



May 15, 1998

Ronald Bohannon, P.E.
Tierra West, LLC
4421 McLeod Road NE, Suite D
Albuquerque, NM 87109

**RE: TAYLOR RANCH SOCCER FIELD (E12-D13). GRADING AND DRAINAGE
PLAN FOR PRELIMINARY & FINAL PLAT AND GRADING PERMIT
APPROVAL. ENGINEER'S STAMP DATED APRIL 20, 1998.**

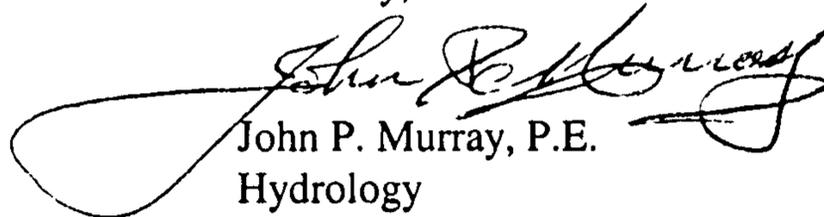
Dear Mr. Bohannon:

Based on the information provided on your April 21, 1998 submittal, the above referenced project is approved for Grading Permit. Preliminary and Final Plats were approved by other action.

Please furnish the Parks Department a copy of this submittal for Final Approval.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: Parks Dept.
Andrew Garcia
✓ File

Good for You, Albuquerque!



E12/D13

857-863A
Ron McNary

5/22
3 PM

DRAINAGE REPORT

for

Taylor Ranch Soccer Field

Prepared by

Tierra West, LLC
4421 McLeod Road NE, Suite D
Albuquerque, New Mexico 87109

Prepared for

Argus Development Inc.
6400 Uptown Blvd, Suite 200-W
Albuquerque, New Mexico 87110

January 1998

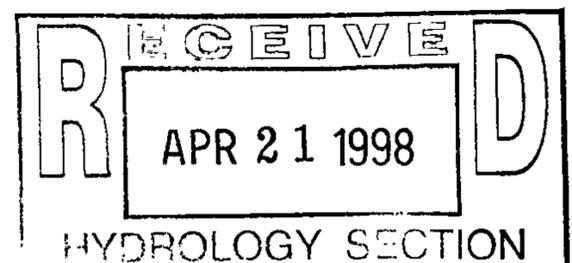
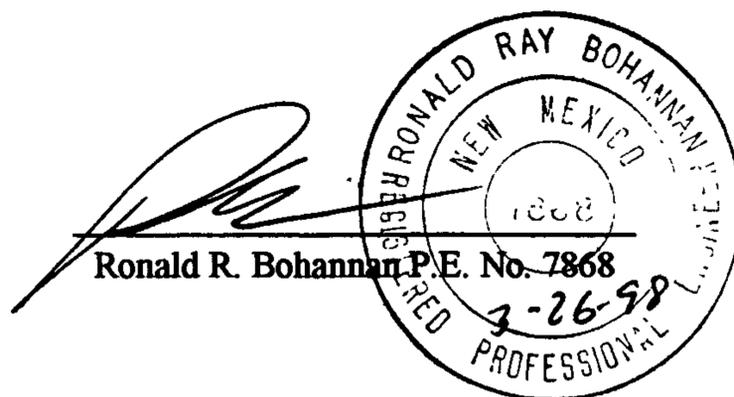


