PUBLIC WORKS/HYDROLOGY

L8/D9A

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DON RESERVOIR CONVENIENCE CENTER
DRAINAGE REPORT

June, 1990
(Scanlon Job No. 89110)

City of Albuquerque
Solid Waste Division

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HYDROLOGY DIVISION

By Scanlon & Associates, Inc
8008 Pennsylvania Circle NE
Albuquerque, NM 87110

For Brown & Caldwell, Consulting Engineers
6121 Indian School Road NE
Albuquerque, NM 87110

DENNIS D. BRAND
NEW MEXICO
9374
REGISTERED PROFESSIONAL ENGINEER

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I. GENERAL

The Don Reservoir Convenience Center is located south of Central Avenue and west of 114th Street. Access to the site will be from 114th Street. 114th Street will be built in the existing right-of-way as part of the development of the Albuquerque Westside Satellite Site. The drainage report for the Albuquerque Westside Satellite Center will be referenced in this report. Figure 1 is a location map which displays the Convenience Center Site and its relationship to 114th Street and the Westside Satellite Site.

II. TOPOGRAPHY AND SOILS

Using the Soil Survey of Bernalillo County, prepared by the Soil Conservation Service, the major soil in the watershed area is Bluepoint loamy fine sand. This soil falls in Hydrologic Soil Group A, indicating a highly permeable soil. Figure 2 shows the soils map from the survey and describes the soil.

The watershed generally slopes to the east at an average of 4%. Blowing sand continues to reshape the surface. Native vegetation is the only ground cover in the area.

III. THE DRAINAGE BASIN

The site lies in Drainage Basin C, as defined by the Westside Satellite Center Drainage Report, see Figure 3. This basin is bounded to the northwest by Central Avenue and AMAFCA's Powerline Channel. The north and south boundaries are defined by the existing topography, and the southeast boundaries are defined by the future streets which are being constructed with the Westside Satellite Site construction. The basin crosses 114th Street adjacent to the Convenience Center Site. The 33 acre drainage basin under developed conditions requires a twin 48" diameter culvert crossing as per the Westside Satellite Drainage Report.

IV. ONSITE AND OFFSITE DRAINAGE

The offsite drainage will flow into the twin 48" diameter culvert which will be extended through the Convenience Center as shown on the site and grading plan. The runoff generated from the site itself will be routed to a pond. The pond is to be located in the southeast corner of the site with the outlet running directly north. The pond will serve both a retention and detention purpose with the outlet located higher than the bottom of the pond. A small portion of the runoff from pervious areas will be routed directly to the twin culvert inlet. The flowrate routed directly to the inlet will be approximately 2 cfs. 100-year hydrological data is as listed below.

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EXISTING CONDITIONS

CN = 74
Q_{100} = 4.71 cfs
V_{100} = 0.087 ac-ft

FUTURE CONDITIONS

Pervious Area	Impervious Area
CN = 76	CN = 97
Q_{100} = 2.95 cfs	Q_{100} = 6.56 cfs
V_{100} = 0.054 ac-ft	V_{100} = 0.12 ac-ft

Because these are no facilities downstream to accept additional runoff, the volume of water released from the developed site should be no more than that released under existing conditions. Therefore the retention volume required is equal to (0.12+0.054)-0.087, or 0.087 acre-feet. A volume of 0.046 acre-feet will also be provided for the additional flows generated by 114th Street. These flows will route through the pond via a street inlet.

Data for the pond is as listed below.

Don Reservoir Convenience Center Detention Pond (located in SE corner of site)

elevation	depth (ft.)	area (sq. ft.)	cumulative storage (ac-ft)	outflow (cfs)
5318	0	2044	0	0
5319	1	2686	0.0541	0
5320	2	3400	0.1238	0
5321	3	4186	0.1566	0
5322	4	5044	0.1927	0.82
5323	5	5974	0.2321	1.25
5324	6	6976	0.2748	1.57

Subtracting the required 0.133 acre-feet of retention from the above volumes, then routing the 100-year storm through the pond results in the following:

100-year storm water surface elevation: 5323.1
Peak discharge: 1.29 cfs
Invert elev. of 6" outlet = 5321.0
Time to drain 100-year, 6-hour storm: 2.5 hours

The pond will have an emergency spillway that can easily handle the 100-year flowrate. The detention pond spillway will flow into 114th Street and be constructed according to City Drawing No. 2428, at the 100-yr water surface elevation, 5323.1.

These following flowrate computations are based on the pond containing 0.133 acre-feet of volume before the 100-year, 6-hour storm occurs. The volume computations are based on a sediment

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depth of one foot in the pond, but no water volume from previous storms.

100-YEAR DEVELOPED CONDITIONS (with ponding)

total flowrate leaving site:

	2.0 cfs	area not reaching ponds
+	1.3 cfs	detention pond outlet
=	3.3 cfs	(< 4.71 cfs)

total runoff volume leaving site:

	0.035 ac-ft	area not reaching ponds
+	0.035 ac-ft	detention pond outlet
=	0.070 ac-ft	(< 0.087 ac-ft)

The onsite ponding will keep the runoff flowrate and volume below that of existing conditions. More frequent, less severe storms will also generate less runoff downstream then under existing conditions. Furthermore, the 100-yr, 10-day storm generates 0.23 acre-feet of volume which can be contained in the pond below the emergency spillway elevation. The development of the Convenience Center and the paving of 114th Street will indeed improve the drainage conditions downstream of the site.

No?

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FIGURES

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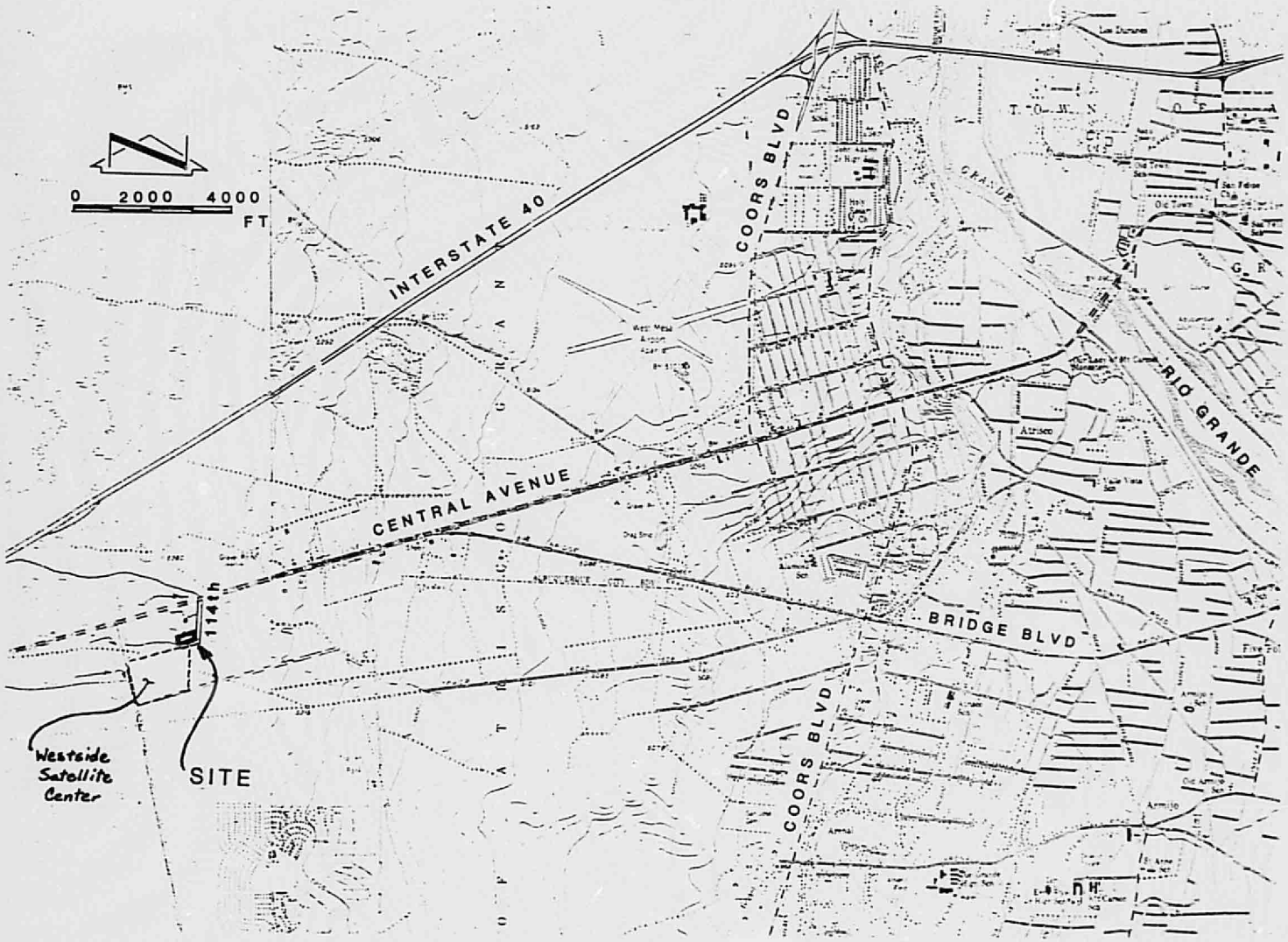

