City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 3, 1999

Richard J. Devine, P.E.
Smith Engineering Company
1316 Jackie Road
Rio Rancho, New Mexico 87124

RE: Grading and Drainage Plan for Sunrise Terrace Unit 5 Park Site (L9/D22) Submitted for Building Permit and Grading Permit Approval, Engineer's Stamp Dated 11/9/99.

Dear Mr. Devine:

Based on the information provided, the above referenced plan is approved for Building Permit and Grading Permit release provided that it is approved by AMAFCA.

Prior to DRC approval, the construction drawings must be signed off by AMAFCA.

As you are aware, the Engineer's Certification is required for this site.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Sue Mortier, Consensus Planning
Lisa Manwill, P.E., Albuquerque Metropolitan Arroyo Flood Control Authority
Whitney Reierson, City Hydrology
File

Smith Engineering Company

A Full Service Engineering Company

November 09 , 1999

City of Albuquerque, Hydrology Division
Building Services Center, Public Works Department
2nd Floor West
600 2nd Street NW
Albuquerque, NM 87102
Attention: Hydrology Division, Susan M. Calongne, P.E.

Re: Grading and Drainage Re-submittals for: Sunrise Terrace Unit 5 Park Site.

Dear Ms. Calongne:

Accompanying this letter, please find the grading and drainage portion of the plans for the above referenced project. You had approve this project for the grading permit and building permit on October 25, 1999, but due to an increase in the park project budget, the park has since been redesigned. Attached, please find a copy of your original letter. The basic hydrology concept of the park remains the same. Runoff volumes have changed slightly. The detention pond is smaller and deeper due to the new tennis courts, but the pond outlet structure and berm remain the same as what was originally approved. Attached please find a copy of the AHYMO output file for your review. I have sent these plans over to AMAFCA for there approval.

If you require additional information at this time please let met know. You can contact me at 994-1902.

Sincerely,

Smith Engineering Company

Rick Devine, PE

cc: AMAFCA Attention Lisa Manwell
Consensus Planning, Attention Sue Mortier

1316 Jackie Road, Suite 850 Rio Rancho, New Mexico 87124 Telephone 505/994-1902 Fax 505/994-1921
E-mail SECRR@worlnet.att.net

DRAINAGE INFORMATION SHEET

APPLICANT'S NAME: City of Albuquerque Capital Implementation Program ZONE ATLAS/DRNG. FILE # L-9-Z D022

DRB #_____ EPC #_____ WORK ORDER #_____

LEGAL DESCRIPTION Sunrise Terrace Unit Five Park Site

CITY ADDRESS: _____

ENGINEERING FIRM: Smith Engineering Company CONTACT: Rick Devine

ADDRESS: 1316 Jackie Road, Rio Rancho, NM 87124 PHONE: (505) 994-1902

ARCHITECT: Consensus Planning CONTACT: Sue Mortier

ADDRESS: 924 Park Ave. SW Albuquerque, NM 87102 PHONE: (505)764-9801

SURVEYOR:_____ CONTACT:_____

ADDRESS:_____ PHONE:_____

CONTRACTOR: _____ CONTACT: _____

ADDRESS:_____ PHONE:_____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☒ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER_____

PRE-DESIGN MEETING:

- ☐_____ YES
- ☐_____ NO
- ☐_____ COPY PROVIDED

DATE SUBMITTED: 11/09/99

BY: Rick Devine

Revised 02/90

CHECK TYPE OF APPROVAL SOUGHT

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☒ DRAINAGE REQUIREMENTS
- ☐ SUBDIVISION CERTIFICATION
- ☐ OTHER _____ (SPECIFY)

RECEIVED
NOV 09 1999
HYDROLOGY SECTION

PLANNED COMMER AREA

CENTRAL AV

ATRISCO

SU-2 PDA

GRANT

SU-2 PDA

HIGH

SUNSET GARDENS

R-D 20 DU/A

LANDS OF CAPITAL INVESTORS

R-D 20 DU/A

R-T

EUCARIZ

R-T

R-T

GRANT

R-T

WEST OF WESTLAND ROW 4 UNIT B

O-1

ATRISCO GRANT

PARK SITE

TOWN OF ATRISCO GRANT

SUNRISE TERRACE PARK

SUNSET TERRACE

R-D R-1

(UNIT 2)

R-D R-1

C-2

SNOW VISTA CHANNEL

R-T

WESTGATE MH PARK ADDN

SNOW

ST

C-2

C-2

SU-1 VISTA MH PARK

SU-1

SUBD

SU-1 MH PARK

SU-2 IP

ORIGINAL

SU-2 IP

SU-2 IP

SU-2 IP

C-2

C-2

SU-1

TOWNSITE OF WESTLAND

SU-1

SU-1

PRD 20 DU/A

PRD 20 DU/A

SU-1

SU-1

PRD 20 DU/A

PRD 20 DU/A

BLVD

SU-1

PRD 20 DU/A

WESTLAND

R-D

R-D

TOWN OF

20 DU/A

R-D

ATRISCO GRANT

R-D

TOWN OF

TOWER WEST

SU-1

SU-1

C-1 & R-2 USES

JOINT VENTURE

SU-1

TOWER

R-D

R-D

O-1

9 DU/A

R-D

TOWN OF

R-D

9 DU/A

R-D

ATRISCO GRANT

(UNIT 3)

SUNSET

SUNSET

WEST ADDN

WEST ADDN

(UNIT 2)

(UNIT 2)

SUNSET

TOWN OF ATRISCO GRANT

R-D

9 DU/A

(UNIT 2)

R-D

9 DU/A

SOUTH

R-D

MESA

R-D

PARK

TOWN

TOWN OF

ATRISCO GRANT

(UNIT 2)

R-D R-1

R-D

9 DU/A

(UNIT 2)

ATRISCO GRANT

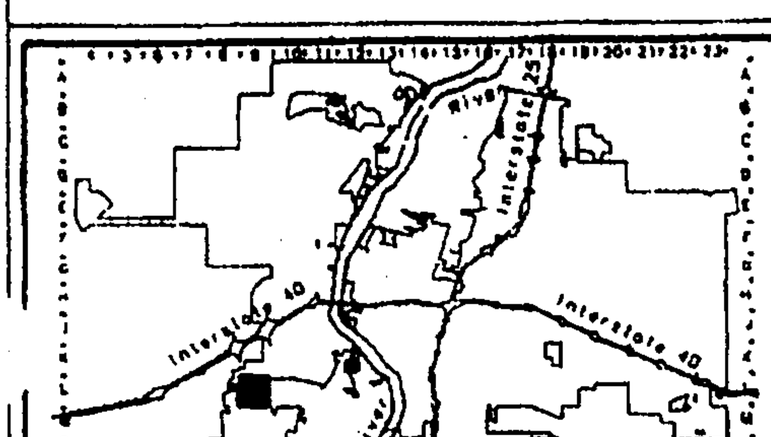
(UNIT 2)

TOWN OF

(UNIT 2)

TOWN

F/P



North

750 375 0 750

Scale: 1" = 750'