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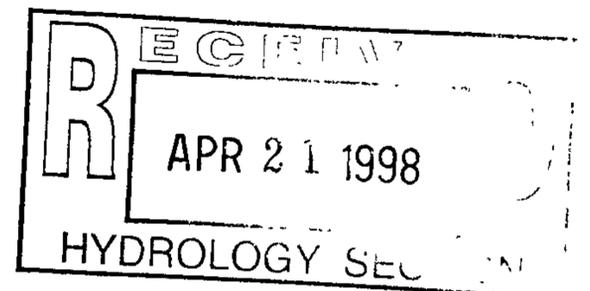
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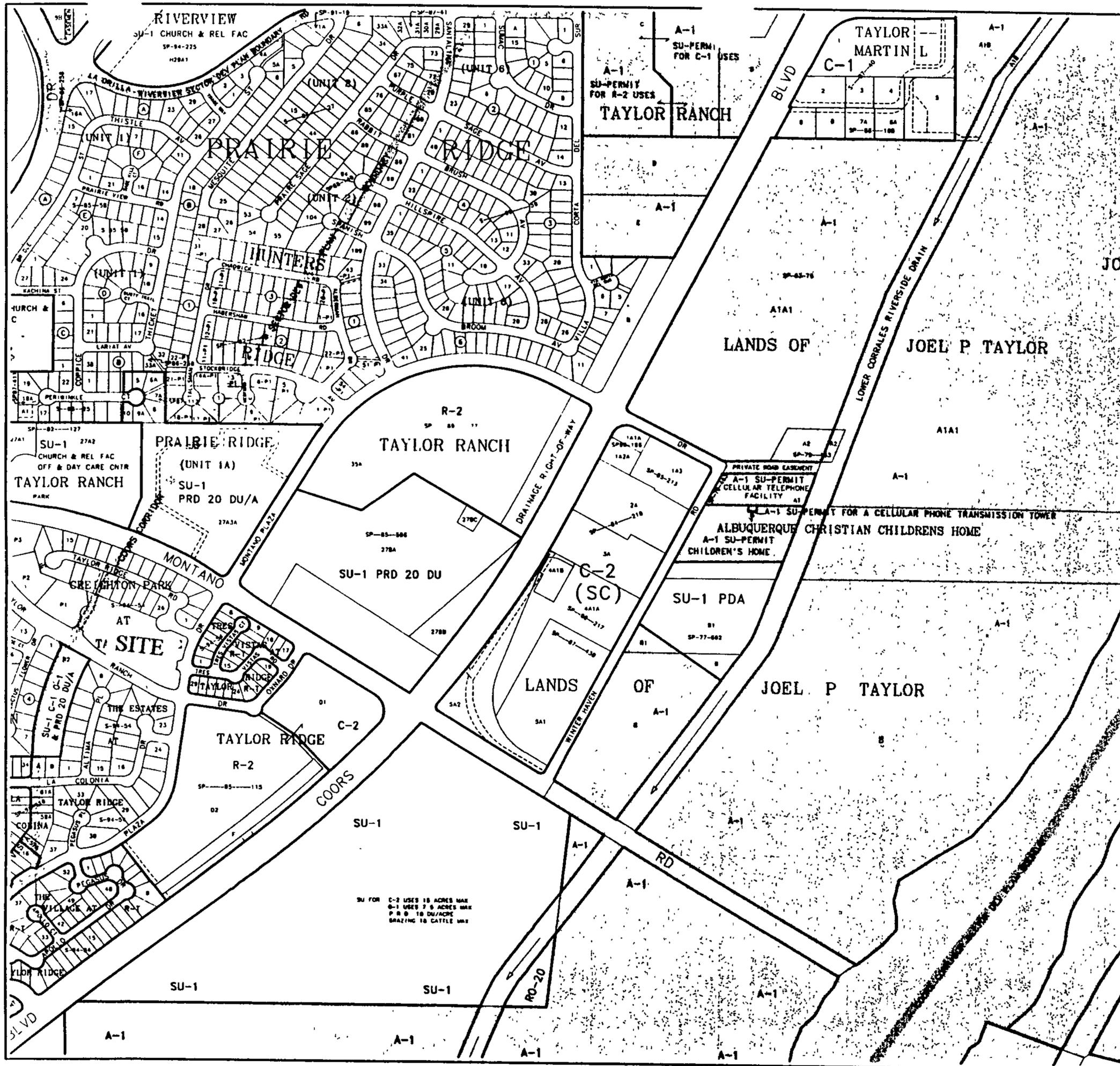
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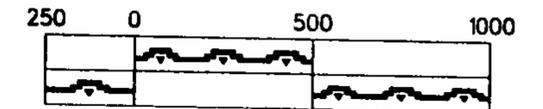
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No page numbers in report.



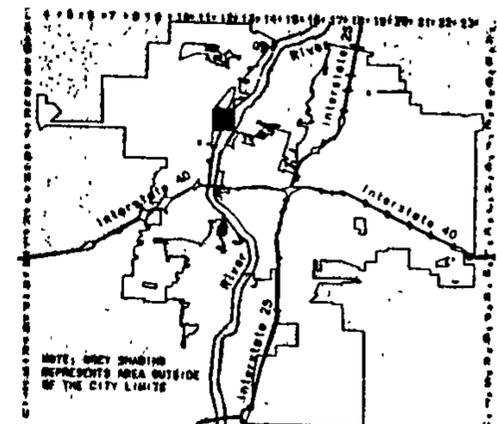


GRAPHIC SCALE IN FEET



CITY OF Albuquerque
Albuquerque Geographic Information System
PLANNING DEPARTMENT
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Map Amended through February 14, 1997



NOTE: GREY SHADING REPRESENTS AREA OUTSIDE OF THE CITY LIMITS

LEGAL DESCRIPTION
 T11N
 R2E
 SEC 28

UNIFORM PROPERTY CODE
 1-012-082

E-12-Z

Location

The site is a proposed City park that will contain several parking lots, a soccer field, and tennis courts. The site is located at the southeast corner of Montano Road and Taylor Ranch Drive on the west side of the City. The site is shown on the attached Zone Atlas Map E-12 and contains approximately 6.51 acres. The legal description is identified as Tracts A1, P1, P2, P3 Creighton Park at Taylor Ridge. The purpose of this report is to provide the drainage analysis and management plan for the park development.

