO TOP POSITION BY WATER IN GATE CHAMBER. IDLER WHEEL IS RAISED TO NEAR TOP OF SLOT, BUT LIFT VALVE IS STILL CLOSED. A FURTHER RISE OF THE FLOAT BY MORE THAN 1 FOOT WILL OPEN THE LIFT VALVE.

WATER IS PASSING OVER GATE. A FLOAT ELEVATION OF MORE THAN 1 FOOT ABOVE POSITION II (THE THRESHOLD OF SPILLING) OPENS THE LIFT VALVE. WHEN OUTFLOW EXCEEDS INFLOW TO THE GATE CHAMBER, THE GATE IS LOWERED. THE LOWERING OF THE GATE ALLOWS THE LIFT VALVE TO CLOSE UNDER ITS OWN WEIGHT UNTIL THE OUTFLOW AND INFLOW BALANCE, AND THE GATE REMAINS STATIONARY.

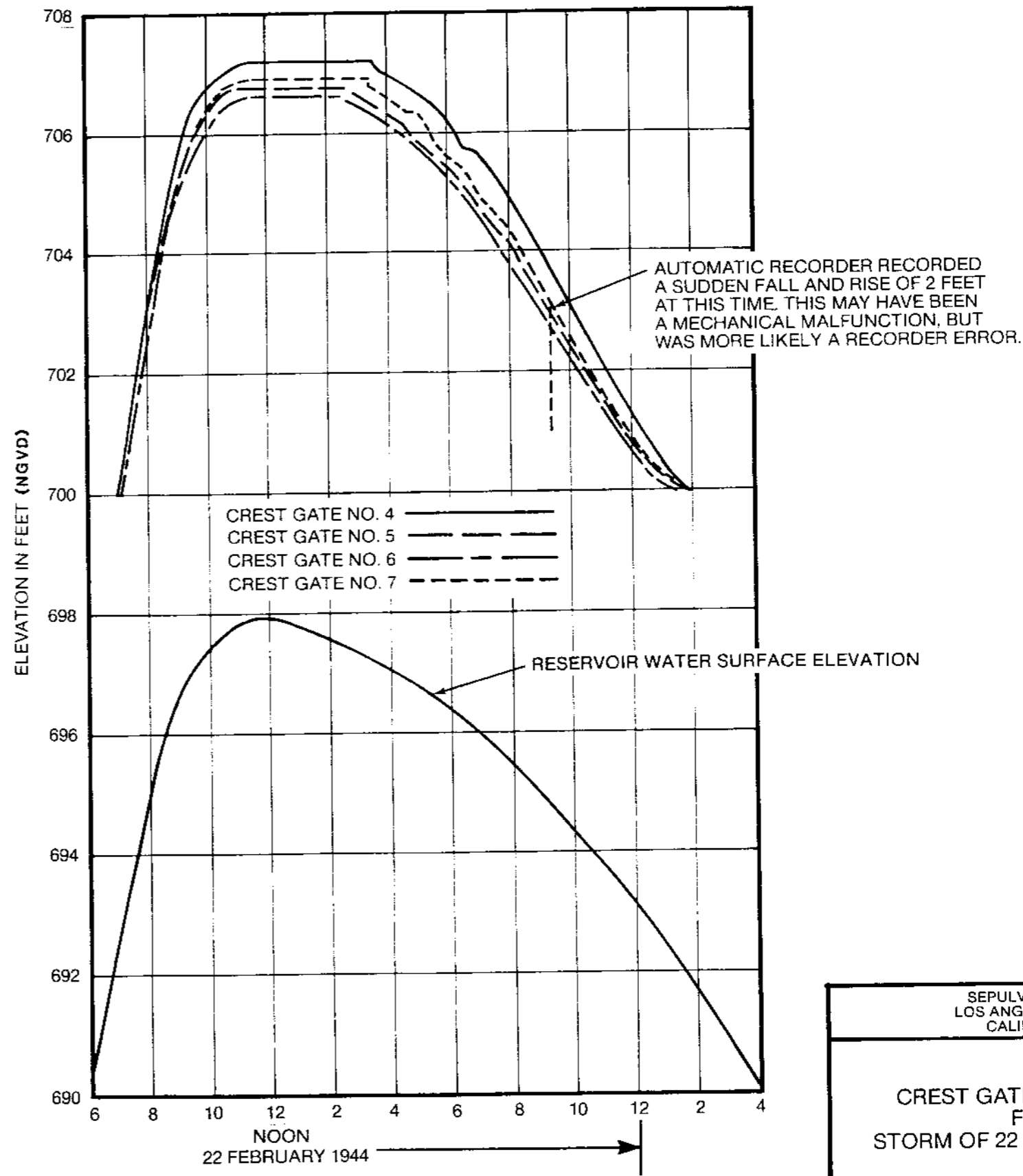
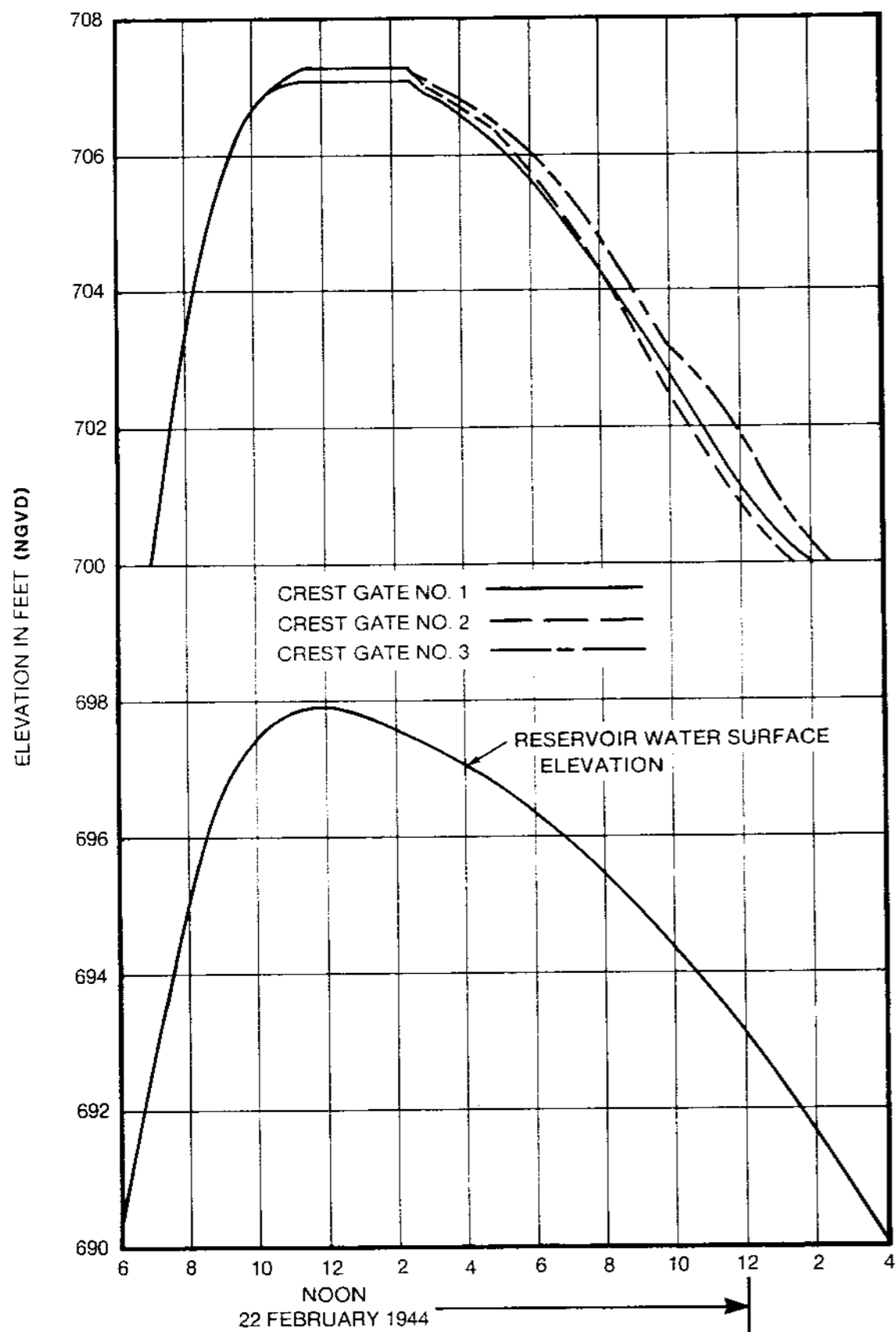
SEPULVEDA DAM LOS ANGELES RIVER CALIFORNIA
SCHEMATIC DIAGRAM OF CREST GATE OPERATION
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT



SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

ELEVATION OF CREST GATES  
VS  
WATER SURFACE ELEVATION  
IN  
GATE PIT AND FLOAT WELL

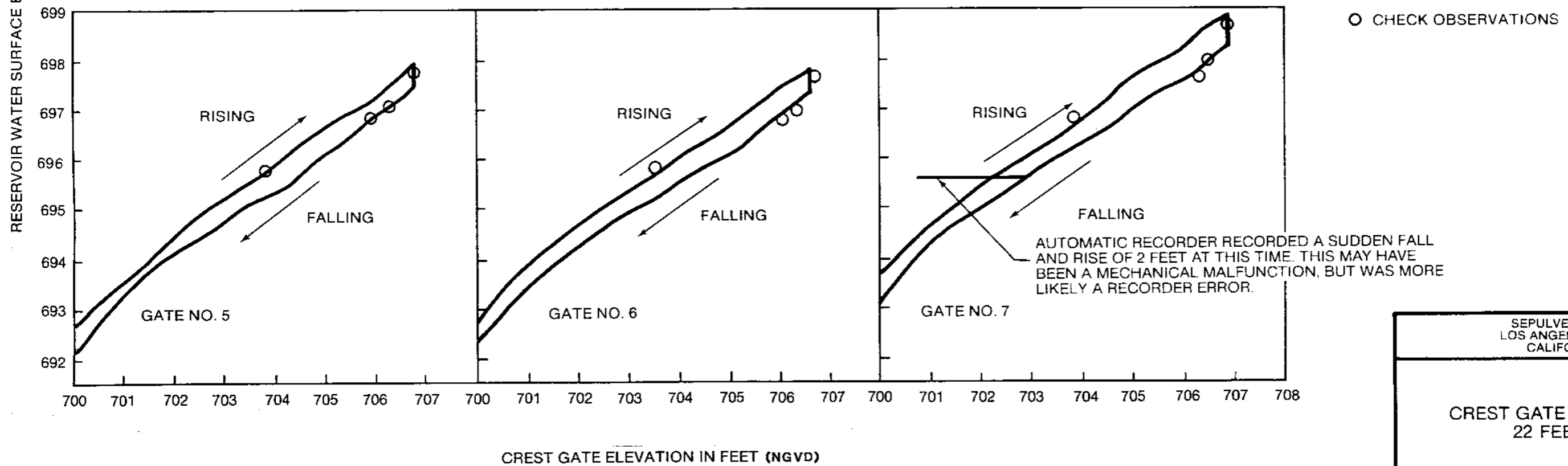
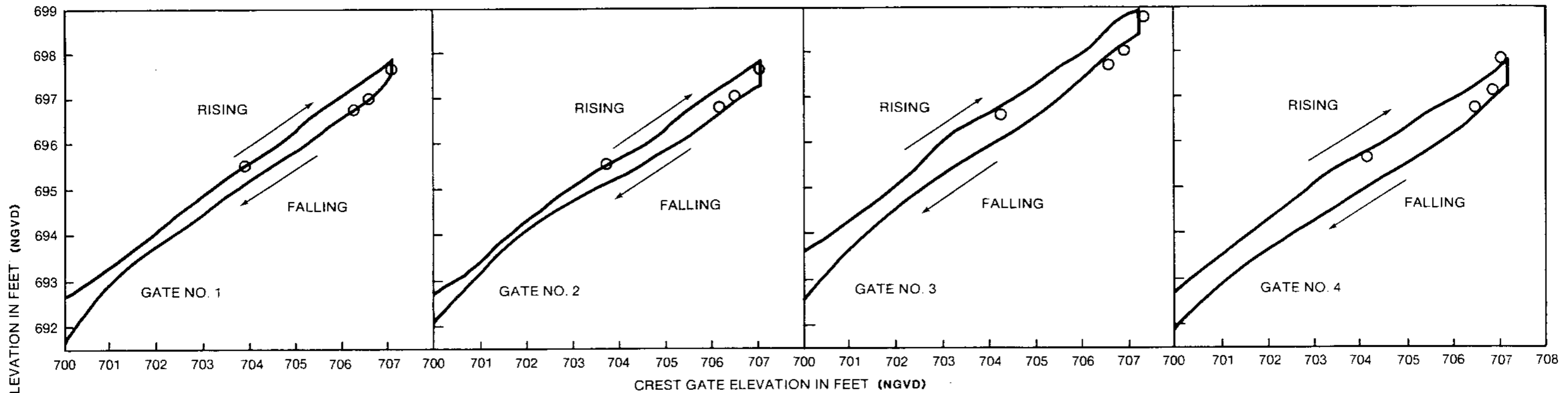
U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

CREST GATE OPERATION  
FOR  
STORM OF 22 FEBRUARY 1944

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

CREST GATE OPERATION  
22 FEB 1944

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

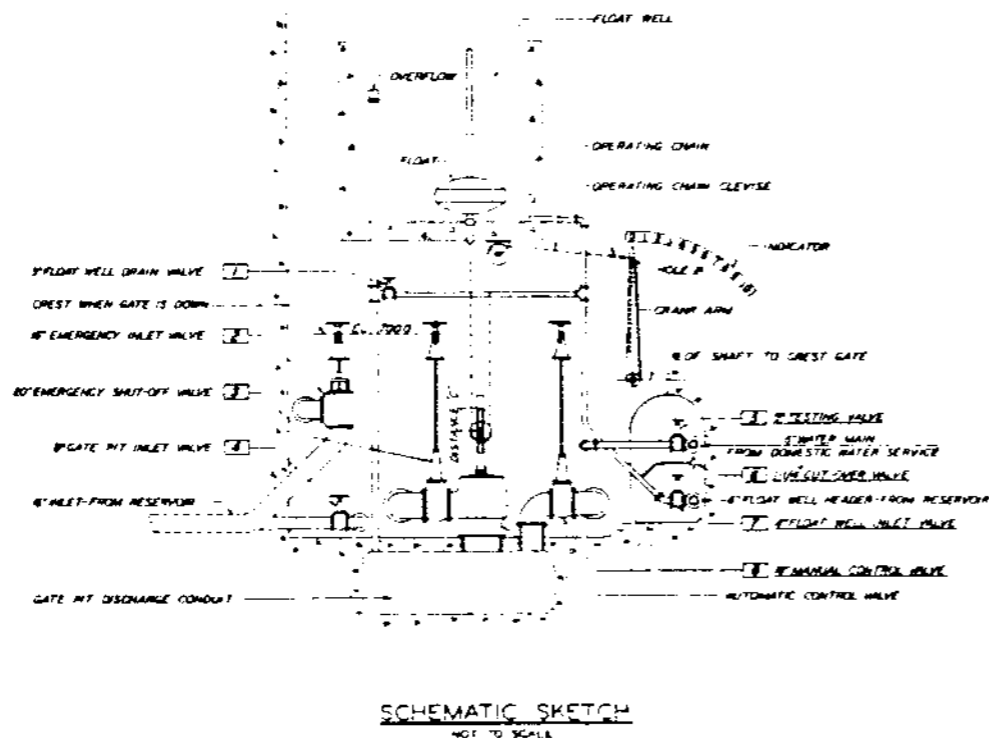
15

**GENERAL**

THE CREST GATES ARE DESIGNED TO PERMIT STORAGE OF FLOOD WATERS TO ELEV 710.0 WHEN THE GATES ARE FULLY RAISED, OR TO PERMIT DISCHARGE OF FLOOD WATERS DOWN TO ELEV 700.0 WHEN THE GATES ARE LOWERED. THE FLOATS WHICH NORMALLY CONTROL THE ELEVATION OF THE CREST GATES, HAVE A WORKING RANGE BETWEEN RESERVOIR WATER SURFACE ELEVATION OF 709.9 AND RESERVOIR WATER SURFACE ELEVATION OF 710.0.

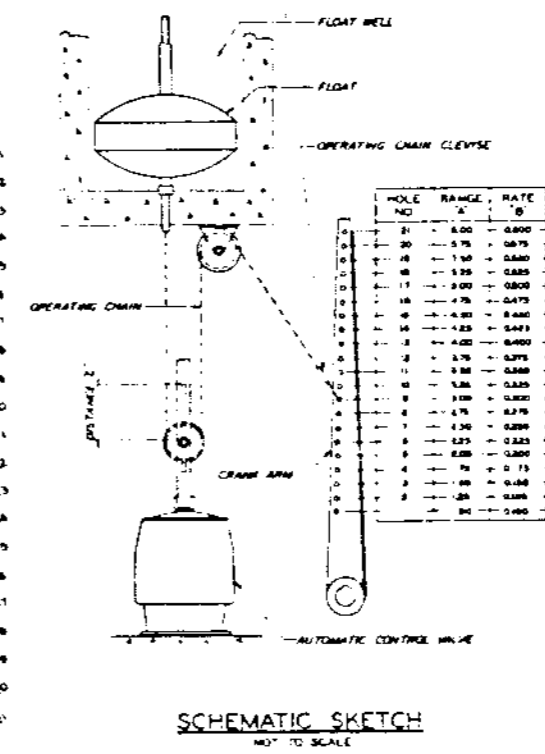
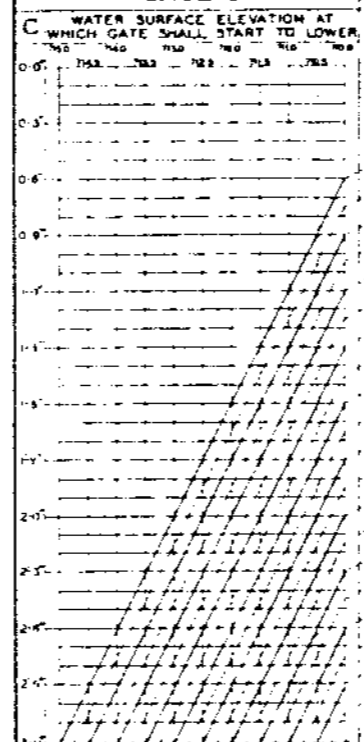
WITHIN THE LIMITS SET FORTH ABOVE, AN INFINITELY LARGE NUMBER OF OPERATING CHARACTERISTICS ARE AVAILABLE.

