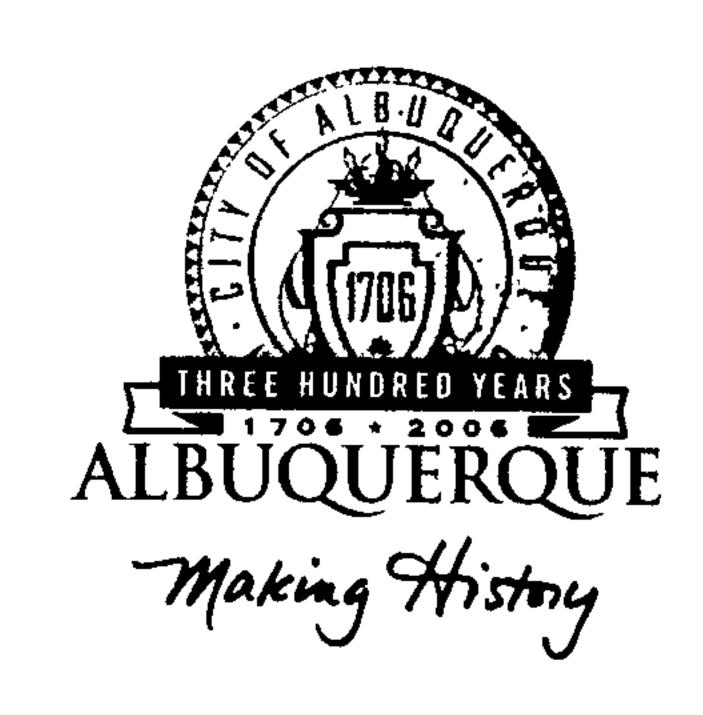
CITY OF ALBUQUERQUE



December 5, 2005

Mr. Joe P. Kelley, PE JC ENGINEERING, LLC 10006 N. 177TH E. Avenue Owasso, Ok 74055-7752

Re: DIRECT FUNERAL SERVICES PARKING FACILITY

401 Cordova Avenue NW

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 04/15/2004 (H-14/D97)

Certification dated 12/04/2005

Dear Joe:

P.O. Box 1293

Based upon the information provided in your submittal received 12/05/2005, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Sincerely,

Albuquerque

If you have any questions, you can contact me at 924-3982.

New Mexico 87103

Arlene V. Portillo

www.cabq.gov

Plan Checker, Planning Dept. - Hydrology Development and Building Services

C: CO Clerk File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/29/2003rd)

PROJECT TITLE Direct Funeral Services Parking Facility DRB#: EPC#:	ZONE MAP/DRG. FILE #: H14/D97 WORK ORDER #:
LEGAL DESCRIPTION: Lot 1-A, Block 1, Glenhaven Addition	
CITY ADDRESS: 401 Cordova NW	
ENGINEERING FIRM: JC Engineering, LLC	CONTACT: Joe P. Kelley, P.E.
ADDRESS: 10006 N. 177th E. Ave.	PHONE: 918-798-5979
CITY, STATE: Owasso, OK	ZIP CODE: 74055-7752
OWNER: Direct Funeral Services	CONTACT:
OWNER: Direct Funeral Services ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
	CONTACT: Tom Contac
ARCHITECT: Tom Gentry	CONTACT: Tom Gentry
ADDRESS: 901 Rio Grande NW, Suite D220-A	PHONE: <u>505-764-8550</u> ZIP CODE: 87104
CITY, STATE: Albuquerque, NM	ZIP CODE. <u>67 104</u>
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
DRAINAGE REPORT DRAINAGE PLAN 1 St SUBMITTAL, REQUIRES TCL or equivalent of the conceptual grading & drainage plan GRADING PLAN EROSION CONTROL PLAN X ENGINEER'S CERTIFICATION (HYDROLOGY) CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN) OTHER	S. DEV. PLAN FOR SUB'D. APPROVAL S. DEV. PLAN FOR BLDG. PRMT. APPROVAL SECTOR PLAN APPROVAL FINAL PLAT APPROVAL FOUNDATION PERMIT APPROVAL BUILDING PERMIT APPROVAL X CERTIFICATE OF OCCUPANCY (PERM.) CERTIFICATE OF OCCUPANCY (TEMP.)
WAS A PRE-DESIGN CONFERENCE ATTENDED: YES X NO COPY PROVIDED	OTHER(SPECIFY)
DATE SUBMITTED: Dec. 5, 2005	BY: Joe P. Kelley, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