A buquerque G eographic I nformation S ystem

City of Albuquerque

LEGAL DESCRIPTION

T10N

R2E

SEC 28

UNIFORM PROPERTY CODE

1-009-056

L-9-Z

```
     AHYMO PROGRAM (AHYMO_97) -                              - Version:  1997.02c
          RUN DATE (MON/DAY/YR.) = 11/05/1999
          START TIME (HR:MIN:SEC) = 09:55:40     USER NO.= AHYMO-S-9702c01SEC01A-AH
          INPUT FILE = N:\599608\OPTION2\SUNRISE1.DAT

*S     THIS IS AN AHYMO HYDROLOGIC MODEL FOR:
*S     Project Name -SUNRISE TERRACE PARK
*S        MODEL DESCRIPTION - MODELING 2.02 ACRE PARK FOR CONTROLLED RELEASE
*S        100-yr. 24-hr. storm
*S        Development Condition - Can release up to 1.3 cfs per acre
*S        into the Snow Vista Channel
*S             FILE NAME: SUNRISE1.DAT
*S             USE PROCEDURES FROM COA DPM 22.2
*S             PREPARED BY SMITH ENGINEERING (Rick Devine)
*S             Rainfall Zone 1
*S
START                TIME=0.0  PUNCH CODE=0 PRINT CODE=0
LOCATION             BERNALILLO COUNTY
     Bernalillo County soil infiltration values (LAND FACTORS) used for computations.
     Land Treatment     Initial Abstr.(in)    Unif. Infilt.(in/hour)
          A             0.65                  1.67
          B             0.50                  1.25
          C             0.35                  0.83
          D             0.10                  0.04

*
* RAINFALL FROM DPM Section 22, Table A-2
*
RAINFALL              TYPE=2
                      QUARTER=0.0    ONE= 1.87 IN
                      SIX= 2.20 IN   DAY= 2.66 IN   DT = 0.05 HR


               COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
               DT =     .050000 HOURS       END TIME =    24.000000 HOURS
```

.0000	.0025	.0050	.0076	.0103	.0131	.0160
.0190	.0222	.0254	.0289	.0324	.0362	.0401
.0443	.0487	.0534	.0584	.0637	.0695	.0758
.0837	.0924	.1176	.1773	.2798	.4384	.6668
.9790	1.2253	1.3366	1.4295	1.5109	1.5836	1.6495
1.7096	1.7648	1.8156	1.8624	1.9057	1.9458	1.9548
1.9631	1.9708	1.9780	1.9848	1.9912	1.9973	2.0031
2.0087	2.0140	2.0191	2.0240	2.0287	2.0333	2.0377
2.0420	2.0462	2.0502	2.0542	2.0580	2.0617	2.0653
2.0689	2.0724	2.0757	2.0791	2.0823	2.0855	2.0886
2.0916	2.0946	2.0976	2.1005	2.1033	2.1061	2.1088
2.1115	2.1142	2.1168	2.1193	2.1219	2.1244	2.1268
2.1293	2.1316	2.1340	2.1363	2.1386	2.1409	2.1431
2.1453	2.1475	2.1497	2.1518	2.1539	2.1560	2.1580
2.1601	2.1621	2.1641	2.1660	2.1680	2.1699	2.1718
2.1737	2.1756	2.1774	2.1793	2.1811	2.1829	2.1847
2.1864	2.1882	2.1899	2.1916	2.1933	2.1950	2.1967
2.1984	2.2000	2.2020	2.2039	2.2059	2.2078	2.2097
2.2117	2.2136	2.2155	2.2174	2.2193	2.2212	2.2231
2.2249	2.2268	2.2287	2.2305	2.2324	2.2342	2.2361
2.2379	2.2398	2.2416	2.2434	2.2452	2.2470	2.2488
2.2506	2.2524	2.2542	2.2559	2.2577	2.2595	2.2612
2.2630	2.2647	2.2665	2.2682	2.2700	2.2717	2.2734
2.2751	2.2768	2.2785	2.2802	2.2819	2.2836	2.2853
2.2870	2.2887	2.2903	2.2920	2.2937	2.2953	2.2970
2.2986	2.3002	2.3019	2.3035	2.3051	2.3068	2.3084
2.3100	2.3116	2.3132	2.3148	2.3164	2.3180	2.3196
2.3212	2.3227	2.3243	2.3259	2.3274	2.3290	2.3305
2.3321	2.3336	2.3352	2.3367	2.3383	2.3398	2.3413
2.3428	2.3444	2.3459	2.3474	2.3489	2.3504	2.3519
2.3534	2.3549	2.3563	2.3578	2.3593	2.3608	2.3622
2.3637	2.3652	2.3666	2.3681	2.3695	2.3710	2.3724
2.3739	2.3753	2.3767	2.3782	2.3796	2.3810	2.3824
2.3839	2.3853	2.3867	2.3881	2.3895	2.3909	2.3923
2.3937	2.3951	2.3965	2.3978	2.3992	2.4006	2.4020
2.4033	2.4047	2.4061	2.4074	2.4088	2.4101	2.4115

2.4128	2.4142	2.4155	2.4168	2.4182	2.4195	2.4208
2.4222	2.4235	2.4248	2.4261	2.4274	2.4287	2.4300
2.4314	2.4327	2.4340	2.4352	2.4365	2.4378	2.4391
2.4404	2.4417	2.4430	2.4442	2.4455	2.4468	2.4480
2.4493	2.4506	2.4518	2.4531	2.4543	2.4556	2.4568
2.4581	2.4593	2.4606	2.4618	2.4630	2.4643	2.4655
2.4667	2.4680	2.4692	2.4704	2.4716	2.4728	2.4740
2.4753	2.4765	2.4777	2.4789	2.4801	2.4813	2.4825
2.4837	2.4849	2.4860	2.4872	2.4884	2.4896	2.4908
2.4919	2.4931	2.4943	2.4955	2.4966	2.4978	2.4990
2.5001	2.5013	2.5024	2.5036	2.5047	2.5059	2.5070
2.5082	2.5093	2.5105	2.5116	2.5127	2.5139	2.5150
2.5161	2.5172	2.5184	2.5195	2.5206	2.5217	2.5229
2.5240	2.5251	2.5262	2.5273	2.5284	2.5295	2.5306
2.5317	2.5328	2.5339	2.5350	2.5361	2.5372	2.5383
2.5394	2.5404	2.5415	2.5426	2.5437	2.5448	2.5458
2.5469	2.5480	2.5490	2.5501	2.5512	2.5522	2.5533
2.5544	2.5554	2.5565	2.5575	2.5586	2.5596	2.5607
2.5617	2.5628	2.5638	2.5649	2.5659	2.5669	2.5680
2.5690	2.5700	2.5711	2.5721	2.5731	2.5741	2.5752
2.5762	2.5772	2.5782	2.5792	2.5803	2.5813	2.5823
2.5833	2.5843	2.5853	2.5863	2.5873	2.5883	2.5893
2.5903	2.5913	2.5923	2.5933	2.5943	2.5953	2.5963
2.5973	2.5982	2.5992	2.6002	2.6012	2.6022	2.6031
2.6041	2.6051	2.6061	2.6070	2.6080	2.6090	2.6099
2.6109	2.6119	2.6128	2.6138	2.6148	2.6157	2.6167
2.6176	2.6186	2.6195	2.6205	2.6214	2.6224	2.6233
2.6243	2.6252	2.6261	2.6271	2.6280	2.6290	2.6299
2.6308	2.6318	2.6327	2.6336	2.6346	2.6355	2.6364
2.6373	2.6383	2.6392	2.6401	2.6410	2.6419	2.6428
2.6438	2.6447	2.6456	2.6465	2.6474	2.6483	2.6492
2.6501	2.6510	2.6519	2.6528	2.6537	2.6546	2.6555
2.6564	2.6573	2.6582	2.6591	2.6600		

```
*S
**** BASIN 1 ****
*S          The following uses entire park as one basin
*S
COMPUTE LT TP        LCODE=1  UPLAND/LAG TIME METHOD
                     NK=1  ISLOPE=-1
                     LENGTH=515 FT   SLOPE=.027 K=0.7

     Tc AND Tp COMPUTED BY UPLAND/LAG TIME PROCEDURE

     SCS UPLAND METHOD FACTORS
          NOTE: Upland factor input values have been adjusted to meet Upland/Lag Time requirements.
                                LENGTH (FT)      SLOPE (FT/FT)       COMPOSITE K
     SHEET FLOW PORTION            400.0            .027000             .7000
     SHALLOW FLOW PORTION          115.0            .027000            2.0000
     CHANNEL FLOW PORTION            .0             .000000             .0000
     TOTAL BASIN                   515.0            .027000             .8189


     TIME OF CONCENTRATION (HRS)=   .1063     TIME TO PEAK (HRS)=   .0709     LAG TIME (HRS)=   .0797

          TIME TO PEAK COMPUTED TO BE LESS THAN 0.133333 HOUR MINIMUM VALUE.
          REVISED VALUES: TIME OF CONCENTRATION (HRS)=   .2000     TIME TO PEAK (HRS)=   .1333     LAG TIME
(HRS)=   .1500

     COMPUTE NM HYD       ID=1   HYD NO=1   DA=0.00316 SQ MI
                          PER A=.477 PER B=.133  PER C=.10  PER D=.291
                          TP=0.0   MASSRAIN=-1
          TIME TO PEAK (hrs)=   .1333
          *****WARNING*****  SUM OF TREATMENT TYPES DOES NOT EQUAL 100 PERCENT OR TOTAL AREA


          K =   .072666HR    TP =   .133333HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =   3.6259    CFS   UNIT VOLUME =    .9959       B =   526.28      P60 = 1.8700
          AREA =      .000919 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .050000
```