LOCATION MAP

FIGURE 1

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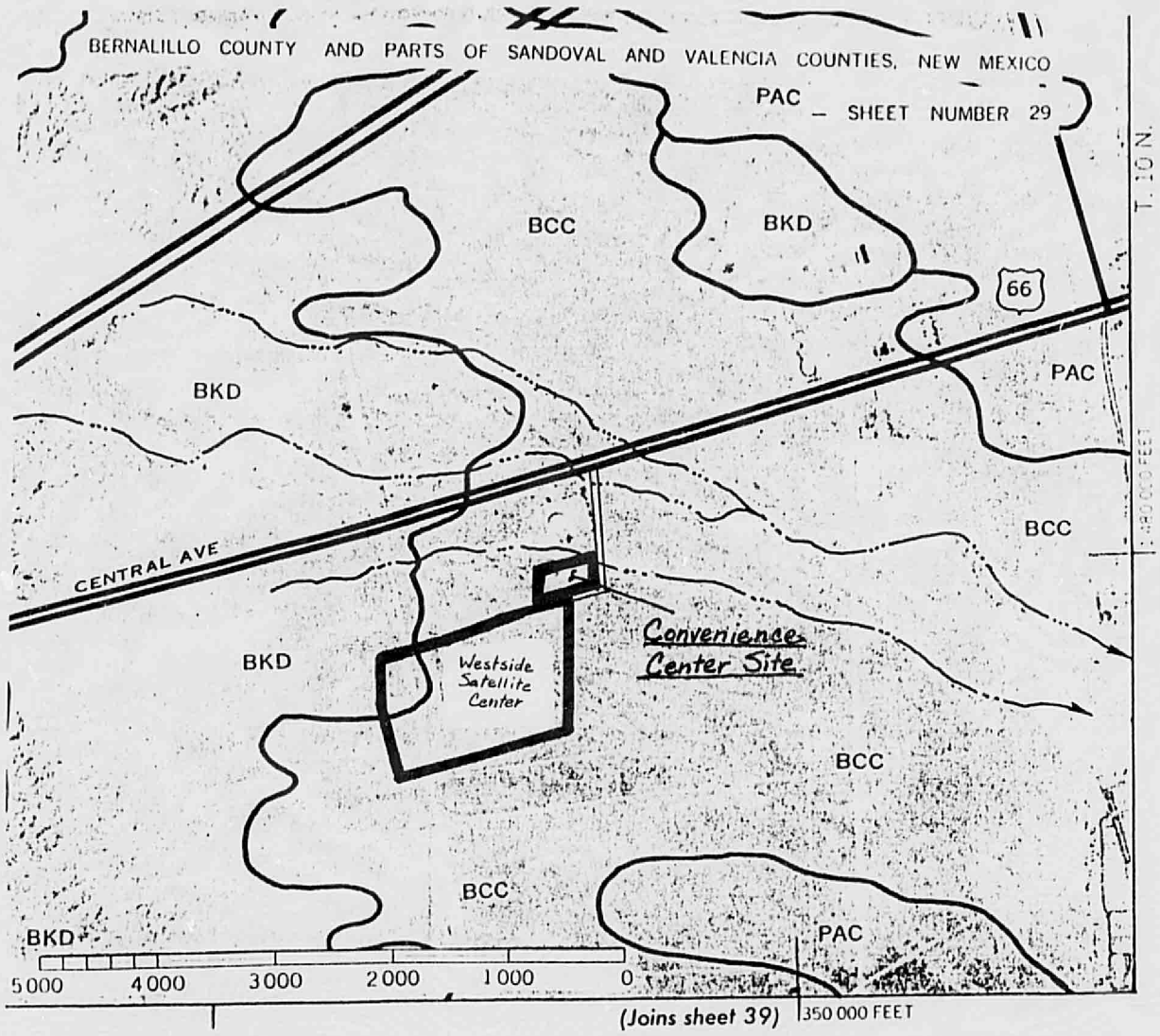

BCC—Bluepoint loamy fine sand, 1 to 9 percent slopes. This soil is nearly level to moderately sloping. It has the profile described as representative of the series, but on about 10 percent of the acreage the surface layer is sand. Included in mapping are areas of Madurez, Pajarito, and Wink soils, which make up about 15 percent of the unit.

Runoff is slow, and the hazard of soil blowing is severe.

This soil is used for range, watershed, wildlife habitat, recreation, and community development. Dryland capability subclass VIIe; native plant community 2.

SOIL SURVEY

FIGURE 2

25×

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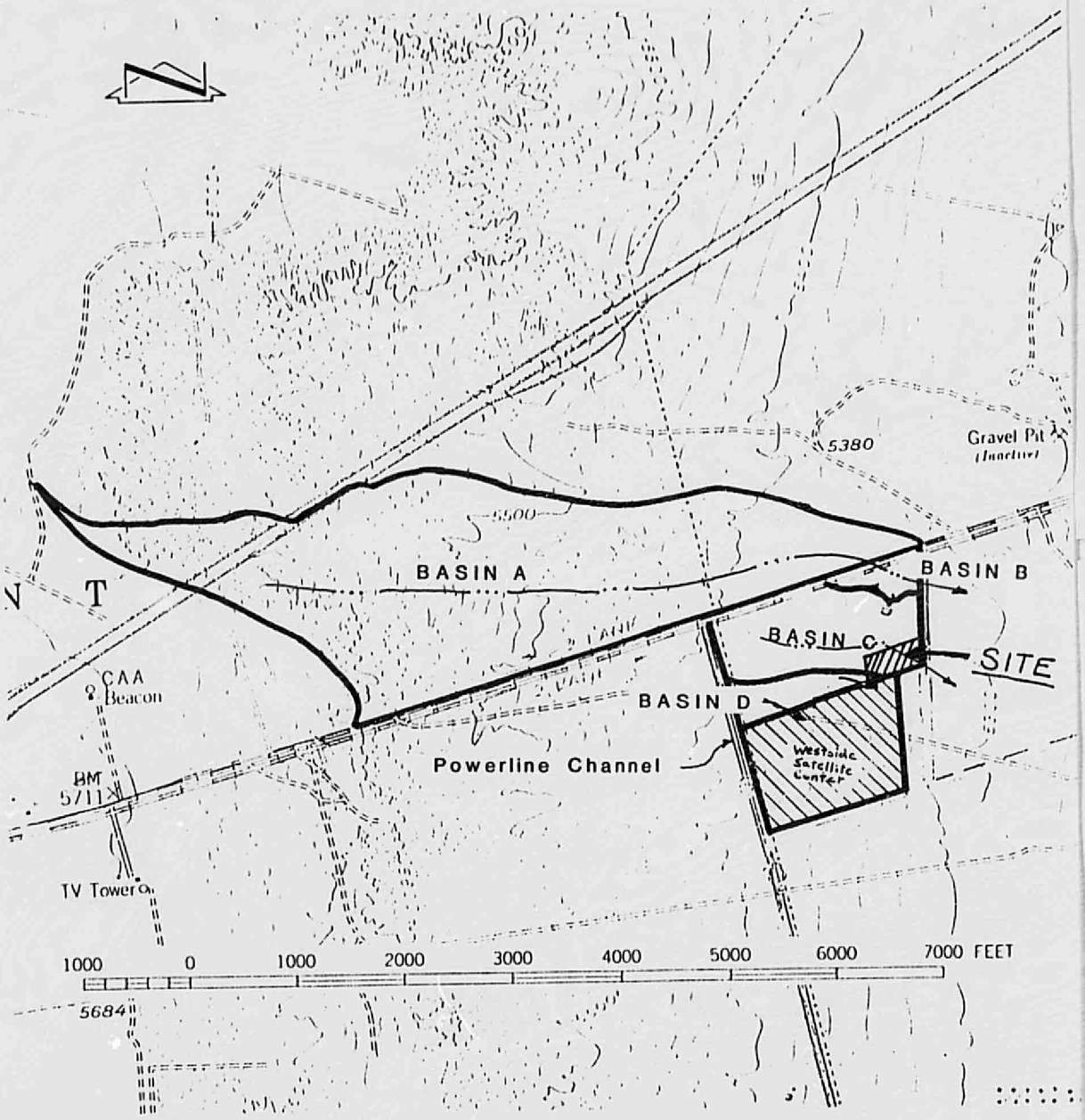

BASIN "C"

FIGURE 3

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APPENDIX

25×10

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CONSULTING ENGINEERS
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Project Don Reservoir Convenience Center Drainage
Location Albuquerque 3/90
Job No. 89110 Date 12/19/89
By Julie Sheet 1 of 10

TOTAL DRAINAGE AREA = 420' x 215' = 90,300 ft²
= 2.073 acres

Section 2. HYDROLOGY

A. SELECTING A METHOD

Albuq. D.P.M.

