



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 30, 2004

Diane Hoelzer, P.E.
Mark Goodwin & Associates, PA
P.O. Box 90606
Albuquerque, NM 87199

Re: Desert Ridge Trails South, SIA/Financial Guarantee Release
Engineer's Stamp dated 4-23-03 (C19/D31)
Certification dated 4-30-04

Dear Ms. Hoelzer,

Based upon the information provided in your submittal received 4-30-04, the above referenced certification is approved for release of SIA and Financial Guarantee.

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

C: Marilyn Maldonado, COA# 698281
file



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 16, 2003

Diane Hoelzer, PE
Mark Goodwin & Associates
P.O. 90606
Albuquerque, NM 87199

**Re: Desert Ridge Trails South Subdivision Revised Grading Plan
Engineer's Stamp dated 4-23-03 (C19/D31)**

Dear Ms. Hoelzer,

Based upon the information provided in your submittal dated 4-23-03, the above referenced plan is approved for Grading Permit. This is now the plan that must be certified for release of SIA and Financial Guarantee. Please keep in mind that the infrastructure list may need to be amended to remove the channel.

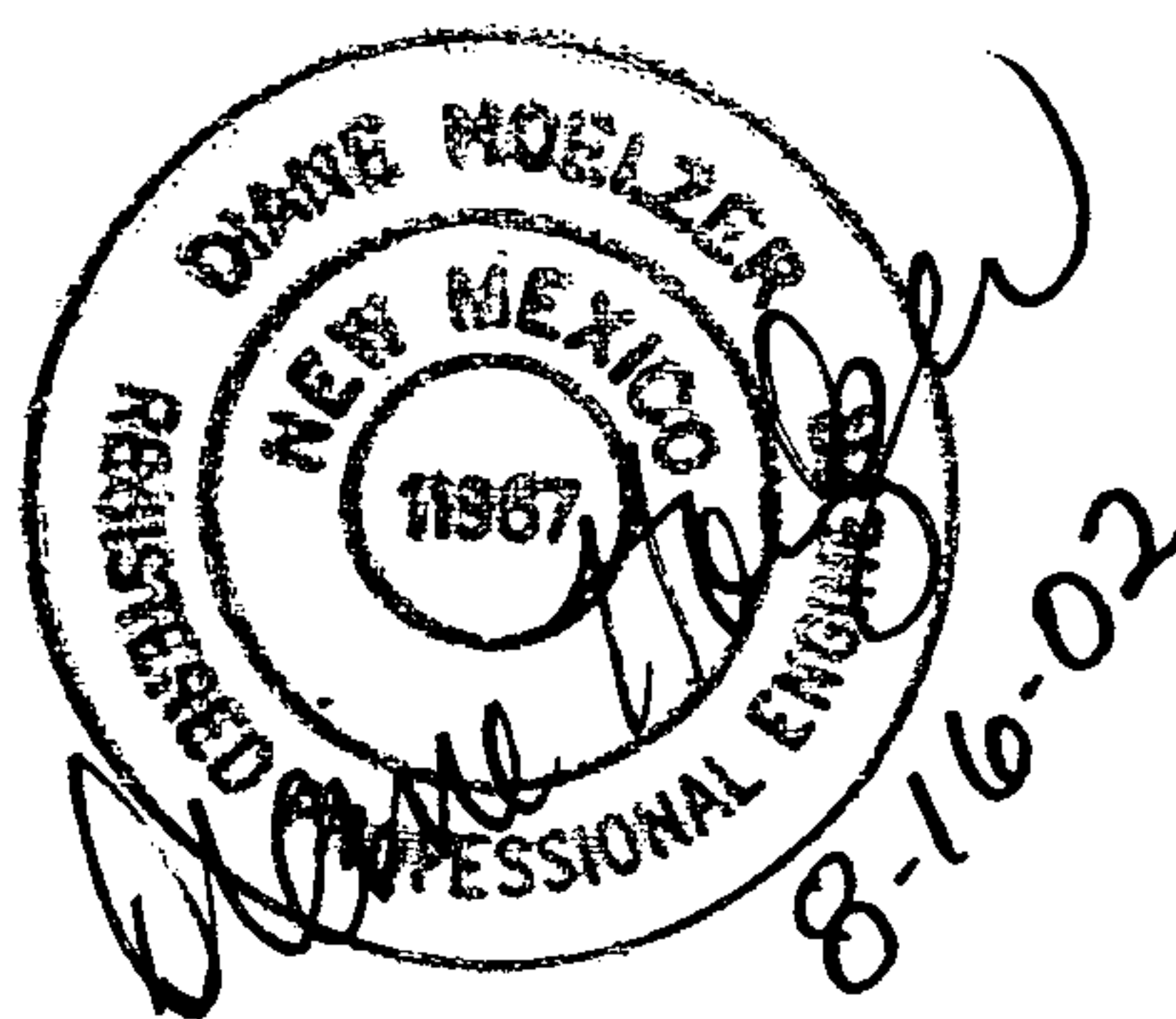
If you have any questions, you can contact me at 924-3986.

