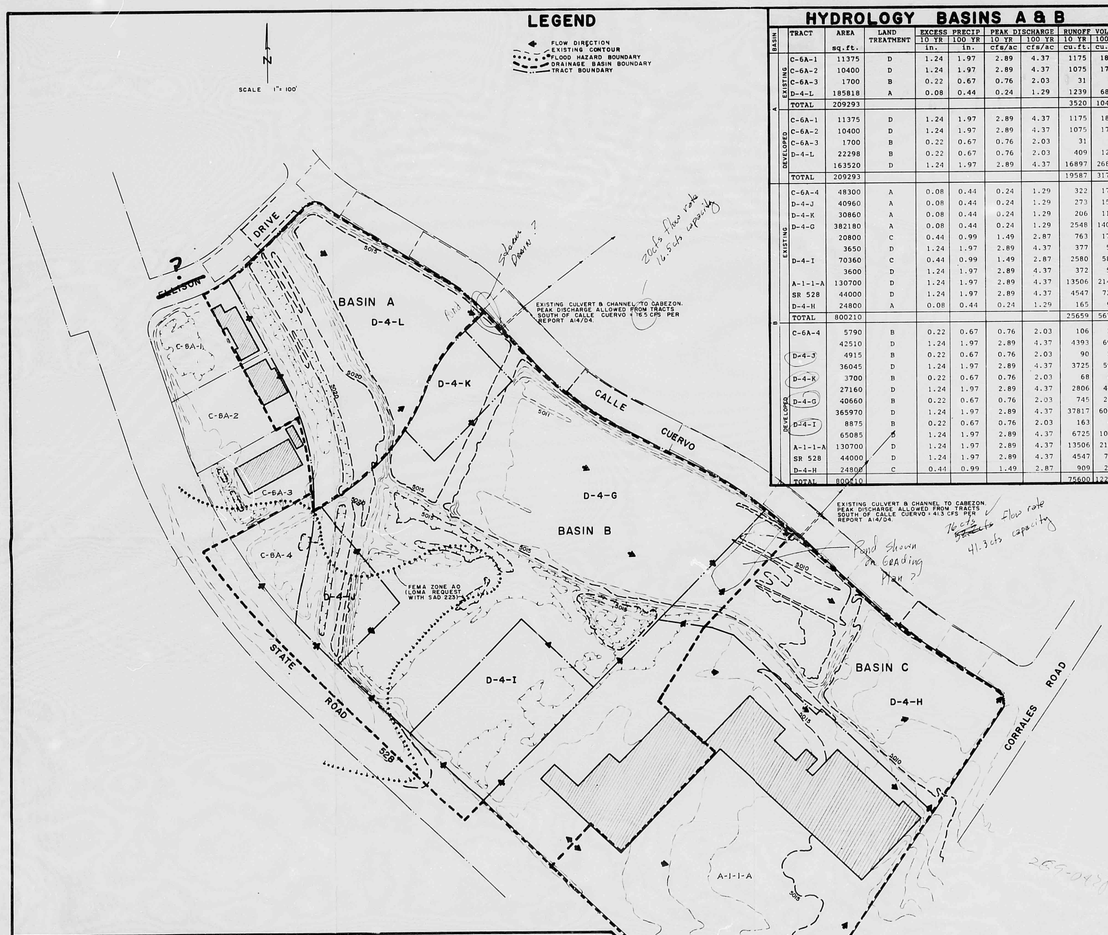
PUBLIC WORKS/HYDROLOGY

A14/D4A

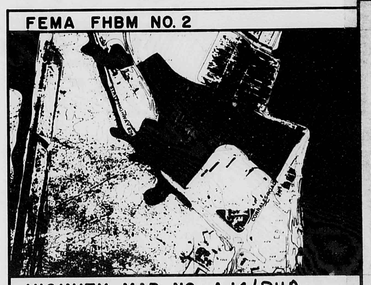


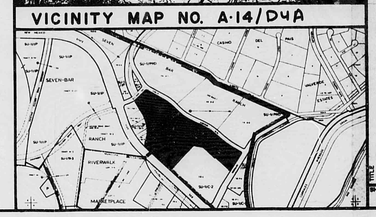
HYDROLOGY BASINS A & B

BASIN	TRACT	AREA sq.ft.	LAND TREATMENT	EXCESS PRECIP 10 YR in.	EXCESS PRECIP 100 YR in.	PEAK DISCHARGE 10 YR cfs/ac	PEAK DISCHARGE 100 YR cfs/ac	RUNOFF VOLUME 10 YR cu.ft.	RUNOFF VOLUME 100 YR cu.ft.	RUNOFF RATE 10 YR cfs	RUNOFF RATE 100 YR cfs	REMARKS
A EXISTING	C-6A-1	11375	D	1.24	1.97	2.89	4.37	1175	1867	0.75	1.14	OFFICE. DIRECT DISCHARGE TO D-4-L. PONDED BY DITCHBANK.
	C-6A-2	10400	D	1.24	1.97	2.89	4.37	1075	1707	0.69	1.04	" " " " " " "
	C-6A-3	1700	B	0.22	0.67	0.76	2.03	31	95	0.03	0.08	COMMER. " " " " " " "
	D-4-L	185818	A	0.08	0.44	0.24	1.29	1239	6813	1.02	5.50	VACATED DITCH ROW AND FALLOW FIELD. NO DISCHARGE.
	TOTAL	209293						3520	10482	2.49	7.76	
A DEVELOPED	C-6A-1	11375	D	1.24	1.97	2.89	4.37	1175	1867	0.75	1.14	DIRECT DISCHARGE TO D-4-L. NEED DRAINAGE ESMT ON D-4-L.
	C-6A-2	10400	D	1.24	1.97	2.89	4.37	1075	1707	0.69	1.04	" " " " " " " " "
	C-6A-3	1700	B	0.22	0.67	0.76	2.03	31	95	0.03	0.08	" " " " " " " " "
	D-4-L	22298	B	0.22	0.67	0.76	2.03	409	1245	0.39	1.04	COMMER/OFFICE. CONTROLLED DISCHARGE, 16.5 CFS MAX. EXTEND
		163520	D	1.24	1.97	2.89	4.37	16897	26845	10.85	16.40	EXISTING CULVERT FROM D-4-G TO POND ON D-4-L.
	TOTAL	209293						19587	31759	12.71	19.70	PER A14/D4 CABEZON CHANNEL LIMITATIONS REQUIRE CONTROL.
B EXISTING	C-6A-4	48300	A	0.08	0.44	0.24	1.29	322	1771	0.27	1.43	RANGELAND. DIRECT DISCHARGE TO D-4-J. PONDED BY DITCHBANK.
	D-4-J	40960	A	0.08	0.44	0.24	1.29	273	1502	0.23	1.21	VACATED DITCH ROW. DIRECT DISCHARGE TO D-4-G.
	D-4-K	30860	A	0.08	0.44	0.24	1.29	206	1132	0.17	0.91	FALLOW FIELD. NO DISCHARGE.
	D-4-G	382180	A	0.08	0.44	0.24	1.29	2548	14013	2.11	11.32	COMMER. RUINS. DEPRESSIONS. FALLOW FIELDS. NO DISCHARGE.
