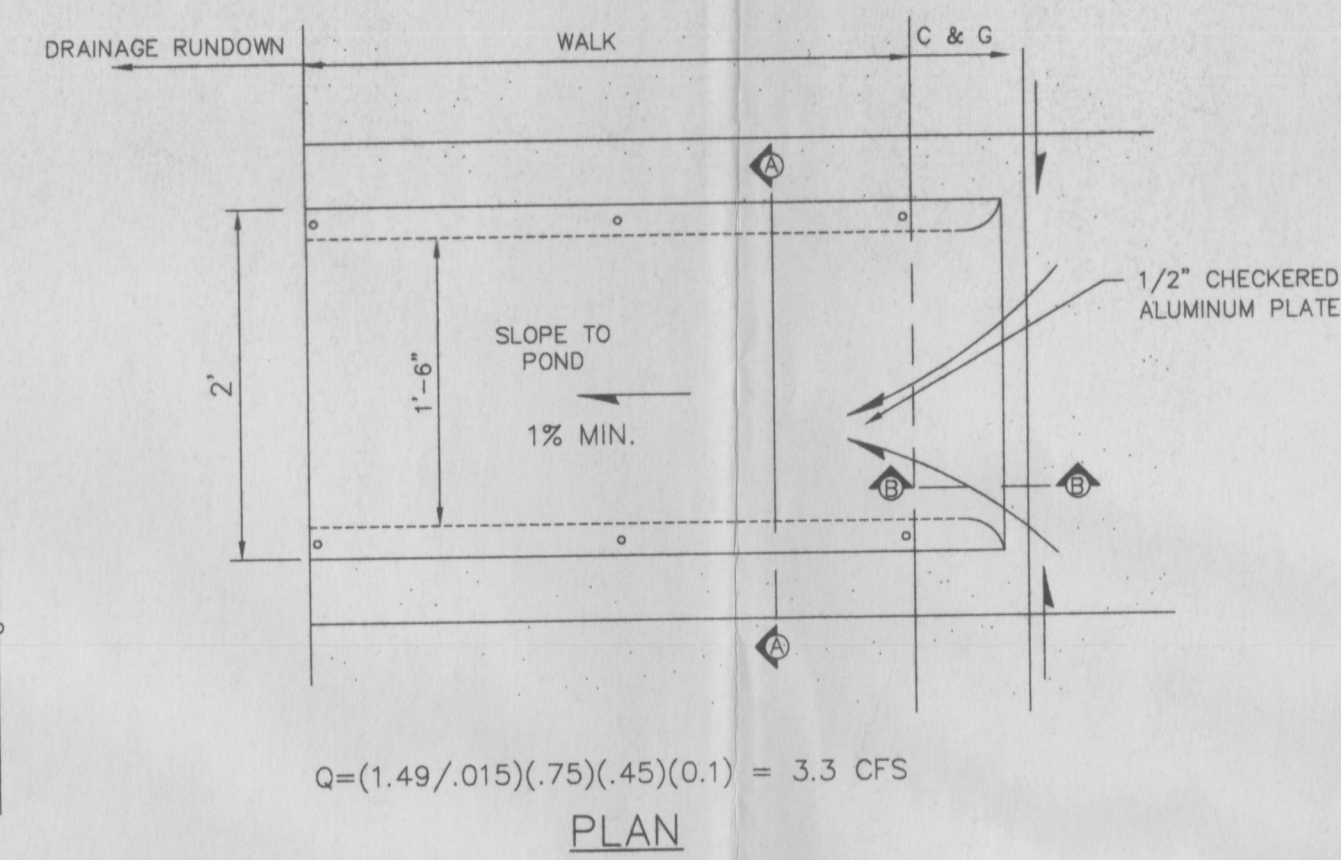
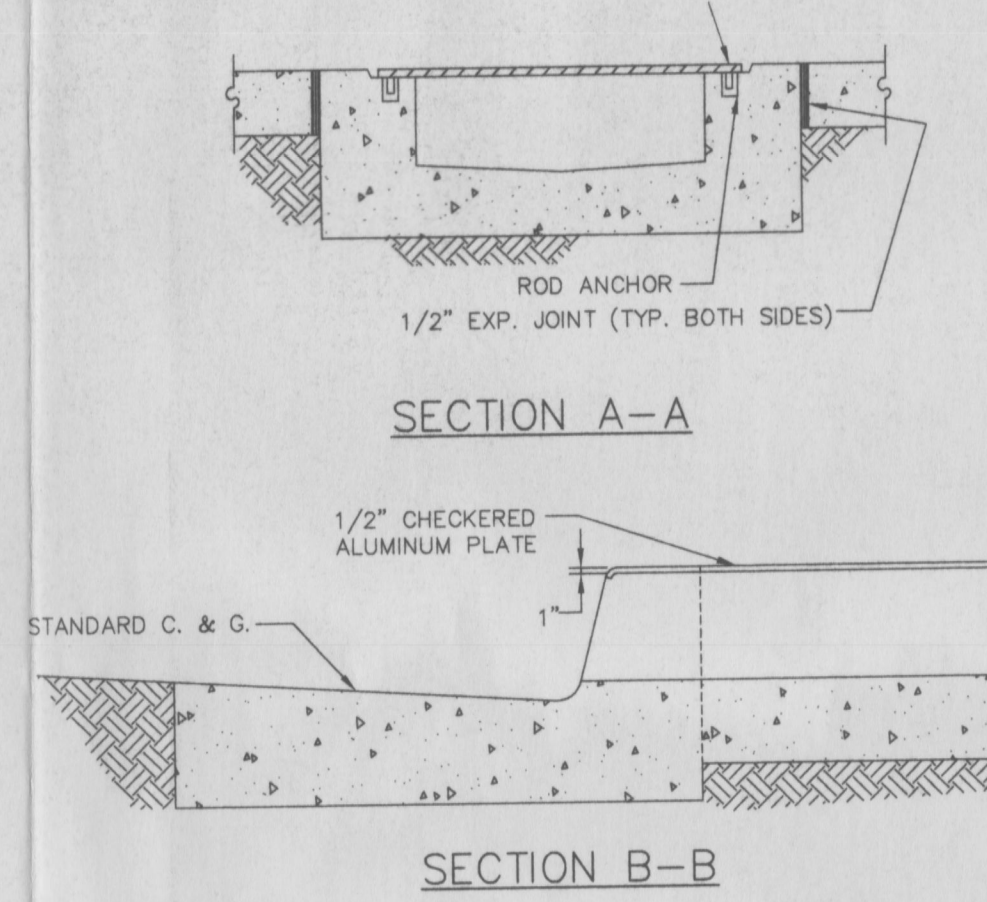
