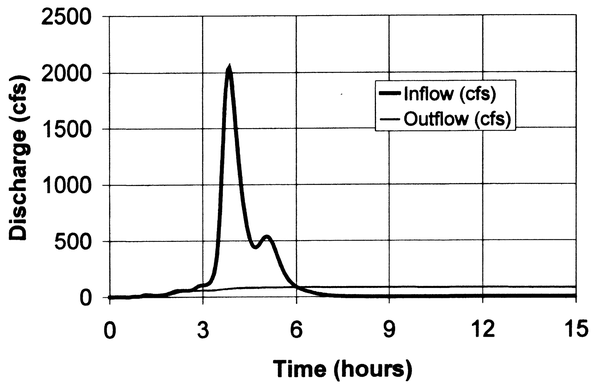
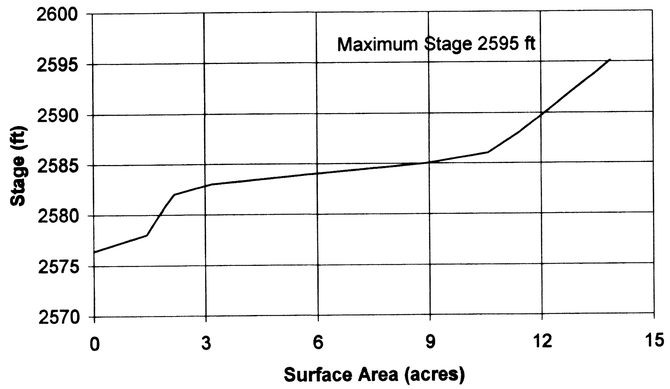
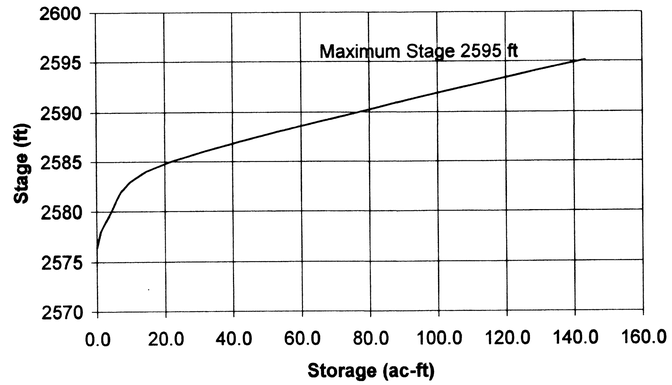
Inflow-Outflow Hydrographs



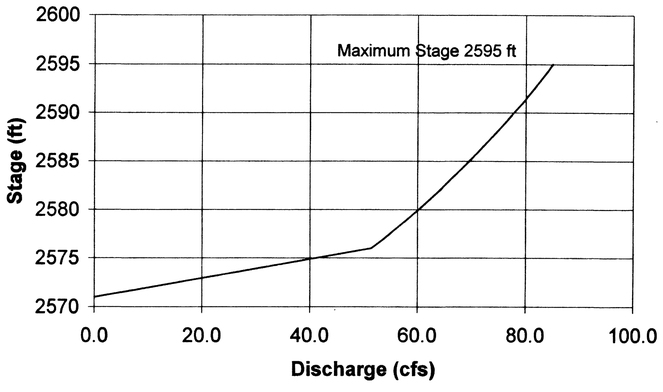
Stage - Surface Area Curve



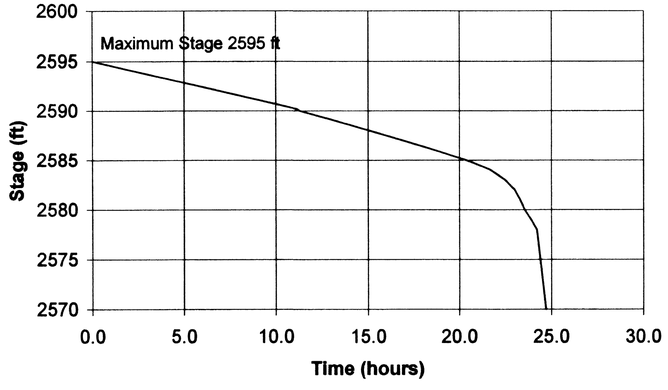
Stage-Storage Curve



Stage-Discharge Curve



Drain Time Curve



DETENTION BASIN CHARACTERISTICS

DRAINAGE AREA	2.6	SQUARE MILES
TYPE OF DETENTION BASIN		BELOW GRADE EXCAVATION
EMERGENCY SPILLWAY		AT GRADE OVERFLOW
AREA DISTURBED BY CONSTRUCTION	31.5	ACRES
100-YEAR PEAK INFLOW	2,050.0	CFS
100-YEAR PEAK OUTFLOW	85.0	CFS
100-YEAR PEAK STORAGE	143.0	ACRE-FEET
100-YEAR WATER SURFACE AREA	13.9	ACRES
DETENTION BASIN CREST ELEVATION	2,596.0	FEET
100-YEAR PEAK STAGE ELEVATION	2,595.0	FEET
DETENTION BASIN INVERT ELEVATION	2,576.4	FEET
100-YEAR PEAK DEPTH	18.6	FEET
OUTLET		36-INCH RCP
INVERT ELEVATION OF OUTLET	2,571.4	FEET
DRAIN TIME TO 50% OF CAPACITY	12.2	HOURS
DRAIN TIME TO 90% OF CAPACITY	21.7	HOURS
10-YEAR WATER SURFACE ELEVATION	2,587.2	FEET
25-YEAR WATER SURFACE ELEVATION	2,590.1	FEET

REVISIONS

REV.	DESCRIPTION	BY	DATE	APPROVAL
	2-8814			

DESIGNED BY: A. SPATA
DRAWN BY: A. SPATA
CHECKED BY: D. DAVIS
DATE: JULY 28, 1999

JOB NO.: 51516
DRAWING NO.: 516-3105
SCALE: HORIZ.: VERT.:

PBSJ
901 North Green Valley Pkwy. Suite 100 Henderson, Nevada 89014 Telephone: 702/263-7275 Fax: 702/263-7200
ENGINEERING · PLANNING · SURVEYING · CONSTRUCTION SERVICES

SEAL: PROFESSIONAL ENGINEER - STATE OF NEVADA - RONALD V. DAVIS - CIVIL - No. 9887 - 7/28/99

CLARK COUNTY NEVADA

Department of Public Works

LAKES DETENTION BASIN & ASSOCIATED COLLECTION FACILITIES - PHASE 3

CAPACITY CURVES & HYDROLOGIC INFORMATION

L-1583

DRAWING NO. 5 / 77

C1.05
731-72