		20800	C	0.44	0.99	1.49	2.87	763	1716	0.71	1.37	
		3650	D	1.24	1.97	2.89	4.37	377	599	0.24	0.37	
	D-4-I	70360	C	0.44	0.99	1.49	2.87	2580	5805	2.41	4.64	COMMER. RUINS. DIRECT DISCHARGE TO D-4-G.
		3600	D	1.24	1.97	2.89	4.37	372	591	0.24	0.36	
	A-1-1-A	130700	D	1.24	1.97	2.89	4.37	13506	21457	8.67	13.11	COMMER. DIRECT DISCHARGE TO D-4-G AND D-4-H.
	SR 528	44000	D	1.24	1.97	2.89	4.37	4547	7223	2.92	4.41	HIGHWAY. DIRECT DISCHARGE TO C-6A-4, D-4-J, D-4-G AND D-4-I.
	D-4-H	24800	A	0.08	0.44	0.24	1.29	165	909	0.14	0.73	FALLOW FIELD. NO DISCHARGE.
	TOTAL	800210						25659	56718	18.11	39.86	
B DEVELOPED	C-6A-4	5790	B	0.22	0.67	0.76	2.03	106	323	0.10	0.27	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		42510	D	1.24	1.97	2.89	4.37	4393	6979	2.82	4.26	ON D-4-J.
	D-4-J	4915	B	0.22	0.67	0.76	2.03	90	274	0.08	0.23	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		36045	D	1.24	1.97	2.89	4.37	3725	5917	2.39	1.62	ON D-4-G.
	D-4-K	3700	B	0.22	0.67	0.76	2.03	68	207	0.06	0.17	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		27160	D	1.24	1.97	2.89	4.37	2806	4459	1.80	1.72	ON D-4-G.
	D-4-G	40660	B	0.22	0.67	0.76	2.03	745	2270	0.71	.89	COMMER/OFFICE. CONTROLLED DISCHARGE, NO MAXIMUM RATE.
		365970	D	1.24	1.97	2.89	4.37	37817	60080	24.28	31.71	NEED DRAINAGE ESMT ON D-4-H.
	D-4-I	8875	B	0.22	0.67	0.76	2.03	163	496	0.15	3.41	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		65085	D	1.24	1.97	2.89	4.37	6725	10685	4.32	3.53	ON D-4-G.
	A-1-1-A	130700	D	1.24	1.97	2.89	4.37	13506	21457	8.67	11.11	COMMER. NEED DRAINAGE ESMT ON D-4-G, D-4-H AND D-4-I.
	SR 528	44000	D	1.24	1.97	2.89	4.37	4547	7223	2.92	1.41	HIGHWAY. DIRECT DISCHARGE TO C-6A-4, D-4-J, D-4-G AND D-4-I.
	D-4-H	24800	C	0.44	0.99	1.49	2.87	909	2046	0.85	1.63	DETENTION POND. CONTROLLED DISCHARGE, 41.3 CFS MAX.
	TOTAL	800210						75600	122416	49.15	71.96	PER A14/D4 CABEZON CHANNEL LIMITATIONS REQUIRE CONTROL.