K = .149454HR TP = .133333HR K/TP RATIO = 1.120905 SHAPE CONSTANT, N = 3.156106
UNIT PEAK = 4.9474 CFS UNIT VOLUME = .9972 B = 294.31 P60 = 1.8700
AREA = .002241 SQ MI IA = .57965 INCHES INF = 1.47301 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

PRINT HYD ID=1 CODE=1

OUTFLOW HYDROGRAPH REACH 1.00

RUNOFF VOLUME = 1.08502 INCHES = .1829 ACRE-FEET
PEAK DISCHARGE RATE = 4.81 CFS AT 1.500 HOURS BASIN AREA = .0032 SQ. MI.

*S Pond for basin ,xerascaped area
ROUTE RESERVOIR ID=2 HYD=1 INFLOW ID=1 CODE=10

OUTFLOW (CFS)	STORAGE (AC FT)	ELEVATION (FT)
0.01	0.0001	0.01
0.095	0.0975	0.10
0.268	0.02009	0.20
0.493	0.03102	0.30
0.759	0.04255	0.40
1.061	0.05468	0.50
1.394	0.06739	0.60
1.757	0.08070	0.70
2.147	0.09461	0.80
2.561	0.10911	0.90
3.000	0.12420	1.00
3.461	0.13989	1.10
3.944	0.15617	1.20
4.447	0.17304	1.30
4.970	0.19051	1.40
5.511	0.20858	1.50
6.072	0.22723	1.60

* * * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	.00	-.011	.00
.50	.00	.01	.000	.01
1.00	.00	.01	.000	.01
1.50	4.81	.05	.045	.05
2.00	.84	.79	.093	2.11
2.50	.14	.10	.093	.09
3.00	.05	.10	.092	.09
3.50	.03	.09	.090	.09
4.00	.02	.09	.087	.09
4.50	.02	.09	.084	.08
5.00	.02	.09	.082	.08
5.50	.02	.08	.079	.08
6.00	.02	.08	.077	.08
6.50	.02	.08	.074	.07
7.00	.02	.08	.072	.07
7.50	.02	.07	.070	.07
8.00	.02	.07	.068	.07
8.50	.02	.07	.066	.07
9.00	.02	.07	.064	.07
9.50	.02	.07	.062	.06
10.00	.02	.07	.060	.06
10.50	.02	.06	.059	.06
11.00	.02	.06	.057	.06
11.50	.02	.06	.055	.06
12.00	.02	.06	.053	.06
12.50	.02	.06	.052	.06
13.00	.02	.06	.050	.05
13.50	.02	.05	.049	.05

14.00	.02	.05	.047	.05
14.50	.01	.05	.046	.05
15.00	.01	.05	.044	.05
15.50	.01	.05	.043	.05
16.00	.01	.05	.042	.05
16.50	.01	.05	.040	.04
17.00	.01	.05	.039	.04
17.50	.01	.04	.038	.04
18.00	.01	.04	.036	.04
18.50	.01	.04	.035	.04
19.00	.01	.04	.034	.04
19.50	.01	.04	.033	.04
20.00	.01	.04	.032	.04
20.50	.01	.04	.031	.04
21.00	.01	.04	.030	.04
21.50	.01	.04	.029	.04
22.00	.01	.04	.028	.03
22.50	.01	.03	.027	.03
23.00	.01	.03	.026	.03
23.50	.01	.03	.025	.03
24.00	.01	.03	.024	.03
24.50	.00	.03	.023	.03
25.00	.00	.03	.022	.03
25.50	.00	.03	.021	.03
26.00	.00	.03	.020	.03
26.50	.00	.03	.019	.03
27.00	.00	.03	.017	.03
27.50	.00	.03	.016	.02

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
28.00	.00	.02	.015	.02
28.50	.00	.02	.015	.02
29.00	.00	.02	.014	.02
29.50	.00	.02	.013	.02

PEAK DISCHARGE = 2.228 CFS - PEAK OCCURS AT HOUR 1.70
MAXIMUM WATER SURFACE ELEVATION = .820
MAXIMUM STORAGE = .0975 AC-FT INCREMENTAL TIME= .050000HRS

*S
PRINT HYD ID=2 CODE=1

OUTFLOW HYDROGRAPH REACH 1.00

RUNOFF VOLUME = 1.01951 INCHES = .1718 ACRE-FEET
PEAK DISCHARGE RATE = 2.23 CFS AT 1.700 HOURS BASIN AREA = .0032 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 09:55:40

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 25, 1999

Richard J. Devine, P.E.
Smith Engineering Company
1316 Jackie Road
Rio Rancho, New Mexico 87124

RE: Grading and Drainage Plan for Sunrise Terrace Unit 5 Park Site (L9/D22) Submitted for Building Permit and Grading Permit Approval, Engineer's Stamp Dated 9/17/99.

Dear Mr. Devine:

Based on the information provided, the above referenced plan is approved for Building Permit and Grading Permit release.

As you are aware, the Engineer's Certification is required for this site.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Sue Mortier, Consensus Planning
Whitney Reierson, City Hydrology
File

Smith Engineering Company

A Full Service Engineering Company

November 8 , 1999

Albuquerque Metropolitan Arroyo Flood Control Authority
2600 Prospect Ave. NE
Albuquerque, NM 87107
Attention: Lisa Manwell, PE, Development Review Engineer

Re: Grading and Drainage Re-submittals for: Sunrise Terrace Unit 5 Park Site.