THE INSTRUCTIONS ON THIS SHEET ARE INTENDED TO FACILITATE THE ADJUSTMENT OF THE MECHANISM TO MEET ANY OPERATING CHARACTERISTIC WITHIN THE LIMITS SET FORTH ABOVE.



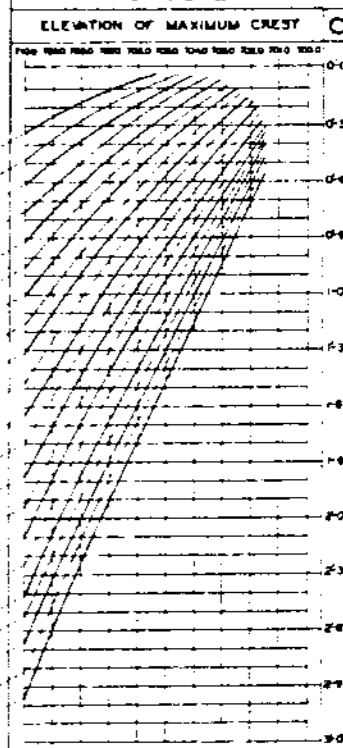
SCHEMATIC SKETCH NOT TO SCALE

**CASE I**



SCHEMATIC SKETCH NOT TO SCALE

**CASE II**



THE ABOVE SCHEMATIC SKETCH SHOWS THE VALVES BY WHICH THE CREST GATES ARE CONTROLLED

**TESTING WITH DRY WATER** TO TEST THE GATE DURING THE DRY SEASON CLOSE VALVES NUMBERED 1-4 THEN TO RAISE GATE OPEN VALVE 5 TO RAISE FLOAT OPEN VALVE 6 TO DRAW GATE PIT OPEN VALVE 7 TO DRAW FLOAT CHAMBER OPEN VALVE 8

**FULL AUTOMATIC CONTROL** THIS IS THE NORMAL OPERATING CONDITION FOR WHICH THE CREST GATES ARE DESIGNED TO PERMIT THE FULL AUTOMATIC MECHANISM TO FUNCTION VALVES 1-4 SHALL BE OPEN AND VALVES 5-8 SHALL BE CLOSED DETAILED INSTRUCTIONS ARE GIVEN ELSEWHERE ON THIS SHEET EXPLAINING THE METHOD OF ADJUSTING THE CONTROL MECHANISM TO PRODUCE THE DESIRED OPERATING CHARACTERISTIC.

**SEMI-AUTOMATIC CONTROL** TO ADJUST THE CONTROL MECHANISM TO MAINTAIN THE GATE CREST AT ANY CHOSEN ELEVATION REGARDLESS OF THE FLOOD STAGE -- 1) CLOSE VALVES 1-4 AND OPEN VALVES 5-8 2) CONNECT THE OPERATING CHAIN CLEVIS TO HOLE 21 IN THE CRANK ARM 3) IF THE INDICATOR READS ZERO (CREST ELEV 700.0) ADJUST THE LENGTH OF THE OPERATING CHAIN SO THAT DISTANCE 'C' (SEE SKETCH ABOVE) IS 3'-0" 4) IF THE INDICATOR READS 10 (CREST ELEV 710.0) ADJUST THE LENGTH OF THE

OPERATING CHAIN SO THAT DISTANCE 'C' (SEE SKETCH ABOVE) IS 0'-0" 4) CLOSE VALVE 7 THE CREST GATE IS NOW SET TO RISE IN ADVANCE OF A FLOOD TO REACH A MAXIMUM CREST OF 710.0 TO LOWER THE CREST (OR TO OPEN ITS PIT) OPEN VALVE 8 UNTIL THE INDICATOR SHOWS THE DESIRED CREST SHOULD IT BE DESIRED TO RAISE THE CREST, WHILE BEING MAINTAINED BELOW ELEVATION 710.0, OPEN VALVE 5 UNTIL THE INDICATOR SHOWS THE DESIRED CREST THE MECHANISM WILL THEN MAINTAIN THIS CREST AT A VIRTUALLY CONSTANT ELEVATION WITHOUT FURTHER ATTENTION NOTE: UNDER CERTAIN CONDITIONS THERE WILL BE A TIME LAG WHILE ADJUSTING THE CREST FOR SEMI-AUTOMATIC CONTROL. HENCE ALLOW A FEW MINUTES FOR THE MECHANISM TO ATTAIN EQUILIBRIUM

**EMERGENCY MANUAL OPERATION** SHOULD THE CONTROL MECHANISM BECOME INOPERATIVE, EMERGENCY MANUAL CONTROL MAY BE RESORTED TO. CLOSE VALVES 1-4 AND OPEN VALVE 5 TO RAISE GATE CLOSE VALVE 6 AND OPEN VALVE 7 TO LOWER GATE

**OUT OF COMMISSION** SHOULD IT BE DESIRED TO PUT THE GATE OUT OF COMMISSION, CLOSE VALVES 1-4 AND OPEN VALVE 8 THE CREST GATE WILL THEN REMAIN LOWERED REGARDLESS OF THE FLOOD STAGE.

TO SET THE CREST GATE CONTROL MECHANISM TO MEET A FULL AUTOMATIC OPERATING REQUIREMENT

**CASE I** -- IN WHICH THE MAXIMUM CREST SHALL BE AT ELEVATION 710.0 NOTE: THIS CASE INCLUDES ALL NORMAL OPERATING REQUIREMENTS 1) SUBTRACT THE WATER SURFACE ELEVATION AT WHICH THE GATE SHALL START TO LOWER, FROM THE WATER SURFACE ELEVATION AT WHICH THE GATE SHALL BE FULLY LOWERED THE REMAINDER SHALL BE DESIGNATED 'RANGE A' 2) SELECT THE HOLE IN THE CRANK ARM (SEE SKETCH) WHICH MOST NEARLY AGREES WITH THE DESIRED 'RANGE A' AND CONNECT THE OPERATING CHAIN CLEVIS THERETO 3) ON THE CASE I CHART (ABOVE) TRACE THE LINE CORRESPONDING TO THE SELECTED CRANK ARM HOLE TO ITS INTERSECTION WITH THE W.S. ELEV. AT WHICH GATE SHALL START TO LOWER READ DISTANCE 'C' TO THE LEFT 4) ADJUST THE LENGTH OF THE OPERATING CHAIN SO THAT DISTANCE 'C' (SEE SKETCH) AGREES WITH DISTANCE 'C' FROM THE CHART

**EXAMPLE CASE I**  
PROBLEM: GATE SHALL START TO LOWER WHEN W.S. REACHES EL 710.0 AND SHALL BE FULLY LOWERED WHEN W.S. REACHES EL 714.0  
SOLUTION: 714.0 - 710.0 = 4'-0" RANGE A, WHICH CORRESPONDS (SEE SKETCH) TO HOLE 8 FROM CASE I CHART, INTERSECTION OF HOLE 8 LINE AND W.S. EL 710.0 IS OPPOSITE C = 8'-0" WHICH IS USED

**CASE II** -- IN WHICH THE MAXIMUM CREST SHALL BE LESS THAN ELEVATION 710.0 NOTE: IN THIS CASE THE RESERVOIR W/S AT WHICH GATE STARTS TO LOWER IS ELEV 709.8 1) SUBTRACT 709.8 FROM THE W/S ELEV AT WHICH THE GATE SHALL BE FULLY LOWERED DIVIDE THE REMAINDER BY THE FINAL WHOLE DIGIT AND ITS DECIMAL FRACTION IN THE DESIRED MAXIMUM CREST THE QUOTIENT SHALL BE DESIGNATED 'RATE B' 2) SELECT THE HOLE IN THE CRANK ARM (SEE SKETCH) WHICH MOST NEARLY AGREES WITH THE DESIRED 'RATE B' AND CONNECT THE OPERATING CHAIN CLEVIS THERETO 3) ON THE CASE II CHART (ABOVE) TRACE THE LINE CORRESPONDING TO THE SELECTED CRANK ARM HOLE TO ITS INTERSECTION WITH THE DESIRED MAXIMUM CREST READ DISTANCE 'C' TO THE RIGHT 4) ADJUST THE LENGTH OF THE OPERATING CHAIN SO THAT DISTANCE 'C' (SEE SKETCH) AGREES WITH DISTANCE 'C' FROM THE CHART

**EXAMPLE CASE II**  
PROBLEM: DESIRED MAXIMUM CREST = EL 707.0 AND GATE SHALL BE FULLY LOWERED WHEN W/S REACHES EL 715.0  
SOLUTION: 715.0 - 709.8 = 5.2' = 0.88 = RATE B, WHICH CORRESPONDS (SEE SKETCH) TO HOLE 18 FROM CASE II CHART, INTERSECTION OF HOLE 18 LINE AND MAXIMUM CREST EL 707.0 IS OPPOSITE C = 1'-5 1/4" WHICH IS USED

**FUNCTION OF VALVES**

**VALVE 1** -- THIS VALVE DRAINS THE FLOAT CHAMBER UNDER SEMI-AUTOMATIC CONTROL THIS ACTION RAISES THE GATE BY CLOSING THE AUTOMATIC CONTROL VALVE  
**VALVE 2** -- THIS VALVE IS AN AUXILIARY VALVE TO VALVE 4 IT ADMITS WATER INTO THE GATE CHAMBER THEREBY TENDING TO RAISE THE GATE. THIS VALVE SHOULD BE OPENED ONLY IF VALVE 4 IS OF INSUFFICIENT CAPACITY TO RAISE THE GATE, WHICH MAY HAPPEN IF THE GATE SEALS LEAK EXCESSIVELY, OR AN OUTLET VALVE SHOULD BECOME INOPERATIVE IN OPEN POSITION THIS VALVE SHOULD BE LOCKED CLOSED  
**VALVE 3** -- THIS VALVE IS IN SERIES WITH THE AUTOMATIC CONTROL VALVE AND MUST BE CLOSED ONLY IF THE AUTOMATIC CONTROL VALVE SHOULD BECOME INOPERATIVE IN OPEN POSITION  
**VALVE 4** -- THIS VALVE ADMITS WATER INTO THE GATE CHAMBER THEREBY TENDING

TO RAISE THE GATE  
**VALVE 5** -- THIS VALVE ADMITS WATER FROM THE DOMESTIC WATER SUPPLY TO THE GATE CHAMBER IN THIS WAY THE GATE MAY BE OPENED FOR TESTING DURING THE DRY SEASON.  
**VALVE 6** -- THIS VALVE ADMITS WATER FROM THE DOMESTIC WATER SUPPLY TO THE CONTROL FLOAT WELL. THIS VALVE IS USED IN SEMI-AUTOMATIC OPERATION  
**VALVE 7** -- THIS VALVE ADMITS WATER FROM THE RESERVOIR INTO THE CONTROL FLOAT WELL. THIS VALVE IS OPEN FOR AUTOMATIC OPERATION  
**VALVE 8** -- THIS VALVE BYPASSES THE AUTOMATIC CONTROL VALVE IT CAN BE USED TO RELEASE WATER FROM THE GATE CHAMBER AND THUS LOWER THE GATE

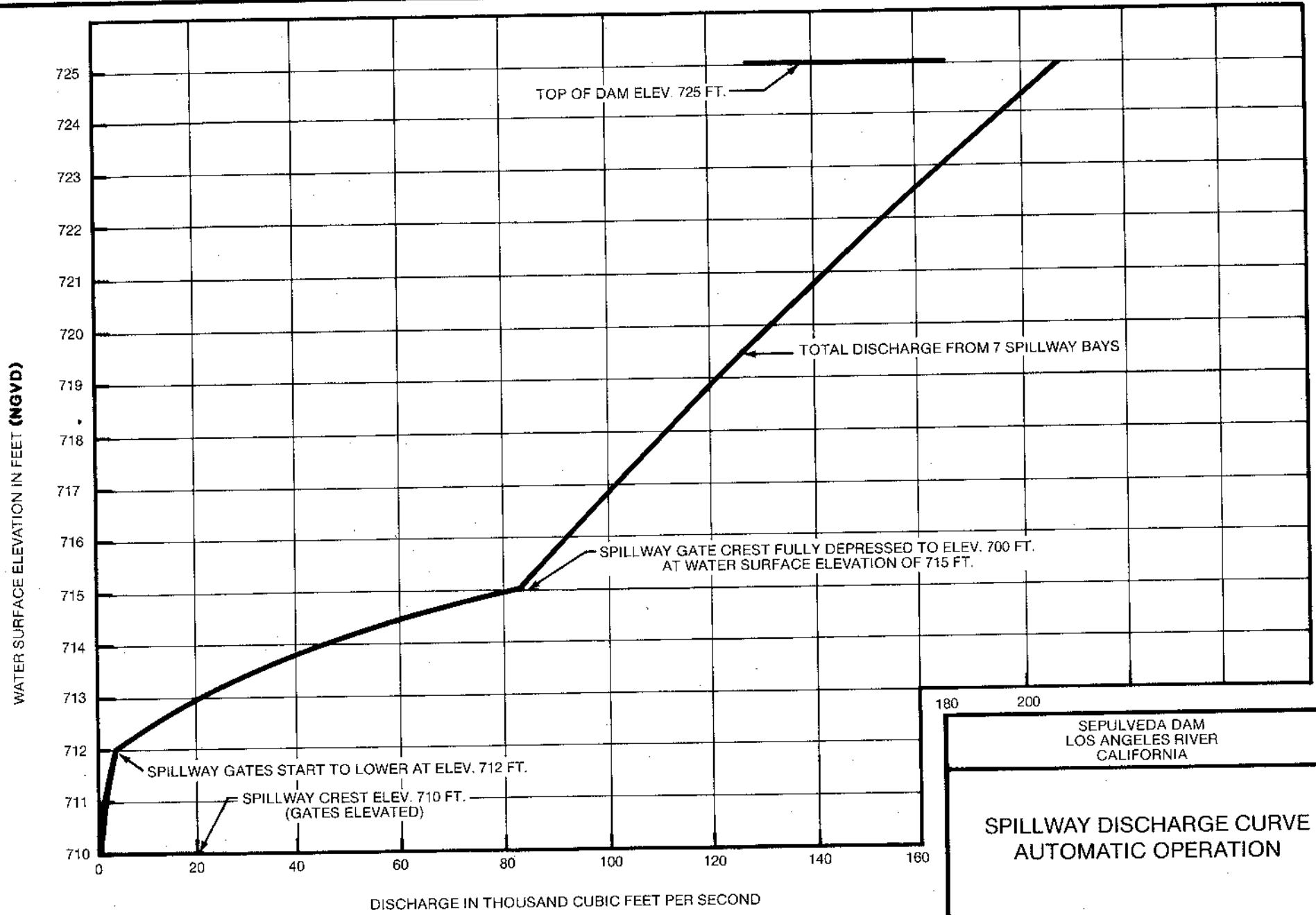
NOTE: ALL ADJUSTMENTS COVERED ABOVE IN CASE I & II SHALL BE MADE WITH CREST GATE FULLY LOWERED AND WITH FLOAT WELL EMPTY

SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

**OPERATING INSTRUCTIONS**

**FOR CREST GATES**

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



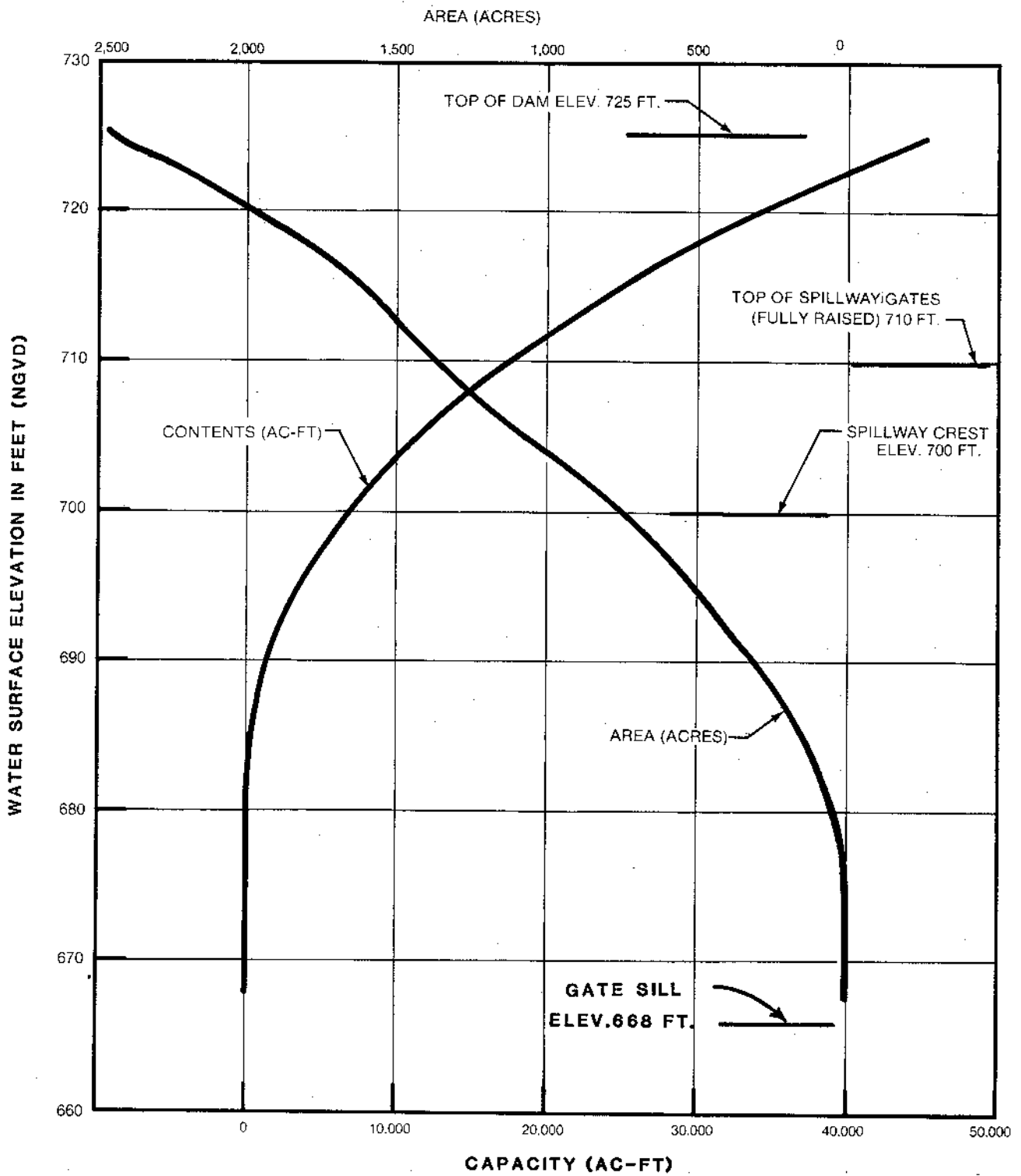
180 200

SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

**SPILLWAY DISCHARGE CURVE  
AUTOMATIC OPERATION**

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

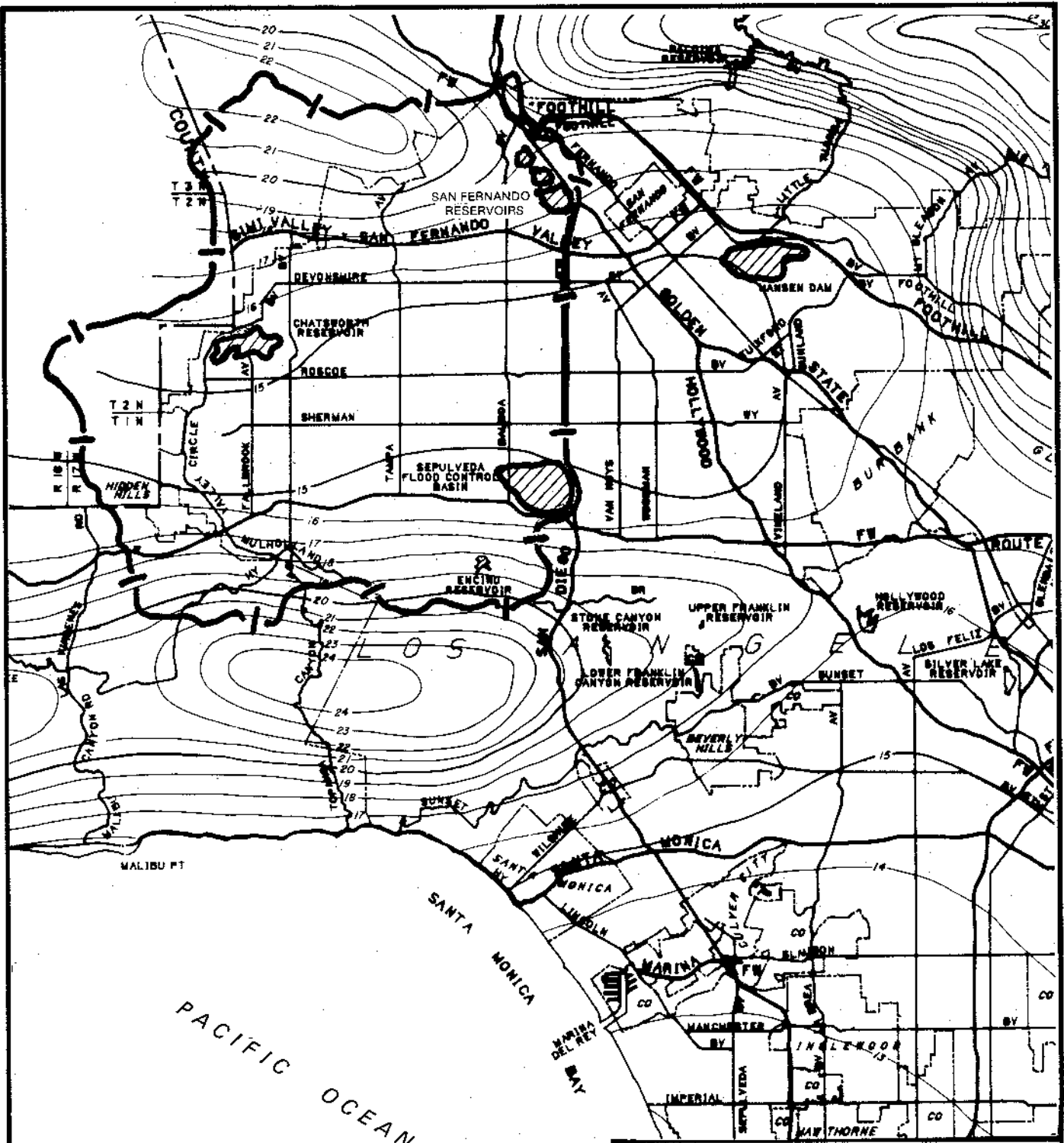



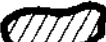


SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

WATER SURFACE ELEVATION  
VS  
CAPACITY AND AREA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



- LEGEND
-  DRAINAGE BOUNDARY
  -  RESERVOIR

SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

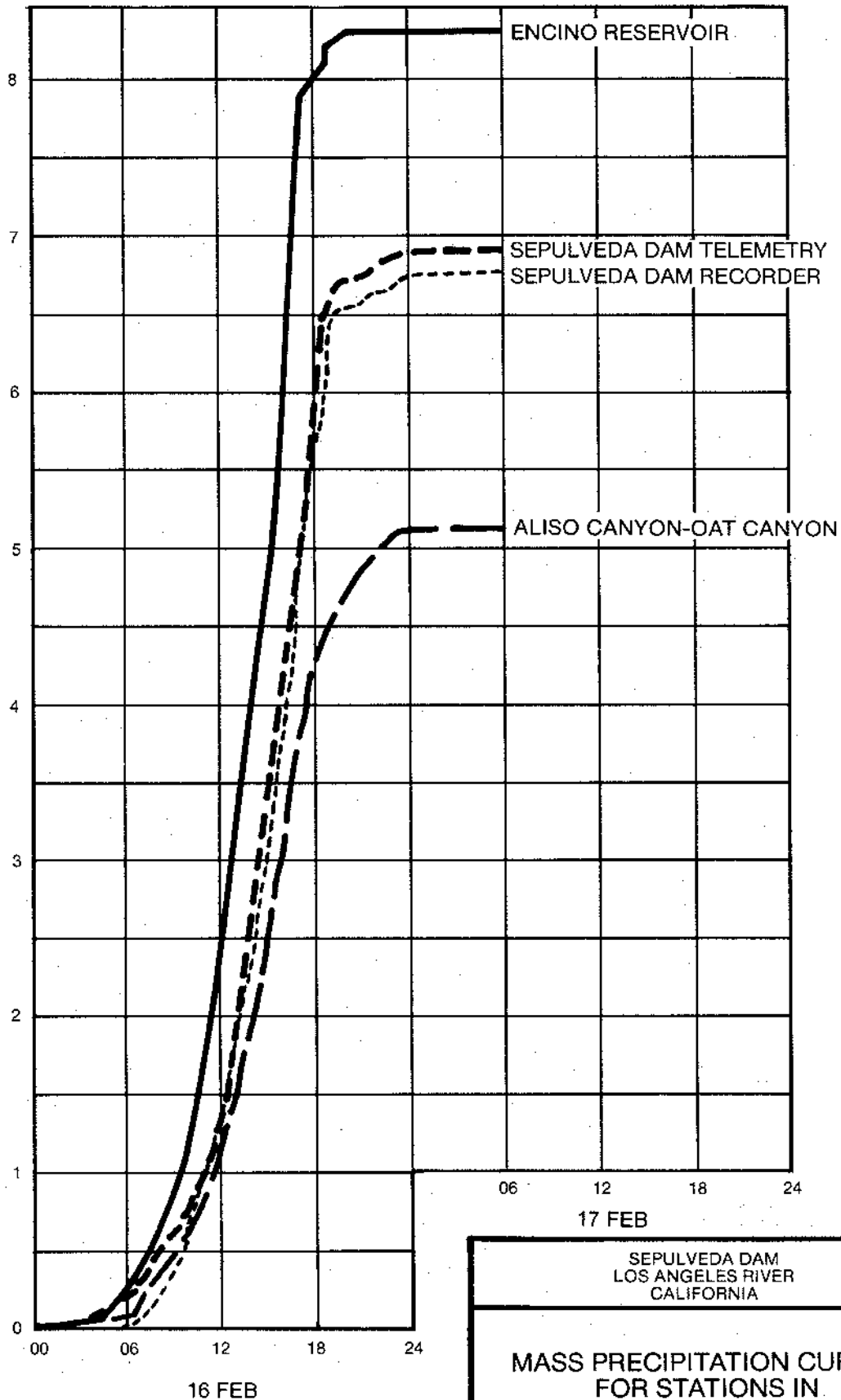
---

**MEAN ANNUAL  
PRECIPITATION  
IN INCHES**

---

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

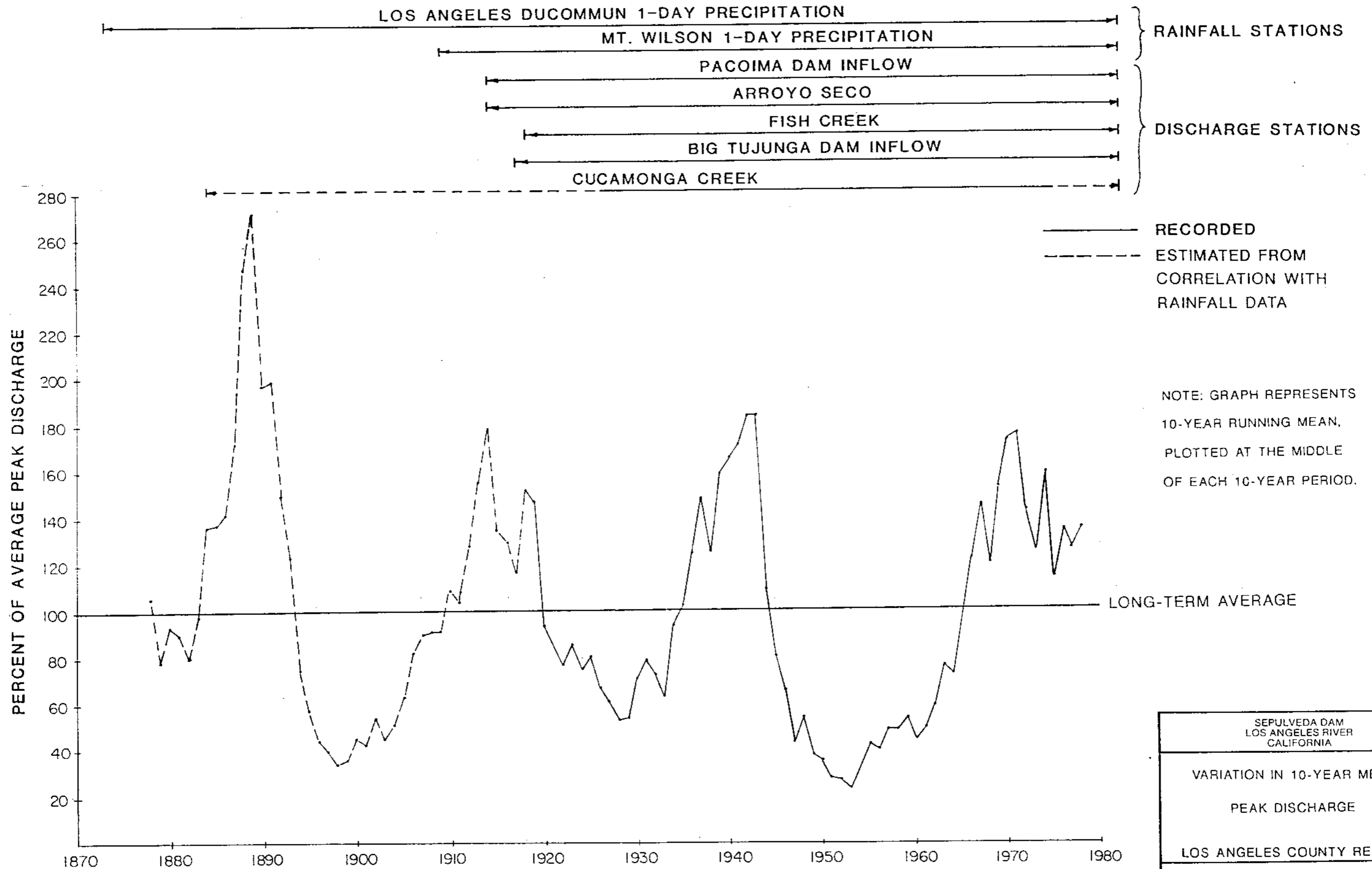
ACCUMULATED PRECIPITATION IN INCHES



SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

MASS PRECIPITATION CURVES  
FOR STATIONS IN  
SEPULVEDA BASIN  
16-17 FEB, 1980

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