The method used to calculate runoff volumes, peak rates and runoff hydrographs should be appropriate, simple and produce accurate reproducible results. There are a multitude of methods available and any that satisfies the above requirements is acceptable. The methods, graphs and tables which follow will be used by City staff in the review process to evaluate plans and designs.

Two methods are presented, each with a different range of applicability. The rational method will be used by City staff to evaluate drainage areas up to 320 acres (.5 sq. miles). A method of dimensionless unit hydrographs will be used for drainage areas over 320 acres (.5 sq. miles). Runoff volumes will be evaluated using two compatible approaches, one for each peak rate method. A method for determining hydrographs for reservoir routing applications derived from the rational method is also presented.

Minimum T_c will be 10 minutes for the calculation of Q_p. Complex watersheds which require the accumulation of peak discharges should be recalculated at each analysis point using total watershed length and recomputed watershed slope.

"C" values for use in the Rational formula should be taken from textbook and handbook references. City staff will review and evaluate composite "C" values based on the following surface types and associated values:

Surface Type	"C" Value
streets, drives, walks	0.95
roofs	0.90
lawns and landscaping	0.25
undeveloped	0.40

Volume and hydrograph determinations will be done according to part C.2. page 7, and part F page 19, regardless of watershed size, except where an existing approved Master Plan has used the Rational Method for these determinations.

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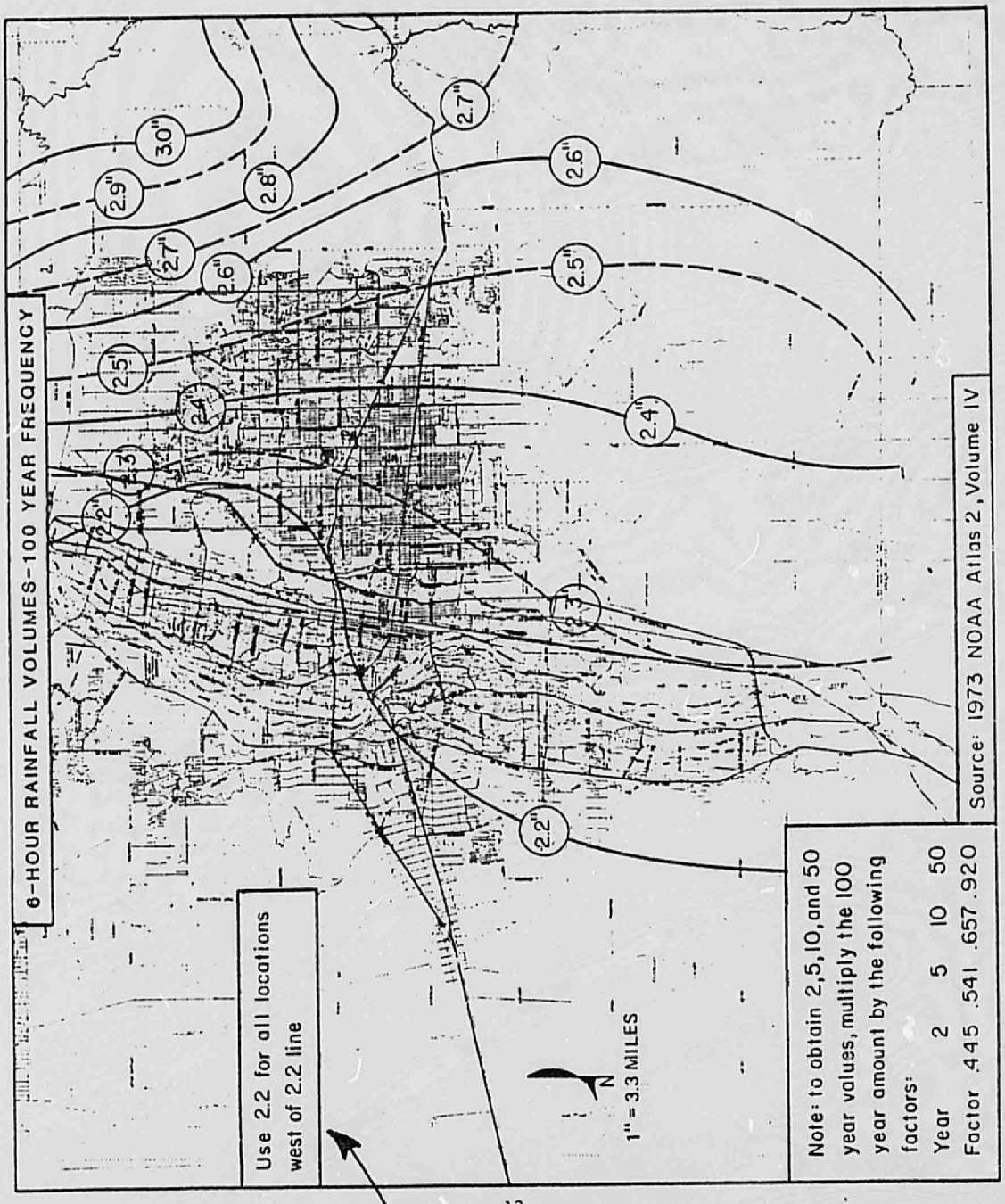
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

Sheet 2 of 10

22.2



use rainfall depth = 2.20"

4-82

PLATE 22.2 D-1

25×

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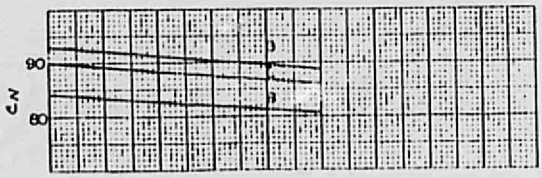
Project
Location
Job No. Date
By Sheet 3 of 10

from Peak Rates of Discharge for Small Watersheds, Ch. 2 (SCS)



Desert Brush: Brush-weed and grass mixtures with brush the predominent element. Some typical plants are - Mesquite, Creosote, Yuccas, Sagebrush, Saltbrush, etc. This area is typical of lower elevations of desert and semi-desert areas.

Figure 2-1
HYDROLOGIC SOIL - COVER COMPLEXES AND ASSOCIATED CURVE NUMBERS

interpolating for Soil Type "A"

use CN = 74 undisturbed
= 76 disturbed
use CN = 97 for impervious areas

The D.P.M. suggests Rational Method for flowrate computations and Curve Number for volume computations. Due to the layout of this site, computations should be made seperately for pervious and impervious areas, then combined. The unit hydrograph supplied by the DPM also provides a method of computing flowrates. Because a hydrograph is necessary for pond routing, the computations will be made consistant with the unit hydrograph provided by the DPM. Below is the Rational Method computation for existing conditions for comparison.

$Q = CIA$

$T_c = 10$ minutes (minimum)

$I = (6\text{hr rainfall})6.84\,t_c^{-0.51}$ (Plate 22.2 D-2, DPM)

$= 2.2(6.84)(10)^{-0.51} = 4.65$ in/hr

$Q = 0.4(4.65)(2.073) = 3.86$ cfs

25×10

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outlet sizing

$Q = 0.6 A\sqrt{2gh}$, h measured from water surface to center of orifice

12" $A = 0.785\ ft^2$

assume $h = 2'$ $Q = 5.35$ cfs → too high

6" $A = 0.196\ ft^2$

assume $h = 2'$ $Q = 1.98$ cfs → ok

compute storage discharge curve using 6" outlet

(see attached HYMO run for all hydrographs and for pond routing)

NOTE: dumping area ($\approx 5680\ ft^2$) to be excluded from computations for pond, runoff from this area may be contaminated due to garbage ∴ this water will drain to a storage tank to later be carried off site for treatment

emergency spillways

10' spillway used for detention pond

$q = \frac{2}{3} H\sqrt{\frac{2}{3}gH}$

max 100-yr $Q = 7.42$ cfs ∴ $q = 0.742$ cfs/ft

⇒ $H \approx 0.3$ ft → ok

approx. vol. 114th Street - 100-yr

$$\frac{(950\ ft)(20\ ft)}{43560\ ft^2/ac}\ 1.9\ in\left(\frac{1\ ft}{12\ in}\right) = 0.07\ ac\cdot ft$$