Existing Drainage Conditions

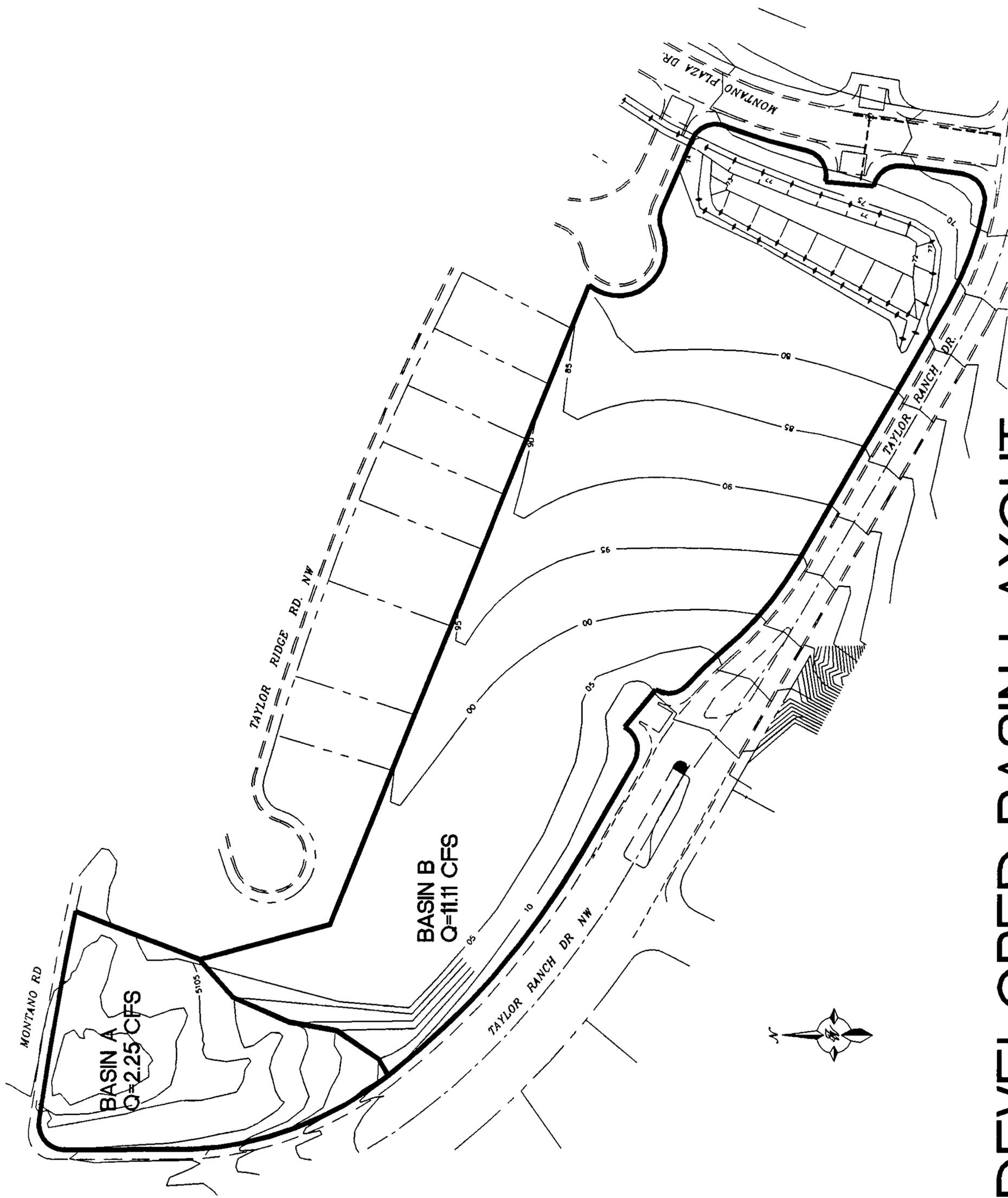
The site is currently undeveloped and contains two existing undeveloped basins on the site. Shown on Map 1 is the undeveloped basin layout and the two basins have been labeled A and B. Existing Basin A has an undeveloped runoff flow of 2.25 cfs and sheet flows north towards Montano Rd. Basin B has an undeveloped runoff flow of 11.11 cfs and sheet flows east to Montano Plaza Drive. There is an existing desilting located on the east side of the site. The undeveloped flows from Basin B sheet flow to the desilting pond and a pipe conveys the flows into an existing storm sewer in Montano Plaza Drive.

There are no offsite flows entering the site. Flows from the east, west and south are captured by the adjacent streets. Flows from the north are intercepted by an existing subdivision and routed away from the site.