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

May 28, 2004

Joe Kelley, PE
JC Engineering
1924 Roanoke Dr. NE
Rio Rancho, NM 87124

Re: Direct Funeral Services Parking Facility Drainage Report Engineer's Stamp dated 4-15-04 (H14/D97)

Dear Mr. Kelley,

Based upon the information provided in your submittal dated 4-16-04, the above referenced report is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE

Principal Engineer, Planning Dept. Development and Building Services

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/29/2003rd)

PROJECT TITLE DRB#:	E Direct Funeral Services Parking Facility EPC#:	ZONE MAP/DRG. FILE #: H14/D097 WORK ORDER #:
LEGAL DESCRI	PTION: Lot 1-A, Block 1, Glenhaven Addition	
	3: 401 Cordova NW	
ENGINEERING	FIRM: JC Engineering, LLC	CONTACT: Joe P. Kelley, P.E.
	RESS: 1924 Roanoke Dr. NE	PHONE: 263-9032
CITY,	, STATE: Rio Rancho, NM	ZIP CODE: 87144-5532
OWNER: Direc	t Funeral Services	CONTACT:
	RESS:	PHONE:
CITY,	, STATE:	ZIP CODE:
ADCHITECT:	Tom Contra	CONTACT: Tom Gentry
ARCHITECT:	Tom Gentry RESS: 1125 Montclaire Dr. NE	PHONE: 262-5455
 -	, STATE: Albuquerque, NM	ZIP CODE: 87110
SURVEYOR:		CONTACT:
	RESS:	PHONE:ZIP CODE:
CITT,	, STATE:	
CONTRACTOR:		CONTACT:
ADDI	RESS:	PHONE:
CITY,	, STATE:	ZIP CODE:
TYPE OF SUBM	AITTAI ·	CHECK TYPE OF APROVAL SOUGHT:
	INAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
	INAGE PLAN 1 st SUBMITTAL, REQUIRES TCL or ed	
DRA	INAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D. APPROVAL
CON	ICEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
X GRA	DING PLAN	SECTOR PLAN APPROVAL
X ERO	SION CONTROL PLAN	FINAL PLAT APPROVAL
ENG	INEER'S CERTIFICATION (HYDROLOGY)	FOUNDATION PERMIT APPROVAL
·	MR/LOMR	X BUILDING PERMIT APPROVAL
	FFIC CIRCULATION LAYOUT (TCL)	CERTIFICATE OF OCCUPANCY (PERM.)
	INEERS CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP.)
	INEERS CERTIFICATION (DRB APPR. SITE PLAN)	
OTH	EK	PAVING PERMIT APPROVAL WORK ORDER APPROVAL
YES NO		1 6 2004 (SPECIFY)
COP	Y PROVIDED HYDROL	OGY SECTION
DATE SUB	MITTED: April 16, 2004	BY: Joe P. Kelley, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

