

EXHIBIT C

Pertinent Data, Big Tujunga Dam and Reservoir



<u>Elevation (Feet)</u>	<u>Storage ** (Acre-Feet)</u>	<u>Valve No. 1 (% Open)</u>	<u>Q (cfs)</u>
2213	1450	12	60
2215	1521	25	125
2217	1594	50	250
2219	1670	100	470
2290	5750	100	690
2291	5832	0	400*

\* Spillway flow.

3. As the storm progresses, and inflow rates, weather forecasts, or other conditions suggest that spillway flow may be prevented by an increase in the above release rates, Valves Nos. 2 and 3 will be opened at the discretion of the operations engineer.
4. Drawdown of the reservoir will follow the release schedule described below unless the safety and protection of downstream facilities warrant a temporary reduction or suspension of outflow. Conversely, a forecast of rain may necessitate drawdown releases greater than outlined below.

*see note on Page 1*

B. Falling Reservoir

Drawdown of the reservoir will be accomplished as follows:

1. Valve No. 1 will be operated to limit the outflow to between 300 cfs in larger storms or initial inflow in smaller storms (whichever is less) to accommodate water conservation activities at Hansen Spreading Grounds. The duration for this release is to be for a maximum of 2 days.
2. After 2 days in the 300 cfs discharge mode, the outflow is to be limited to 200 cfs or initial inflow (whichever is less) for the next 30 days in order to draw the reservoir down at a reasonable rate. Any further releases for the following 30 days are to be limited to 150 cfs or inflow following the same rationale.

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The proposed operating plan is based on the following considerations:

For normal storms (most probable storm events), the reservoir water surface will be above elevation 2213 feet for 2 to 5 days at an average elevation of 2234 feet, assuming no follow-up storm. Further, we could expect on the average of once in 10 years to experience an event that, using the proposed operating criteria, would cause the water surface to exceed elevation 2213 feet for a total of about a month with an average water surface elevation of 2222 feet. These types of events would produce spillway flow.

\*\* Storage figures from table dated 4/5/83

Mr. Nagami  
Page 3  
August 17, 1983

Channel Restrictions

Flows in excess of 600 cfs begin to flood the Oro Vista Street crossing of Big Tujunga Wash impeding access to residents of Ebey and Doane Canyons. Since the discharge of the No. 1 valve is 470 cfs when first fully opened, the road should remain passable during most smaller storms. However, as the reservoir water surface elevation builds and flows from local drainage areas increase, the access could temporarily be lost.