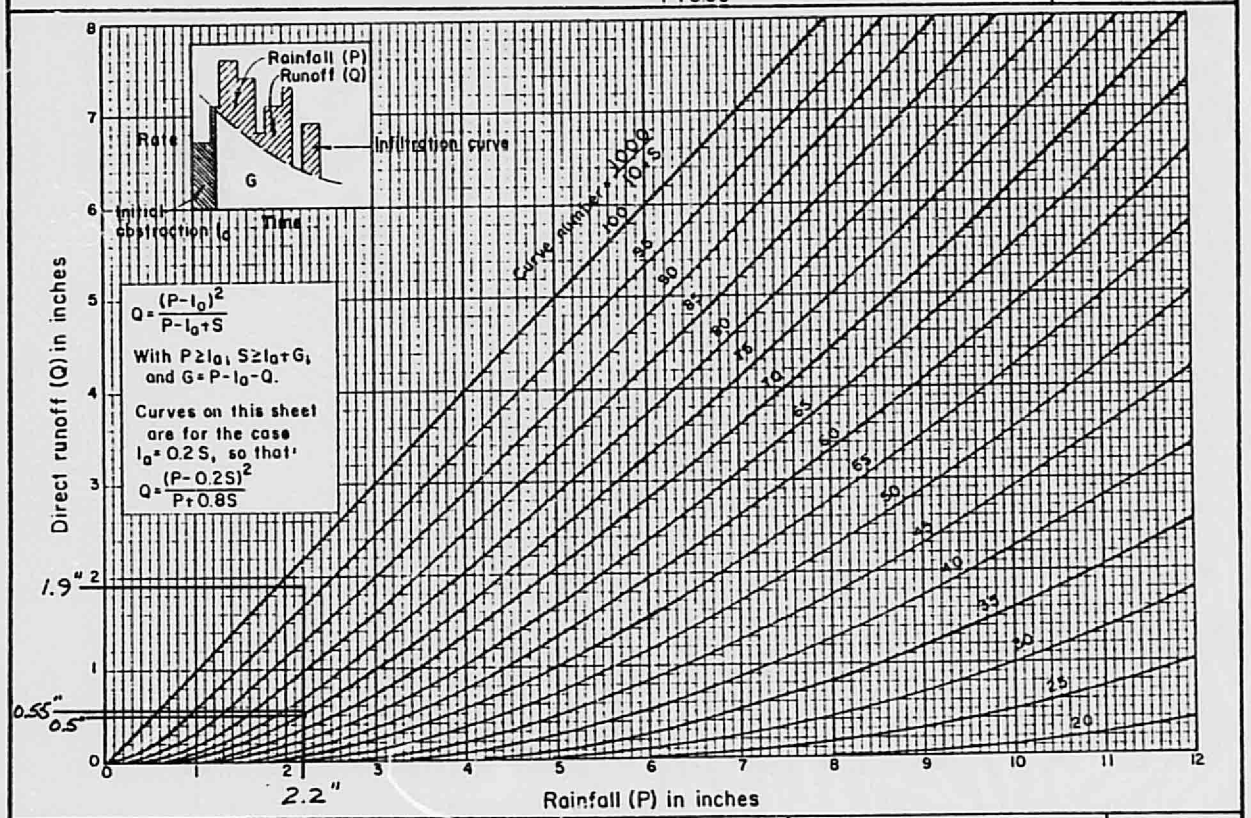
This volume can be contained in the detention pond.

25×

HYDROLOGY: SOLUTION OF RUNOFF EQUATION

$$Q = \frac{(P-0.2S)^2}{P+0.8S}$$

P = 0 to 12 inches
Q = 0 to 8 inches



REFERENCE
Mockus, Victor; Estimating direct runoff amounts from storm rainfall: Central Technical Unit, October 1955.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ENGINEERING DIVISION – CENTRAL TECHNICAL UNIT

Sheet 5 of 10

22.2

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25X

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22.2

HYDROGRAPH COMPUTATION WORKSHEET

DATE 3/1/90
COMPUTED BY Julie/Ed
CHECK BY HYMO

PROJECT Don Reservoir Conv. Cntr

LOCATION Albuquerque

ANALYSIS POINT # Pervious Area

(DR. AREA) A = 1.182 ACRES

T_c 10 MIN

POINT RAINFALL 2.2 IN. FROM PLATE 22.2 D-1

CN = 76 FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = 0.55 IN. FROM PLATE 22.2 C-4

COMPUTED T_p = 10 MIN. $T_p = T_c$
(Rounded to even minute)

$q_p = \frac{45.4A}{T_p}$ = 5.37 CFS./INCH OF RUNOFF

$(R \times q_p) = Q_{peak}$ = 2.95 CFS

$t(\text{COLUMN}) = (t/T_p)$ $t = T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}}$ $Q = y(Q_{peak})$

	(t/T_p)	t (min.)	y	Q (cfs)
1	0	0	0	0
2	.1	1	.03	0.0885
3	.2	2	.10	0.2950
4	.3	3	.190	0.5605
5	.4	4	.310	0.9145
6	.5	5	.470	1.3865
7	.6	6	.660	1.9470
8	.7	7	.820	2.4190
9	.8	8	.930	2.7435
10	.9	9	.990	2.9205
11	1.0	10	1.00	2.9500
12	1.1	11	.990	2.9205
13	1.2	12	.930	2.7435
14	1.3	13	.860	2.5370
15	1.4	14	.780	2.3010
16	1.5	15	.680	2.0060
17	1.6	16	.560	1.6520
18	1.7	17	.460	1.3570
19	1.8	18	.390	1.1505
20	1.9	19	.330	0.9735
21	2.0	20	.280	0.8260
22	2.2	22	.207	0.6107
23	2.4	24	.147	0.4337
24	2.6	26	.107	0.3157
25	2.8	28	.077	0.2272
26	3.0	30	.055	0.1623
27	3.2	32	.040	0.1180
28	3.4	34	.029	0.0856
29	3.6	36	.021	0.0620
30	3.8	38	.015	0.0443
31	4.0	40	.011	0.0325
32	4.5	45	.005	0.0148
33	5.0	50	.000	0.0000

existing conditions

CN = 74

R = 0.5"

T_p = 10 min

$q_p = \frac{45.4(2.073)}{10} = 9.41$ cfs/in RO

$Q_p = (0.5)(9.41) = 4.71$ cfs

$Vol = \left(\frac{0.5 \text{ in}}{12 \text{ in/ft}}\right)(2.073) = 0.086$ ac·ft

PLATE 22.2 F-1

25×10

0000 0000 2031

22.2

HYDROGRAPH COMPUTATION WORKSHEET

DATE 3/1/90
COMPUTED BY Julie
CHECK BY HYMO

PROJECT Don Reservoir Convenience Center

LOCATION Albuquerque

ANALYSIS POINT # IMPervious Area

(DR. AREA) A = 0.761 ACRES

T_c 10 MIN

POINT RAINFALL 2.2 IN. FROM PLATE 22.2 D-1

CN = 97 FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = 1.9 IN. FROM PLATE 22.2 C-4

COMPUTED T_p = 10 MIN. $T_p = T_c$
(Rounded to even minute)

$q_p = \frac{45.4A}{T_p}$ = 3.45 CFS./INCH OF RUNOFF

$(R \times q_p) = Q_{peak}$ = 6.56 CFS

t(COLUMN)=(t/T_p) $t=T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}}$ $Q = y(Q_{peak})$

	(t/T_p)	t (min.)	y	Q (cfs)
1	0	0	0	0
2	.1	1	.03	0.1968
3	.2	2	.10	0.6560
4	.3	3	.190	1.2464
5	.4	4	.310	2.0336
6	.5	5	.470	3.0832
7	.6	6	.660	4.3296
8	.7	7	.820	5.3792
9	.8	8	.930	6.1008
10	.9	9	.990	6.4944
11	1.0	10	1.00	6.56
12	1.1	11	.990	6.4944
13	1.2	12	.930	6.1008
14	1.3	13	.860	5.6416
15	1.4	14	.780	5.1168
16	1.5	15	.680	4.4608
17	1.6	16	.560	3.6736
18	1.7	17	.460	3.0176
19	1.8	18	.390	2.5584
20	1.9	19	.330	2.1648
21	2.0	20	.280	1.8368
22	2.2	22	.207	1.3579
23	2.4	24	.147	0.9643
24	2.6	26	.107	0.7019
25	2.8	28	.077	0.5051
26	3.0	30	.055	0.3608
27	3.2	32	.040	0.2624
28	3.4	34	.029	0.1902
29	3.6	36	.021	0.1378
30	3.8	38	.015	0.0984
31	4.0	40	.011	0.0722
32	4.5	45	.005	0.0328
33	5.0	60	.000	0