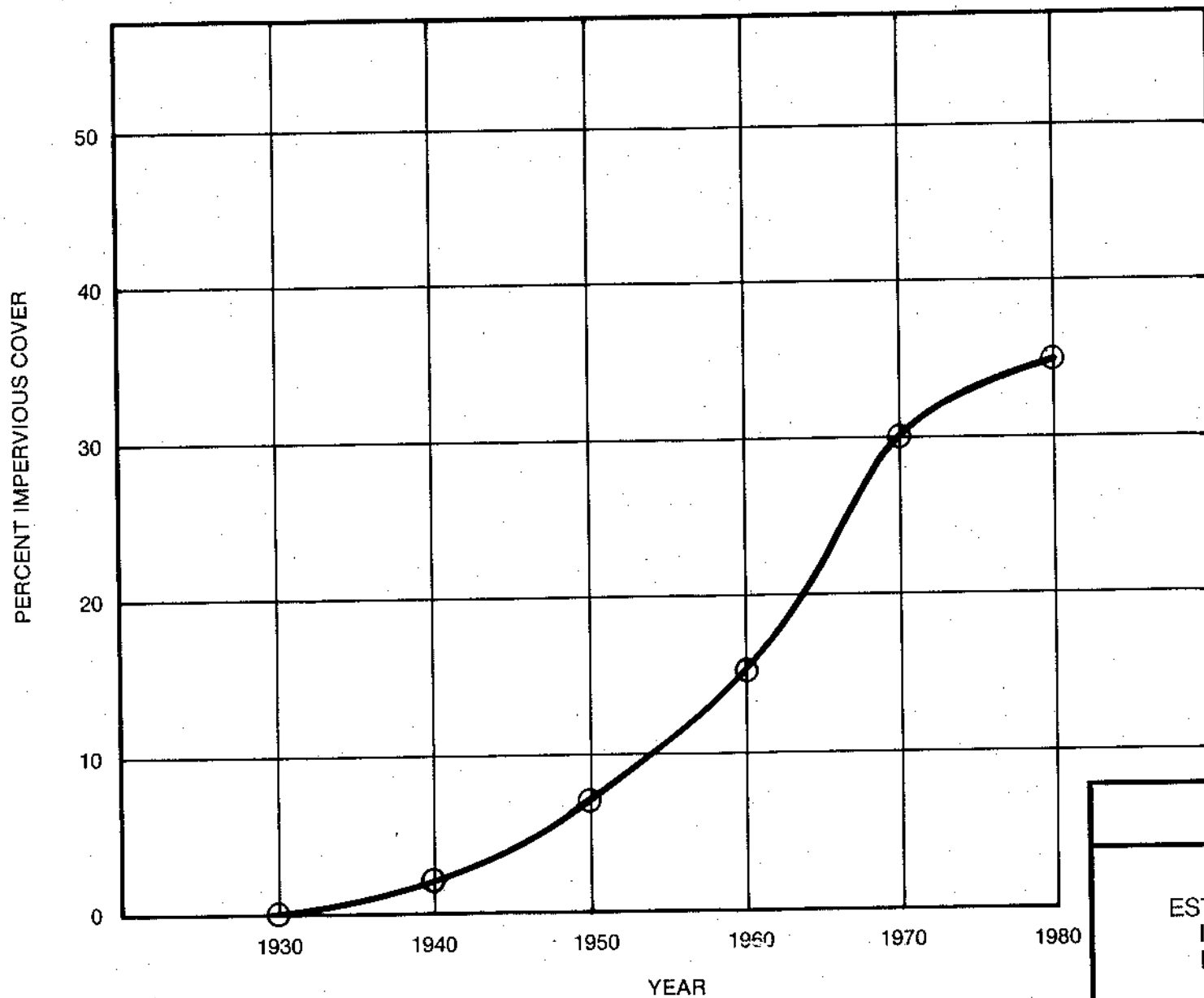


SEPULVEDA DAM  
 LOS ANGELES RIVER  
 CALIFORNIA

VARIATION IN 10-YEAR MEAN  
 PEAK DISCHARGE

LOS ANGELES COUNTY REGION

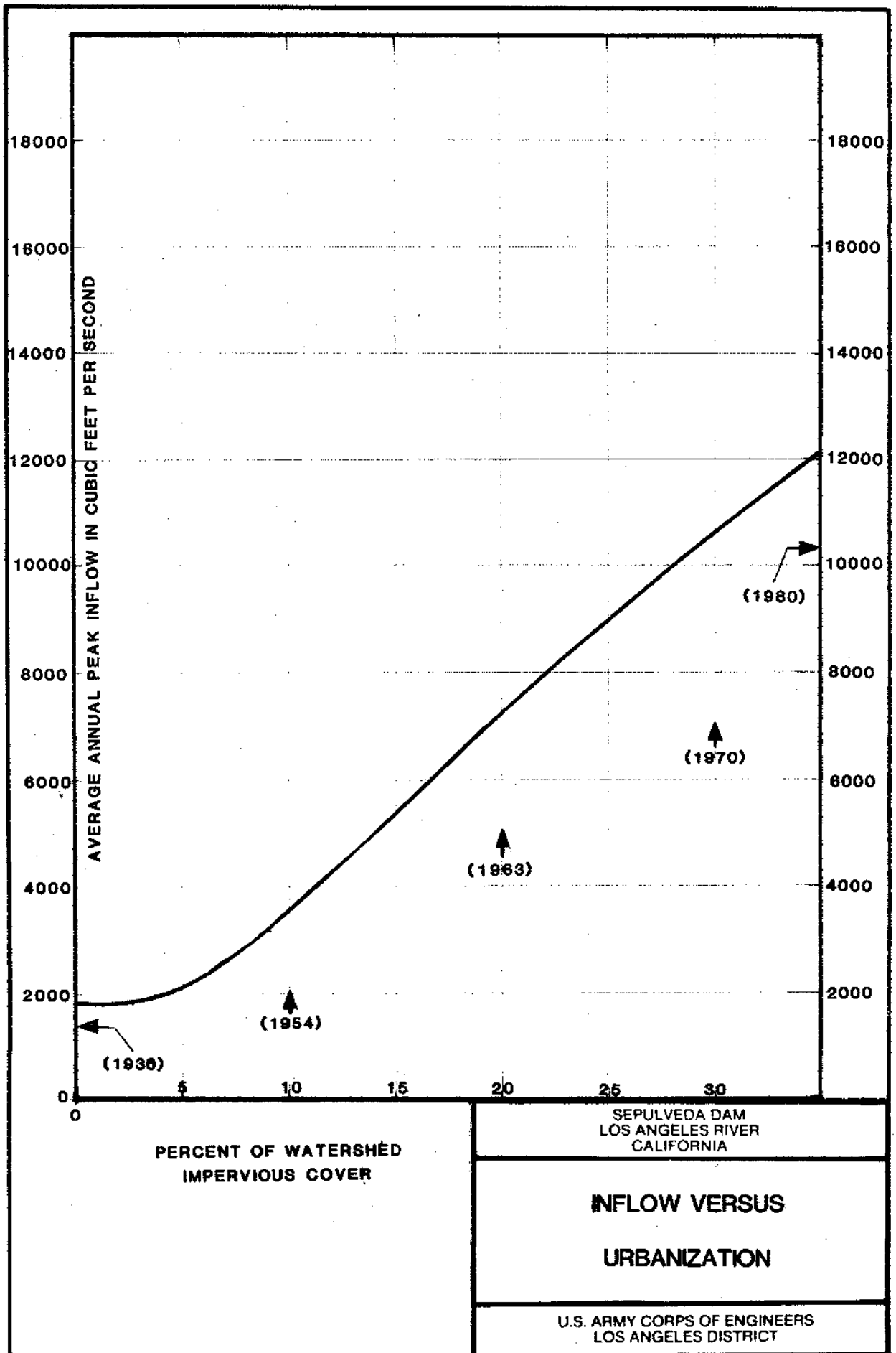
U.S. ARMY CORPS OF ENGINEERS  
 LOS ANGELES DISTRICT

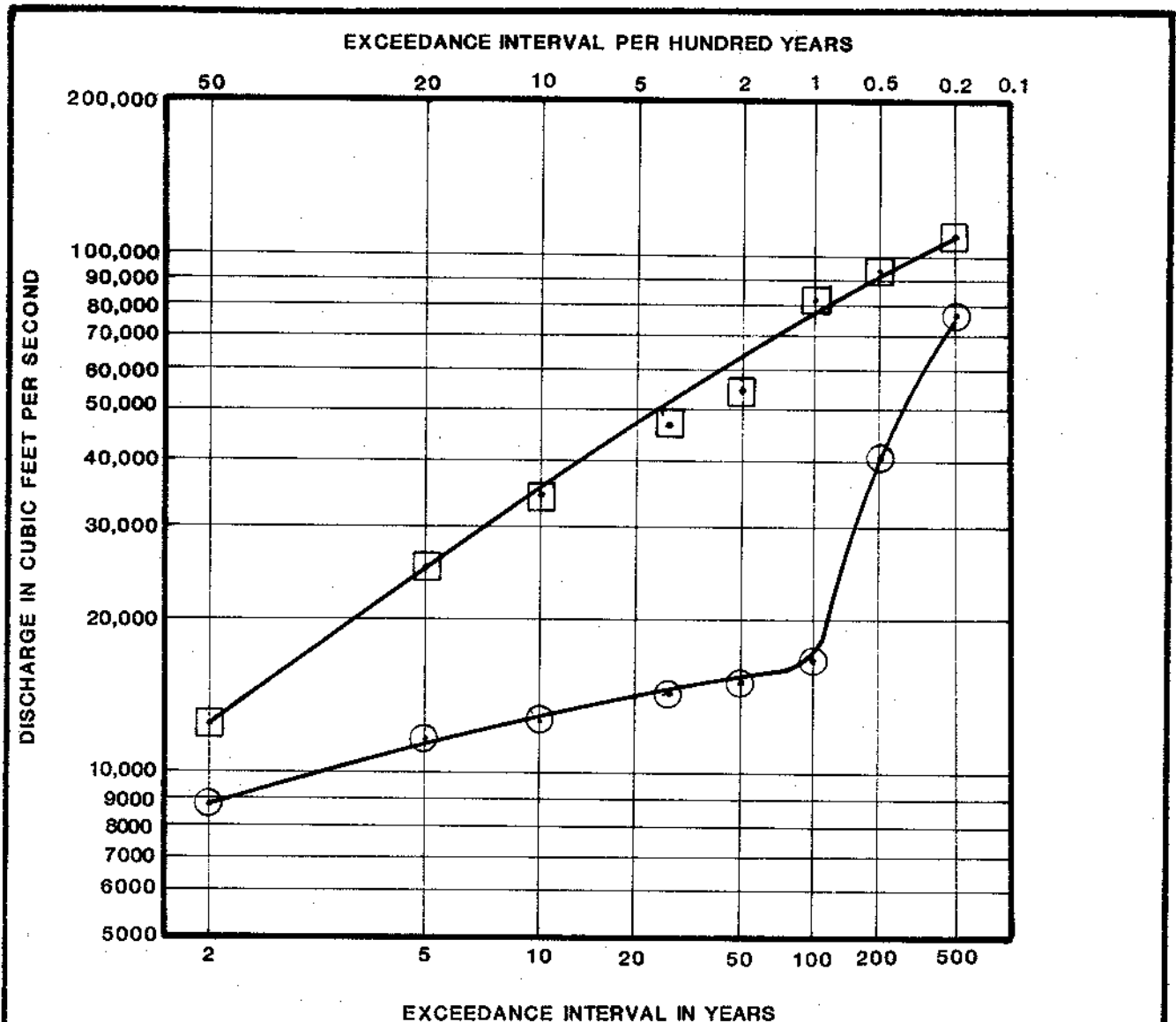


SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

ESTIMATED PERCENT OF  
IMPERVIOUS COVER  
IN DRAINAGE BASIN

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT





☐ — INFLOW

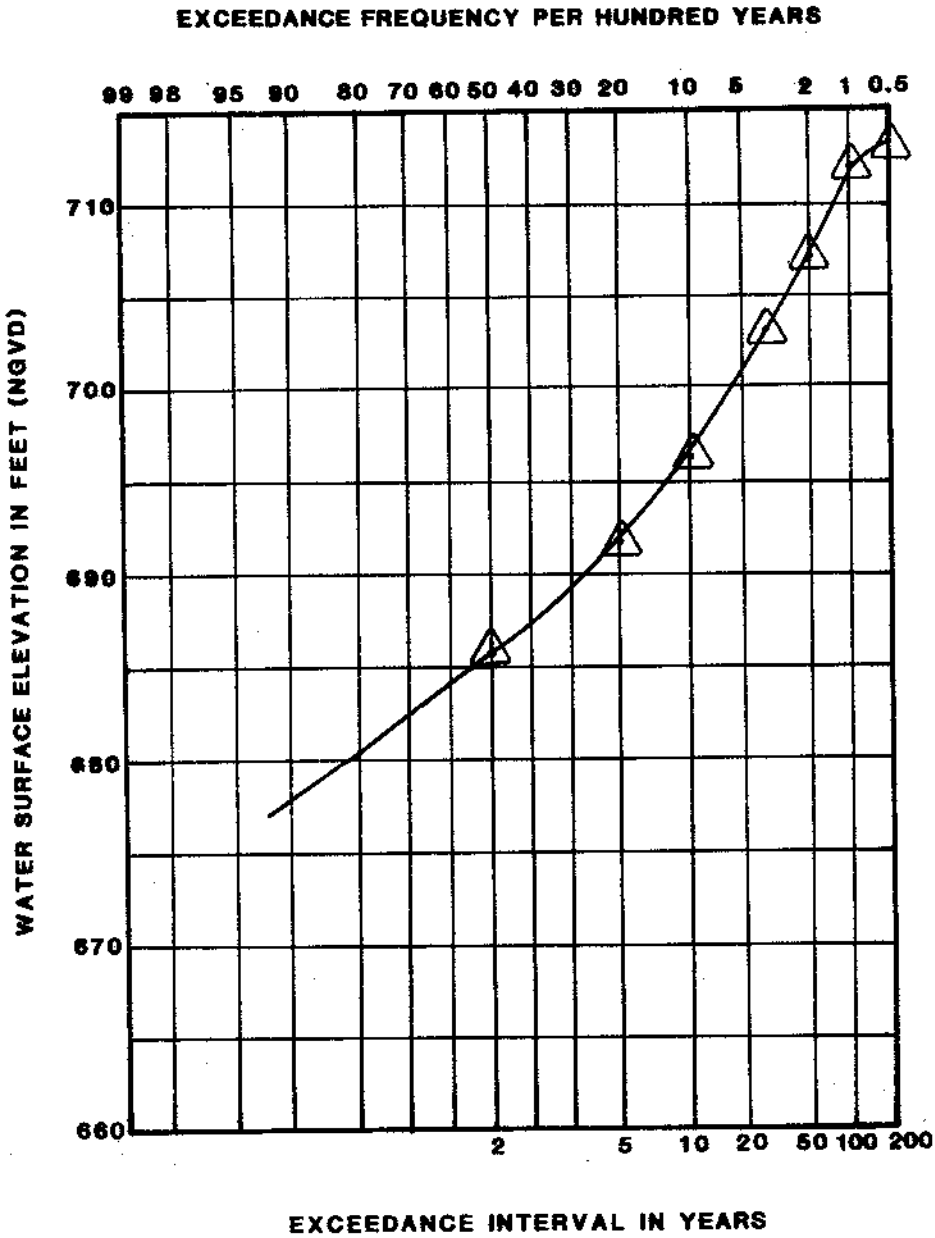
○ — OUTFLOW

☐, ○ Data points derived from a rainfall-runoff analysis as a part a 1985 Corps of Engineers review study. Frequency values from the curves of this plate are listed in Table 4-08.

SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

DISCHARGE FREQUENCY  
CURVES  
1980 CONDITIONS

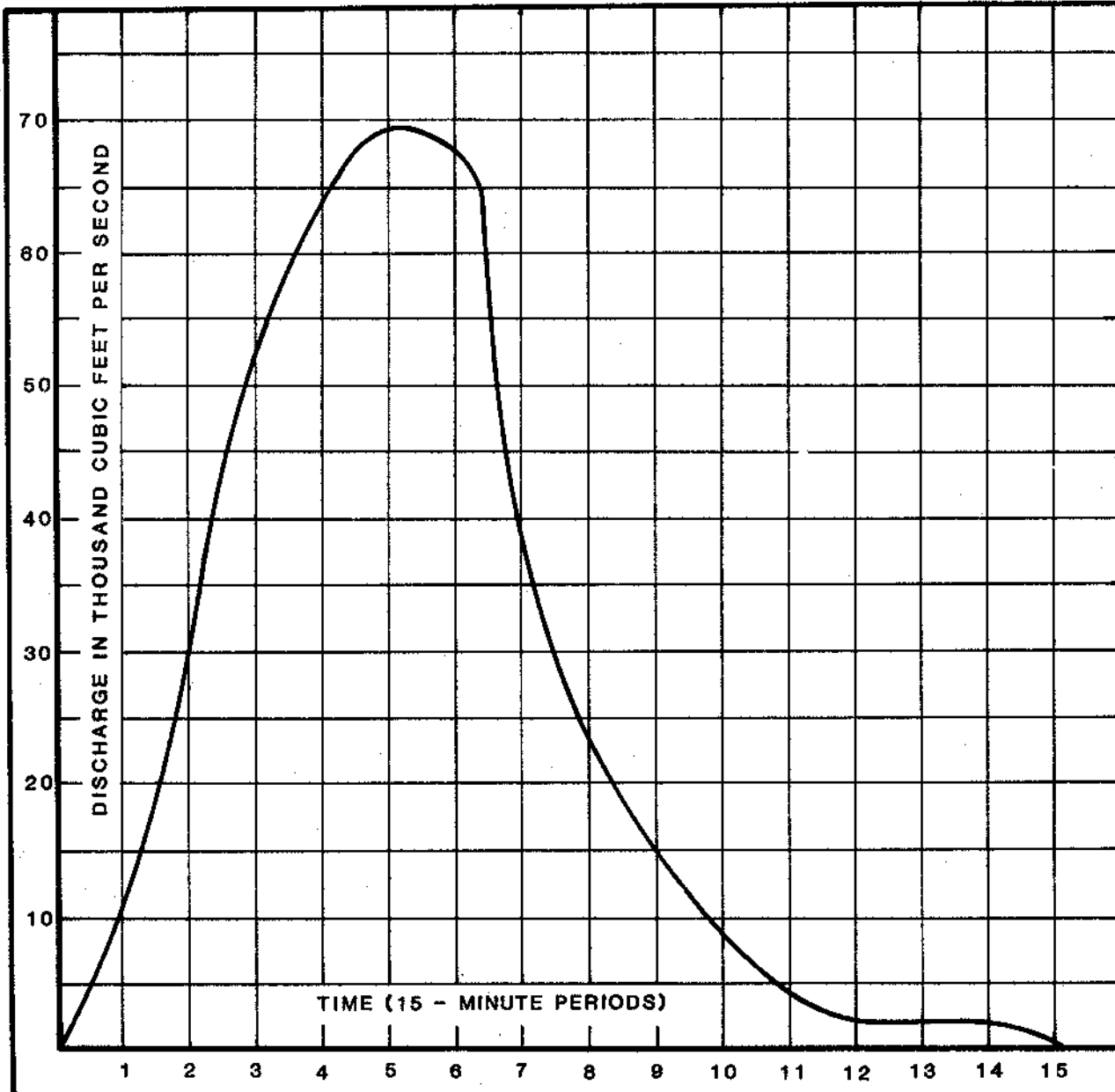
U. S. ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED:



△ Data points derived from a rainfall-runoff analysis as part of a 1985 Corps of Engineers review study. Frequency values from the curves of this plate are listed in Table 4-06.