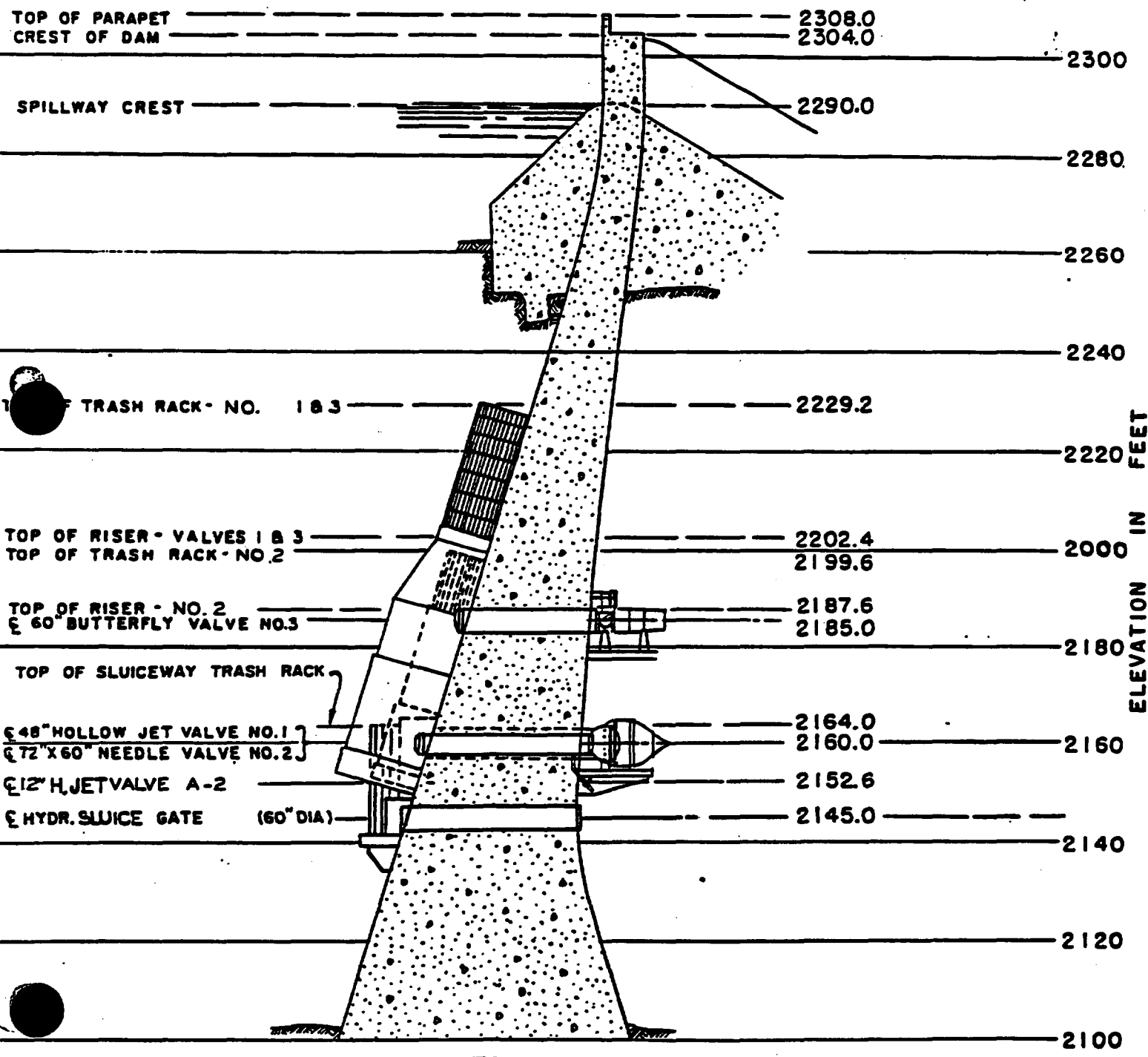
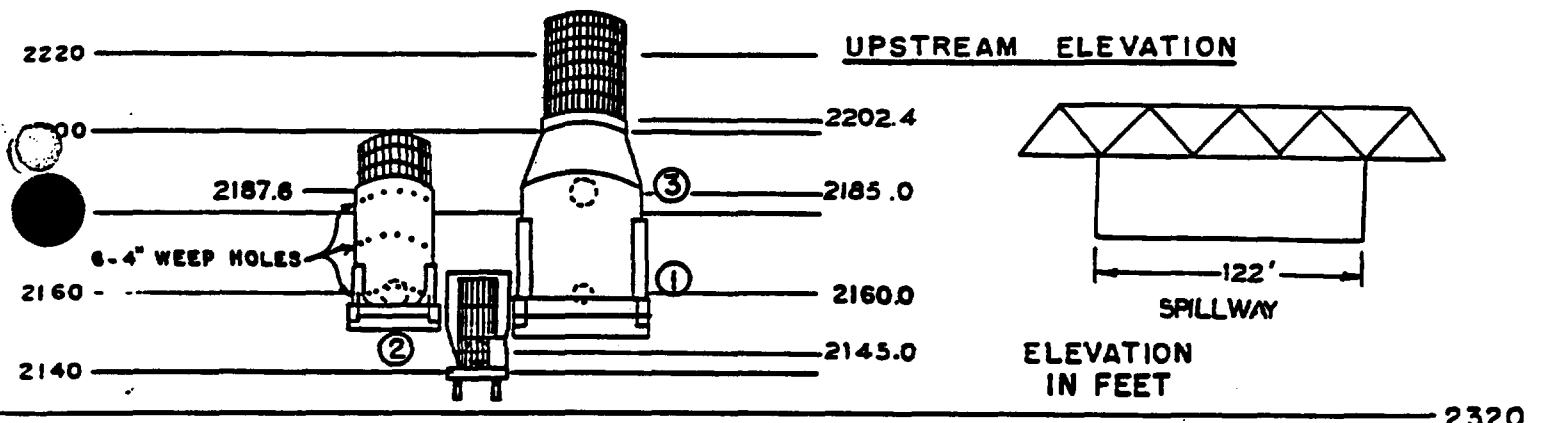
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AMB:eg

Attach.

cc: Operation and Maintenance  
Program Management  
Hydraulic (2) (Operations, Files) ✓  
Water Conservation (2) (Erhard, Division)  
General Files