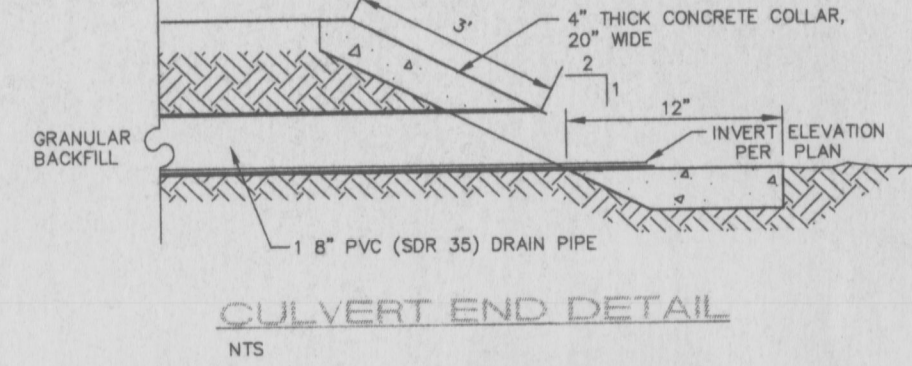
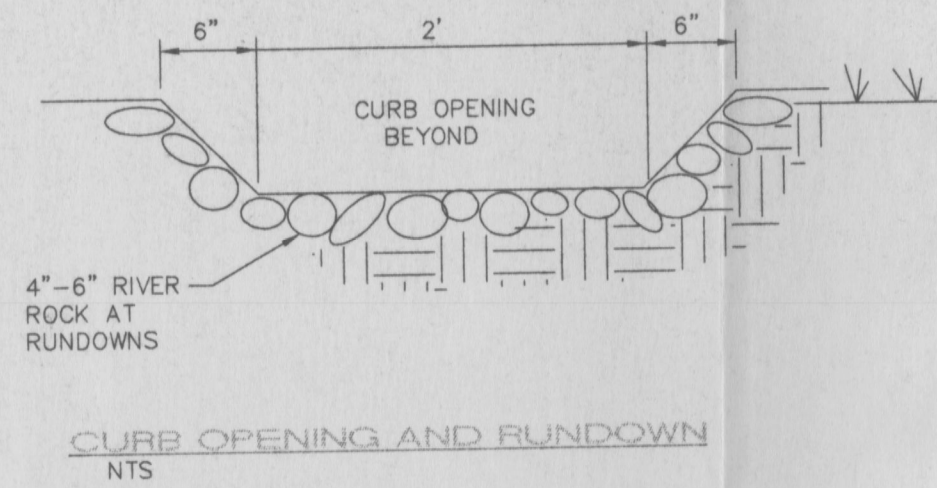