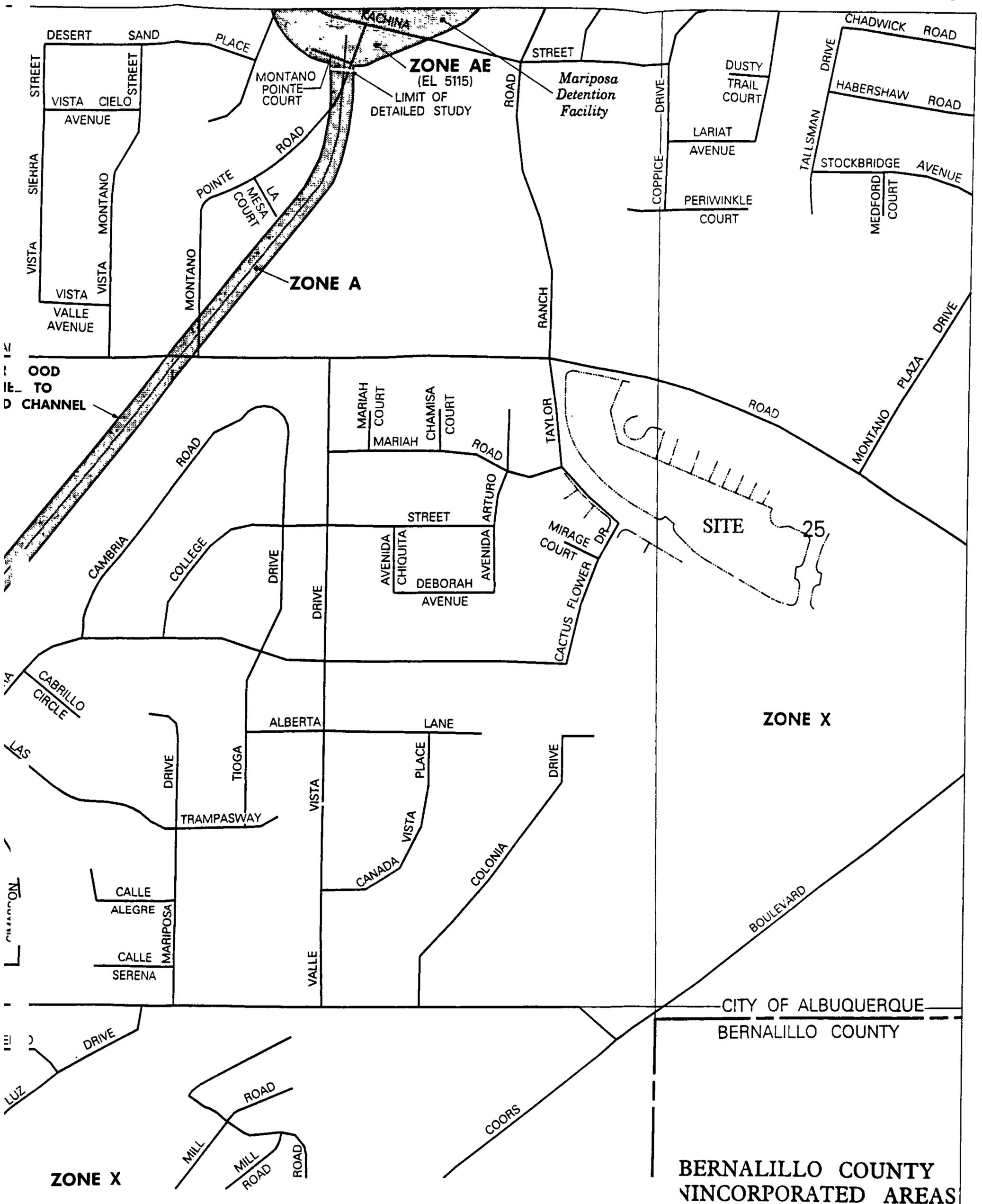
FIRM Map and Soil Conditions

The site is located on FIRM Map section 35001C0114 D as shown on the attached excerpt. The map shows the site does not lie within any 100 year flood plains.

The site contains one soil type from the Soil Conservation Service Soil Survey of Bernalillo County. The Bluepoint-Kokan association has rapid permeability, slow runoff and



UNDEVELOPED BASIN LAYOUT



FIRM MAP 35001C0114 D

BERNALILLO COUNTY
UNINCORPORATED AREAS
350001

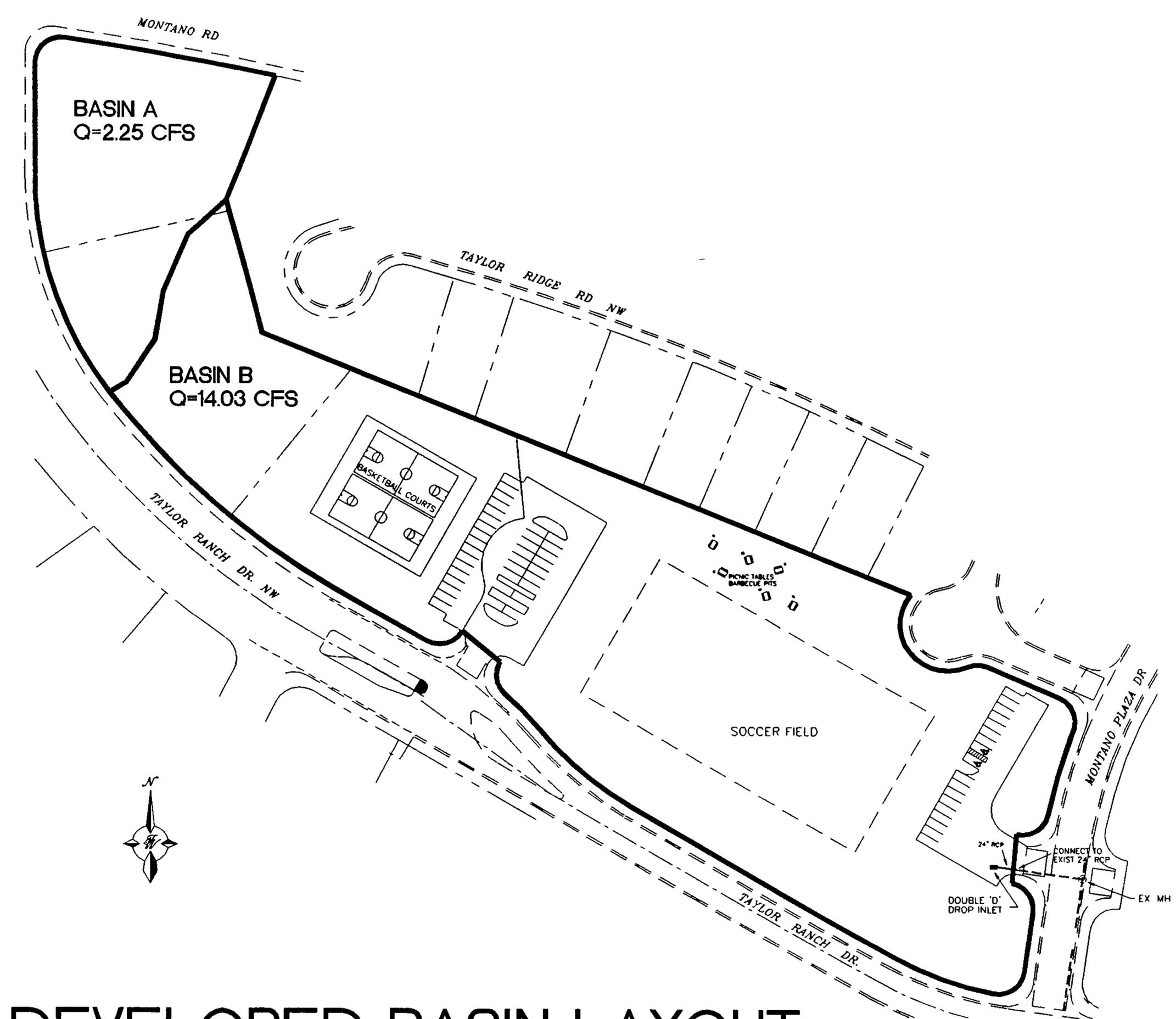
the hazard of water erosion is moderate to severe.