PLATE 22.2 F-1

25×

0000 0000 2032

22.2

HYDROGRAPH COMPUTATION WORKSHEET

DATE 4/5/90
COMPUTED BY Julie
CHECK BY

PROJECT Don Reservoir Conv. Cntr

LOCATION Albuquerque

ANALYSIS POINT # 114 St. - additional flows

(DR. AREA) A = 0.39 ACRES

T_c 10 MIN

POINT RAINFALL 2.2 IN. FROM PLATE 22.2 D-1

CN = 74 - existing / 97 - improved FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = 1.4 IN. FROM PLATE 22.2 C-4 (1.9 - 0.5)

COMPUTED T_p = 10 MIN. (Rounded to even minute) $T_p = T_c$

$q_p = \frac{45.4A}{T_p}$ = 1.77 CFS./INCH OF RUNOFF

$(R \times q_p) = Q_{peak}$ = 2.48 CFS

t(COLUMN)=(t/T_p) $t=T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}}$ $Q = y(Q_{peak})$

	(t/T_p)	t (min.)	y	Q (cfs)
1	0	0	0	0
2	.1		.03	
3	.2		.10	
4	.3		.190	
5	.4		.310	
6	.5		.470	
7	.6		.660	
8	.7		.820	
9	.8		.930	
10	.9		.990	
11	1.0		1.00	
12	1.1		.990	
13	1.2		.930	
14	1.3		.860	
15	1.4		.780	
16	1.5		.680	
17	1.6		.560	
18	1.7		.460	
19	1.8		.390	
20	1.9		.330	
21	2.0		.280	
22	2.2		.207	
23	2.4		.147	
24	2.6		.107	
25	2.8		.077	
26	3.0		.055	
27	3.2		.040	
28	3.4		.029	
29	3.6		.021	
30	3.8		.015	
31	4.0		.011	
32	4.5		.005	
33	5.0		.000	

additional volume =

$$\frac{1.4''}{12''/'}(0.39ac) = 0.046\ ac\cdot ft$$

PLATE 22.2 F-1

25×10

```
==================================================================
*                                                                *
*                 ICN RESERVOIR CONVERGENCE CHECK RUN            *
*                                                                *
==================================================================
* THE INFLOW HYDROGRAPHS WERE COMPUTED PREVIOUSY USING THE
* RATIONAL METHOD AND THE UHG FROM THE IPM
START                   0.00 HR
* 100-YEAR IMPERVIOUS HYD 6-HR 2.20 IN STORM
STORE HYD               ID=1 HYD=100 DT=0.0166667 A=0.00119 SQ MI
                        FLOWRATES 0 0.1968 0.6560 1.2464 2.0336 3.0832
                        4.3296 5.3792 6.1008 6.4944 6.56 6.4944 6.1008
                        5.6416 5.1168 4.4608 3.6736 3.0176 2.5584 2.1648
                        1.8368 1.5744 1.3779 1.1811 0.9843 0.8201 0.7219
                        0.6035 0.5051 0.4332 0.3608 0.3116 0.2624 0.2263
                        0.1902 0.1640 0.1378 0.1181 0.0984 0.0853 0.0722
                        0.0643 0.0564 0.0486 0.0407 0.0328 0.0262 0.0197
                        0.0131 0.0066
PRINT HYD               ID=1 COTP=0

                                PARTIAL HYDROGRAPH    100.00

      TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW
      HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS
      .000       .0           .167      6.6           .333      1.8           .500       .4           .667       .1
      .017       .2           .183      6.5           .350      1.6           .517       .3           .683       .1
      .033       .7           .200      6.1           .367      1.4           .533       .3           .700       .1
      .050      1.2           .217      5.6           .383      1.2           .550       .2           .717       .0
      .067      2.0           .233      5.1           .400      1.0           .567       .2           .733       .0
      .083      3.1           .250      4.5           .417       .8           .583       .2           .750       .0
      .100      4.3           .267      3.7           .433       .7           .600       .1           .767       .0
      .117      5.4           .283      3.0           .450       .6           .617       .1           .783       .0
      .133      6.1           .300      2.6           .467       .5           .633       .1           .800       .0
      .150      6.5           .317      2.2           .483       .4           .650       .1           .817       .0

      RUNOFF VOLUME =      1.9020 INCHES    =        .121 ACRE-FEET
      PEAK DISCHARGE RATE =        6.56 CFS


* 100-YEAR PERVIOUS HYD 6-HR 2.20 IN STORM
STORE HYD               ID=2 HYD=102 DT=0.0166667 A=0.00185 SQ MI
                        FLOWRATES 0 0.0888 0.2888 0.5696 0.9145 1.3888
                        1.9470 2.4198 2.7435 2.9208 2.9880 2.9208 2.7435
                        2.5370 2.3010 2.0648 1.8520 1.6520 1.4520 1.2735
                        0.8288 0.7184 0.6107 0.5222 0.4337 0.3747 0.3157
                        0.2715 0.2272 0.1948 0.1623 0.1402 0.1180 0.1018
                        0.0856 0.0735 0.0620 0.0532 0.0443 0.0384 0.0325
                        0.0290 0.0254 0.0219 0.0183 0.0148 0.0118 0.0089
                        0.0059 0.0030
PRINT HYD               ID=2 COTP=0

                                PARTIAL HYDROGRAPH    102.00

      TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW
      HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS
      .000       .0           .167      3.0           .333       .8           .500       .2           .667       .0
      .017       .1           .183      2.9           .350       .7           .517       .1           .683       .0
      .033       .3           .200      2.7           .367       .6           .533       .1           .700       .0
      .050       .5           .217      2.5           .383       .5           .550       .1           .717       .0
      .067       .9           .233      2.3           .400       .4           .567       .1           .733       .0
      .083      1.4           .250      2.0           .417       .4           .583       .1           .750       .0
```

Sheet 8 of 10

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REPRODUCTION DUE TO THE POOR QUALITY
OF THE ORIGINAL DOCUMENT.

Sheet 9 of 10

25×

PEAK DISCHARGE RATE = 2.09 CFS

= 8" OUTLET PIPE
ROUTE RESERVOIR IT=4 FYT=102 INFLOW II=1 COIF=10

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEV(FT)
0	0	18
0.001	0	19
0.002	0	20
0.003	0.0236	21
0.817	0.0597	22
1.248	0.0991	23
1.565	0.1416	24

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

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	18.00	.000	.00
.17	7.42	21.73	.050	.50
.33	2.08	23.08	.103	1.27
.50	.41	23.01	.100	1.25
.67	.08	22.67	.086	1.11
.83	.00	22.32	.072	.96
1.00	.00	22.01	.060	.82
1.17	.00	21.74	.050	.61
1.33	.00	21.54	.043	.45
1.50	.00	21.40	.038	.33
1.67	.00	21.29	.034	.24
1.83	.00	21.21	.031	.18
2.00	.00	21.15	.029	.13
2.17	.00	21.11	.028	.09
2.33	.00	21.08	.027	.07
2.50	.00	21.06	.026	.05

PEAK DISCHARGE = 1.267 CFS - PEAK OCCURS AT HOUR .35
MAXIMUM WATER SURFACE ELEVATION = 23.123
MAXIMUM STORAGE = .1044 AC-FT

Sheet 10 of 10

REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

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0000 0000 2036

L8/09A

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

RECEIVED SEP 18 1991

September 16, 1991

PROJECT ACCEPTANCE LETTER

Gilbert Luna
Universal Constructors
P.O. Box 6008, Sta. B
Albuquerque, NM 87197

RE: DON RESERVOIR SOLID WASTE CONVENIENCE CENTER, PROJECT NO.3902.91

Dear Mr. Luna:

The above referenced project has been completed according to the plans and specifications. The project consisted of the construction of a solid waste convenience center which includes a solid waste collection bin area with retaining walls, a gate house, chain link fence, paving and grading, landscaping, and a storm water collection system.

The City of Albuquerque accepts the referenced project as a whole and the contractual correction period began June 25, 1991. The correction period on this project is for one (1) year.