Sincerely,

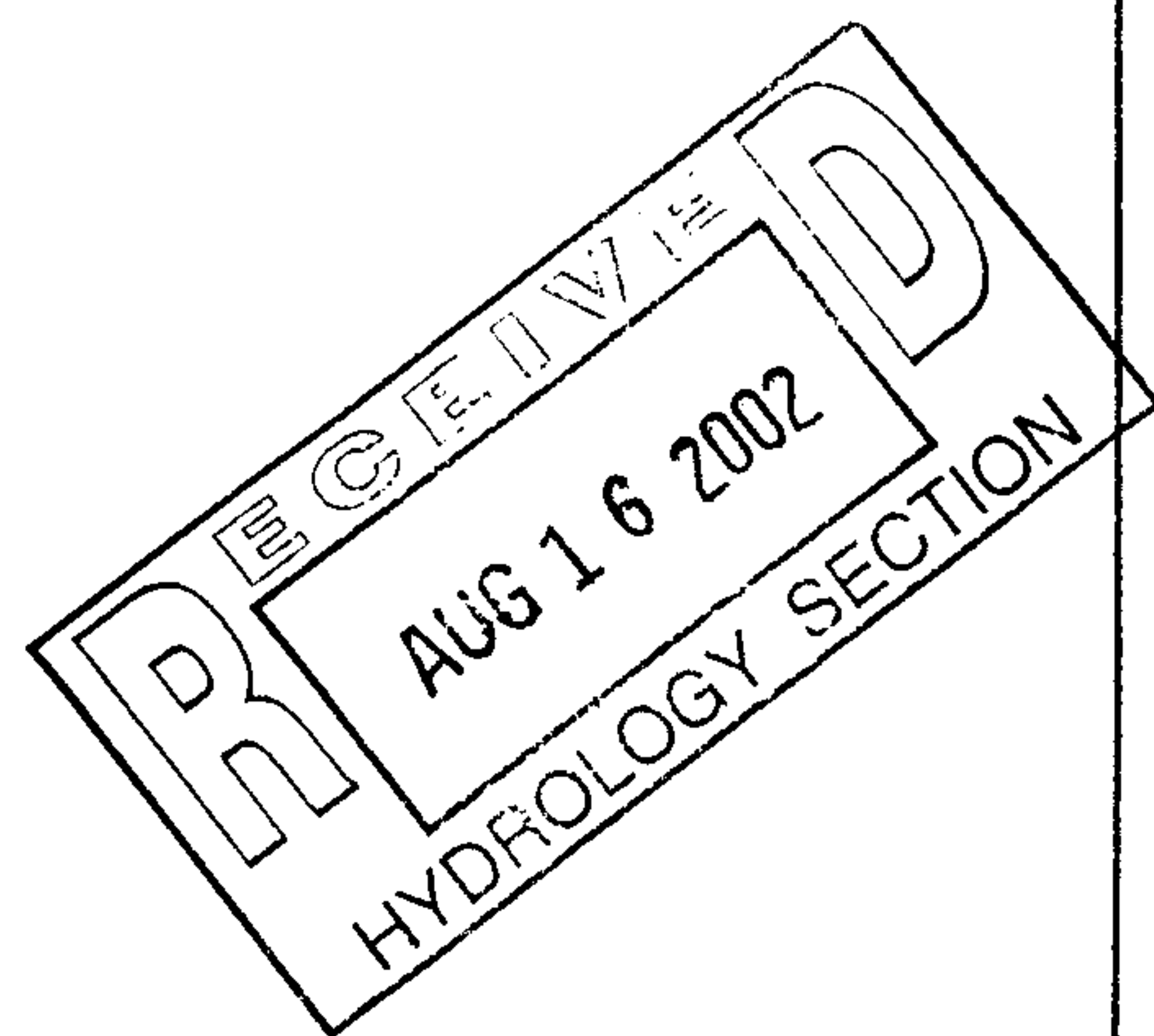
Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