HYDROLOGY BASIN C

CONC.	TRACT	AREA sq. ft.	LAND TREATMENT	EXCESS PRECIP 10 YR in.	EXCESS PRECIP 100 YR in.	PEAK DISCHARGE 10 YR cfs/ac	PEAK DISCHARGE 100 YR cfs/ac	RUNOFF VOLUME 10 YR cu ft	RUNOFF VOLUME 100 YR cu ft	RUNOFF RATE 10 YR cfs	RUNOFF RATE 100 YR cfs	REMARKS
EXISTING	A-1-1-A	371000	D	1.24	1.97	2.89	4.37	38337	60906	24.61	37.22	COMMER. DIRECT DISCHARGE TO D-4-H.
	D-4-H	163670	A	0.08	0.44	0.24	1.29	1091	6001	0.90	4.85	FALLOW FIELD. NO DISCHARGE.
	TOTAL	534670						39428	66907	25.51	42.07	
DEVELOPED	A-1-1-A	371000	D	1.24	1.97	2.89	4.37	38337	60906	24.61	37.22	COMMER. DIRECT DISCHARGE. NEED DRAINAGE ESMT ON D-4-H.
	D-4-H	16365	B	0.22	0.67	0.76	2.03	300	914	0.29	0.76	COMMER/OFFICE. CONTROLLED DISCHARGE, 39.2 CFS MAX.
		147305	D	1.24	1.97	2.89	4.37	15222	24183	9.77	14.78	SURFACE FLOW ACROSS CALLE CUERVO.
	TOTAL	534670						53859	86003	34.67	52.76	PER A14/D4 CABEZON CHANNEL LIMITATIONS REQUIRE CONTROL





BORDEAUX DESIGNS
P.O. BOX 1293
ALBUQUERQUE, NM 87103-1294
(505)823-1941

JOB	9130	FILE	9130	DATE		DATE
DESIGNED				DRAWN		DATE
REVIEWED						DATE

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
NO. 8110
JAMES A. BORDEAUX

NO.	DATE	REVISIONS	BY

TITLE: CONCEPTUAL DRAINAGE PLAN
TRACT D-4-G THRU TRACT D-4-L
SEVEN BAR RANCH

SHEET 1 OF 1

R# 23 DATE 3-13-02 OP

CITY OF ALBUQUERQUE

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PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