SEPULVEDA DAM LOS ANGELES RIVER CALIFORNIA
<b>ELEVATION FREQUENCY CURVE</b> <b>1980 CONDITIONS</b>
U. S. ARMY ENGINEER DISTRICT LOS ANGELES, CORPS OF ENGINEERS

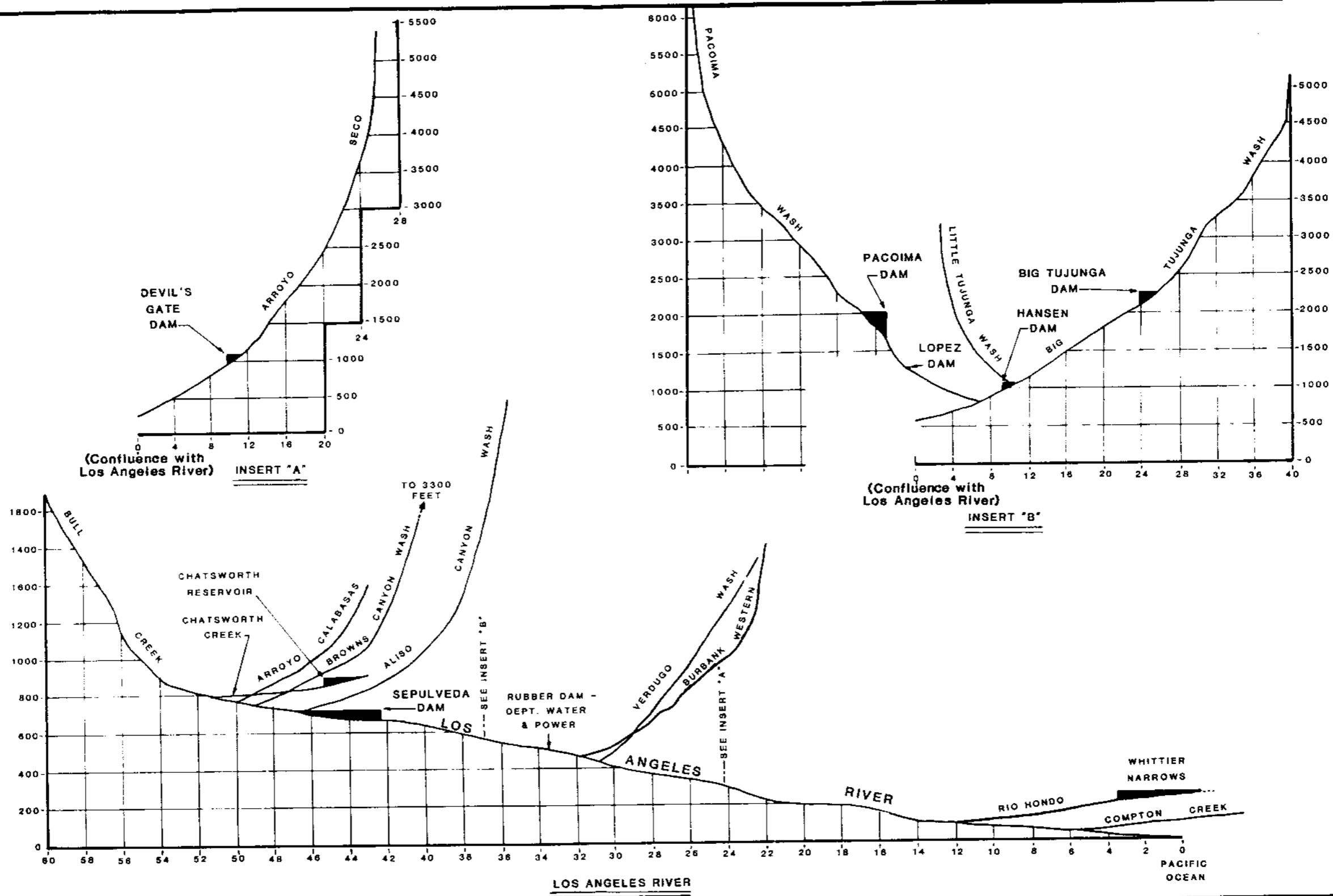




SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

UNIT HYDROGRAPH

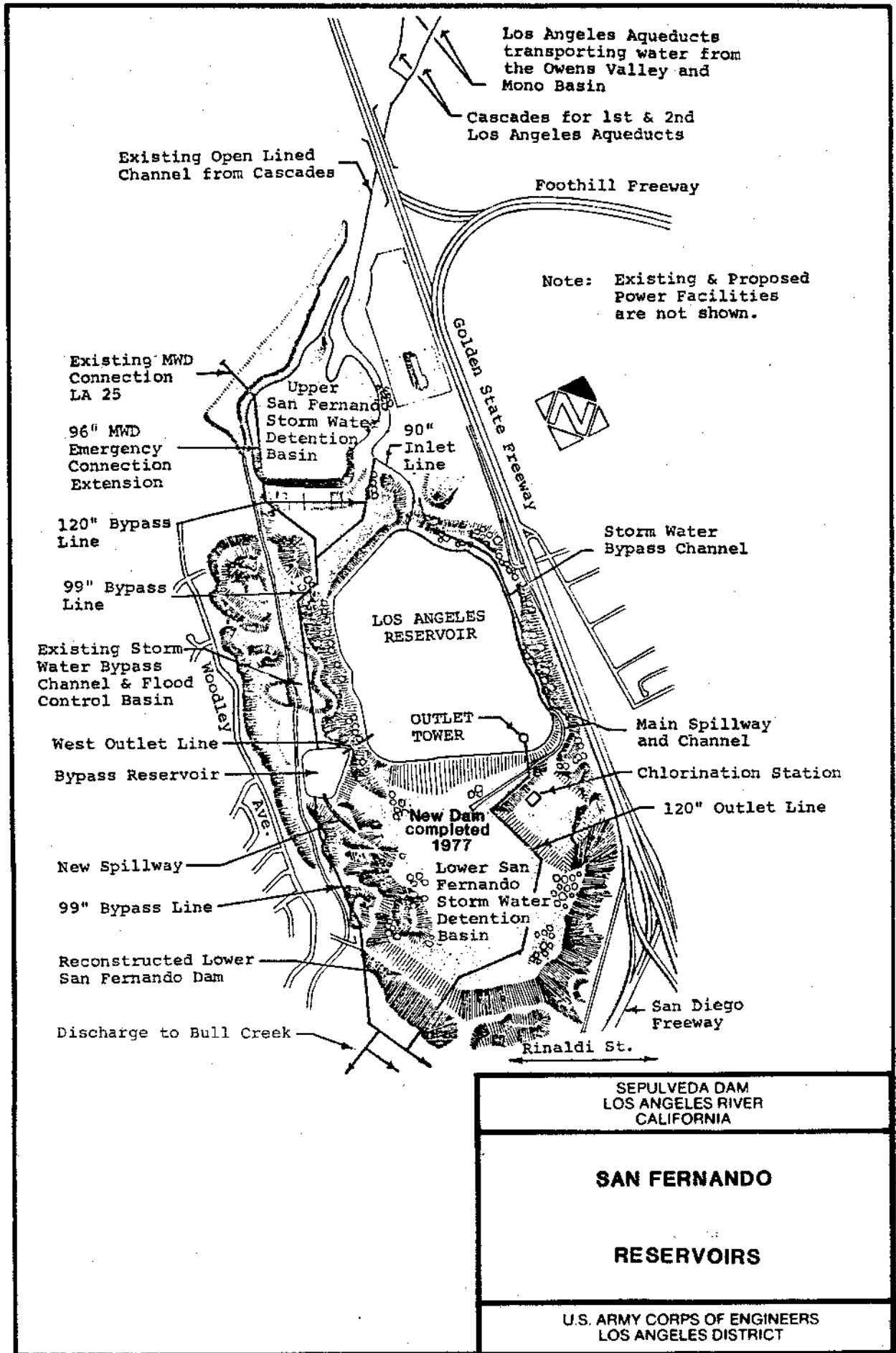
U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

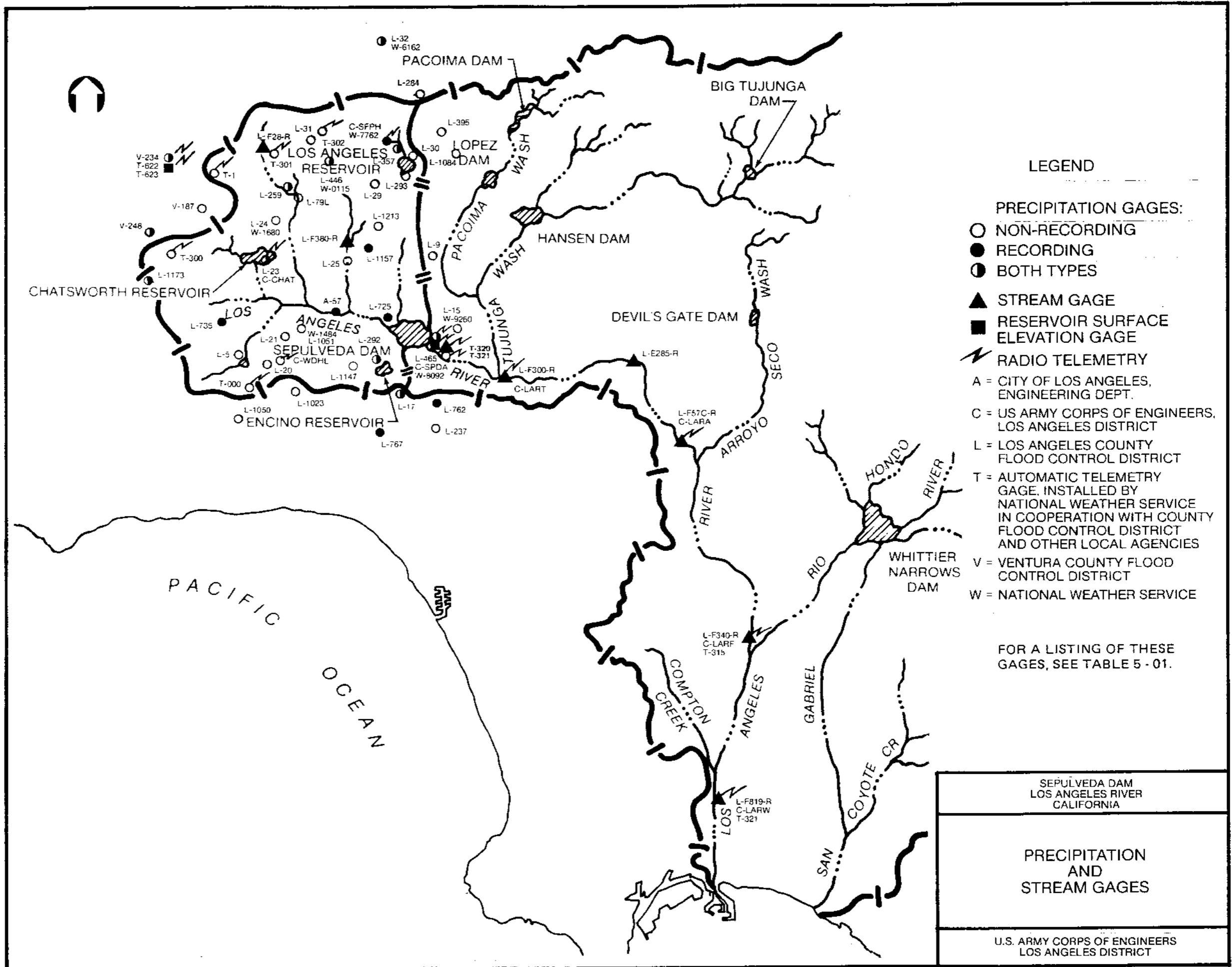


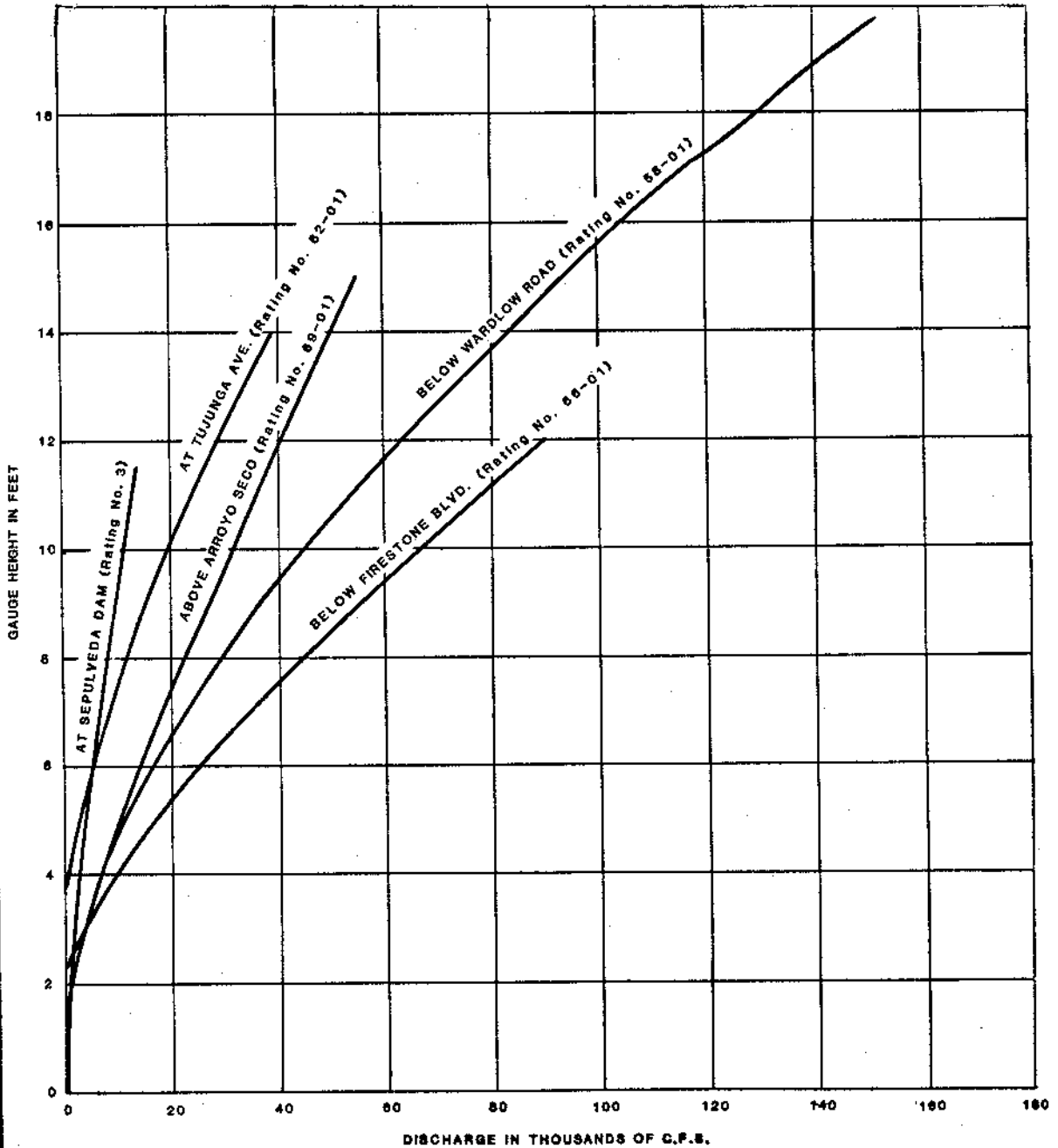
**NOTES:**

1. HORIZONTAL SCALES INDICATE MILES
2. VERTICAL SCALES INDICATE FEET (NGVD)

<p><b>LOS ANGELES COUNTY DRAINAGE AREA (REVIEW) CALIFORNIA</b></p>
<p><b>LOS ANGELES RIVER &amp; MAJOR TRIBUTARIES STREAMBED PROFILES</b></p>
<p><b>U.S. ARMY ENGINEERING DISTRICT LOS ANGELES, CORPS OF ENGINEERS</b></p>



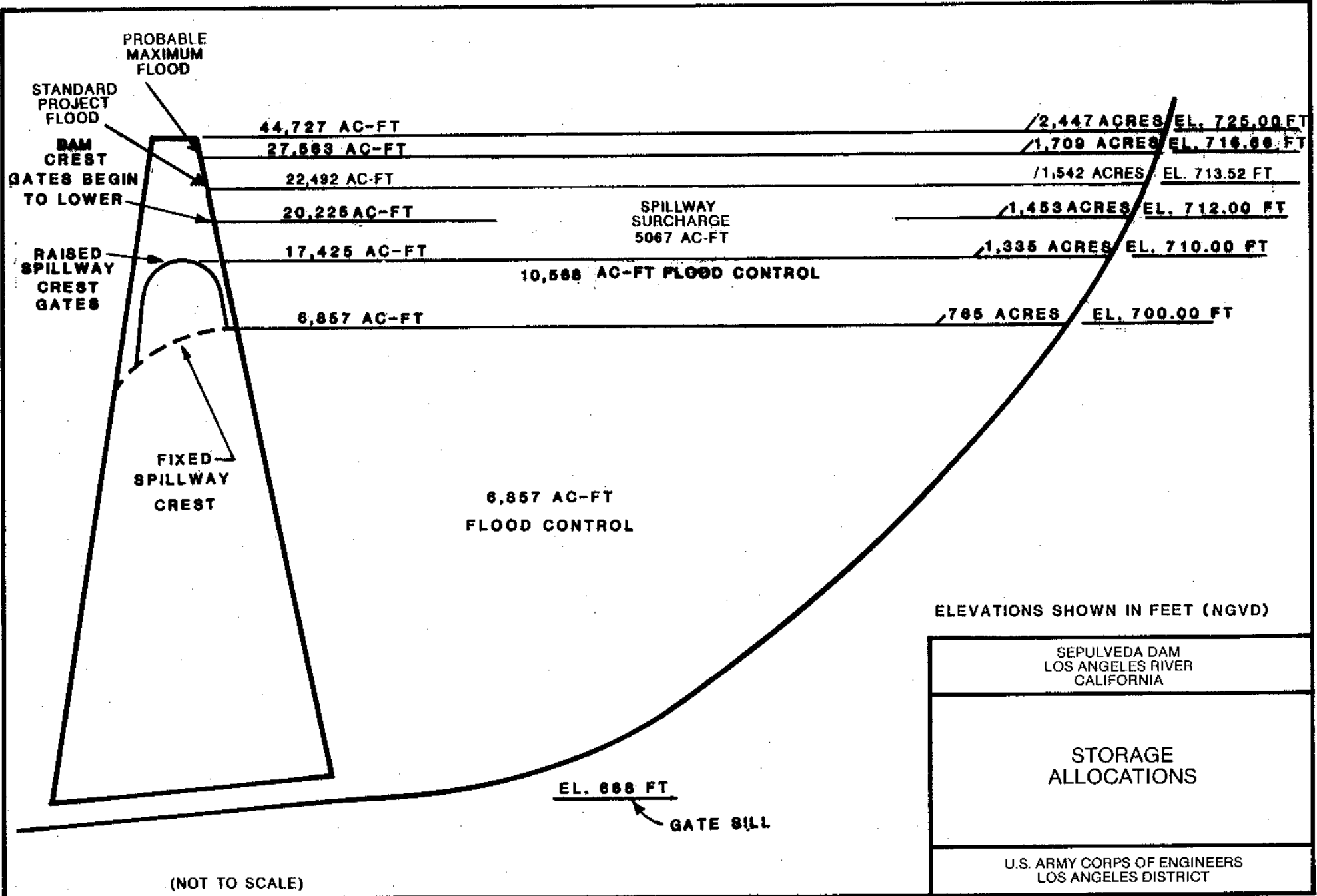




**SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA**

**RATING CURVES FOR  
STREAM GAUGES  
ON THE LOS ANGELES RIVER**

U. S. ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED:



Sepulveda Dam Reservoir Regulation Schedule  
(for rising and falling stages)

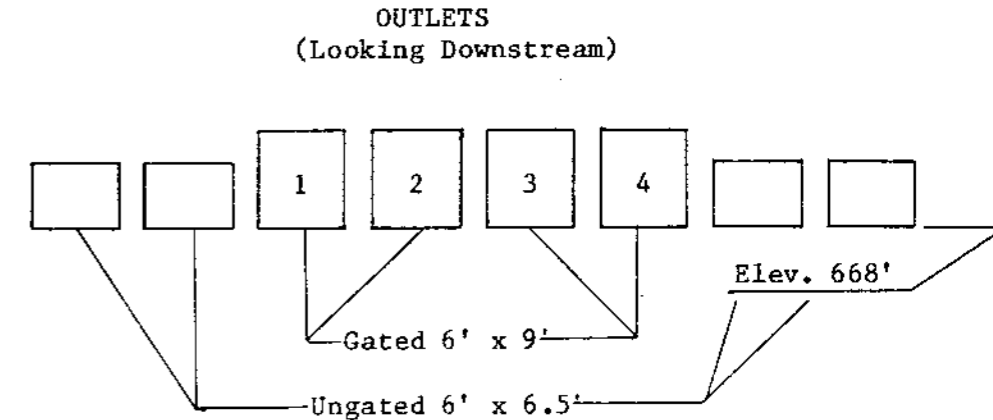
Step No	When reservoir water surface is between elevation	Gate setting for gates as indicated				Computed discharge*	Downstream gage height
		No. 1	No. 2	No. 3	No. 4		
	Feet, NGVD	Feet of opening	Feet of opening	Feet of opening	Feet of opening	Cubic feet per second	Feet
1....	668.0 & 710.2	9.0	9.0	9.0	9.0	0 to 16,780	0 - 13.61
2....	710.2 & 710.7	7.6	9.0	9.0	7.6	15,770 to 16,550	13.14 - 13.48
3....	710.7 & 711.3	7.6	7.6	7.6	7.6	15,530 to 16,830	13.04 - 13.66
4....	711.3 & 711.6	6.0	7.6	7.6	6.0	15,870 to 16,760	13.18 - 13.60
5....	711.6 & 712.0**	6.0	5.7	5.7	6.0	15,680 to 16,890	13.09 - 13.67
6....	712.0 & 712.2	0.0	4.5	4.5	0.0	13,420 to 16,620	11.95 - 13.52
7....	Above 712.2	0.0	0.0	0.0	0.0	14,400+	12.45

\*Includes discharge of ungated outlets. Crest gates in action above elevation 710.0 feet, NGVD (National Geodetic Vertical Datum).