C: file

DRAINAGE REPORT
for
Desert Ridge Trails South



AUGUST 2002
DLH



I. PROJECT DESCRIPTION

The proposed Desert Ridge Trails South Subdivision comprises approximately 1.683 acres to be developed into 9 single family homes. The project site is located south of the La Cueva channel that is currently under construction in association with the developing Desert Ridge Trails project, east of the existing Eagle Rock Unit 1 subdivision and north of the existing Vista del Aguilla subdivision. The gross and net density is 5.0 DU / ACRE.

II. DRAINAGE DESIGN CRITERIA AND PREVIOUS REPORTS

The design criteria used in this report was in accordance with Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria, January 1993 edition. The 100-year 6-hour storm event was analyzed to determine street capacities using $P(1 \text{ hr})=2.15"$, $P(6 \text{ hr})=2.55"$. The onsite Land Treatment values used were Treatment D=52, Treatment C=24 and Treatment B=24 as determined using "Table A-5 Percent Treatment D" in the DPM. AHYMO printouts are provided in Appendix A.

III. EXISTING DRAINAGE CONDITIONS

Under existing drainage conditions runoff from the site flows to the north and west towards the La Cueva channel. Currently the La Cueva concrete lined channel is under construction as part of City Project No. 677181. No offsite flows from the existing Eagle Rock Unit 1 and Vista del Aguilla subdivisions from the west and south enter the project site.

IV. DEVELOPED DRAINAGE CONDITIONS

The total 'developed conditions' flow from this site is 6.74 cfs. There is an existing north-south 30" RCP storm sewer that conveys runoff from the Vista del Aguilla temporary detention pond north to the La Cueva channel. Runoff from this project will be intercepted through a sump inlet to be located at the north terminus of Vistas Drive near Lot 4 which will be connected to the existing 30" storm sewer through an 18" storm sewer.

A private cross lot (concrete) 1.0' wide drainage channel (see the G&D Plan) will be constructed along the west backyards of Lots 1 through 4 adjacent to the existing Eagle Rock Unit 1 subdivision. These back yards on these four lots are graded to drop between 1.5' to 2.0' from the finished pad elevation in an effort to minimize the grade differential between this project and the adjacent subdivision.

There is a waterblock in Vistas Drive between Vista del Aguilla subdivision and our project that prevents cross project flows.

AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
 INPUT FILE = DRTR_S.DAT

RUN DATE (MON/DAY/YR) =08/16/2002
 USER NO.= M_GOODWN.101

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 2.550
COMPUTE NM HYD	100.00	-	1	.00263	6.74	.241	1.71981	1.500	4.007	PER IMP= 52.00
COMPUTE NM HYD	200.00	-	1	.00781	20.78	.757	1.81880	1.500	4.160	PER IMP= 60.00
FINISH										

START TIME=0.0
 ***** DESERT RIDGE TRAIL SOUTH SUBDIVISION
 ***** 100-YEAR 6-HOUR STORM EVENT
 ***** FILE: DRTR_S.DAT AUG 2002 BY:DLH
 RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
 RAIN ONE=2.15 IN RAIN SIX=2.55 IN
 RAIN DAY=2.95 IN DT=0.05 HR

 ***** DEVELOPED CONDITIONS *****

 ***** SUBASIN 100 (DESERT RIDGE TRAILS SOUTH)
 ***** 1.683 ACRES

 COMPUTE NM HYD ID=1 HYD NO=100.0 AREA=0.002630 SQ MI
 PER A=0 PER B=24 PER C=24 PER D=52
 TP=0.1333 HR MASS RAINFALL=-1
 PRINT HYD ID=1 CODE=1

 ***** OFFSITE SUBASIN 200 (VISTA DEL AGUILLA)
 ***** 8 DU / ACRE
 ***** 4.996 ACRES

 COMPUTE NM HYD ID=1 HYD NO=200.0 AREA=0.007807 SQ MI
 PER A=0 PER B=20 PER C=20 PER D=60
 TP=0.1333 HR MASS RAINFALL=-1
 PRINT HYD ID=1 CODE=1
 FINISH