Dear Ms Manwell:

Accompanying this letter, please find the revised plans for the above referenced project that was previously approved by you in September, 1999. The reason we are resubmitting is because we have redesigned the park and the hydrology has changed due to the addition of concrete tennis courts plus other modifications. The basic design is the same as what you approved earlier. The detention pond is smaller area wise due to the incorporation of the tennis courts and is deeper. The runoff volumes increased slightly due to more impermeable surface.

Accompanying these plans, is the AHYMO output file for your review. I have also attached the original mylar cover sheet for your signature. We will be submitting this redesign to the City of Albuquerque once you have approved the plans.

If you require additional information at this time please let met know. You can contact me at 994-1902.

Sincerely,

Smith Engineering Company

Rick Devine, PE

cc: Susan Calongne City of Albuquerque, City/County Floodplain Administrator

1316 Jackie Road, Suite 850 Rio Rancho, New Mexico 87124 Telephone 505/994-1902 Fax 505/994-1921
E-mail SECRR@worlnet.att.net

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 25, 1999

Richard J. Devine, P.E.
Smith Engineering Company
1316 Jackie Road
Rio Rancho, New Mexico 87124

RE: Grading and Drainage Plan for Sunrise Terrace Unit 5 Park Site (L9/D22) Submitted for Building Permit and Grading Permit Approval, Engineer's Stamp Dated 9/17/99.

Dear Mr. Devine:

Based on the information provided, the above referenced plan is approved for Building Permit and Grading Permit release.

As you are aware, the Engineer's Certification is required for this site.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Sue Mortier, Consensus Planning
Whitney Reierson, City Hydrology
File

Smith Engineering Company

A Full Service Engineering Company

September 17 , 1999

City of Albuquerque, Hydrology Division
Building Services Center, Public Works Department
2nd Floor West
600 2nd Street NW
Albuquerque, NM 87102
Attention: Hydrology Division, Susan M. Calongne, P.E.

Re: Grading and Drainage Re-submittals for: Sunrise Terrace Unit 5 Park Site.

Dear Ms. Calongne:

The reason for this letter is to inform you that we have addressed your comments concerning the above referenced project . Attached, please find a set of the revised grading and drainage portion of the plans. Consensus Planning is submitting an entire set of plans to the DRC for review. You sent us a letter dated September 9, 1999 with 10 comments. The following is a description of what we have done to address your comments:

RECEIVED
SEP 17 1999
HYDROLOGY SECTION

1. Date and sign engineers' Stamp - done
2. Zone Atlas map as Vicinity map -submitted with these plans. The park area we are developing is only from 102nd Street to the west side of the Snow Vista Channel. There is no current plan to develop the park site on the east side of the channel.
3. We have referenced two (2) master drainage studies that are in the AMAFCA Library. See sheet 5 , Hydrologic Analysis paragraph A.
4. The portion of basin A has minimal disturbance to grading and has native weeds and shrubs in typical densities. The drainage and utility easements crossing Basins B and C are presently undisturbed and have native plants growing and the slopes are less than 5 % with minimal compaction due to human activity.
5. The purpose of the drainage easements shown on the site is because existing drainage pipes are within these easements. There is an 18" RCP connecting a storm inlet on 102 St. to the existing pcc channel on the south side of the park. There is also a 72" RCP running under the park as shown on sheet 4 of the plans.
6. The pond is designed with a rectangular wier outlet that releases 2.63 cfs. Sheet 5 of the plans has a table with the pond volume calculations and the equations and coefficients used. We have also provided a portion of the AHYMO summary showing that the discharge from the wier will be 2.63 cfs at a height of .63'. Also, attached with this letter is a copy of the AHYMO computer run for your information.

1316 Jackie Road, Suite 850 Rio Rancho, New Mexico 87124 Telephone 505/994-1902 Fax 505/994-1921
E-mail SECRR@worlnet.att.net

You mention that a pipe may work better than the wier. I believe that for only 2.63 cfs, a wier will work and will be much easier to maintain.

7. We have shown the 100 year pond water surface elevation. Pond volume calculations are on sheet 5. We have moved the pond off of AMAFCA property. The City of Albuquerque will maintain the pond.
8. We have attached the existing street grades to the revised grading plan and have labeled the contours at the edges of the park. We have also attached existing spot elevations along the channel.
9. We have darkened the proposed improvements and lighted the existing improvements.
10. We have addressed AMAFCA's comments and will resubmit the plans to them.

If you require additional information at this time please let met know. You can contact me at 994-1902.

Sincerely,

Smith Engineering Company

Rick Devine, PE

cc: AMAFCA Attention Lisa Manwell
Consensus Planning, Attention Sue Mortier

1316 Jackie Road, Suite 850 Rio Rancho, New Mexico 87124 Telephone 505/994-1902 Fax 505/994-1921
E-mail SECRR@worlnet.att.net

Smith Engineering Company

A Full Service Engineering Company

September 17 , 1999

Albuquerque Metropolitan Arroyo Flood Control Authority
2600 Prospect Ave. NE
Albuquerque, NM 87107
Attention: Lisa Manwell, PE, Development Review Engineer

Re: Grading and Drainage Re-submittals for: Sunrise Terrace Unit 5 Park Site.

Dear Ms Manwell:

Accompanying this letter, please find the revised plans for the above referenced project. We have made these revisions based on your letter dated August 24, 1999 and the City of Albuquerque's' comments. We have also submitted the revised plans to the City.

Your comments were:

1. Date the engineer's seal. Done
2. We have provided the pond volume calculations and the 100 year surface elevation of the pond on the grading and drainage sheet no 4. We also have provided a portions of the AHYMO run that summarizes the discharge and the depth at the wier. The max discharge = 2.63 cfs at a depth of .63' Total discharge from the park = .4 cfs from basin B + .2 cfs from basin C + 2.63 cfs from basin A through wier = 3.23 cfs for the entire park. The area of the park = 2.48 acres x 1.3 cfs allowable = 3.22 cfs. A copy of the AHYMO run is also attached for you review.
3. The pedestrian bridge is existing. There is no existing side inlet to the Snow Vista Channel . There is a tributary channel to the Snow Vista Channel on the south side of the park. A 72" RCP under the park drains to this channel.
4. The existing maintenance road, is along the east side of the channel next to the existing paved pedestrian/bike path. We have increased the width of the rundown to 4 feet for maintenance purposes In wier opening is 3.5' wide.
5. We have increased the size of the rundown to 4' in the AMAFCA right of way. The wier opening is 3.5' and tapers out to 4'.

1316 Jackie Road, Suite 850 Rio Rancho, New Mexico 87124 Telephone 505/994-1902 Fax 505/994-1921
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Smith Engineering Company

A Full Service Engineering Company

If you require additional information at this time please let met know. You can contact me at 994-1902.