**BIG TUJUNGA DAM**

X

Department of Public Works

FLOOD CONTROL DAM

DATA SHEET

GENERAL

NAME	- BIG TIJUNGA DAM	BOND ISSUE - 1924
LOCATION	- BIG TIJUNGA CANYON 10 MI. N.E. OF SUNLAND	DRAINAGE AREA - 82.3 SQ. MI. FROM
STREAM	- BIG TIJUNGA CREEK	ELEV. 2290 FT. TO ELEV. 7078 FT.
PURPOSE	- FLOOD CONTROL AND CONSERVATION	ABOVE MEAN SEA LEVEL
TYPE	- CONCRETE VARIABLE RADIUS ARCH	

CONSTRUCTION

BEGAN - JANUARY 1930		CONSTRUCTED BY L.E. DIXON CO.
COMPLETED - JULY 1931		RESIDENT ENGINEER - E.J. HARRISON
COST -	\$1,166,915.95	DESIGN AND COMPUTATIONS - LACTCO
COST PER A.F. F.C.	156.42	DESIGN DIVISION
COST PER A.F. F.C. CONSERV.	187.01	
COSTS BASED ON ORIGINAL SURVEY DATA		

DIMENSIONS

EXCAVATION AND FILL AS CONSTRUCTED

CREST HT. ABOVE ORIG. STREAMBED	200.0 FT.	TOTAL VOL. OF EXCAVATION	81,318 C.Y.
CREST HT. ABOVE FOUNDATION	251.0 FT.	TOTAL VOL. OF CONCRETE	79,293 C.Y.
CREST LENGTH (LESS SPILLWAY)	505.0 FT.	TOTAL VOL. OF EARTH/FILL	5,574 C.Y.
CREST WIDTH	8.0 FT.	CHARACTER OF FOUNDATION -	GRANITE
HEIGHT OF PARAPET WALL	4.0 FT.		
BASE THICKNESS AT ELEV. 2060 FT.	73.0 FT.		

OUTLETS

NO.	TYPE	SIZE	RISER OR INLET ELEVATION	ELEV. VALVE	MAX. DISCH. AT SPILLWAY ELEV. CFS.
<u>FLOOD OPERATION VALVES</u>					
(4) 1	HOLLOW JET	48"	(1) 2202.4	2160.0	690.
1A	SLIDE GATE (H)	48"	2202.4	2160.0	—
2	NEEDLE VALVE	72"	(1) 2187.6	2160.0	1175.
(3) 2A	BUTTERFLY VALVE	72"	2187.6	2160.0	—
(5) 3	BUTTERFLY VALVE	60"	(1) 2202.4	2185.0	1035
3A	HYD. GATE	62"	2202.4	2185.0	—
<u>SERVICE VALVES</u>					
(6) A2	HOLLOW JET	12"	2187.6	2152.6	38.4
(2) A2A	GATE VALVE	12"	2187.6	2153.1	—
S.C.	SLUICE GATE	6' x 6'	2142.5	2145.0	—

SPILLWAY NO.	TYPE	SILL ELEV.	LENGTH	SPILLWAY ORIGINAL CAP. A.F.	MAX. DISCH. AT ASSUMED H.W.L. CFS
1	OPEN OGRE WEIR	2290.0	122.0	6240.	24,250 CFS

ELEVATIONS

ELEV. (FT.)

ORIGINAL STREAMBED	2104.0
LOWEST EXCAVATION	2053.0
CREST	2304.0
TOP OF PARAPET	2308.0
ASSUMED H.W.L.	2304.0

REMARKS

- (1) SILL OF RISERS CONSTRUCTED JANUARY 1939.
- (2) 12" GATE VALVE INSTALLED OCTOBER 1956. REMEMBERED FROM A2 to A2A DUE TO INSTALLATION OF THE 12" H.J. ON 5/23/73.
- (3) 72" HYD. BUTTERFLY INSTALLED OCTOBER 1956.
- (4) 48" HOLLOW JET VALVE INSTALLED JUNE 1957.
- (5) 60" HYD. BUTTERFLY INSTALLED NOVEMBER 1960.
- (6) 12" HOLLOW JET VALVE INSTALLED 5/23/73 TO REPLACE ORIFICE PLATES. 2289.97 UBGS - 2290.0 SPILLWAY DATUM. SPILLWAY DATUM SHOWN. LATEST STATE APPROVAL MAY 13, 1976. RESTRICTED ELEV. 2213 FT.

REVISED OCTOBER 1984