JC-Engineering, LLC

1924 Roanoke Dr. NE Rio Rancho, NM 87144-5532 Tel(505)263-9032 Fax (505)867-9304 www.jcengineering.com

Drainage Report

For

Direct Funeral Services Parking Facility 401 Cordova NW

In

Albuquerque, New Mexico



April 2004

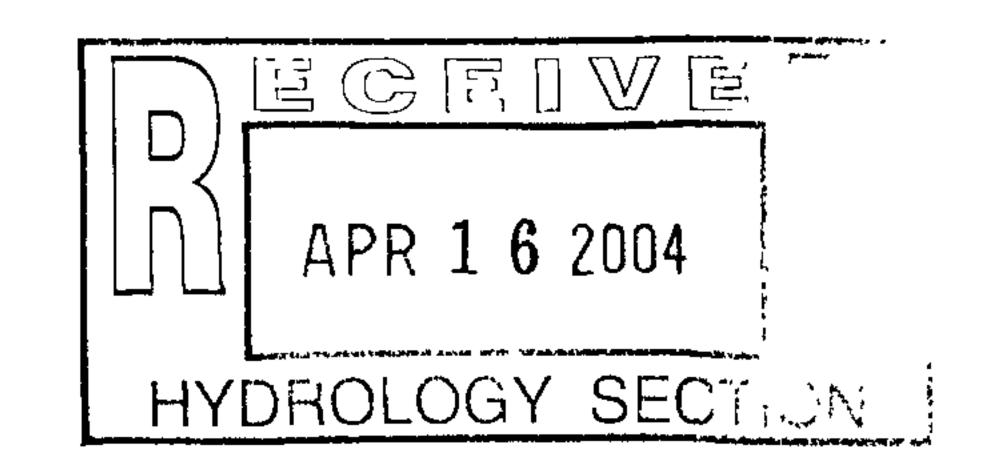


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Grading Plan	Sheet C1

Purpose

This drainage report provides the hydrologic rationale for the development of the Direct Funeral Services Parking Facility at 401 Cordova NW.

Project Location

The project is located across the street from the main buildings of the Direct Funeral Services site, in a C-2 zone. It is one building west of Fourth Street, a major City of Albuquerque street, and two blocks north of Menaul. The area is completely developed, and the buildings fronting on Fourth Street are all commercial, while the lots located off of the Fourth Street thoroughfare are all residentially developed.

Floodplain

Per FEMA FIRM Map 35001C0328, dated Sept., 1996, this site is not within a designated FEMA floodplain.

Existing Conditions

When the site was purchased for this project, it consisted of an old residential house. The house has now been torn down, and the foundations remain (as indicated on the grading plan). There is one tree and some other minor vegetation on the site. A two-story brick building abuts the site on the north (i.e., zero lot line). The building to the west is a house, while there is a commercial building to the east. As indicated on the grading plan, there are wood fences and iron fences on the lot lines shared with those properties.

The historic drainage pattern has been free discharge to the street. There are storm inlets located at a local low point on both sides of the street, 240' to the west.