On Site Drainage Management Plan

The developed park has two proposed developed basins. Basin A with a flow of 2.25 consists of the northern part of the site. No improvements are planned for this portion at this time and it will continue to flow north towards Montano Road. Basin B with a developed discharge of 14.03 will flow east to Montano Plaza Drive. The site will be graded so this basin will convey the developed flow to the southeast and an existing storm sewer in Montano Plaza Drive. The discharge will sheet flow to a swale on the north side of the site. The swale will flow southeast to a new park parking lot at the east side of the site where a double 'D' drop inlet in the parking lot will collect all of the developed flows.

The area was analyzed under E12/D8 prepared by Isaacson & Arfman, P.A in 1994. The previous report assumed undeveloped conditions for Tracts P1, P2, and P3, while Tract A1 was analyzed using developed conditions. An existing drainage easement covers all of Tract A-1. The purpose of the easement was to control the runoff from the undeveloped site. With the replatting of the four lots into one lot we are requesting removing the drainage easement from Tract A-1.

The report allows the flows from the four tracts to be collected in the storm drain and conveyed to a central detention facility to the east. A 24" RCP stub from the existing 24" storm sewer in Montano Plaza Drive extends into the site at the east driveway. The new drop inlet in the park parking lot will convey a total developed discharge of 14.03 cfs to the existing stub and then to the storm sewer in Montano Plaza Drive. Per the report and checking the capacity from the as-builts, the storm sewer has capacity for 17.5 cfs from the site. The site will discharge 14.03 cfs which is less than the allowable discharge of 17.5 cfs. The storm



DEVELOPED BASIN LAYOUT

sewer in Montano Plaza Drive drains south to Taylor Ranch Drive where the flows are carried east to the pond. In the case of an event larger than the 100 year storm the flows from the site will overflow through the east driveway acting as an emergency spillway and into Taylor Ranch Drive.

Summary

We are proposing to develop a new City park which has two proposed developed basins. Basin A with a runoff rate of 2.25 cfs, will not be developed at this time and will continue its existing drainage patterns. The on-site developed Basin B will have a runoff rate of 14.03 cfs. This basin will sheet flow to a swale on the north side of the site and be conveyed east to the parking lot on the east side of the lot. A double 'D' inlet in the parking lot will capture the developed flow and convey the flow to a new 24" RCP pipe. The new pipe will connect to an existing 24" stub from the storm sewer in Montano Plaza Drive. The developed runoff rate of 14.03 cfs is less than the allowable discharge of 17.5 cfs from the approved report and the capacity of the storm drain.

Further, we are requesting the drainage easement to be removed from the replat. All of the improvements, other than grading for the conveyance of the storm water, are in existence and therefore the site does not require an infrastructure list.

Runoff Calculations

RUNOFF CALCULATIONS

The site is @ Zone 1

LAND TREATMENT

Proposed

B = 77%

D = 23 %

Existing

B = 100%

DEPTH (INCHES) @ 100-YEAR STORM

$P_{60} = 1.87$ inches

$P_{360} = 2.20$ inches

$P_{1440} = 2.66$ inches

DEPTH (INCHES) @ 10-YEAR STORM

$P_{60} = 1.87 \times 0.667$
 $= 1.25$ inches

$P_{360} = 1.47$

$P_{1440} = 1.77$

See the summary output from AHYMO calculations.

Also see the following summary tables.