FILE DESC: A14/D4A

PLANS/PLATS 1

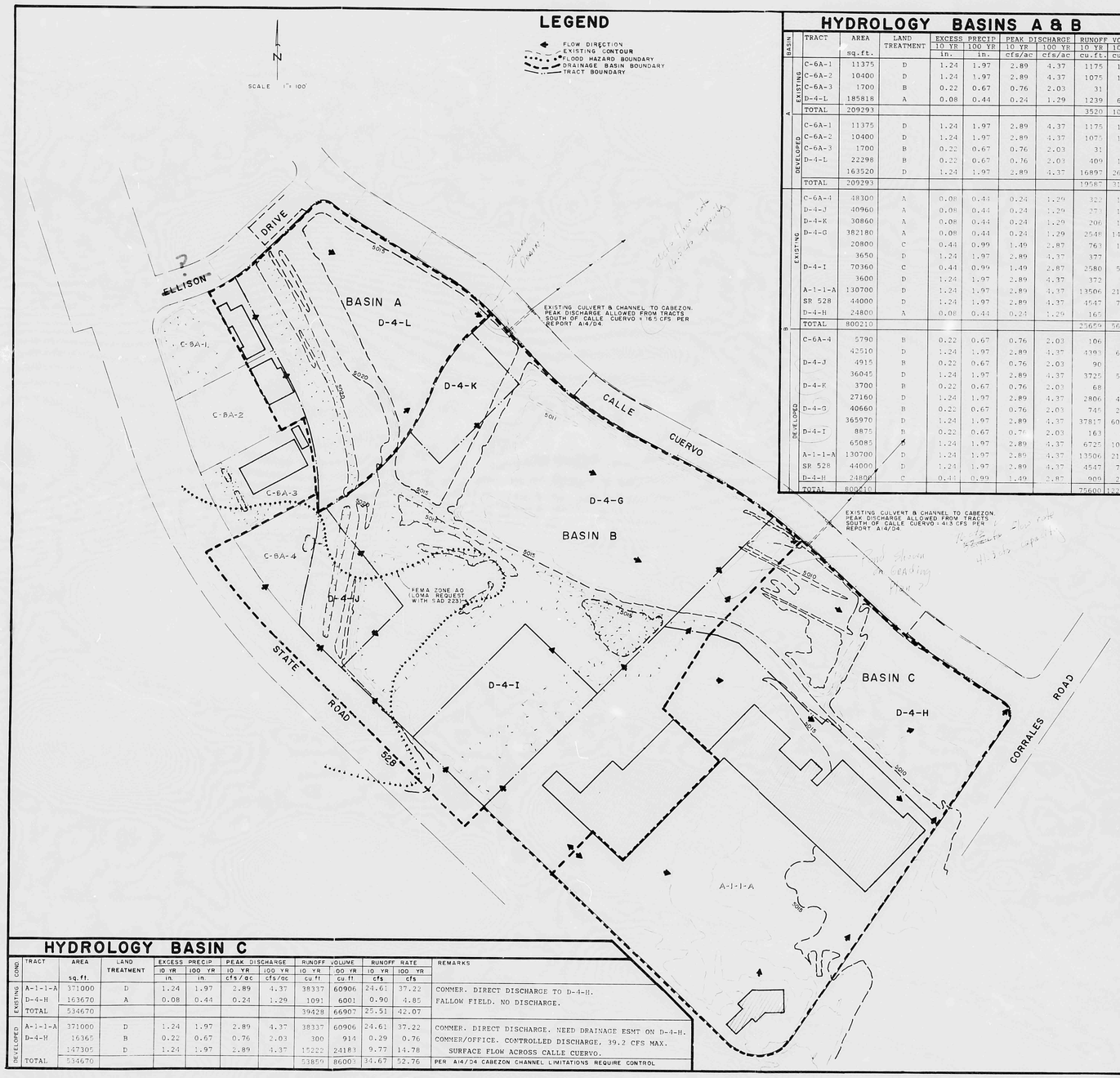
F 30 D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D F

LEGEND

- FLOW DIRECTION
- EXISTING CONTOUR
- FLOOD HAZARD BOUNDARY
- DRAINAGE BASIN BOUNDARY
- TRACT BOUNDARY

N

SCALE 1" = 100'