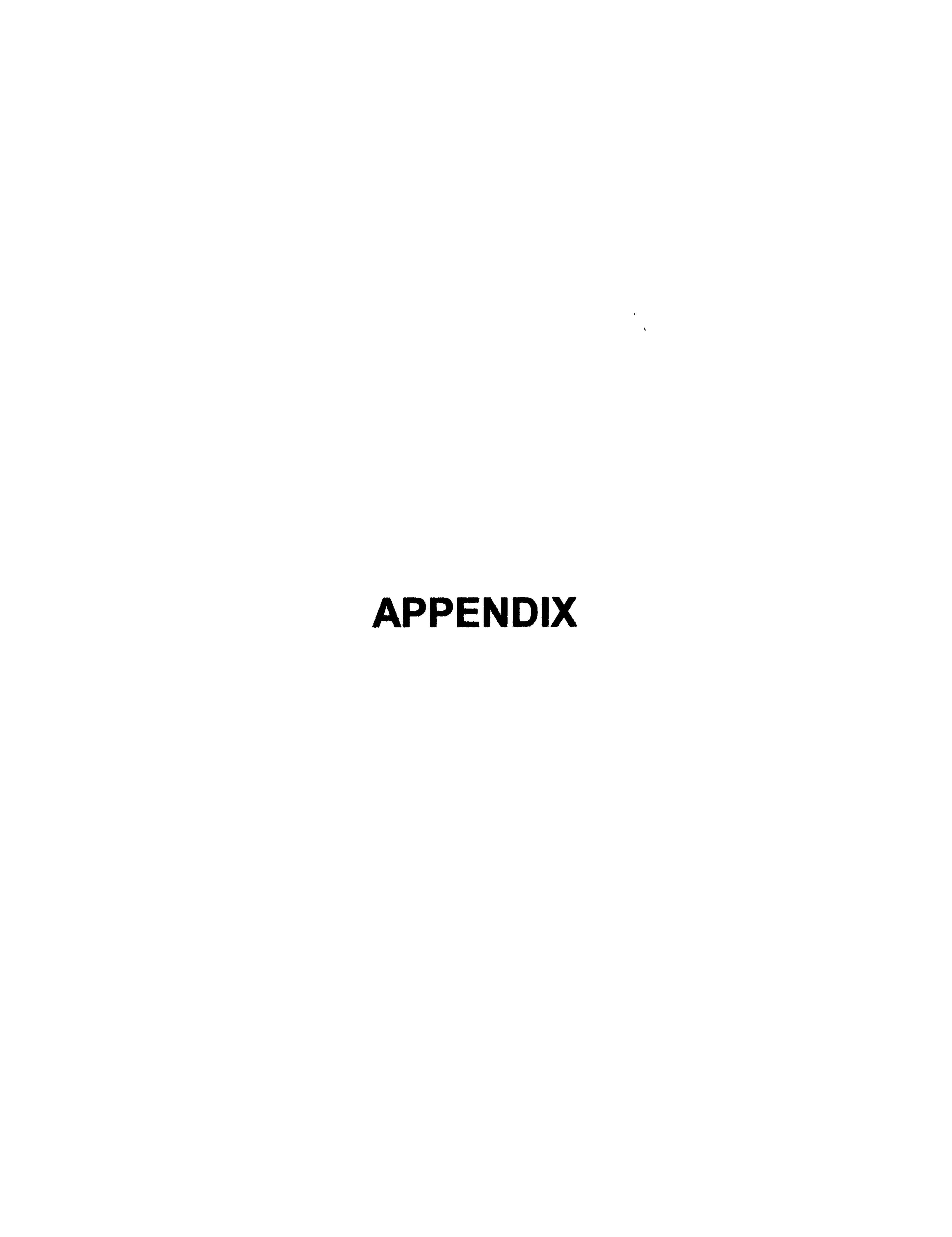
Developed Conditions

The site is going to be developed as a commercial parking garage for funeral vehicles, with a paved driveway and some new landscaping. The perimeter fences will be removed and replaced, the sidewalk will be improved, and the driveway will be widened.

The new drainage pattern will be identical to the existing—sheet flow to the street. As indicated in the summary table below, there will be a slight increase in runoff of 0.0038 ac-ft (=166 cu.ft.). Because the public storm drainage facilities are so close, and because the increase in runoff is so minor, the continuation of the existing drainage pattern is proposed.