Sincerely,

Brian L. Speicher, P.E.
Chief Construction Engineer
Public Works Department

BLS:tjp

25×

0000 0000 2037

cc: Brown and Caldwell
Jim Hicks, Engineering Group, PWD
Mike Fellman, CIP Office
Denise Wilcox, Engineering Group, PWD
Fred Aguirre, Engineering Group, PWD
Terri Martin, Engineering Group, PWD
Martin Barker, Engineering Group, PWD
Steve Gonzales, Special Assessments
Gene Romo, Solid Waste Department
Joe Chavez, Solid Waste Department
A. N. Gaume, Operations Group, PWD
Sam Hall, Operations Group, PWD
Jim Fink, Operations Group, PWD
Ray Chavez, Engineering Group, PWD
Greg Olson, Water/Wastewater Group, PWD
Dave Parks, Engineering Group, PWD
Tom Kenneriy, Engineering Group, PWD
Josie Gutierrez, New Meter Sales, Finance Group, PWD
Claudia Gallegos, Standby Clerk, Finance, PWD
Richard Zamora, Engineering Group, PWD
f/Project No. 3902.91
f/Readers
f/Warranty:Contract

25×10

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

PROJECT REVIEW COMMITTEE MEETING 7/13/90 4:00 P.M.

PROJECT: Don Reservoir PROJECT NO.: 3902.91

CONSULTANT: Brown and Caldwell

ATTENDEES: Carlos A. Montoya, Acting DRC Chairman CAM
Mary Lee Dereske, Water/Wastewater
Dan Martinez, C.I.P.
Bob Kane, Water/Wastewater
Gilbert Aldaz, Hydrology
Joe Chavez, Solid Waste Department
Bob Schulz, Consultant

COMMENTS:

1. Marked up prints by Richard Dourte.
2. No comments by Gilbert Aldaz.
3. Written comments by Mary Lee Dereske.
4. Please submit two (2) print sets to Terri Martin. We do not need a DRC meeting.

WP+124333

PUBLIC WORKS DEPARTMENT
Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works
ENGINEERING GROUP
Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

25×10

0000 0000 2039

L8/DGN

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

RECEIVED
MAY 23 1990
HYDROLOGY DIVISION

PROJECT REVIEW COMMITTEE MEETING 5/15/90

PROJECT: Don Reservoir

PROJECT NO.: 3902.91
DRB NO.: 89-499

CONSULTANT: Brown & Caldwell

ATTENDEES: Roger Green, D.R.C. Chairman Roger
Robert Kane, Water/Wastewater
Joe Luehring, Utility Coordinator
Dan Martinez, C.I.P.
Dave Harmon, Transportation
Joe Waid, Project Manager, Solid Waste Department
Gilbert Aldaz, Hydrology
Bob Schulz, Consultant
Monty Hazlehurst, Consultant

COMMENTS:

1. Still need a copy of DRB 89-499 fundings.

2. Recommend that an alternate be prepared for using one entrance and right turn lane for addition vehicle storage. This may affect required right-of-way and site plan approval at the B.C.C.

3. Comments from Parks & Recreation Department will be forwarded direct to Landscape Architect with copies to Joe Waid and Bob Schulz.

4. Written comments provided by Mary Lee Dereske, Joe Luehring, Gilbert Aldaz and Dave Harmon.

5. Cross reference project specs with City spec sections. No further D.R.C. meeting is appropriate until the Westside Satellite project plans are approved and plat and site plans are approved. Then schedule a D.R.C. signature session.

WP+124333

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FILE COPY

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

June 15, 1990

Julie Allred Coonrod
Scanlon & Associates, Inc.
8008 Pennsylvania Circle, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE REPORT FOR DON RESERVOIR CONVENIENCE CENTER
(L-8/D9A) ENGINEER'S STAMP DATED JUNE 15, 1990

Dear Julie:

Based on the information provided on the submittal received June 15, 1990 the above referenced project is approved for Rough Grading.

If you should have any questions, please dont hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz

Gilbert Aldaz, P.E. & L.S.
City/County Floodplain Administrator

Clifford E. Anderson

Clifford E. Anderson, P.E. & L.S.
AMAFCA

wp+1736

25 X

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DRAINAGE INFORMATION SHEET

PROJECT TITLE: Don Reservoir Convenience Center ZONE ATLAS/DRNG. FILE #: L-8

LEGAL DESCRIPTION: a portion of lots 1 and 2, Block 5, of the Lands of Atrisco Grant

CITY ADDRESS: Sunset Gardens & 114th (in County)

ENGINEERING FIRM: Brown & Caldwell CONTACT: Bob Schulz

ADDRESS: 6121 Ind. Sch. NE PHONE: 881-0108

OWNER: City of Albuq., Solid Waste CONTACT: Joe Wade

ADDRESS: PHONE:

ARCHITECT: N/A CONTACT:

ADDRESS: PHONE:

SURVEYOR: City of Albuq. CONTACT:

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

X YES w/ Gilbert Aldaz

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. 3902.91

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

X new grading plan accompany report submitted June

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

RECEIVED JUN 15 1990 HYDROLOGY DIVISION

DATE SUBMITTED: June 15, 1990

BY: Julie Allred Conrad, Scanlon & Assoc. 265-6941 on behalf of Brown & Caldwell

25 X

0000 0000 2042

SCANLON & ASSOCIATES INC

CONSULTING ENGINEERS

Don Reservoir Convenience Center

RECEIVED
JUN 15 1990
HYDROLOGY DIVISION

LETTER OF TRANSMITTAL

DATE: June 15, 1990 JOB NUMBER: 89110

TO: Gilbert Aldaz
City of Albuquerque, Hydrology

WE ARE ENCLOSING:	QUANTITY: Sheets	Sets	FOR:	
X Prints	1	1	Your Use	
Plans			Your Approval	
Specifications			Your Records Files	
Shop Drawings			Review & Comment	
Change Order No.			Revisions & Corrections	
Studies Reports			As Per Your Request	
Letter			Bids Due:	
			to replace June 8 sht	X

NOTE: Please replace Sheet C3 dated June 8 with this revised Sheet C3 dated June 14.

Thank you

Copy to:

Signed: Julie

X ALBUQUERQUE, NEW MEXICO 87110-7897
8008 PENNSYLVANIA CIRCLE NE
TELEPHONE: (505) 265-6941

☐ SANTA FE, NEW MEXICO 87501-3961
1570 PACHECO STREET, SUITE-A-7
TELEPHONE: (505) 983-3323

25 × 10

0000 0000 2043

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Don Reservoir Convenience Center ZONE ATLAS/DRNG. FILE #: L-8

LEGAL DESCRIPTION: a portion of lots 1 and 2, Block 5, of the Lands of Atrisco Grant

CITY ADDRESS: Sunset Gardens & 114th (in County)

ENGINEERING FIRM: Brown & Caldwell CONTACT: Bob Schulz

ADDRESS: 6121 Indian School NE PHONE: 881-0108

OWNER: City of Albuq., Solid Waste CONTACT: Joe Wade

ADDRESS: PHONE:

ARCHITECT: N/A CONTACT:

ADDRESS: PHONE:

SURVEYOR: City of Albuq. CONTACT:

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

RECEIVED JUN 15 1990 HYDROLOGY DIVISION

PRE-DESIGN MEETING:

X YES w/ Gilbert Aldaz

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJ. NO. 3902.90

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

X ADDENDUM

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

X ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: June 15, 1990

BY: Julie Allred Coonrod, Scanlon & Assoc. 265-6941 on behalf of Brown & Caldwell

25 X

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June 15, 1990

Don Reservoir Convenience Center

Addendum to Drainage Report

Street Flows

There is a portion of Sunset Gardens and 114th Streets that is not picked up by the street inlets. The Westside Satellite Infrastructure Improvements defined the cross slope of the roads in this area so that the street flows could reach the Don Reservoir Convenience Center pond.

It should be noted that at such a time that pavement on the north side of Sunset Gardens is required, the design should ensure these flows are still able to reach the pond. This may require a sidewalk culvert or curb opening, etc.

RECEIVED
HYDROLOGY DIVISION

25×10

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DRAINAGE INFORMATION SHEET

D09A

PROJECT TITLE: Don Reservoir Convenience Center ZONE ATLAS/DRNG. FILE #: L-8/~~D-11~~

LEGAL DESCRIPTION: a portion of lots 1 and 2, Block 5, of the Lands of Atrisco Grant

CITY ADDRESS: Sunset Gardens & 114th (in County)

ENGINEERING FIRM: Brown & Caldwell CONTACT: Bob Schulz

ADDRESS: 6121 Ind Sch. NE PHONE: 881-0108

OWNER: City of Albuquerque, Solid Waste CONTACT: Joe Wade

ADDRESS: PHONE:

ARCHITECT: N/A CONTACT:

ADDRESS: PHONE:

SURVEYOR: City of Albuquerque CONTACT:

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

RECEIVED JUN 11 1990 HYDROLOGY DIVISION

PRE-DESIGN MEETING:

X YES w/ Gilbert Abaz

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. 3902.91

TYPE OF SUBMITTAL:

X DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

X ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

TE SUBMITTED: June 11, 1990

BY: Julie Allred Conrad, Scanlon & Associates, 265-6941, on behalf of Brown & Caldwell

25 x 10

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SCANLON & ASSOCIATES INC

CONSULTING ENGINEERS

Don Reservoir Convenience Center
Drainage Report

LETTER OF TRANSMITTAL

DATE: June 11, 1990 JOB NUMBER: 89110

TO: Gilbert Aldaz
Hydrology, City of Albuquerque

WE ARE ENCLOSING:	QUANTITY: Sheets	QUANTITY: Sets	FOR:	
___ Prints			Your Use	___
___ Plans			Your Approval	X
___ Specifications			Your Records Files	___
___ Shop Drawings			Review & Comment	___
___ Change Order No. ___			Revisions & Corrections	___
X Studies Reports		1	As Per Your Request	___
___ Letter			Bids Due:	___
___				___

NOTE: This report reflects the new layout which DRC requested.