Sincerely,

Smith Engineering Company

Rick Devine, PE

cc: Susan Calongne City of Albuquerque, City/County Floodplain Administrator

1316 Jackie Road, Suite 850 Rio Rancho, New Mexico 87124 Telephone 505/994-1902 Fax 505/994-1921
E-mail SECRR@worlnet.att.net

DRAINAGE INFORMATION SHEET

APPLICANT'S NAME: City of Albuquerque Capital Implementation Program ZONE ATLAS/DRNG. FILE # L-9-~~4~~ 2022

DRB #_____ EPC #_____ WORK ORDER #_____

LEGAL DESCRIPTION Sunrise Terrace Unit Five Park Site

CITY ADDRESS: _____

ENGINEERING FIRM: Smith Engineering Company CONTACT: Rick Devine

ADDRESS: 1316 Jackie Road, Rio Rancho, NM 87124 PHONE: (505) 994-1902

ARCHITECT: Consensus Planning CONTACT: Sue Mortier

ADDRESS: 924 Park Ave. SW Albuquerque, NM 87102 PHONE: (505)764-9801

SURVEYOR:_____ CONTACT:_____

ADDRESS:_____ PHONE:_____

CONTRACTOR: _____ CONTACT: _____

ADDRESS:_____ PHONE:_____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☒ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER_____

PRE-DESIGN MEETING:

- ☐_____ YES
- ☐_____ NO
- ☐_____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☒ DRAINAGE REQUIREMENTS
- ☐ SUBDIVISION CERTIFICATION
- ☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 9/17/99

BY: Rick Devine

RECEIVED
SEP 17 1999
HYDROLOGY SECTION

Revised 02/90

```
AHYMO PROGRAM (AHYMO_97) -                                  - Version:  1997.02c
                RUN DATE (MON/DAY/YR) = 09/14/1999
                START TIME (HR:MIN:SEC) = 09:43:53     USER NO.= AHYMO-S-9702c01SEC01A-AH
                INPUT FILE = N:\599608\DOCUME~1\NEWFOL~1\TEST.TXT

      *S     THIS IS AN AHYMO HYDROLOGIC MODEL FOR:
      *S     Project Name -SUNRISE TERRACE PARK
      *S        MODEL DESCRIPTION - MODLING 2.02 ACRE PARK FOR CONTROLED RELEASE
      *S        100-yr. 24-hr. storm
      *S        Development Condition - Can release up to 1.3 cfs per acre
      *S        into the Snow Vista Channel
      *S             FILE NAME: SUNRISE1.DAT
      *S             USE PROCEDURES FROM COA DPM 22.2
      *S             PREPARED BY SMITH ENGINEERING (Rick Devine)
      *S             Rainfall Zone 1
      *S
      START                 TIME=0.0  PUNCH CODE=0 PRINT CODE=0
      LOCATION              BERNALILLO COUNTY
           Bernalillo County soil infiltration values (LAND FACTORS) used for computations.
           Land Treatment     Initial Abstr.(in)    Unif. Infilt.(in/hour)
                 A                0.65                    1.67
                 B                0.50                    1.25
                 C                0.35                    0.83
                 D                0.10                    0.04

      *
      * RAINFALL FROM DPM Section 22, Table A-2
      *
      RAINFALL               TYPE=2
                             QUARTER=0.0    ONE= 1.87 IN
                             SIX= 2.20 IN   DAY= 2.66 IN   DT = 0.05 HR

                             COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT
      1.40 HR.
                             DT =     .050000 HOURS        END TIME =    24.000000 HOURS
                                .0000   .0025   .0050   .0076   .0103   .0131   .0160
                                .0190   .0222   .0254   .0289   .0324   .0362   .0401
                                .0443   .0487   .0534   .0584   .0637   .0695   .0758
                                .0837   .0924   .1176   .1773   .2798   .4384   .6668
                                .9790  1.2253  1.3366  1.4295  1.5109  1.5836  1.6495
                               1.7096  1.7648  1.8156  1.8624  1.9057  1.9458  1.9548
                               1.9631  1.9708  1.9780  1.9848  1.9912  1.9973  2.0031
                               2.0087  2.0140  2.0191  2.0240  2.0287  2.0333  2.0377
                               2.0420  2.0462  2.0502  2.0542  2.0580  2.0617  2.0653
                               2.0689  2.0724  2.0757  2.0791  2.0823  2.0855  2.0886
                               2.0916  2.0946  2.0976  2.1005  2.1033  2.1061  2.1088
                               2.1115  2.1142  2.1168  2.1193  2.1219  2.1244  2.1268
                               2.1293  2.1316  2.1340  2.1363  2.1386  2.1409  2.1431
                               2.1453  2.1475  2.1497  2.1518  2.1539  2.1560  2.1580
                               2.1601  2.1621  2.1641  2.1660  2.1680  2.1699  2.1718
                               2.1737  2.1756  2.1774  2.1793  2.1811  2.1829  2.1847
                               2.1864  2.1882  2.1899  2.1916  2.1933  2.1950  2.1967
                               2.1984  2.2000  2.2020  2.2039  2.2059  2.2078  2.2097
                               2.2117  2.2136  2.2155  2.2174  2.2193  2.2212  2.2231
                               2.2249  2.2268  2.2287  2.2305  2.2324  2.2342  2.2361
                               2.2379  2.2398  2.2416  2.2434  2.2452  2.2470  2.2488
                               2.2506  2.2524  2.2542  2.2559  2.2577  2.2595  2.2612
                               2.2630  2.2647  2.2665  2.2682  2.2700  2.2717  2.2734
```

2.2751	2.2768	2.2785	2.2802	2.2819	2.2836	2.2853
2.2870	2.2887	2.2903	2.2920	2.2937	2.2953	2.2970
2.2986	2.3002	2.3019	2.3035	2.3051	2.3068	2.3084
2.3100	2.3116	2.3132	2.3148	2.3164	2.3180	2.3196
2.3212	2.3227	2.3243	2.3259	2.3274	2.3290	2.3305
2.3321	2.3336	2.3352	2.3367	2.3383	2.3398	2.3413
2.3428	2.3444	2.3459	2.3474	2.3489	2.3504	2.3519
2.3534	2.3549	2.3563	2.3578	2.3593	2.3608	2.3622
2.3637	2.3652	2.3666	2.3681	2.3695	2.3710	2.3724
2.3739	2.3753	2.3767	2.3782	2.3796	2.3810	2.3824
2.3839	2.3853	2.3867	2.3881	2.3895	2.3909	2.3923
2.3937	2.3951	2.3965	2.3978	2.3992	2.4006	2.4020
2.4033	2.4047	2.4061	2.4074	2.4088	2.4101	2.4115
2.4128	2.4142	2.4155	2.4168	2.4182	2.4195	2.4208
2.4222	2.4235	2.4248	2.4261	2.4274	2.4287	2.4300
2.4314	2.4327	2.4340	2.4352	2.4365	2.4378	2.4391
2.4404	2.4417	2.4430	2.4442	2.4455	2.4468	2.4480
2.4493	2.4506	2.4518	2.4531	2.4543	2.4556	2.4568
2.4581	2.4593	2.4606	2.4618	2.4630	2.4643	2.4655
2.4667	2.4680	2.4692	2.4704	2.4716	2.4728	2.4740
2.4753	2.4765	2.4777	2.4789	2.4801	2.4813	2.4825
2.4837	2.4849	2.4860	2.4872	2.4884	2.4896	2.4908
2.4919	2.4931	2.4943	2.4955	2.4966	2.4978	2.4990
2.5001	2.5013	2.5024	2.5036	2.5047	2.5059	2.5070
2.5082	2.5093	2.5105	2.5116	2.5127	2.5139	2.5150
2.5161	2.5172	2.5184	2.5195	2.5206	2.5217	2.5229
2.5240	2.5251	2.5262	2.5273	2.5284	2.5295	2.5306
2.5317	2.5328	2.5339	2.5350	2.5361	2.5372	2.5383
2.5394	2.5404	2.5415	2.5426	2.5437	2.5448	2.5458
2.5469	2.5480	2.5490	2.5501	2.5512	2.5522	2.5533
2.5544	2.5554	2.5565	2.5575	2.5586	2.5596	2.5607
2.5617	2.5628	2.5638	2.5649	2.5659	2.5669	2.5680
2.5690	2.5700	2.5711	2.5721	2.5731	2.5741	2.5752
2.5762	2.5772	2.5782	2.5792	2.5803	2.5813	2.5823
2.5833	2.5843	2.5853	2.5863	2.5873	2.5883	2.5893
2.5903	2.5913	2.5923	2.5933	2.5943	2.5953	2.5963
2.5973	2.5982	2.5992	2.6002	2.6012	2.6022	2.6031
2.6041	2.6051	2.6061	2.6070	2.6080	2.6090	2.6099
2.6109	2.6119	2.6128	2.6138	2.6148	2.6157	2.6167
2.6176	2.6186	2.6195	2.6205	2.6214	2.6224	2.6233
2.6243	2.6252	2.6261	2.6271	2.6280	2.6290	2.6299
2.6308	2.6318	2.6327	2.6336	2.6346	2.6355	2.6364
2.6373	2.6383	2.6392	2.6401	2.6410	2.6419	2.6428
2.6438	2.6447	2.6456	2.6465	2.6474	2.6483	2.6492
2.6501	2.6510	2.6519	2.6528	2.6537	2.6546	2.6555
2.6564	2.6573	2.6582	2.6591	2.6600		

```
*S
**** BASIN 1 ****
*S          The following uses entire park as one basin
*S
COMPUTE LT TP        LCODE=1  UPLAND/LAG TIME METHOD
                     NK=1   ISLOPE=-1
                     LENGTH=515 FT    SLOPE=.027  K=0.7
```