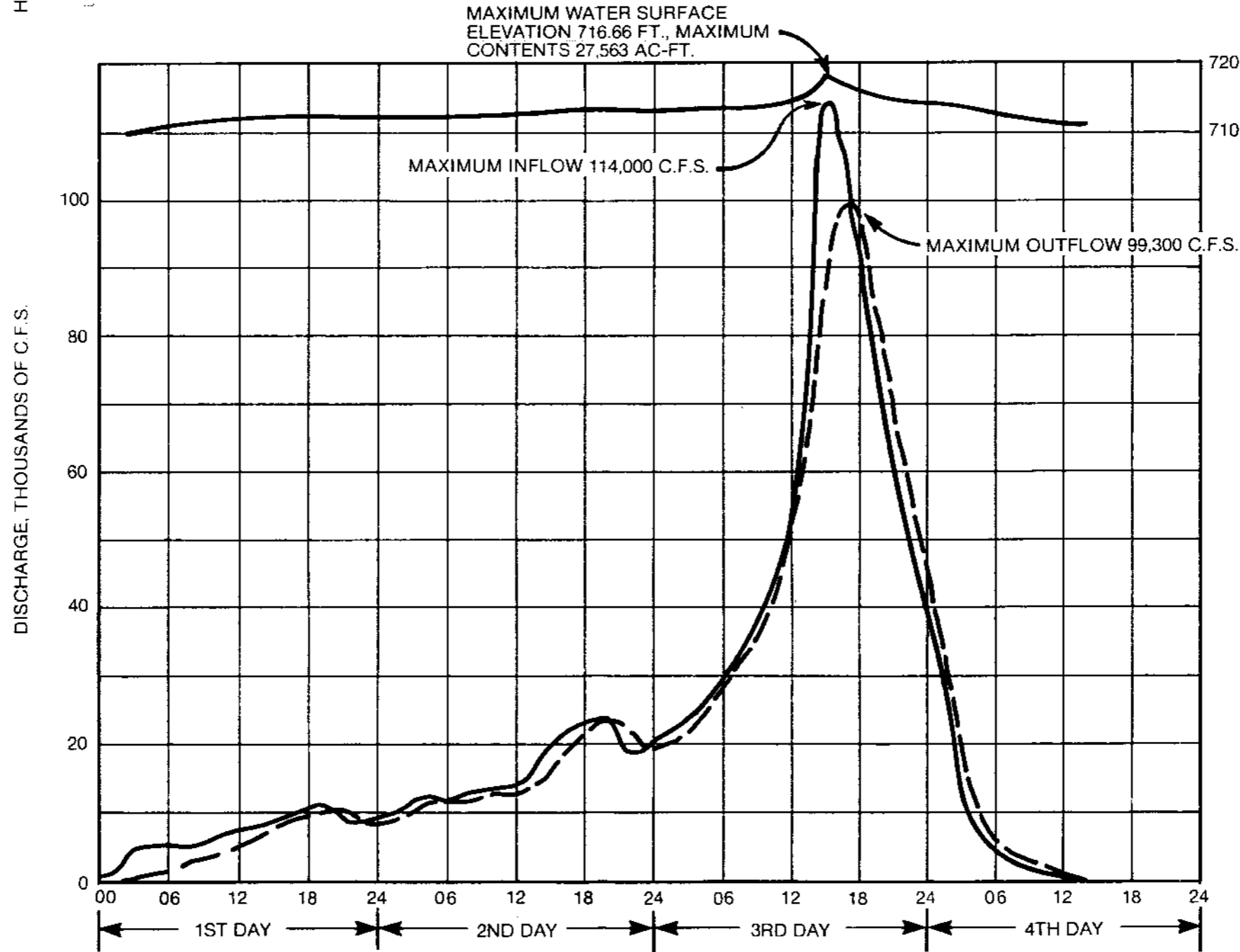
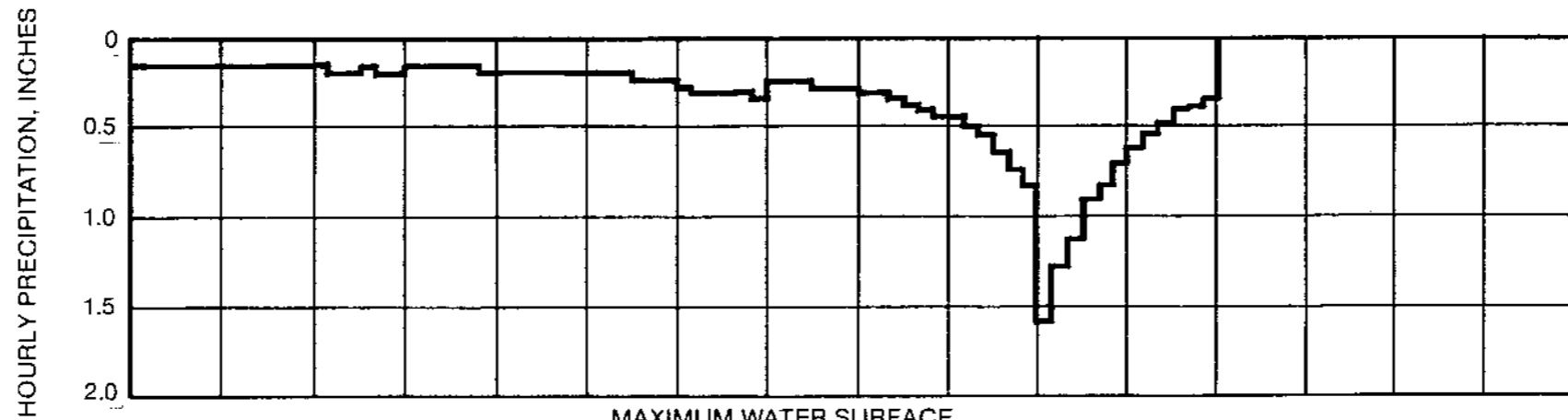
\*\*At elevation 712.0 feet, NGVD, crest gates automatically begin to lower.  
At elevation 715.0 feet, NGVD, crest gates are completely lowered.

DAM OPERATOR INSTRUCTIONS

1. Communication with the District Office is available.
  - a. Notify the Reservoir Operations Center when a gate change will be required according to the schedule.
  - b. Notify the Reservoir Operations Center if unable to set the gates as instructed.
2. Communication with the District Office is not available.
  - a. Try to reestablish communications through the Los Angeles County Department of Public Works (WUK 4470).
  - b. (i) Rising Stages. Allow a period of one half hour to pass to reestablish communication with the District Office. If after one half hour communication is not reestablished follow the gate operation schedule.  
  
(ii) Falling Stages. Maintain current downstream gage height until communication is reestablished.
  - c. If one of the gates cannot be operated, adjust the remaining gates gradually until the downstream gage height agrees with scheduled values. Keep a close check on gage height and change the gate openings as often as required. If the downstream gage height is not obtainable, adjust the gates that are functioning so that the gate openings are equal to the sum of the openings shown in the schedule.



<b>SEPULVEDA DAM</b> <b>LOS ANGELES RIVER</b> <b>CALIFORNIA</b>
<b>RESERVOIR REGULATION</b> <b>SCHEDULE</b>
<b>U. S. ARMY ENGINEER DISTRICT</b> <b>LOS ANGELES, CORPS OF ENGINEERS</b>

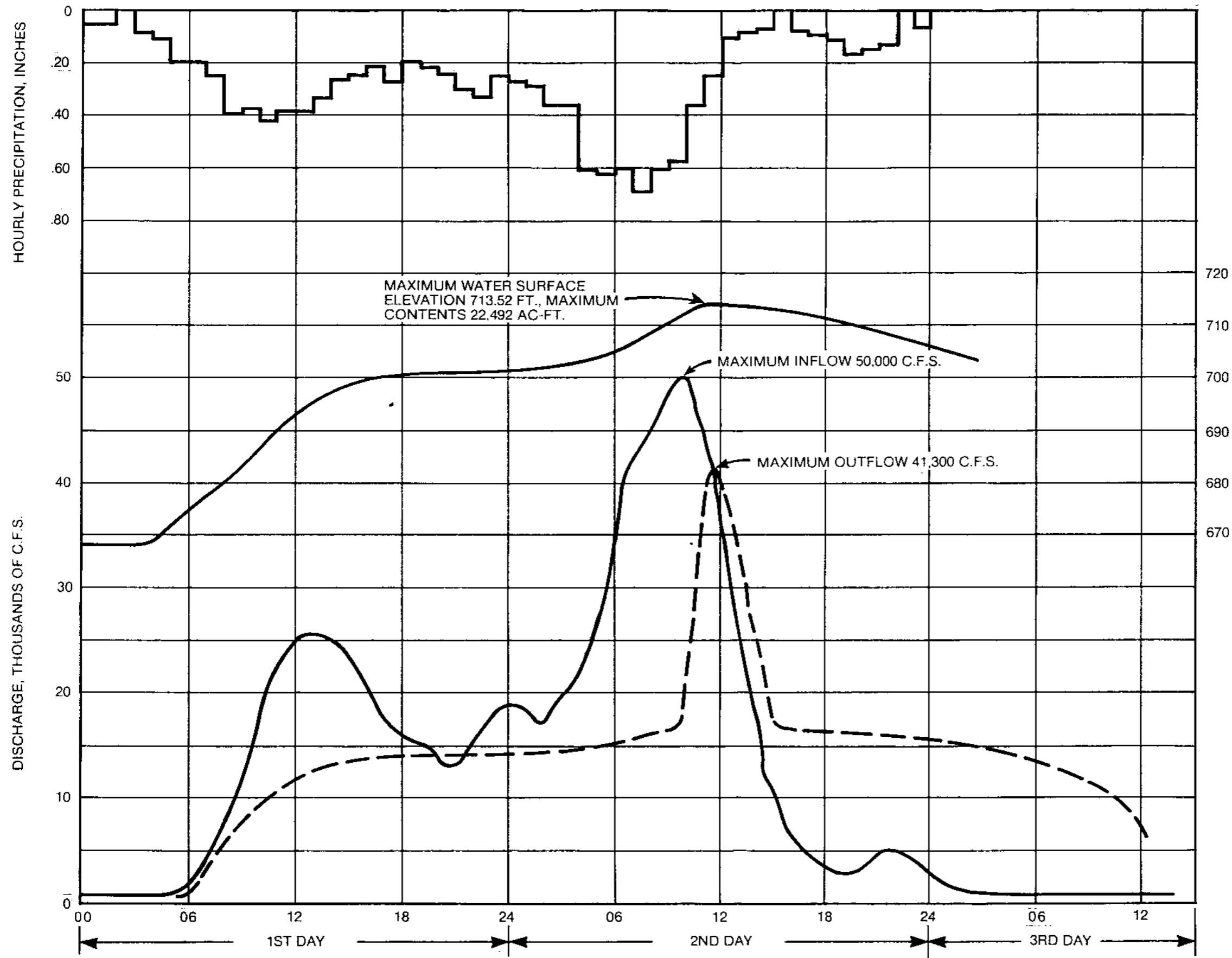


SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

**PROBABLE MAXIMUM FLOOD  
ROUTING**

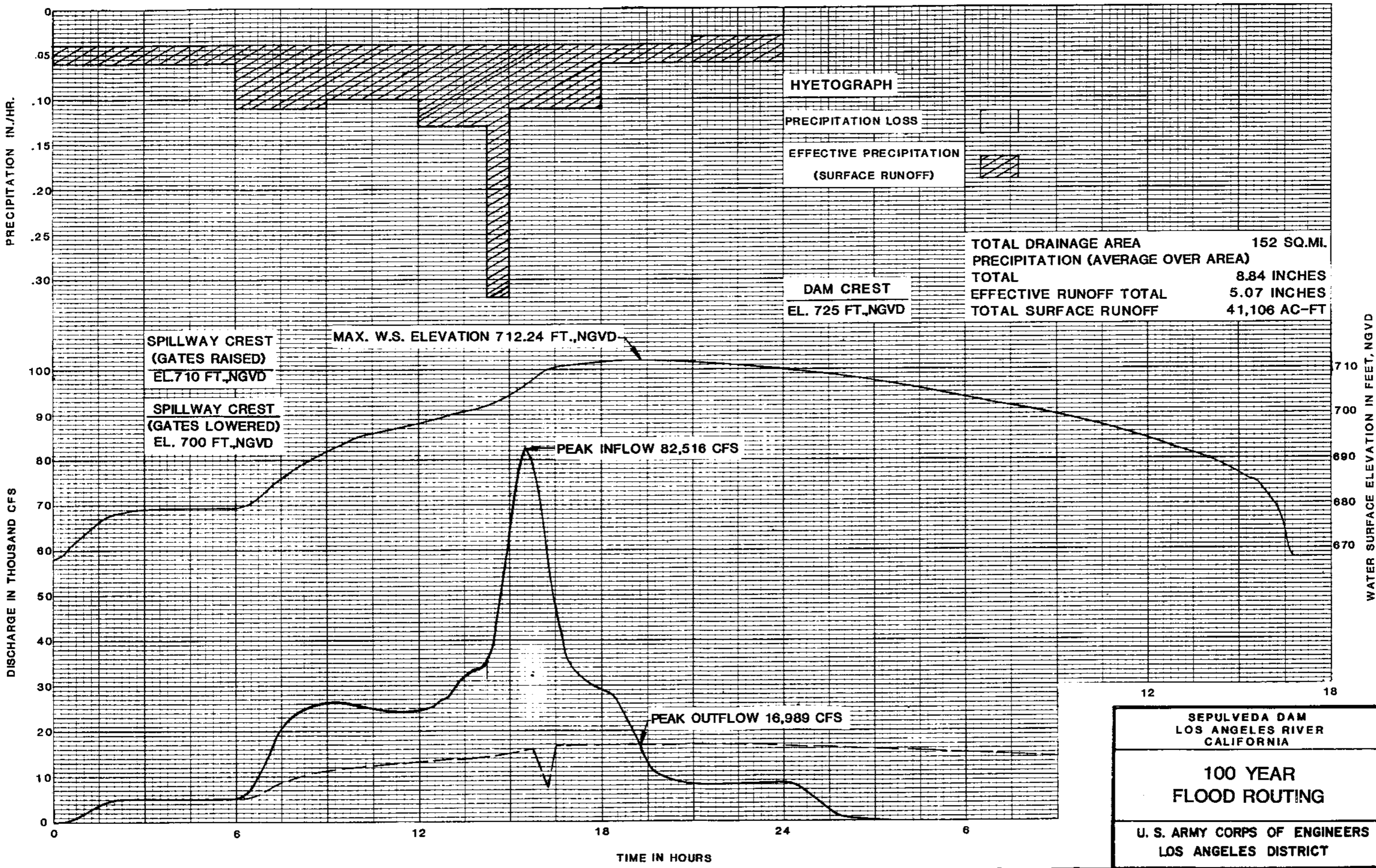
U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT





RESERVOIR WATER SURFACE ELEVATION, FT. (NGVD)