DRAINAGE CONCEPT

THE EXISTING SITE IMPROVEMENTS INCLUDE A GRASS PARK AREA WITH PAVED AND DIRT PARKING AREAS. RUNOFF PRESENTLY PONDS ONSITE IN SEVERAL AREAS.

EXISTING LAND TREATMENT: 0% A, 26% B, 72% C, 2% D

ZONE: 1

$$Q_{100} = (2.03)(0.543) + (2.87)(1.503) + (4.37)(0.041) = 5.6 \text{ CFS}$$

$$Q_{10} = (0.76)(0.543) + (1.49)(1.503) + (2.89)(0.041) = 2.8 \text{ CFS}$$

$$V_{100} = (0.056)(0.543) + (0.083)(1.503) + (0.164)(0.041)$$

$$V_{100} = 7,050 \text{ CU.FT.}$$

PROPOSED DEVELOPMENT ADDS AN 1860 SF BUILDING WITH 17,330 SF OF ASSOCIATED PARKING AND WALKS.

PROPOSED LAND TREATMENT: 0% A, 43% B, 34% C, 23% D

$$Q_{100} = (2.03)(0.897) + (2.87)(0.710) + (4.37)(0.480) = 6.0 \text{ CFS}$$

$$Q_{10} = (0.76)(0.897) + (1.49)(0.710) + (2.89)(0.480) = 3.1 \text{ CFS}$$

$$V_{100} = (0.056)(0.897) + (0.083)(0.710) + (0.164)(0.480)$$

$$V_{100} = 8,200 \text{ CU.FT.}$$

OFFSITE FLOW: AREA = 4,200 SF (PAJARITO DITCHBANK)

$$Q_{100} = (2.87)(0.096) = 0.3 \text{ CFS}$$

$$Q_{10} = (1.49)(0.096) = 0.1 \text{ CFS}$$

$$V_{100} = (0.083)(0.096) = 350 \text{ CU.FT.}$$

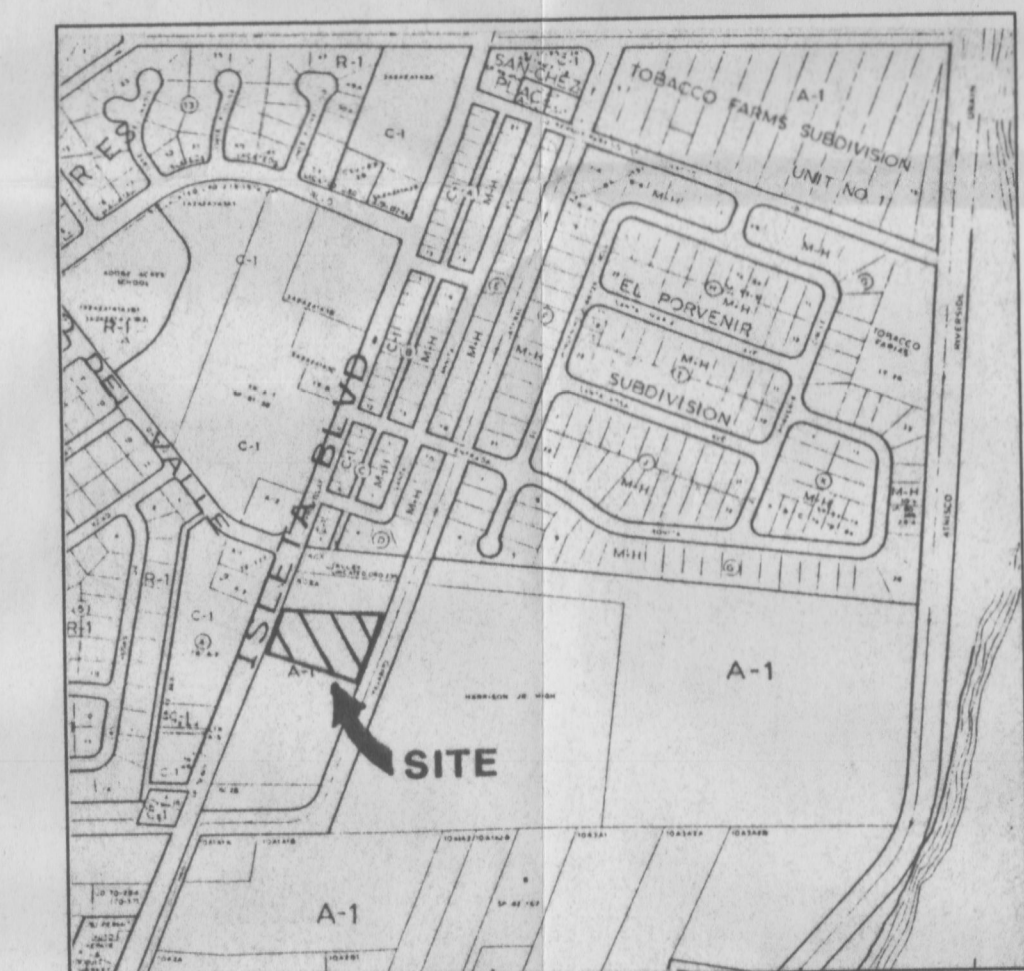
STORM WATER VOLUMES SHALL BE PONDED ONSITE AS SHOWN.