Tc AND Tp COMPUTED BY UPLAND/LAG TIME PROCEDURE

SCS UPLAND METHOD FACTORS

NOTE: Upland factor input values have been adjusted to meet Upland/Lag Time requirements.

	LENGTH (FT)	SLOPE (FT/FT)	COMPOSITE K
SHEET FLOW PORTION	400.0	.027000	.7000
SHALLOW FLOW PORTION	115.0	.027000	2.0000
CHANNEL FLOW PORTION	.0	.000000	.0000
TOTAL BASIN	515.0	.027000	.8189

TIME OF CONCENTRATION (HRS)= .1063 TIME TO PEAK (HRS)= .0709 LAG TIME (HRS)= .0797

TIME TO PEAK COMPUTED TO BE LESS THAN 0.133333 HOUR MINIMUM VALUE.
REVISED VALUES: TIME OF CONCENTRATION (HRS)= .2000 TIME TO PEAK (HRS)= .1333 LAG TIME (HRS)= .1500

COMPUTE NM HYD ID=1 HYD NO=1 DA=0.003156262625 SQ MI
PER A=.57 PER B=.20 PER C=.09 PER D=.14
TP=0.0 MASSRAIN=-1
TIME TO PEAK (hrs)= .1333

K = .072666HR TP = .133333HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 1.7470 CFS UNIT VOLUME = .9927 B = 526.28 P60 = 1.8700
AREA = .000443 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

K = .150068HR TP = .133333HR K/TP RATIO = 1.125510 SHAPE CONSTANT, N = 3.143815
UNIT PEAK = 5.9816 CFS UNIT VOLUME = .9973 B = 293.34 P60 = 1.8700
AREA = .002719 SQ MI IA = .58372 INCHES INF = 1.48442 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

PRINT HYD ID=1 CODE=1

OUTFLOW HYDROGRAPH REACH 1.00

RUNOFF VOLUME = .79482 INCHES = .1340 ACRE-FEET
PEAK DISCHARGE RATE = 3.96 CFS AT 1.500 HOURS BASIN AREA = .0032 SQ. MI.

*S Pond for basin ,xerascaped area 250 ft x 11 ft +/-
ROUTE RESERVOIR ID=2 HYD=1 INFLOW ID=1 CODE=10

OUTFLOW (CFS)	STORAGE (AC FT)	ELEVATION (FT)
0.01	0.0001	0.01
0.16	0.0032	0.10

0.47	0.0095	0.20
0.86	0.0158	0.30
1.32	0.0221	0.40
1.86	0.0284	0.50
2.44	0.0347	0.60
3.08	0.0410	0.70
3.76	0.0473	0.80
4.48	0.0537	0.90
5.25	0.0600	1.00

* * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	.00	.000	.00
.50	.00	.01	.000	.01
1.00	.00	.01	.000	.01
1.50	3.96	.44	.025	1.53
2.00	.55	.33	.018	1.01
2.50	.11	.14	.006	.28
3.00	.04	.06	.002	.09
3.50	.02	.02	.001	.03
4.00	.01	.01	.000	.01
4.50	.01	.01	.000	.01
5.00	.01	.01	.000	.01
5.50	.01	.01	.000	.01
6.00	.01	.01	.000	.01
6.50	.01	.01	.000	.01
7.00	.01	.01	.000	.01
7.50	.01	.01	.000	.01
8.00	.01	.01	.000	.01
8.50	.01	.01	.000	.01
9.00	.01	.01	.000	.01
9.50	.01	.01	.000	.01
10.00	.01	.01	.000	.01
10.50	.01	.01	.000	.01
11.00	.01	.01	.000	.01
11.50	.01	.01	.000	.01
12.00	.01	.01	.000	.01
12.50	.01	.01	.000	.01
13.00	.01	.01	.000	.01
13.50	.01	.01	.000	.01
14.00	.01	.01	.000	.01
14.50	.01	.01	.000	.01
15.00	.01	.01	.000	.01
15.50	.01	.01	.000	.01
16.00	.01	.01	.000	.01
16.50	.01	.01	.000	.01
17.00	.01	.01	.000	.01
17.50	.01	.01	.000	.01
18.00	.01	.01	.000	.01
18.50	.01	.01	.000	.01
19.00	.01	.01	.000	.01
19.50	.01	.01	.000	.01
20.00	.01	.01	.000	.01
20.50	.01	.01	.000	.01
21.00	.01	.01	.000	.01

21.50	.01	.01	.000	.01
22.00	.01	.01	.000	.01
22.50	.01	.01	.000	.01
23.00	.01	.01	.000	.01
23.50	.01	.01	.000	.01
24.00	.01	.01	.000	.01
24.50	.00	.01	.000	.01
25.00	.00	.01	.000	.01
25.50	.00	.01	.000	.01
26.00	.00	.01	.000	.01
26.50	.00	.01	.000	.01
27.00	.00	.01	.000	.01
27.50	.00	.01	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
28.00	.00	.01	.000	.01
28.50	.00	.01	.000	.01
29.00	.00	.01	.000	.01
29.50	.00	.01	.000	.01

PEAK DISCHARGE = 2.630 CFS - PEAK OCCURS AT HOUR 1.65
MAXIMUM WATER SURFACE ELEVATION = .630
MAXIMUM STORAGE = .0366 AC-FT INCREMENTAL TIME= .050000HRS