DRAINAGE BASINS

Existing

BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)
A	47623.88	1.0933	0.001708
B	236002.57	5.4179	0.008465

Proposed

BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)
A	47623.88	1.0933	0.001708
B	236002.57	5.4179	0.008465
N. Parking Area	19958.95	0.4582	0.000716

RUNOFF CALCULATION RESULTS

Existing

BASIN	Q-100 CFS	Q-10 CFS	V-100 AC-FT	V-10 AC-FT
A	2.25	0.84	0.061	0.020
B	11.11	4.16	0.302	0.101

Proposed

BASIN	Q-100 CFS	Q-10 CFS	V-100 AC-FT	V-10 AC-FT
A	2.84	1.37	0.088	0.042
B	14.03	6.77	0.436	0.206
N. Parking Area	2.02	1.34	0.075	0.047

Storm Sewer

STORM DRAIN INLET
EFFECTIVE AREA ASSUMING A 50% CLOGGING FACTOR

DOUBLE 'D':

Area at the grate:

$$\begin{aligned} L &= 76.75" - 14 (1/2" \text{ middle bars}) - 6" \text{ center piece} \\ &= 63.75" \\ &= 5.3125' \end{aligned}$$

$$\begin{aligned} W &= 25.5" - 13 (1/2 \text{ middle bars}) \\ &= 19" \\ &= 1.583' \end{aligned}$$

$$\begin{aligned} \text{Area} &= 1.583' \times 5.3125' \\ &= 8.410 \text{ ft}^2 \end{aligned}$$

$$\begin{aligned} \text{Effective Area} &= 8.410 - .5 (8.410) \\ &= 4.205 \text{ ft}^2 \end{aligned}$$

DROP INLET HEAD CAPACITY

Orifice Equation:

$$Q = CA\sqrt{2gH}$$

Head Capacity of Grate:

Q = Flow (cfs)

C = 0.60

A = Area of drop inlet grate (ft²)

g = 32.2

H = Height of water above drop inlet (ft)

$$H = \frac{\left(\frac{Q}{C \cdot A}\right)^2}{2g}$$
$$H = \frac{\left(\frac{14.03}{0.6 \cdot 6.80}\right)^2}{2 \cdot 32.2}$$

H = 0.18 feet

Allowable depth = 0.71 feet

Required depth = 0.18 feet

0.18 feet < 0.71 feet

Head Capacity of Pipe:

A = Area of pipe (ft²)

H = Height of water above center of pipe (ft)

$$H = \frac{\left(\frac{Q}{C \cdot A}\right)^2}{2g}$$
$$H = \frac{\left(\frac{14.03}{0.6 \cdot 3.14}\right)^2}{2 \cdot 32.2}$$

H = 0.86 ft

Allowable depth = 4.0 feet

Required depth = 0.86 ft + 1 ft (half of pipe) = 1.86 ft

1.86 ft < 4.00 feet

Emergency Spillway

Weir Equation:

$$Q = CLH^{3/2}$$

Q = Flow (cfs)

C = 2.95

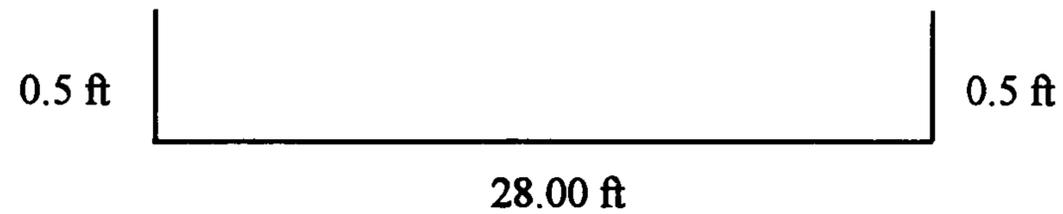
H = 0.5 ft

L = 28 ft

$$Q = 2.95 * 28 * (0.5)^{3/2}$$

Q = 29.20 cfs

29.20 cfs > 14.03 cfs



Pond Calculations

VOLUME CALCULATIONS

DETENTION POND

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

$$\text{Volume} = \text{Ab} * \text{D} + 0.5 * \text{C} * \text{D}^2$$

$$\text{C} = (\text{At} - \text{Ab}) / \text{Dt}$$

$$\text{Ab} = 13.59$$

$$\text{At} = 3,594.07$$

$$\text{Dt} = 0.71$$

$$\text{C} = 5042.93$$

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
65.52	0	0	0.0000
69.52	4	0.0012	26.2002
69.62	4.1	0.0019	26.6333
69.72	4.2	0.0036	27.0595
69.82	4.3	0.0066	27.4790
69.92	4.4	0.0106	27.8922
70.02	4.5	0.0159	28.2995
70.12	4.6	0.0223	28.7009
70.22	4.7	0.0298	29.0968
70.23	4.71	0.0306	29.1361

Orifice Equation

$$Q = \text{CA} \text{SQRT}(2gH)$$

$$\text{C} = 0.6$$

$$\text{Diameter (in)} = 24$$

$$\text{Area (ft}^2\text{)} = 3.141593$$

$$g = 32.2$$

$$\text{H (Ft)} = \text{Depth of water above center of orifice}$$

$$\text{Q (CFS)} = \text{Flow}$$

 * TAYLOR RANCH SOCCER FIELD *

 * 100-YEAR, 24-HR STORM (PONDING CALCULATIONS) *

START TIME=0.0

* ROUTE 1
 *
 * BASIN B
 *

RAINFALL TYPE=2 RAIN QUARTER=0.0 IN
 RAIN ONE=1.87 IN RAIN SIX=2.20 IN
 RAIN DAY=2.66 IN DT=0.03333 HR
 COMPUTE NM HYD ID=1 HYD NO=101.B AREA=0.008465 SQ MI
 PER A=0.00 PER B=77.00 PER C=0.00 PER D=23.00
 TP=-0.1333 HR MASS RAINFALL=-1