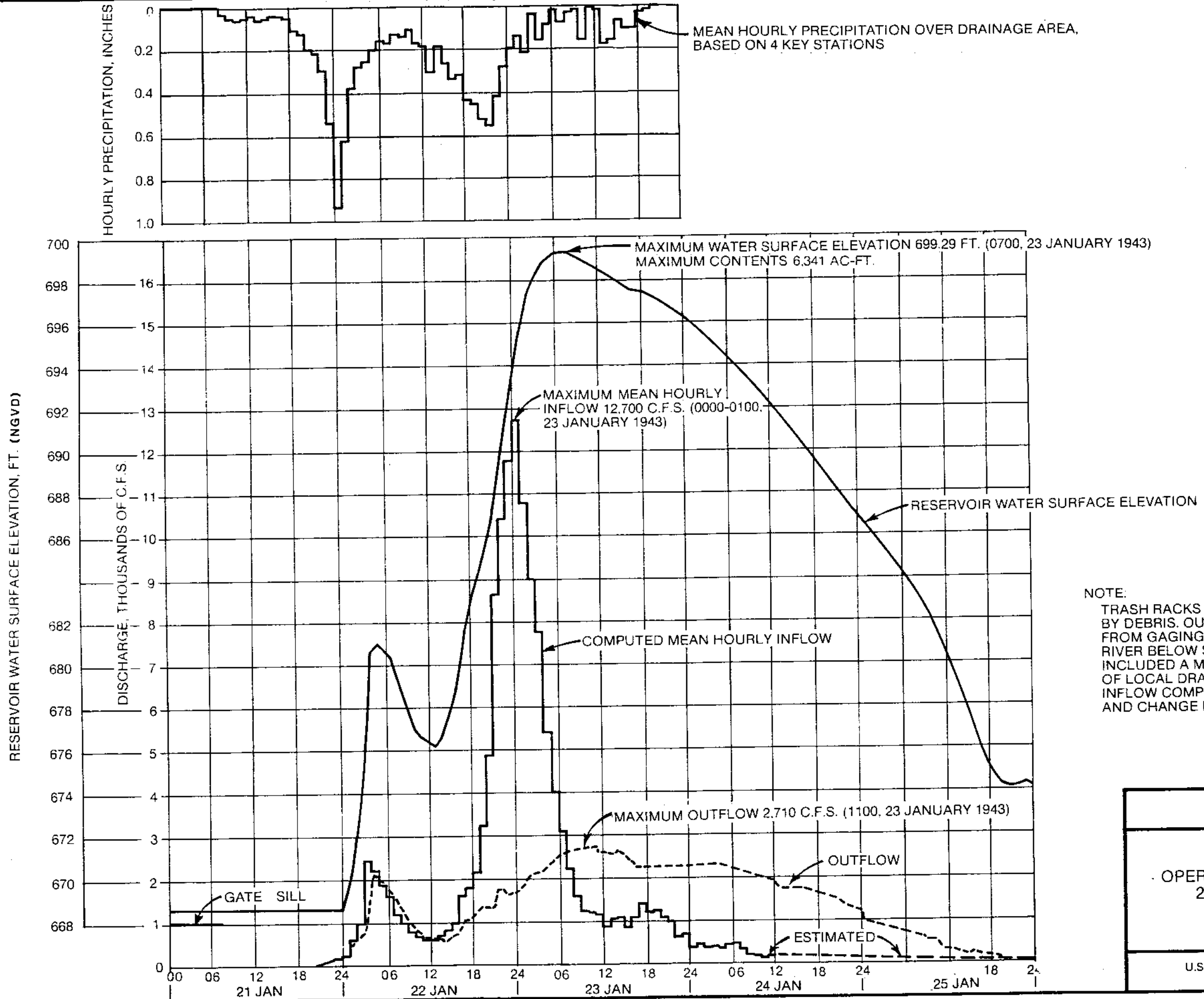
SEPULVEDA DAM LOS ANGELES RIVER CALIFORNIA
STANDARD PROJECT FLOOD ROUTING
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT



SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

100 YEAR  
FLOOD ROUTING

U. S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

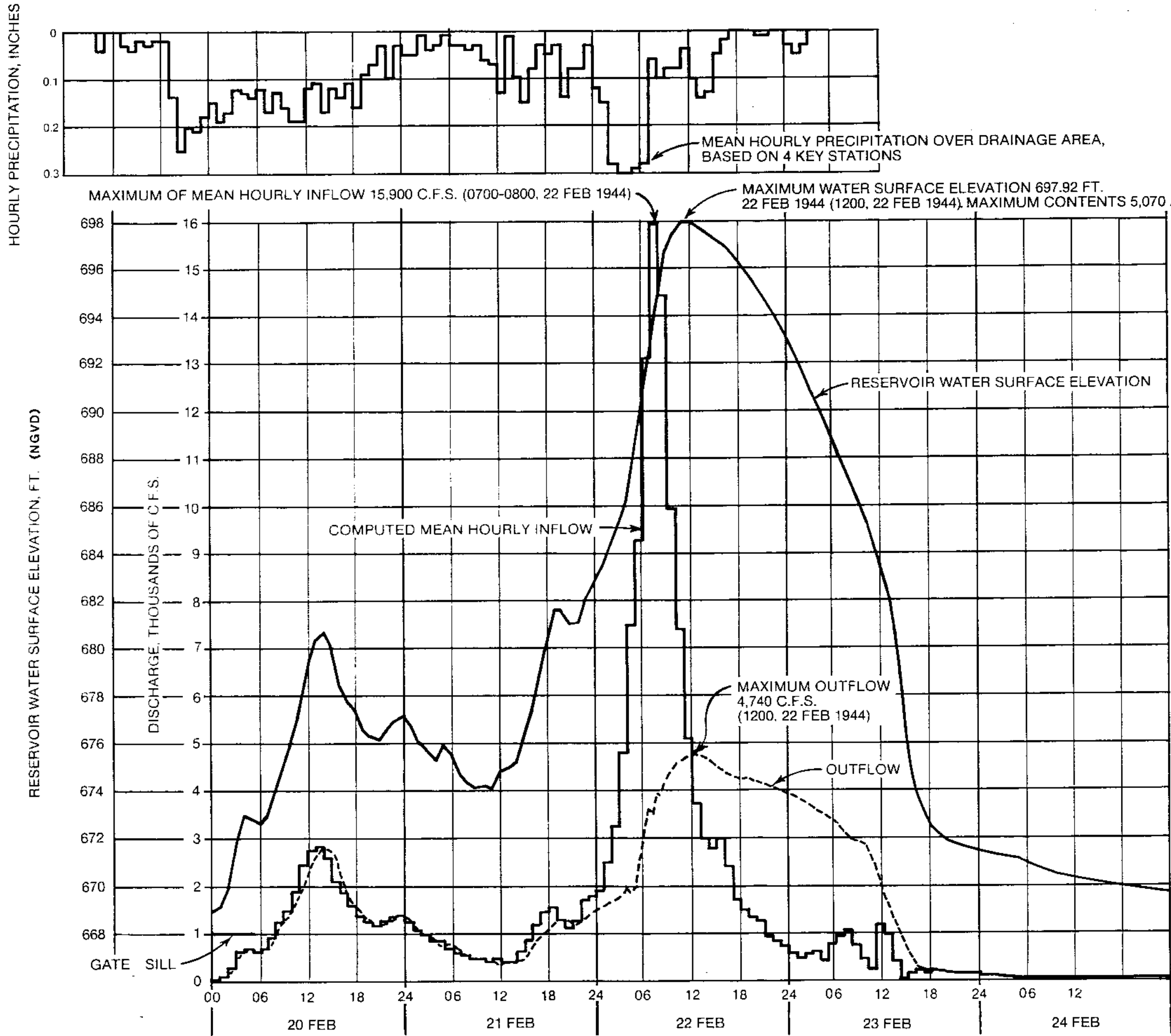


NOTE:  
 TRASH RACKS WERE PARTIALLY BLOCKED BY DEBRIS. OUTFLOW WAS DETERMINED FROM GAGING STATION ON LOS ANGELES RIVER BELOW SEPULVEDA BLVD WHICH INCLUDED A MAXIMUM OF SOME 100 C.F.S. OF LOCAL DRAINAGE BELOW THE DAM. INFLOW COMPUTED ON BASIS OF OUTFLOW AND CHANGE IN STORAGE.

SEPULVEDA DAM  
 LOS ANGELES RIVER  
 CALIFORNIA

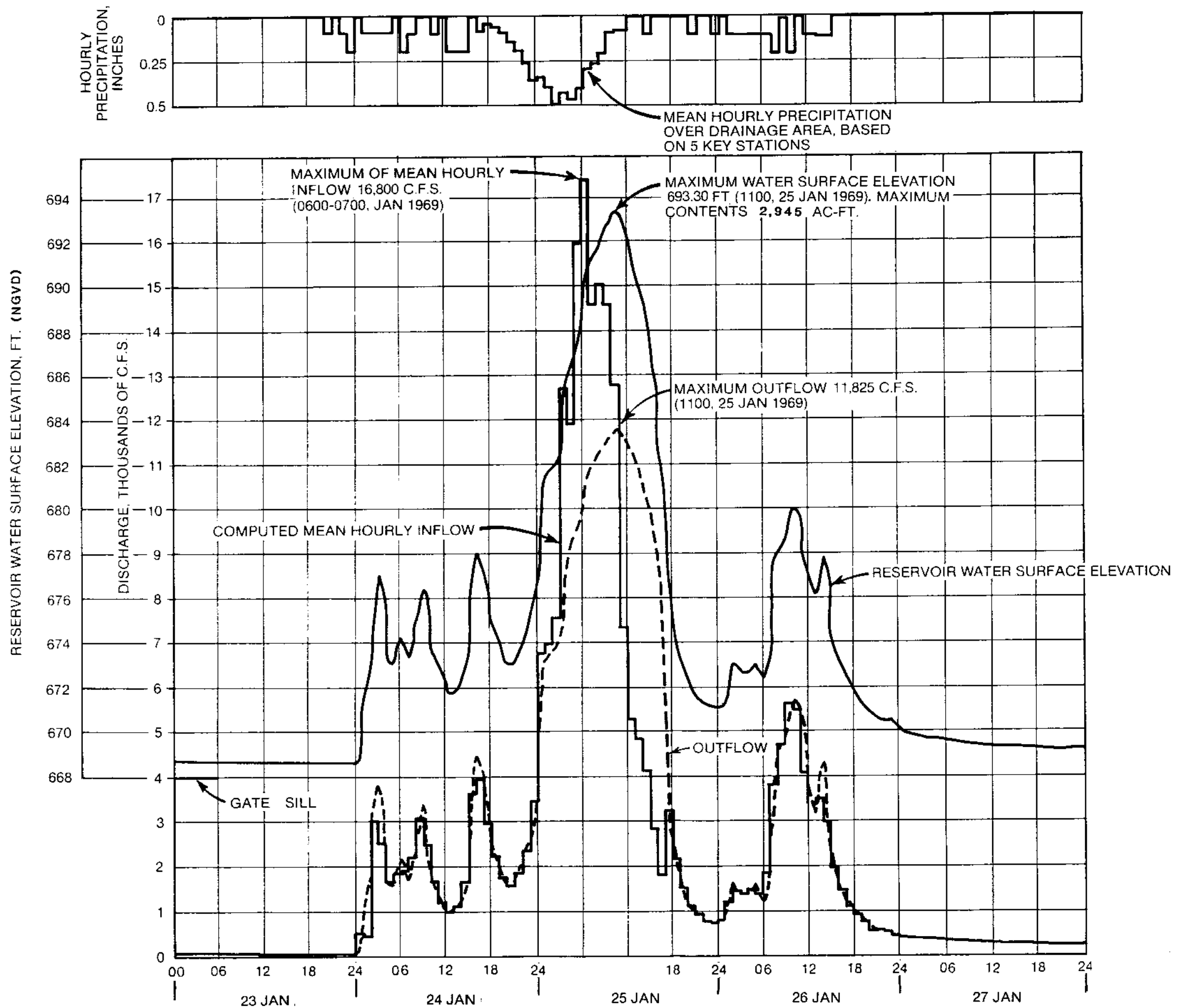
OPERATION HYDROGRAPHS  
 21-25 JANUARY 1943

U.S. ARMY CORPS OF ENGINEERS  
 LOS ANGELES DISTRICT



NOTES:  
 RAINFALL IN SOUTH PORTION OF DRAINAGE AREA OF CLOUDBURST INTENSITY PROBABLY CAUSED PEAK. OUTFLOW AFFECTED BY CLOGGING OF TRASH RACKS

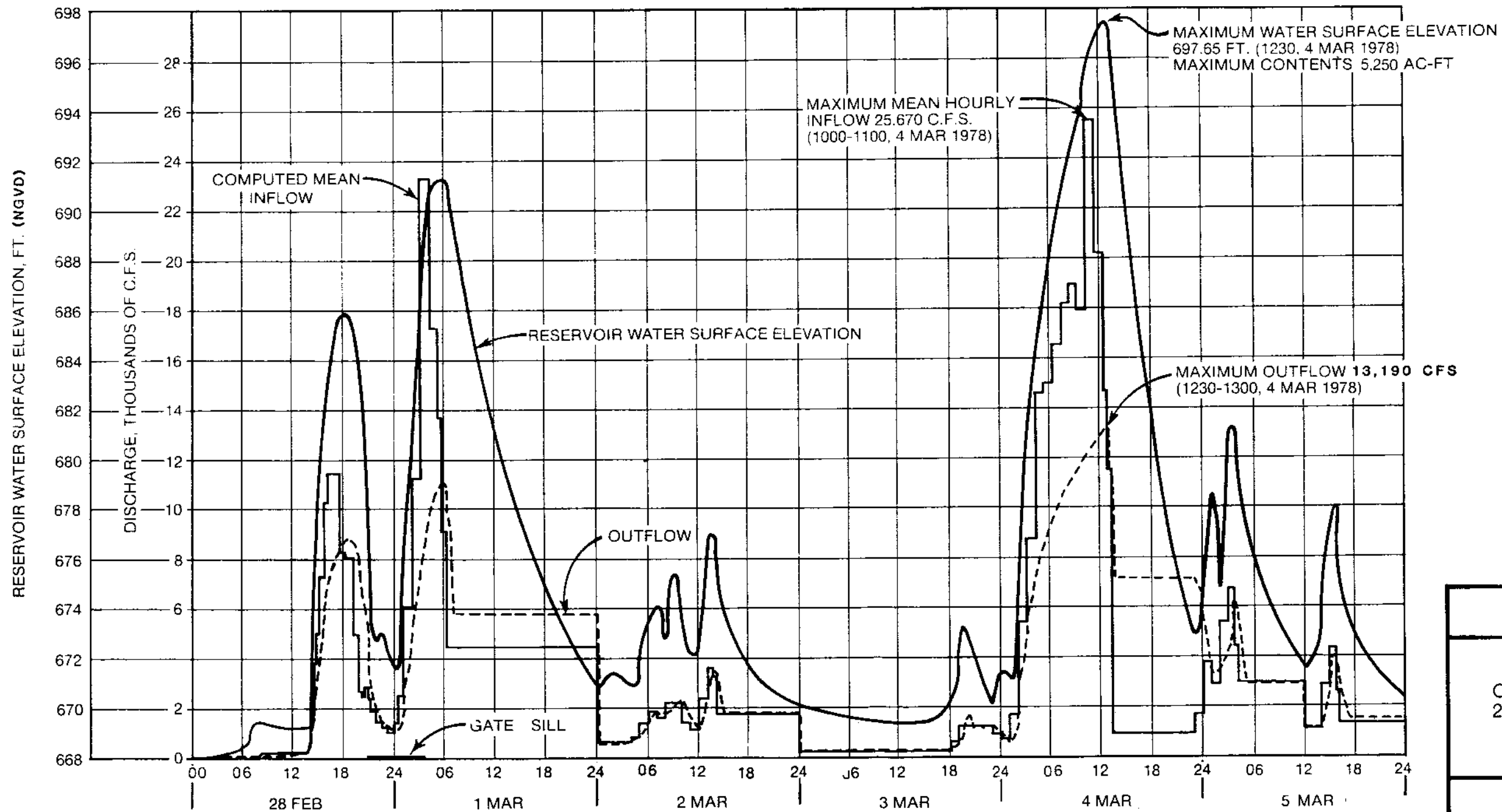
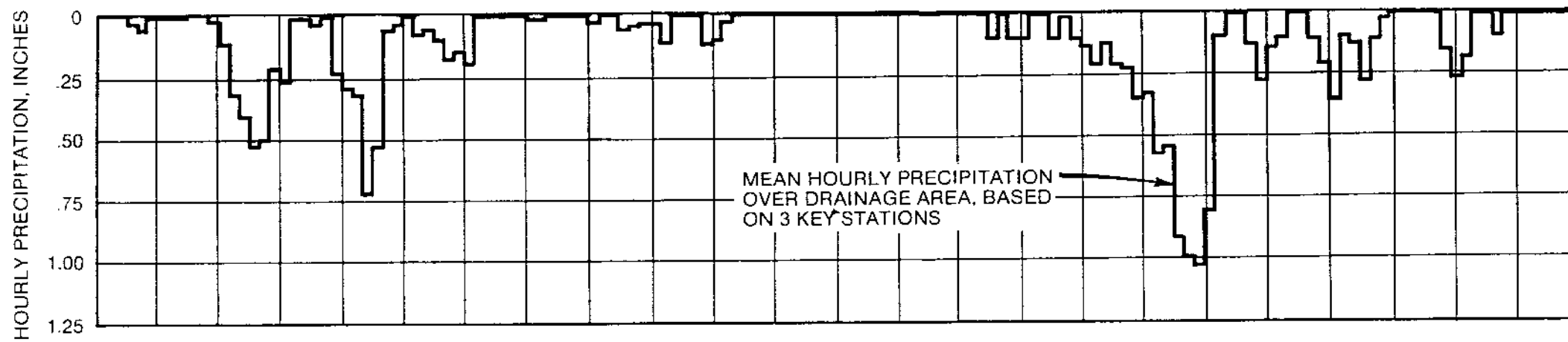
SEPULVEDA DAM LOS ANGELES RIVER CALIFORNIA
OPERATION HYDROGRAPHS 20-24 FEBRUARY 1944
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT



SEPULVEDA DAM  
 LOS ANGELES RIVER  
 CALIFORNIA

OPERATION HYDROGRAPHS  
 23-27 JANUARY 1969

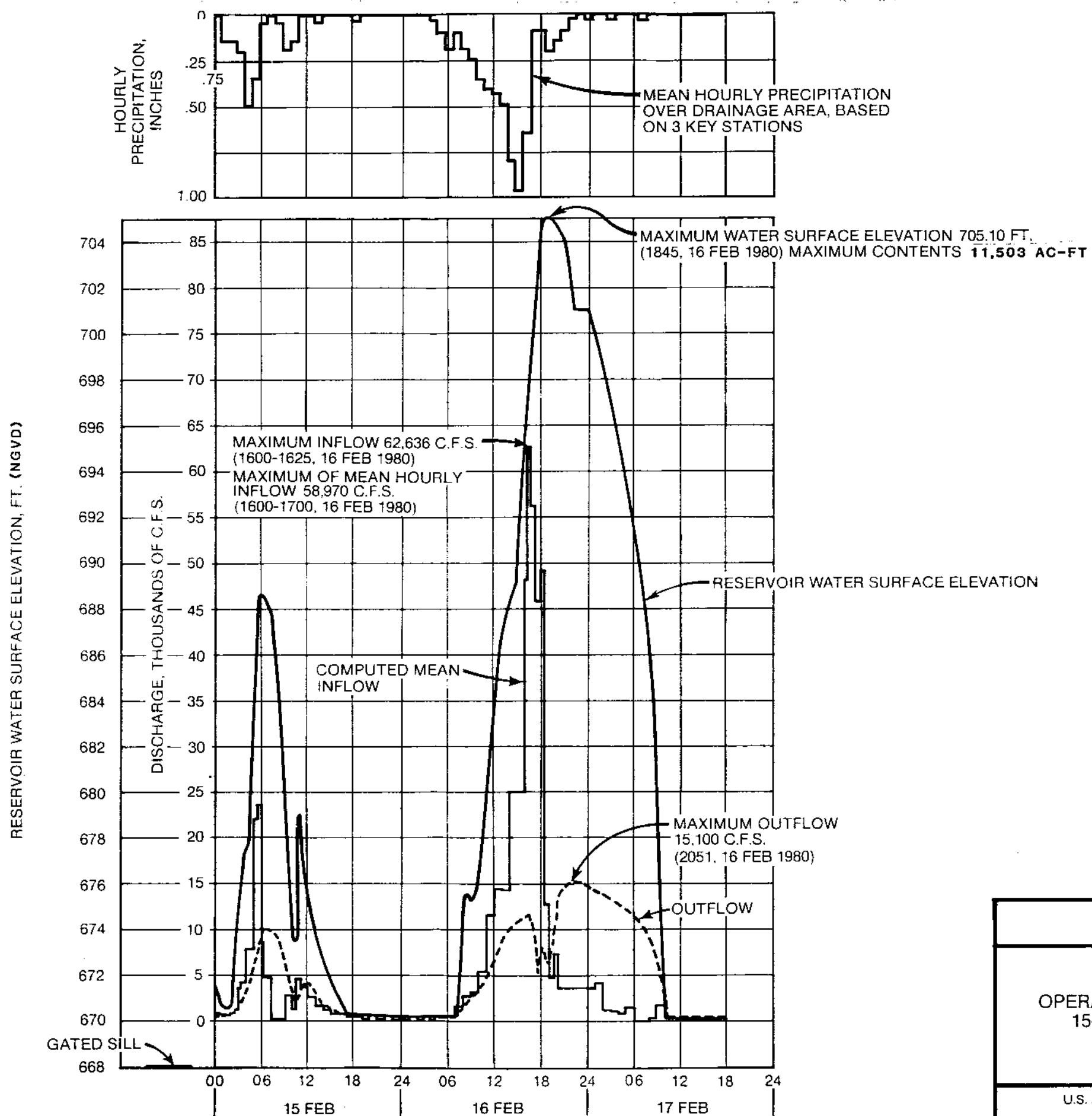
U.S. ARMY CORPS OF ENGINEERS  
 LOS ANGELES DISTRICT



SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

OPERATION HYDROGRAPHS  
28 FEBRUARY-5 MARCH 1978

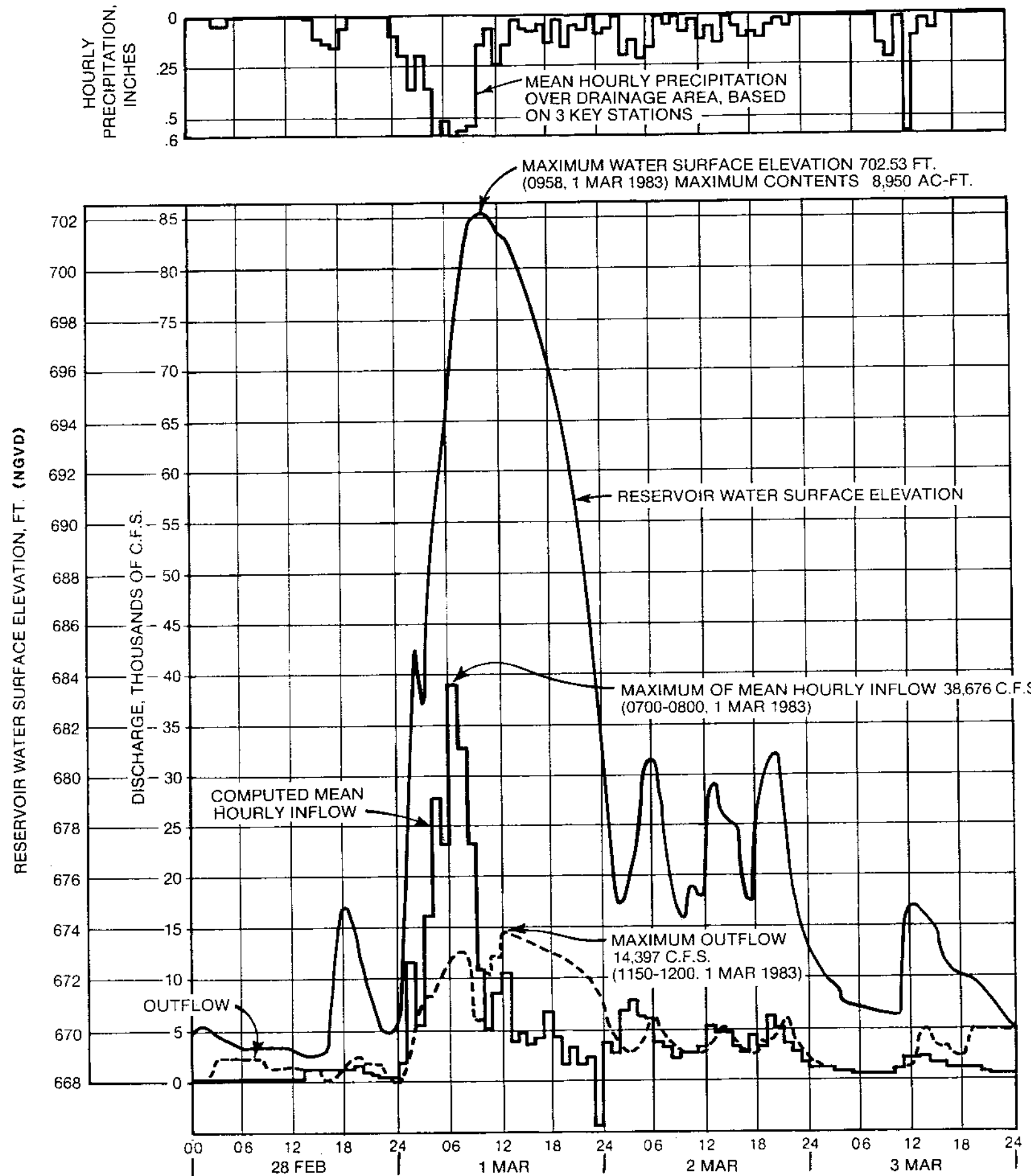
U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT



SEPULVEDA DAM  
 LOS ANGELES RIVER  
 CALIFORNIA

OPERATION HYDROGRAPHS  
 15-17 FEBRUARY 1980

U.S. ARMY CORPS OF ENGINEERS  
 LOS ANGELES DISTRICT

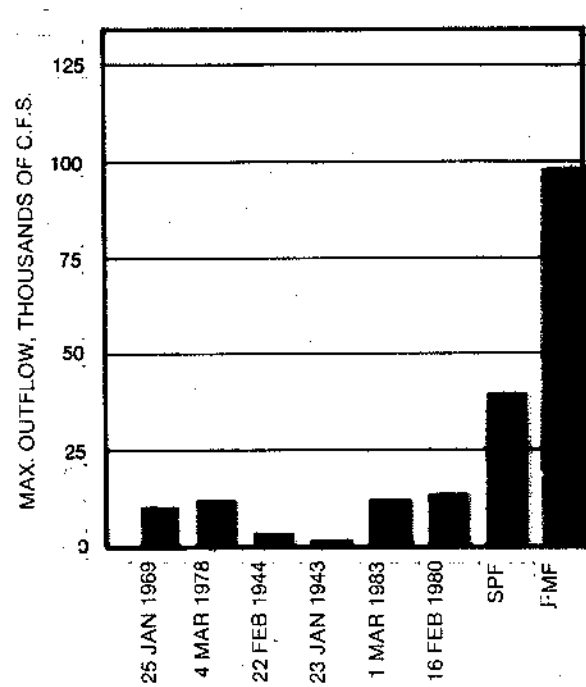
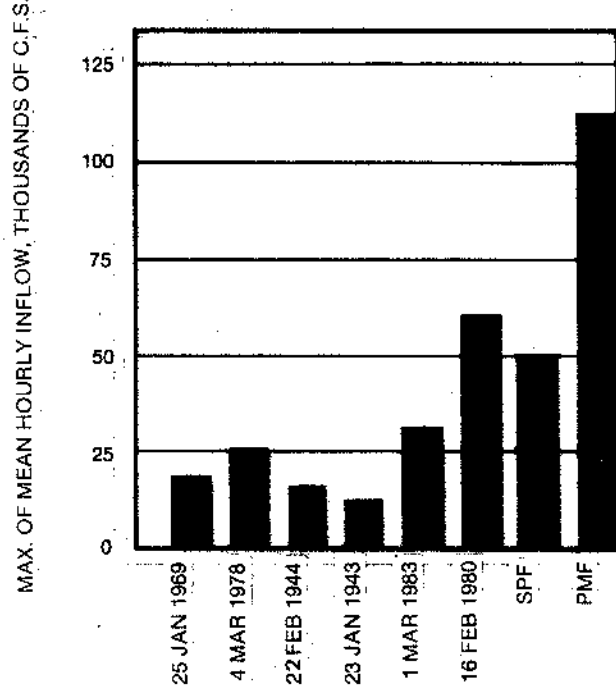
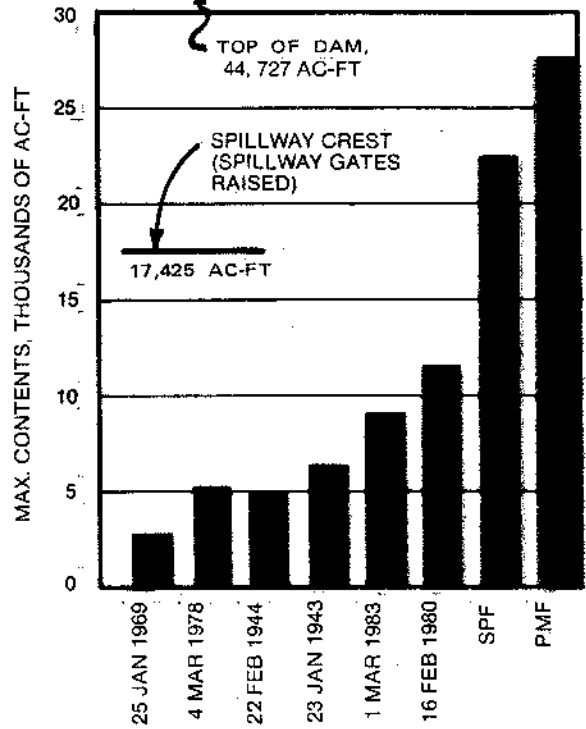
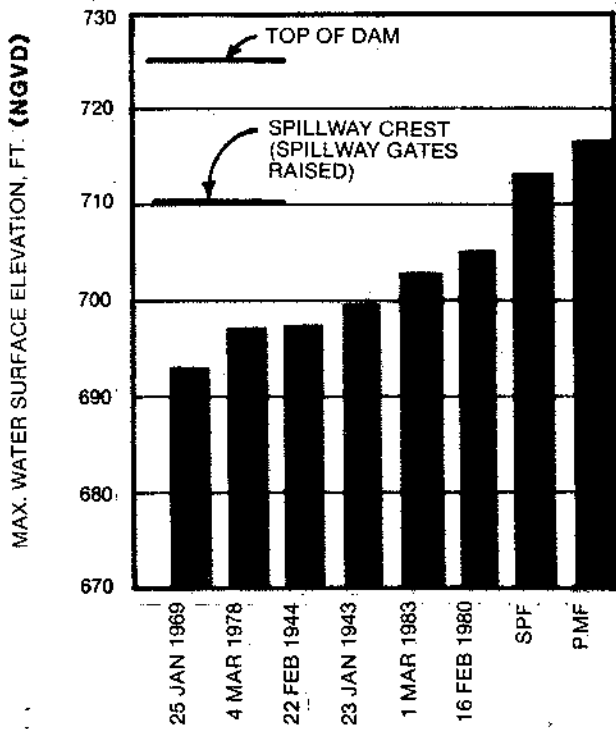


SEPULVEDA DAM  
LOS ANGELES RIVER  
CALIFORNIA

OPERATION HYDROGRAPHS  
28 FEBRUARY - 3 MAR 1983

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT





SPF = STANDARD PROJECT FLOOD  
 PMF = PROBABLE MAXIMUM FLOOD

A listing of each of the values depicted here can be found in Table 8-01 and on Plates 8-01 through 8-08.

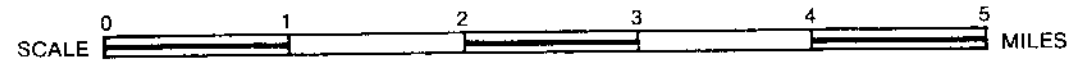
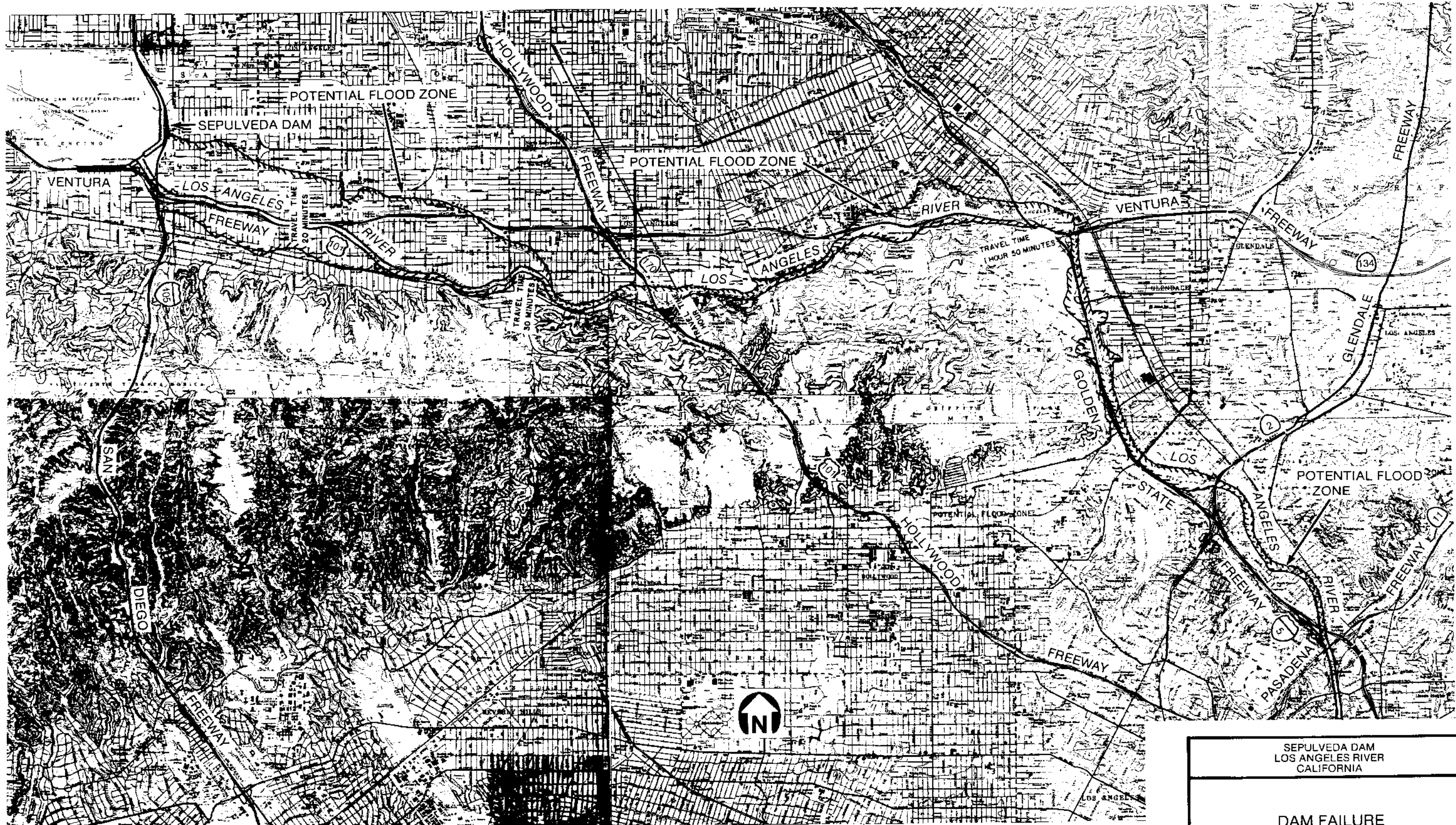
SEPULVEDA DAM  
 LOS ANGELES RIVER  
 CALIFORNIA

---

**COMPARISON OF HISTORICAL  
 FLOODS AND DESIGN FLOODS**

---

U.S. ARMY CORPS OF ENGINEERS  
 LOS ANGELES DISTRICT



<p>SEPULVEDA DAM LOS ANGELES RIVER CALIFORNIA</p>
<p><b>DAM FAILURE INUNDATION MAP</b></p>
<p>U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT</p>