Hydrologic Summary

Description	Flow (cfs)	Volume (ac-ft)	Page Reference
Pre-project Runoff	0.37	0.0114	A-1
Post-project Developed Runoff	0.45	0.0152	A-2



```
\square (s16.67h8.5v0T\square&18D
                                                     - Version: 1997.02d
       AHYMO PROGRAM (AHYMO 97) -
           RUN DATE (MON/DAY/YR) = 04/15/2004
           START TIME (HR:MIN:SEC) = 14:31:24 USER NO.= AHYMO-I-9702c01000S33-AH
           INPUT FILE = C:\DOCUME~1\ALLUSE~1\DOCUME~1\JCEng\Projects\DIRECT~1\HYDROL~2\DIRECT~1.DTA
                            JC ENGINEERING
   *S
*S DIRECT FUNERAL PARKING FACILITY--401 CORDOVA NW
   *S AHYMO HYDROLOGIC ANALYSIS
   *S 100-YEAR, 6-HOUR STORM
   *S
                               CODE 0
                                         LINES -6
                     TIME=0.0
   START
   LOCATION
                     ALBUQUERQUE
        City of Albuquerque soil infiltration values (LAND FACTORS) used for computations.
        Land Treatment Initial Abstr.(in)
                                           Unif. Infilt.(in/hour)
                                             1.67
                         0.65
             Α
                                             1.25
                         0.50
                                             0.83
                         0.35
                                             0.04
                         0.10
                     TYPE=-1 RAIN QUARTER=0.0 RAIN ONE=1.92
   RAINFALL
                      RAIN SIX=2.20 RAIN DAY=2.65 DT=0.03333
                 COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
                                                        5.999400 HOURS
                                          END TIME =
                        .033330 HOURS
                 DT =
*S***************************
   *S COMPUTE RUNOFF UNDER PRE-PROJECT CONDITIONS. THIS IS A RESIDNETIAL NEIGH-
   *S BORHOOD NEXT TO A COMMERCIAL DISTRICT, AND THERE USED TO BE A HOUSE ON THIS
   *S LOT. IT HAS BEEN TORN DOWN BUT THE FOUNDATIONS STILL REMAIN, SO THE
   *S OLD IMPERVIOUS AREA CAN BE EASILY COMPUTED.
                     ID=1 HYD=BASIN EXIST DA=0.0001697 SQ MI
   COMPUTE NM HYD
                      PER A=0 PER B=27 PER C=37 PER D=36 TP=0.1333
                      MASS RAINFALL=-1
                                                                    SHAPE CONSTANT, N = 7.106420
                                           K/TP RATIO = .545000
                               .133300HR
             .072649HR
                         TP =
        K =
                                                                              P60 = 1.9200
                                                                   526.28
        UNIT PEAK = .24119 CFS UNIT VOLUME = .9546 B =
                   .000061 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
        AREA =
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330
        K = .116797HR TP = .133300HR K/TP RATIO = .876194 SHAPE CONSTANT, N = 4.052364
        UNIT PEAK = .29221 CFS UNIT VOLUME = .9532 B = 358.65
                                                                              P60 = 1.9200
                                        .41328 INCHES INF = 1.00719 INCHES PER HOUR
                   .000109 SQ MI IA =
        AREA =
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .0333330
                            CODE=1
   PRINT HYD ID=1
                                         HYDROGRAPH FROM AREA BASIN EXIST
       RUNOFF VOLUME = 1.26429 INCHES = .0114 ACRE-FEET
       PEAK DISCHARGE RATE = .37 CFS AT 1.500 HOURS BASIN AREA = .0002 SQ. MI.
   *S NOW COMPUTE THE RUNOFF UNDER PROPOSED CONDITIONS
                     ID=1 HYD=BASIN DEV DA=0.0001697 SQ MI
   COMPUTE NM HYD
                      PER A=0 PER B=13 PER C=13 PER D=74 TP=0.1333
                      MASS RAINFALL=-1
        K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
        UNIT PEAK = .49579 CFS UNIT VOLUME = .9751 B = 526.28 P60 = 1.9200
        AREA = .000126 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .0333330
        K = .118716HR TP = .133300HR K/TP RATIO = .890595 SHAPE CONSTANT, N = 3.982164
```

Direct Funeral Parking Facility Drainage Report

100-Year AHYMO Output File

UNIT PEAK = .11717 CFS UNIT VOLUME = .8869 B = 353.98 P60 = 1.9200 AREA = .000044 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA BASIN_DEV

RUNOFF VOLUME = 1.67466 INCHES = .0152 ACRE-FEET PEAK DISCHARGE RATE = .45 CFS AT 1.500 HOURS BASIN AREA = .0002 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 14:31:24 \square (s0p10h4099T \square &16D \square