	B	C	D	TOTAL	V ₁₀₀ (CF)	10-DAY VOLUME	POND VOLUME
A	---	540	5915	6455	1015	1740	540 *
B	1480	2050	1080	4610	430	565	590
C	---	2580	1310	3890	430	590	1420 *
D	3830	---	1340	5170	440	605	630
E	1700	1990	1890	5580	570	800	370 *
F	500	580	2900	3980	555	910	940 *
G	---	6670	6230	12900	1575	2340	3800 *

* SUBBASINS A, F, & G ARE DESIGNED ON A COMBINED BASIS WITH TOTAL STORAGE VOLUME OF 5280 CF (10-DAY V=5090 CF). WHEN EITHER POND A OR F FILLS, ADDITIONAL RUNOFF WILL SPILLOVER INTO THE NEXT SUBBASIN & BE PONDED IN POND G. SUBBASINS C & E ARE ALSO LINKED & PROVIDE TOTAL STORAGE OF 1790 CF WHILE 10-DAY V= 1390 CF.



1"=500' PANEL 20
FLOOD HAZARD MAP



1"=750'± P-12
VICINITY MAP

RIO BRAVO SENIOR CENTER

LEGAL DESCRIPTION: TRACT B-1, HARRISON SCHOOL

AREA: 2.0871 ACRES

SURVEY: BOUNDARY AND TOPOGRAPHIC SURVEY BY ALDRICH LAND SURVEYING DATED NOVEMBER 1992.

BENCHMARK: ACS BENCHMARK "9-P12", AN ALUMINUM CAP SET FLUSH IN THE TOP OF THE EAST CURB OF ISLETA BLVD 650 FEET SOUTH OF CAMINO DEL VALLE SW AT THE SOUTH VALLEY POOL. ELEVATION: 4926.16

FLOOD HAZARD: THIS SITE IS WITHIN ZONE AH (ELEV. 4923) AS SHOWN ON PANEL 40 OF THE FIRM.

SOILS: AS SHOWN ON PLATE 40 OF THE SCS SOILS SURVEY OF BERNALILLO COUNTY, SITE SOILS ARE 75% BRAZILTO SILTY CLAY LOAM AND 25% VINTON SANDY LOAM WHICH ARE CLASSIFIED AS HYDROLOGIC SOIL GROUP "A" AND "B" SOILS RESPECTIVELY.