RECEIVED
JUN 11 1990
HYDROLOGY DIVISION

Copy to: AMAFCA, County, [redacted]

Signed: Julia E Allred Conrad

X ALBUQUERQUE, NEW MEXICO 87110-7897 — 8008 PENNSYLVANIA CIRCLE NE — TELEPHONE: (505) 265-6941
☐ SANTA FE, NEW MEXICO 87501-3961 — 1570 PACHECO STREET, SUITE A-7 — TELEPHONE: (505) 983-3323

25 × 10

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FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 16, 1990

Julie Allred Coonrod
Scanlon & Associates, Inc.
8008 Pennsylvania Circle, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE REPORT FOR DON RESERVOIR CONVENIENCE CENTER
RECEIVED MARCH 9, 1990 FOR GRADING/PAVING PERMIT APPROVAL

Dear Julie:

Based on the information provided on the above referenced plan, the following comments should be addressed prior to approval by the Hydrology Section:

1. Your plan proposes to add a inlet on 114th street and connect directly into the proposed 48" culvert. Will the discharge from the street for the 2-year, 10-year, or 100-year be less damaging to downstream property because of increased volumes and frequency of flowing water. My recommendation is these flows should be diverted to the detention pond.

2. Please address the drainage basins and discharge points for the street flows between your proposed inlet and Sunset Gardens Road; and the street flows between the inlet on Sunset Gardens Road proposed by the Westside Satellite and 114th Street.

3. The D.R.C. meeting on May 15, 1990 required the consultant "Brown and Caldwell", to determine the feasibility of a single divided entrance. If the single divided entrance is accepted, then the drainage plan will need to reflect this proposed change.

If you should have any questions, do not hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz

Gilbert Aldaz, P.E. & L.S.
Civil Engineer/Hydrology

xc: Clifford E. Anderson, AMAFCA
Bob Fogelsong, Bernalillo County

GA
(WP+1736)

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CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

MAY 10, 1990
DATE

PLANNING & PROGRAMMIN

/___/ Comments receiv

/___/ N.A.

DRB 89-499 BCC APPROVAL IN JUNE

CITY ENGINEERS PROJECT NO. 3902.91

STANDARD REVIEW COMMENT SHEET

SHEET _____ OF _____

TO: ROGER GREEN /CHAIRMAN DRC - APPLICANT
(USER DEPT./DIVISION)

FROM: GILBERT ALDAZ /HYDROLOGY/ENGINEERING
(REVIEWER/REVIEW DEPT./DIVISION)

PROJECT: DON RESERVOIR CONVENIENCE CENTER

PROJECT DESCRIPTION STATUS: ☐ Pre-design, ☐ Prel., ☒ Final

FOR REVIEWER DEPT/DIVISION			FOR USER DEPT.	
PAGE NO.	COM. NO.	COMMENT	A/D	REMARK
C3	1	I RECOMMEND A SINGLE DIVIDED ENTRANCE/EXIT COST SAVINGS BY REDUCING 48" RCP AND MANHOLES, THIS WOULD ONLY REQUIRE ONE POND, IF ADDITIONAL QUEING LENGTH IS REQUIRED, THEN DESIGN A RIGHT TURN BAY AND COORDINATE WITH WESTSIDE SATELLITE CENTER FOR CURB AND GUTTER SAVINGS		
C3	2	IF IMPROVEMENTS FOR SUNSET GARDENS ROAD NORTH HALF REQUIRED, THEN STREET INLET WILL BE REQUIRED.		
C3	3	PLEASE BE ADVISED THE WORK ORDER DRAWINGS FOR 114th STREET HAVE NOT BEEN APPROVED; THEREFORE, I WILL NOT SIGN-OFF ON THESE PLANS UNTIL 114th STREET IS APPROVED.		

25×

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SCANLON & ASSOCIATES INC
CONSULTING ENGINEERS

May 7, 1990

Gilbert Aldaz, P.E. & L.S.
Civil Engineer/Hydrology
Public Works Department
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RECEIVED
MAY 7 1990
HYDROLOGY DIVISION

RE: Drainage Report for Don Reservoir Convenience Center

Dear Gilbert:

We are resubmitting this report on behalf of Brown & Caldwell. Your comments dated March 28, 1990 have been addressed as we discussed in our April 5th meeting. Because of that meeting and subsequent telephone conversations, I feel confident that your concerns have now been satisfactorily addressed. Responses to your numbered comments are as follows:

1. Brown & Caldwell is going through the proper DRC process with full construction drawings.

2. This report now contains a full sized plan.

3. Drainage basin boundaries has been added to the submitted plan.

4. Because there is no downstream capacity, the site is required to retain all runoff volume greater than the historical conditions volume. The site is located in the County, outside of Albuquerque's city limits. Bernalillo County allows retention ponds.

5. Offsite flows directly west of the project will not flow onto the site. The majority of this runoff will flow southeasterly to the Westside Satellite Center where it is routed to a pond on the Westside site. A small portion of the runoff will be routed around the northwest corner of the convenience center site. The flow will then be routed to the twin 48" diameter culverts.

PLEASE REPLY TO:
X ALBUQUERQUE, NEW MEXICO 87110-7897 — 8008 PENNSYLVANIA CIRCLE NE — TELEPHONE: (505) 265-6941
☐ SANTA FE, NEW MEXICO 87501-3981 — 1570 PACHECO STREET, SUITE-A-7 — TELEPHONE: (505) 983-3323

25×10

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6. As we discussed at our April 5th meeting, the culverts act under inlet control, so headlosses due to the bend do not affect performance of the culverts. Because of the manhole requirement (Comment No. 7) the pond outlet will now discharge directly to the manholes, eliminating concern of flows backing into the pond.

7. The drain line has now been sized at 18 inches. The line will have a 6 inch orifice plate and a wire screen to reduce any sediment problem. Brown & Caldwell will be providing the construction detail for the outlet structure.

I trust that you are satisfied with the overall drainage and grading plan. If any more construction details are required please voice those concerns to Bob Schulz of Brown & Caldwell at 881-0108.

Thank you for your attention.

Sincerely,

SCANLON & ASSOCIATES, INC.

Julia E Allred Coonrod

Julia Allred-Coonrod, E.I.T.
Project Manager

JAC/vas

cc: Cliff Anderson, AMAFCA

25×

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DRAINAGE INFORMATION SHEET

PROJECT TITLE: Don Reservoir Convenience Center ZONE ATLAS/DRNG. FILE #: L-8/D9A

LEGAL DESCRIPTION: a portion of lots 1 and 2, Block 5, of the Lands of Atrisco Grants

CITY ADDRESS: Sunset Gardens and 114th (in County)

ENGINEERING FIRM: Brown & Caldwell CONTACT: Bob Schulz

ADDRESS: 6121 Ind Sch NE PHONE: 881-0108

OWNER: City of Albuquerque, Solid Waste CONTACT: Joe Wade

ADDRESS: PHONE:

ARCHITECT: N/A CONTACT:

ADDRESS: PHONE:

SURVEYOR: City of Albuquerque CONTACT:

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

X YES w/ Gilbert Aldaz

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. 3902.91

TYPE OF SUBMITTAL:

X DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

X ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

RECEIVED
MAY 7 1990
HYDROLOGY DIVISION

DATE SUBMITTED: May 7, 1990

BY: Julie Alfred Conrad, Scanlon & Associates, 265-6941 on behalf of Brown & Caldwell

25 x 10

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FIGURE 6

GA

CITY OF ALBUQUERQUE
DESIGN REVIEW COMMITTEE
NOTICE OF D.R.C. MEETING

5-4-90 (DATE) PROJECT NO: 3902.91

PROJECT NAME: DON RESERVOIR SOLID WASTE CONVENIENCE CTR.