* BASIN 1 PONDING
 *

ROUTE RESERVOIR ID=2 HYD NO=501.1 INFLOW ID=1 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.0000	0.0000	65.52
26.2002	0.0012	69.52
26.6333	0.0019	69.62
27.0595	0.0036	69.72
27.4790	0.0066	69.82
27.8922	0.0106	69.92
28.2995	0.0159	70.02
28.7009	0.0223	70.12
29.0968	0.0298	70.22
29.1361	0.0306	70.23

*
 *
 FINISH

2.2947	2.2958	2.2969	2.2980	2.2991	2.3002	2.3013
2.3024	2.3035	2.3046	2.3057	2.3067	2.3078	2.3089
2.3100	2.3110	2.3121	2.3132	2.3142	2.3153	2.3164
2.3174	2.3185	2.3195	2.3206	2.3216	2.3227	2.3237
2.3248	2.3258	2.3269	2.3279	2.3290	2.3300	2.3310
2.3321	2.3331	2.3341	2.3352	2.3362	2.3372	2.3382
2.3392	2.3403	2.3413	2.3423	2.3433	2.3443	2.3453
2.3463	2.3473	2.3483	2.3493	2.3503	2.3513	2.3523
2.3533	2.3543	2.3553	2.3563	2.3573	2.3583	2.3593
2.3603	2.3612	2.3622	2.3632	2.3642	2.3651	2.3661
2.3671	2.3681	2.3690	2.3700	2.3710	2.3719	2.3729
2.3738	2.3748	2.3758	2.3767	2.3777	2.3786	2.3796
2.3805	2.3815	2.3824	2.3834	2.3843	2.3852	2.3862
2.3871	2.3881	2.3890	2.3899	2.3909	2.3918	2.3927
2.3936	2.3946	2.3955	2.3964	2.3973	2.3983	2.3992
2.4001	2.4010	2.4019	2.4028	2.4038	2.4047	2.4056
2.4065	2.4074	2.4083	2.4092	2.4101	2.4110	2.4119
2.4128	2.4137	2.4146	2.4155	2.4164	2.4173	2.4181
2.4190	2.4199	2.4208	2.4217	2.4226	2.4234	2.4243
2.4252	2.4261	2.4270	2.4278	2.4287	2.4296	2.4304
2.4313	2.4322	2.4331	2.4339	2.4348	2.4356	2.4365
2.4374	2.4382	2.4391	2.4399	2.4408	2.4416	2.4425
2.4434	2.4442	2.4450	2.4459	2.4467	2.4476	2.4484
2.4493	2.4501	2.4510	2.4518	2.4526	2.4535	2.4543
2.4551	2.4560	2.4568	2.4576	2.4585	2.4593	2.4601
2.4609	2.4618	2.4626	2.4634	2.4642	2.4651	2.4659
2.4667	2.4675	2.4683	2.4691	2.4700	2.4708	2.4716
2.4724	2.4732	2.4740	2.4748	2.4756	2.4764	2.4772
2.4780	2.4788	2.4796	2.4804	2.4812	2.4820	2.4828
2.4836	2.4844	2.4852	2.4860	2.4868	2.4876	2.4884
2.4892	2.4899	2.4907	2.4915	2.4923	2.4931	2.4939
2.4946	2.4954	2.4962	2.4970	2.4978	2.4985	2.4993
2.5001	2.5008	2.5016	2.5024	2.5032	2.5039	2.5047
2.5055	2.5062	2.5070	2.5078	2.5085	2.5093	2.5100
2.5108	2.5116	2.5123	2.5131	2.5138	2.5146	2.5153
2.5161	2.5168	2.5176	2.5183	2.5191	2.5198	2.5206
2.5213	2.5221	2.5228	2.5236	2.5243	2.5250	2.5258
2.5265	2.5273	2.5280	2.5287	2.5295	2.5302	2.5309
2.5317	2.5324	2.5331	2.5339	2.5346	2.5353	2.5361
2.5368	2.5375	2.5382	2.5390	2.5397	2.5404	2.5411
2.5418	2.5426	2.5433	2.5440	2.5447	2.5454	2.5462
2.5469	2.5476	2.5483	2.5490	2.5497	2.5504	2.5511
2.5518	2.5526	2.5533	2.5540	2.5547	2.5554	2.5561
2.5568	2.5575	2.5582	2.5589	2.5596	2.5603	2.5610
2.5617	2.5624	2.5631	2.5638	2.5645	2.5652	2.5659
2.5665	2.5672	2.5679	2.5686	2.5693	2.5700	2.5707
2.5714	2.5721	2.5727	2.5734	2.5741	2.5748	2.5755
2.5761	2.5768	2.5775	2.5782	2.5789	2.5795	2.5802
2.5809	2.5816	2.5822	2.5829	2.5836		