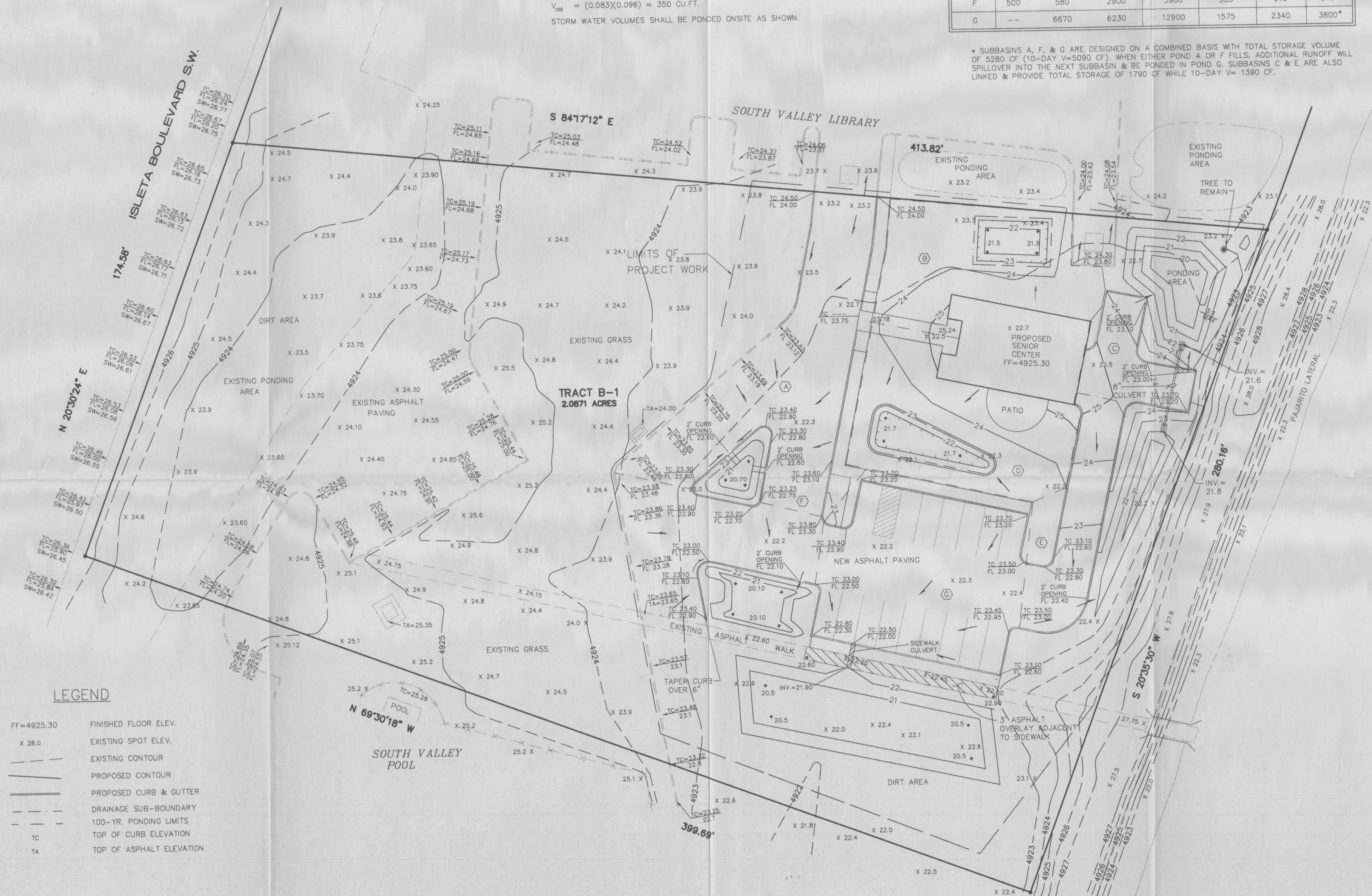
OFFSITE FLOWS: BOUNDED ON THE WEST BY ISLETA BLVD, ON THE EAST BY THE PAJARITO LATERAL, AND A COUNTY LIBRARY AND POOL TO THE NORTH AND SOUTH, THE SITE ACCEPTS OFFSITE FLOWS ONLY FROM THE WEST BANK AREA OF THE PAJARITO LATERAL.

I PERSONALLY INSPECTED THE SITE ON APRIL 13, 1993, AND BELIEVE THAT NO REGRADING HAD OCCURRED AFTER THE CONTOUR MAP WAS PREPARED.



APPROVAL FOR DRAINAGE:

BERNALILLO COUNTY PUBLIC WORKS DEPT. DATE



- LEGEND**
- FF=4925.30 FINISHED FLOOR ELEV.
 - X 28.0 EXISTING SPOT ELEV.
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - PROPOSED CURB & GUTTER
 - DRAINAGE SUB-BOUNDARY
 - 100-YR. PONDED LIMITS
 - TC TOP OF CURB ELEVATION
 - TA TOP OF ASPHALT ELEVATION