TYPE OF PROJECT: CIP XX PWC ____ SAD ____ PRIVATE ____

Contact Person: JOE WAID Phone: 761-8171
Firm: C.O.A. - SOLID WASTE

Scheduled with the D.R.C. on 5-15-90 at 1:30 in Conf. Room 303 on the 3rd Floor of the old City Hall Building.

The Project Is Scheduled For:

/ / Design Report Review
/ / Pre-Design Meeting
/ / Preliminary Plan Review
/X/ Final Plan Review (Appr. Infra. List)
/ / Signoff of Plans (Mylars Required)
/ / ____

The Project Relates To:

/ / Water / / San. Sewer / / Paving / / Storm Drainage / / ____

The Attached Package Includes:

/D/ Drawings /S/ Spec's / / Estimate / / Report /M/ Memo Only

Indicated below are the Departments/Divisions that have received project documents and are invited to attend. It will be the Project Managers responsiblity to notify consulting engineering firms of date and time of scheduled meetings on all CIP projects.

On Private Plans: First 8 Receive Prel. Plans--First 4 Receive Final Plans

S/D/	Roger Green	Project Review	All
/D/	Dave Harmon	Transportation Dev.	All
/D/	Robert Kane/Mary Lee Dereske	Utility Design	All
/D/	Hydro Repres.	Hydrology	All
S/D/	Brian Speicher	Construction	All
/D/	Bill Coleman	Traffic Operations	All
/ /	Ray Chavez	Street Maint.	All
/ /	Sergio Miranda	Water -Shutoff Plan: Yes/No	All
/M/	Diane Scena	Parks & Rec.	Memos
/ /	Robert McArthur	Transit Dept.	Memos
/D/	Joe Luehring	Utility Coordinator	PWC & Masterplans
/ /	Jim Fink	Line Maintenance	CIP/SAS
/M/	Joe Dellalonga	City Architect	ARCHITECTURAL
/ /	Lee Lunsford	SAD Engineer	SAD
/ /	Greg Olson	Project Design	PWC
/ /	Brett Locke	Transportation Dev.	CIP/TRANS.
/ /	Billy Goolsby	Utility Design	CIP/WATER & SAS
/ /	Gene Frey	Project Coordinator	CIP/ALL MEMOS
/ /	Glenn Coontz	General Services Dept.	BUILDINGS
/S/	Mark Shoesmith	PWD/City Attorney	SPECIFICATIONS
/M/	Cynthia Bruce	Planning Department	CIP/Memos
/M/	CIP Manager	CIP	CIP/Memos
/D/	JOE WAID	SOLID WASTE	

RG/tm (WP+123400) Rev. 10/10/89

25×

0000 0000 2053

Brown and Caldwell
Consultants

345 East Palm Lane
Suite 200
Phoenix
Arizona 85004-1532
(602) 253-2524
FAX (602) 271-9823

May 3, 1990

Mr. Joe Waid
City of Albuquerque
Solid Waste Management Department
4600 Edith Northeast
Albuquerque, New Mexico 87103

15-4527/11

Dear Mr. Waid:

We are submitting the plans and specifications for the 95-percent Design Review Committee (DRC) requirements.

The site plan and other necessary details have been submitted to Scanlon and Associates for the final drainage report. The final drainage report should be submitted to reviewers on Friday, May 4, 1990. All comments regarding drainage should be incorporated on the drawings included in the report. With receipt of the final report, Mr. Cliff Anderson will be able to sign the plot of the site. The plot will be included in the final drawing package.

We have revised the drawings to reflect the DRC comments received at the 50-percent review. Those facilities being provided by the 114th Street project have been indicated as not included in the convenience center construction package. There does need to be a final coordination between the two projects to make sure the same information is reflected on both.

The specifications will require review by the legal department. We do not anticipate major corrections in this area.

Marked-up review sets from the 50-percent DRC meeting, as well as the 95-percent material, are being sent directly to Mr. Roger Green.

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A cost estimate for this project will be submitted on May 11, 1990.

Very truly yours,

BROWN AND CALDWELL

for Robert S. Schulz
Supervising Engineer

RSS:im
Enclosures

cc: Mr. Lawrence Baca, City of Albuquerque
Mr. Sam Edmondson, Brown and Caldwell, Phoenix
Mr. Gene Romo, City of Albuquerque
Mr. Larry Theisen, Brown and Caldwell, Pleasant Hill

cc/att: Mr. Roger Green, City of Albuquerque DRC
(eight sets plans and three sets specifications)

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

PROJECT REVIEW COMMITTEE MEETING 3/29/90 1:30 P.M.

PROJECT: Don Reservoir PROJECT NO.: 3902.91

CONSULTANT: Brown and Caldwell

ATTENDEES: Roger Green, D.R.C. Chairman Roger
Mary Lee Dereske, Water/Wastewater
Joe DellaLonga, City, PWD Architect
Gilbert Aldaz, Hydrology
Joe Waid, Solid Waste
Dan Martinez, C.I.P.
Herb Kurtis, Fire Department
Bob Schulz, Consultant

COMMENTS:

1. The plat application at D.R.B. must have preliminary plat and infrastructure list approval prior to next submittal, particularly concerning the issue of construction of Sunset Gardens Road.

2. Submit copy of site development plan approved by County Planning Commission.

3. Consider using a single divided entrance.

4. A interface with 114th Street must match construction plans being prepared under the Fire Academy contract with Chambers Campbell & Partners, Inc.

5. Include a recorded mylar copy of plat with the final construction drawings.

6. Written comments and marked up plans provided by Mary Lee Dereske.

Resubmit eight (8) plan sets for a final review meeting after comments are addressed and plans are 95% complete. Return all marked up plan sets. Submit three (3) sets of contract specifications.

WP+124333

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

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

March 28, 1990

Julie Allred Coonrod
Scanlon & Assoc., Inc.
8008 Pennsylvania Circle NE
Albuquerque, NM 87110

RE: DRAINAGE REPORT FOR DON RESERVOIR CONVENIENCE CENTER, RECEIVED MARCH 9, 1990 FOR GRADING/PAVING PERMIT APPROVAL

Dear Julie:

Based on the information provided on the above referenced plan, the following comments should be addressed prior to the approval by the Hydrology Section:

1. Since the City will maintain the proposed drainage facilities, the referenced project will require work order approval.

2. The plan scale is too small and difficult to read, please resubmit a plan that is legible.

3. A drainage basin boundary map is required as part of your submittal.

4. Retention ponds are not allowed per the City Drainage Ordinance.

5. Please address offsite flows directly west of the referenced project.

6. Please evaluate the headwater depth for the culverts, what impact does the bend and length of culvert have to the headlosses? Could the headwater depth on the culvert force flows back into the pond through the drain line.

7. The culvert bend will require a manhole for ease of maintenance.

8. The drain line should be sized for a minimum of 18 inches for ease of maintenance. How are you proposing to design the entrance for the drain line, to reduce sediment?

If you should have any questions, please don't hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz

Gilbert Aldaz, P.E. & L.S.
Civil Engineer/ Hydrology

cc: Clifford E. Anderson, AMAFCA
Bob Fogelson, Bernalillo County

WP+1736

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DRAINAGE INFORMATION SH

PROJECT TITLE: Don Reservoir Convenience Center ZONE ATLAS/DRNG. FILE #: L-8 / D9a

LEGAL DESCRIPTION: ~~Tract~~ Portion Lts 1 & 2 Block 5

CITY ADDRESS: (114th & Sunset Gardens — County)

ENGINEERING FIRM: Scanlon & Assoc. for Brown & Caldwell CONTACT: Julie Allred Coonrod - Scan. Bob Schulz - B&C

ADDRESS: 8008 Penn. Cir. NE PHONE: 265-6941 - S&A 881-0108 - B&C

OWNER: C.O.A. Solid Waste Dept. CONTACT:

ADDRESS PHONE:

ARCHITECT: N/A CONTACT:

ADDRESS: PHONE:

SURVEYOR: N/A (City of Albuq) CONTACT:

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

(with AMAFCA)

____ YES DRB NO. ____

____ NO EPC NO. ____

____ COPY OF CONFERENCE RECAP SHEET PROVIDED PROJECT NO. ____

TYPE OF SUBMITTAL:

X DRAINAGE REPORT

____ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAIN. PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ PRELIMINARY PLAT APPROVAL

____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

____ BUILDING PERMIT APPROVAL

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

X GRADING/PAVING PERMIT APPROVAL

OTHER ____ (SPECIFY)

RECEIVED MAR 9 1990 HYDROLOGY DIVISION

DATE SUBMITTED: 3/9/90

BY: Scanlon & Assoc

Rev. 11/84

25 x 10

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PLANS/PLATS ON FILE

FILE DESC: L8/D9A

PLANS/PLATS 4

25×10

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25x