COMPUTE NM HYD ID=1 HYD NO=101.B AREA=0.008465 SQ MI
 PER A=0.00 PER B=77.00 PER C=0.00 PER D=23.00
 TP=-0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 7.6867 CFS UNIT VOLUME = .9978 B = 526.28 P60 = 1.8700
 AREA = .001947 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .130992HR TP = .133300HR K/TP RATIO = .982685 SHAPE CONSTANT, N = 3.593448
 UNIT PEAK = 15.994 CFS UNIT VOLUME = .9995 B = 327.09 P60 = 1.8700
 AREA = .006518 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

* BASIN 1 PONDING

*

ROUTE RESERVOIR ID=2 HYD NO=501.1 INFLOW ID=1 CODE=24

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.0000	0.0000	65.52
26.2002	0.0012	69.52
26.6333	0.0019	69.62
27.0595	0.0036	69.72
27.4790	0.0066	69.82
27.8922	0.0106	69.92
28.2995	0.0159	70.02
28.7009	0.0223	70.12
29.0968	0.0298	70.22
29.1361	0.0306	70.23

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	65.52	.000	.00
.80	.00	65.52	.000	.00
1.60	10.48	67.12	.000	10.51
2.40	.50	65.60	.000	.50
3.20	.08	65.53	.000	.08
4.00	.03	65.52	.000	.03
4.80	.03	65.52	.000	.03
5.60	.04	65.53	.000	.04
6.40	.05	65.53	.000	.05
7.20	.05	65.53	.000	.05
8.00	.04	65.53	.000	.04
8.80	.04	65.53	.000	.04
9.60	.04	65.53	.000	.04
10.40	.04	65.53	.000	.04
11.20	.04	65.53	.000	.04
12.00	.04	65.53	.000	.04
12.80	.03	65.53	.000	.03
13.60	.03	65.52	.000	.03
14.40	.03	65.52	.000	.03
15.20	.03	65.52	.000	.03
16.00	.03	65.52	.000	.03
16.80	.03	65.52	.000	.03
17.60	.03	65.52	.000	.03
18.40	.03	65.52	.000	.03
19.20	.03	65.52	.000	.03

PEAK DISCHARGE = 13.871 CFS - PEAK OCCURS AT HOUR 1.50
 MAXIMUM WATER SURFACE ELEVATION = 67.638
 MAXIMUM STORAGE = .0006 AC-FT INCREMENTAL TIME= .033330HRS

*

*

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 07:37:56

AHYMO
Runoff Input
and
Summary Output
for
Proposed and Existing
Drainage Basins

```

*****
*                TAYLOR RANCH SOCCER FIELD                *
*****
*    100-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)    *
*****
*
START            TIME=0.0
*
* BASIN A
*
RAINFALL        TYPE=1 RAIN QUARTER=0.0 IN
                RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                RAIN DAY=2.66 IN DT=0.02253 HR
COMPUTE NM HYD  ID=1 HYD NO=100.A AREA=0.001708 SQ MI
                PER A=0.00 PER B=100.00 PER C=0.00 PER D=.00
                TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD       ID=1 CODE=1
*
* BASIN B
*
COMPUTE NM HYD  ID=1 HYD NO=100.B AREA=0.008465 SQ MI
                PER A=0.00 PER B=100.00 PER C=0.00 PER D=.00
                TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD       ID=1 CODE=1
*
*
*****
*    10-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)    *
*****
*
START            TIME=0.0
*
* BASIN A
*
RAINFALL        TYPE=1 RAIN QUARTER=0.0 IN
                RAIN ONE=1.25 IN RAIN SIX=1.47 IN
                RAIN DAY=1.77 IN DT=0.02253 HR
COMPUTE NM HYD  ID=1 HYD NO=110.A AREA=0.001708 SQ MI
                PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
                TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD       ID=1 CODE=1
*
* BASIN B
*
COMPUTE NM HYD  ID=1 HYD NO=110.B AREA=0.008465 SQ MI
                PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
                TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD       ID=1 CODE=1
*
*
FINISH

```

* TAYLOR RANCH SOCCER FIELD *

* 100-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS) *

START TIME=0.0

* BASIN A

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=1.87 IN RAIN SIX=2.20 IN
RAIN DAY=2.66 IN DT=0.02253 HR
COMPUTE NM HYD ID=1 HYD NO=100.A AREA=0.001708 SQ MI
PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=1 CODE=1

* BASIN B

COMPUTE NM HYD ID=1 HYD NO=100.B AREA=0.008465 SQ MI
PER A=0.00 PER B=77.00 PER C=0.00 PER D=23.00
TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=1 CODE=1

* PARKING LOT

COMPUTE NM HYD ID=1 HYD NO=100.P AREA=0.0007159 SQ MI
PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00
TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=1 CODE=1

* 10-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS) *

START TIME=0.0

BASIN A

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=1.25 IN RAIN SIX=1.47 IN
RAIN DAY=1.77 IN DT=0.02253 HR
COMPUTE NM HYD ID=1 HYD NO=110.A AREA=0.001708 SQ MI
PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=1 CODE=1

BASIN B

COMPUTE NM HYD ID=1 HYD NO=110.B AREA=0.008465 SQ MI
PER A=0.00 PER B=77.00 PER C=0.00 PER D=23.00
TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD ID=1 CODE=1

PARKING LOT

COMPUTE NM HYD ID=1 HYD NO=110.P AREA=0.0007159 SQ MI
PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00

TP=-0.1333 HR MASS RAINFALL=-1

ID=1 CODE=1

PRINT HYD

*

*

FINISH