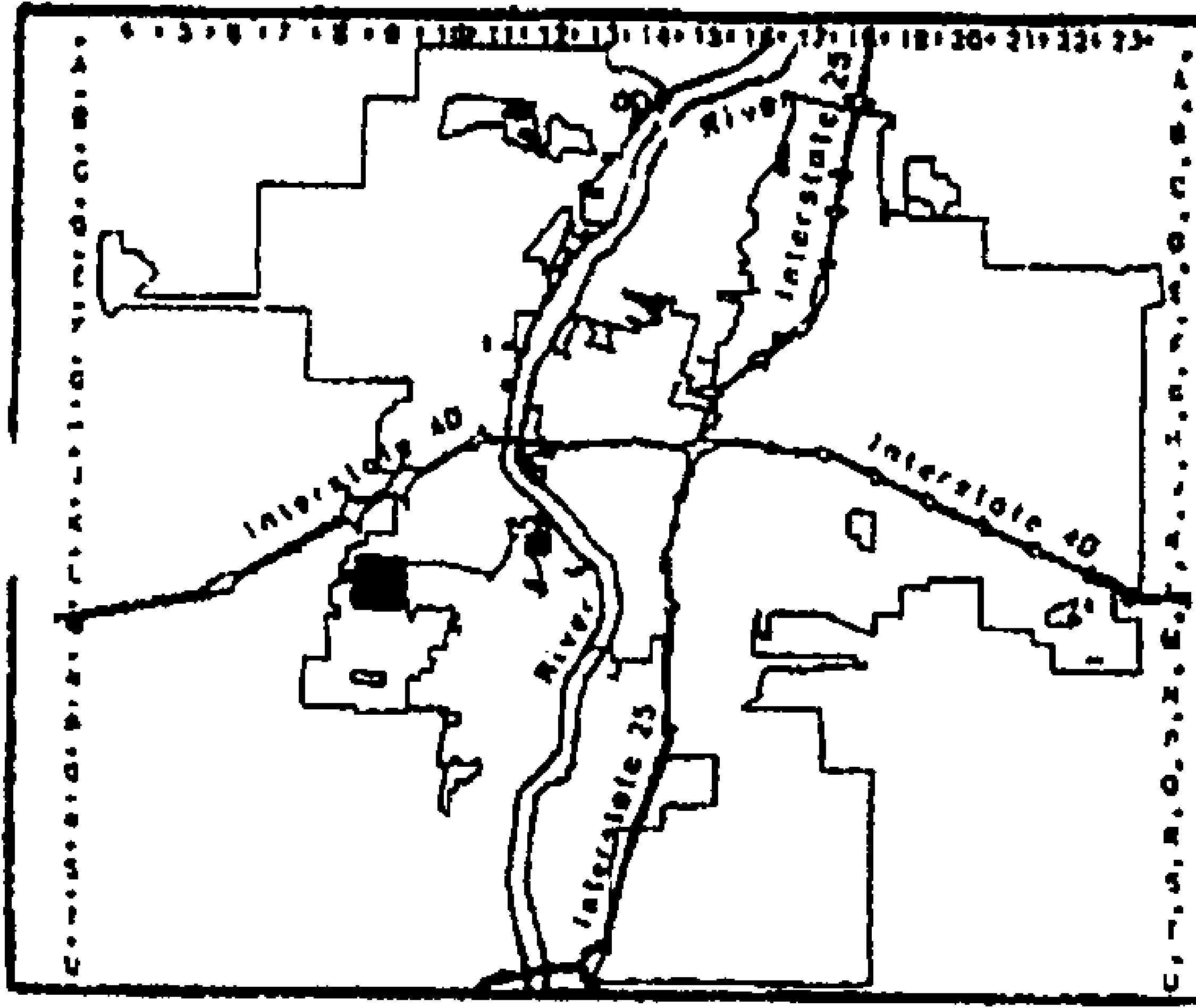
*S
PRINT HYD ID=2 CODE=1

OUTFLOW HYDROGRAPH REACH 1.00

RUNOFF VOLUME = .85385 INCHES = .1440 ACRE-FEET
PEAK DISCHARGE RATE = 2.63 CFS AT 1.650 HOURS BASIN AREA = .0032 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 09:43:53



North

750 375 0 750

Scale 1" = 750'

Albuquerque Geographic Information System

City of Albuquerque

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LEGAL DESCRIPTION

T10N

R2E

SEC 28

UNIFORM PROPERTY CODE

1-009-056

L-9-Z

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority

2600 PROSPECT N.E. - ALBUQUERQUE, N. M. 87107
TELEPHONE (505) 884-2215

August 24, 1999

Rick Devine, P.E.
Smith Engineering Company
1316 Jackie Road
Suite 850
Rio Rancho, NM 87124

RE: SUNRISE TERRACE UNIT 5 PARK (ZAP L-9).

Dear Mr. Divine:

Based on the information provided on your August 1999 submittal, AMAFCA has the following comments:

1. Please date the engineer's seal

2. What is the volume of the proposed pond? Provide calculations. It is not clear to me exactly where and how large the pond is. What is the capacity of your rundown? Are you letting more flow through the rundown than allowed? The contractor may have a difficult time constructing the pond.

3. Is the pedestrian bridge existing or proposed? Is there an existing side inlet to the Snow Vista Channel adjacent to the park site?

4. Where is the maintenance road? Where is the bike trail? I believe both sides of the channel require access (vehicle or bicycle). If this is the case, you will need to modify your rundown.

5. For maintenance reasons, increase the size of the rundown to 4 feet in AMAFCA's right-of-way. You can "choke" the flow to the allowable 2.0 cfs while in the City's right-of-way.

If I can be of further assistance, please call me at 884-2215

Sincerely,
AMAFCA

Lisa Ann Manwill, P.E.
Development Review Engineer

c: File
Susan Calongne, P.E. - COA

City of Albuquerque

September 9, 1999

Richard J. Devine, P.E.
Smith Engineering Company
1316 Jackie Road
Rio Rancho, New Mexico 87124

RE: Grading and Drainage Plan for Sunrise Terrace Unit 5 Park Site (L9/D22) Submitted for Building Permit and Grading Permit Approval, Submittal Received on 8/10/99.

Dear Mr. Devine:

Prior to approval of the above referenced plan for Building or Grading Permit release, the following comments must be addressed:

1. The engineer's Stamp must be signed and dated.

2. Use the City Zone atlas map as the vicinity map. The site shown on the vicinity map does not match the site on the grading plan. The grading plan must address the entire site.

3. Please reference the Master Drainage plan for the area, not the Sunrise Meadows Subdivision, to verify the allowable release rate from this site into the Snow Vista Channel.

4. With respect to the land treatments, the portion of Basin A that has been graded cannot be considered as treatment A. The plan shows existing drainage and utility easements crossing Basins B and C. Please verify that these areas have not been disturbed.

5. What is the purpose for the drainage easements shown on the site? Are existing drainage facilities located within these easements? If so, show them. Or, are these easements to be vacated?

6. The pond appears to be designed to release 3 cfs using a one foot depth, however the plan states that only 2 cfs is allowed to discharge into the channel. Please clarify how the discharge rate will be restricted. It may be better to use a storm drain pipe to control the release rate.