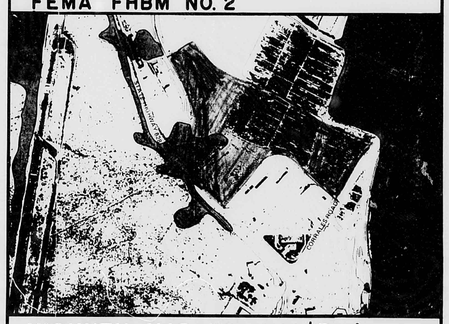
HYDROLOGY BASINS A & B

BASIN	TRACT	AREA sq.ft.	LAND TREATMENT	EXCESS PRECIP 10 YR in.	EXCESS PRECIP 100 YR in.	PEAK DISCHARGE 10 YR cfs/ac	PEAK DISCHARGE 100 YR cfs/ac	RUNOFF VOLUME 10 YR cu.ft.	RUNOFF VOLUME 100 YR cu.ft.	RUNOFF RATE 10 YR cfs	RUNOFF RATE 100 YR cfs	REMARKS
A EXISTING	C-6A-1	11375	D	1.24	1.97	2.89	4.37	1175	1867	0.75	.14	OFFICE. DIRECT DISCHARGE TO D-4-L. PONDED BY DITCHBANK.
	C-6A-2	10400	D	1.24	1.97	2.89	4.37	1075	1707	0.69	.04	" " " " " " " "
	C-6A-3	1700	B	0.22	0.67	0.76	2.03	31	95	0.03	0.08	COMMER. " " " " " " " "
	D-4-L	185818	A	0.08	0.44	0.24	1.29	1239	6813	1.02	5.50	VACATED DITCH ROW AND FALLOW FIELD. NO DISCHARGE.
	TOTAL	209293						3520	10482	2.49	7.76	
A DEVELOPED	C-6A-1	11375	D	1.24	1.97	2.89	4.37	1175	1867	0.75	.14	DIRECT DISCHARGE TO D-4-L. NEED DRAINAGE ESMT ON D-4-L.
	C-6A-2	10400	D	1.24	1.97	2.89	4.37	1075	1707	0.69	.04	" " " " " " " "
	C-6A-3	1700	B	0.22	0.67	0.76	2.03	31	95	0.03	0.08	" " " " " " " "
	D-4-L	22298	B	0.22	0.67	0.76	2.03	409	1245	0.39	.04	COMMER/OFFICE. CONTROLLED DISCHARGE, 16.5 CFS MAX. EXTEND
		163520	D	1.24	1.97	2.89	4.37	16897	26845	10.85	16.40	EXISTING CULVERT FROM D-4-G TO POND ON D-4-L.
	TOTAL	209293						19587	31759	12.71	16.70	PER A14/D4 CABEZON CHANNEL LIMITATIONS REQUIRE CONTROL.
B EXISTING	C-6A-4	48300	A	0.08	0.44	0.24	1.29	322	1771	0.27	.43	RANGELAND. DIRECT DISCHARGE TO D-4-J. PONDED BY DITCHBANK.
	D-4-J	40960	A	0.08	0.44	0.24	1.29	27	1501	0.23	.21	VACATED DITCH ROW. DIRECT DISCHARGE TO D-4-G.
	D-4-K	30860	A	0.08	0.44	0.24	1.29	206	1132	0.17	0.91	FALLOW FIELD. NO DISCHARGE.
	D-4-G	382180	A	0.08	0.44	0.24	1.29	2548	14013	2.11	11.32	COMMER. RUINS. DEPRESSIONS. FALLOW FIELDS. NO DISCHARGE.
		20800	C	0.44	0.99	1.49	2.87	763	1716	0.71	.37	
		3650	D	1.24	1.97	2.89	4.37	377	599	0.24	0.37	
	D-4-I	70360	C	0.44	0.99	1.49	2.87	2580	5805	2.41	4.64	COMMER. RUINS. DIRECT DISCHARGE TO D-4-G.
		3600	D	1.24	1.97	2.89	4.37	372	591	0.24	0.36	
	A-1-1-A	130700	D	1.24	1.97	2.89	4.37	13506	21457	8.67	13.11	COMMER. DIRECT DISCHARGE TO D-4-G AND D-4-H.
	SR 528	44000	D	1.24	1.97	2.89	4.37	4547	7223	2.92	4.41	HIGHWAY. DIRECT DISCHARGE TO C-6A-4, D-4-J, D-4-G AND D-4-I.
	D-4-H	24800	A	0.08	0.44	0.24	1.29	165	909	0.14	0.73	FALLOW FIELD. NO DISCHARGE.
	TOTAL	800210						25659	56718	18.11	39.86	
B DEVELOPED	C-6A-4	5790	B	0.22	0.67	0.76	2.03	106	323	0.10	0.27	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		42510	D	1.24	1.97	2.89	4.37	4393	6976	2.82	4.26	ON D-4-J.
	D-4-J	4915	B	0.22	0.67	0.76	2.03	90	274	0.08	0.23	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		36045	D	1.24	1.97	2.89	4.37	3725	5917	2.39	3.62	ON D-4-G.
	D-4-K	3700	B	0.22	0.67	0.76	2.03	68	207	0.06	0.17	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		27160	D	1.24	1.97	2.89	4.37	2806	4459	1.80	2.72	ON D-4-G.
	D-4-G	40660	B	0.22	0.67	0.76	2.03	745	2276	0.71	.89	COMMER/OFFICE. CONTROLLED DISCHARGE. NO MAXIMUM RATE.
		365970	D	1.24	1.97	2.89	4.37	37817	60080	24.28	38.71	NEED DRAINAGE ESMT ON D-4-H.
	D-4-I	8875	B	0.22	0.67	0.76	2.03	163	496	0.15	0.41	COMMER/OFFICE. DIRECT DISCHARGE. NEED DRAINAGE ESMT
		65085	D	1.24	1.97	2.89	4.37	6725	10685	4.32	6.53	ON D-4-G.
	A-1-1-A	130700	D	1.24	1.97	2.89	4.37	13506	21457	8.67	13.11	COMMER. NEED DRAINAGE ESMT ON D-4-G, D-4-H AND D-4-I.
	SR 528	44000	D	1.24	1.97	2.89	4.37	4547	7223	2.92	4.41	HIGHWAY. DIRECT DISCHARGE TO C-6A-4, D-4-J, D-4-G AND D-4-I.
	D-4-H	24800	C	0.44	0.99	1.49	2.87	909	2046	0.85	1.62	DETENTION POND. CONTROLLED DISCHARGE. 41.3 CFS MAX.
	TOTAL	800210						75600	122410	49.33	75.96	PER A14/D4 CABEZON CHANNEL LIMITATIONS REQUIRE CONTROL.