7. Provide the pond details and show the 100-year water surface level of the pond on the plan. Provide pond volume calculations. It appears that a portion of the pond is located within AMAFCA's right-of-way. AMAFCA approval is required for work within their property. Will AMAFCA or the City maintain this pond? If this is to be City maintained, then it must be constructed to City standards.

8. The existing street grades adjacent to this site must be provided on the plan. Also provide existing elevations (spot elevations or label contours) around the perimeter of this site, especially within AMAFCA's right-of-way.

9. The plan is not clear regarding what is existing and what is proposed. This must be clarified.

10. Please address AMAFCA's comments.

If you have any questions regarding these comments, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

C: Sue Mortier, Consensus Planning
File

Smith Engineering Company

A Full Service Engineering Company

August 5 , 1999

City of Albuquerque, Hydrology Division
Building Services Center, Public Works Department
2nd Floor West
600 2nd Street NW
Albuquerque, NM 87102
Attention: Hydrology Division

Re: Grading and Drainage Submittals for: Sunrise Terrace Unit 5 Park Site.

To whom it may concern:

Attached , please find the grading and drainage plans, the hydrology calculations sheet along with the horizontal geometry sheet for the above referenced City of Albuquerque Park Site. Also attached, please find Zone Atlas Page B-9-Z for park location and the Drainage Information Sheet.

Smith Engineering Company is working as a sub-consultant to Consensus Planning the landscape architects on the project. The entire set of plans will be submitted by Consensus Planning to the DRC following your review. Because this park site affects an AMAFCA facility, we are also submitting plans to them as well for their comments.

If you require additional information at this time please let met know. You can contact me at 994-1902.

Sincerely,

Smith Engineering Company

Rick Devine, PE

RECEIVED
AUG 10 1999
HYDROLOGY SECTION

1316 Jackie Road, Suite 850 Rio Rancho, New Mexico 87124 Telephone 505/994-1902 Fax 505/994-1921
E-mail SECRR@worlnet.att.net

DRAINAGE INFORMATION SHEET

APPLICANT'S NAME: City of Albuquerque Capital Implementation Program ZONE ATLAS/DRNG. FILE # L-9-D022

DRB #_____ EPC #_____ WORK ORDER #_____

LEGAL DESCRIPTION Sunrise Terrace Unit Five Park Site

CITY ADDRESS: _____

ENGINEERING FIRM: Smith Engineering Company CONTACT: Rick Devine

ADDRESS: 1316 Jackie Road, Rio Rancho, NM 87124 PHONE: (505) 994-1902

ARCHITECT: Consensus Planning CONTACT: Sue Mortier

ADDRESS: 924 Park Ave. SW Albuquerque, NM 87102 PHONE: (505)764-9801

SURVEYOR:_____ CONTACT:_____

ADDRESS:_____ PHONE:_____

CONTRACTOR: _____ CONTACT: _____

ADDRESS:_____ PHONE:_____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☒ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER_____

PRE-DESIGN MEETING:

- ☐_____ YES
- ☐_____ NO
- ☐_____ COPY PROVIDED

DATE SUBMITTED: 8/4/99

BY: Rick Devine

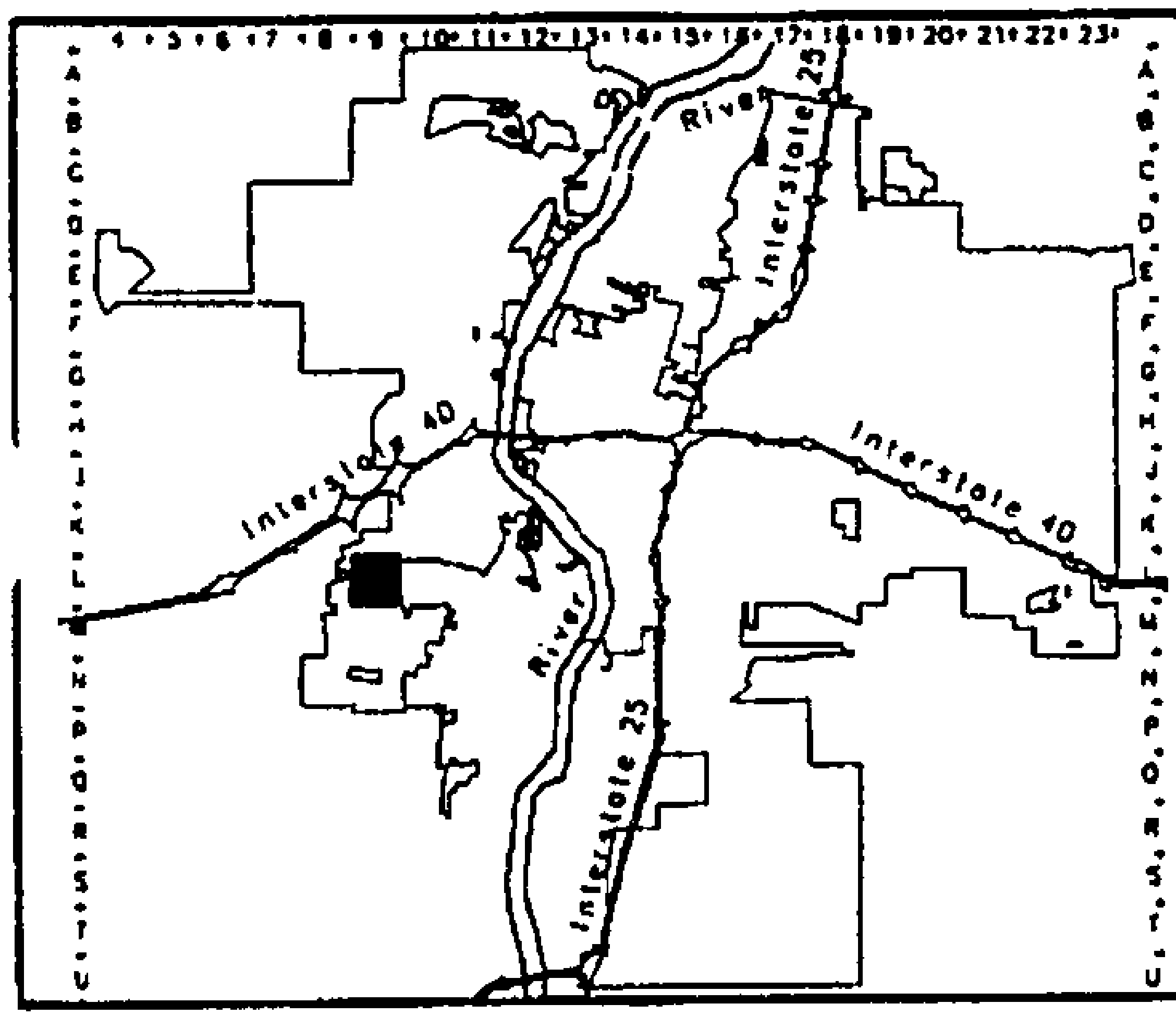
Revised 02/90

CHECK TYPE OF APPROVAL SOUGHT

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☒ DRAINAGE REQUIREMENTS
- ☐ SUBDIVISION CERTIFICATION
- ☐ OTHER _____ (SPECIFY)

RECEIVED
AUG 10 1999
HYDROLOGY SECTION

36 F/F



North

750 375 0 750
Scale: 1" = 750'

Albuquerque Geographic Information System
City of Albuquerque

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