HYDROLOGY BASIN C

COND.	TRACT	AREA sq.ft.	LAND TREATMENT	EXCESS PRECIP 10 YR in.	EXCESS PRECIP 100 YR in.	PEAK DISCHARGE 10 YR cfs/ac	PEAK DISCHARGE 100 YR cfs/ac	RUNOFF VOLUME 10 YR cu ft	RUNOFF VOLUME 100 YR cu ft	RUNOFF RATE 10 YR cfs	RUNOFF RATE 100 YR cfs	REMARKS
EXISTING	A-1-1-A	371000	D	1.24	1.97	2.89	4.37	38337	60906	24.61	37.22	COMMER. DIRECT DISCHARGE TO D-4-H.
	D-4-H	163670	A	0.08	0.44	0.24	1.29	1091	6001	0.90	4.85	FALLOW FIELD. NO DISCHARGE.
	TOTAL	534670						39428	66907	25.51	42.07	
DEVELOPED	A-1-1-A	371000	D	1.24	1.97	2.89	4.37	38337	60906	24.61	37.22	COMMER. DIRECT DISCHARGE. NEED DRAINAGE ESMT ON D-4-H.
	D-4-H	16365	B	0.22	0.67	0.76	2.03	300	914	0.29	0.76	COMMER/OFFICE. CONTROLLED DISCHARGE. 39.2 CFS MAX.
		147305	D	1.24	1.97	2.89	4.37	15222	24183	9.77	14.78	SURFACE FLOW ACROSS CALLE CUERVO.
	TOTAL	534670						53859	86003	34.67	52.76	PER A14/D4 CABEZON CHANNEL LIMITATIONS REQUIRE CONTROL

FEMA FHBM NO. 2



VICINITY MAP NO. A-14/D4A

BORDENAVE DESIGNS
P.O. BOX 9194
ALBUQUERQUE, NM 87199-1194
505-822-1944

JOB 9130 FILE 9130
DESIGNED DATE
DRAWN DATE
REVIEWED DATE

REGISTERED PROFESSIONAL ENGINEER NO. 5110 STATE OF NEW MEXICO JAMES L. BORDENAVE

NO.	DATE	REVISIONS	BY

TITLE: CONCEPTUAL DRAINAGE PLAN
TRACT D-4-G THRU TRACT D-4-L
SEVEN BAR RANCH

SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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Chris T. Allen 1/5/02
DIRECTOR

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07/03/02

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