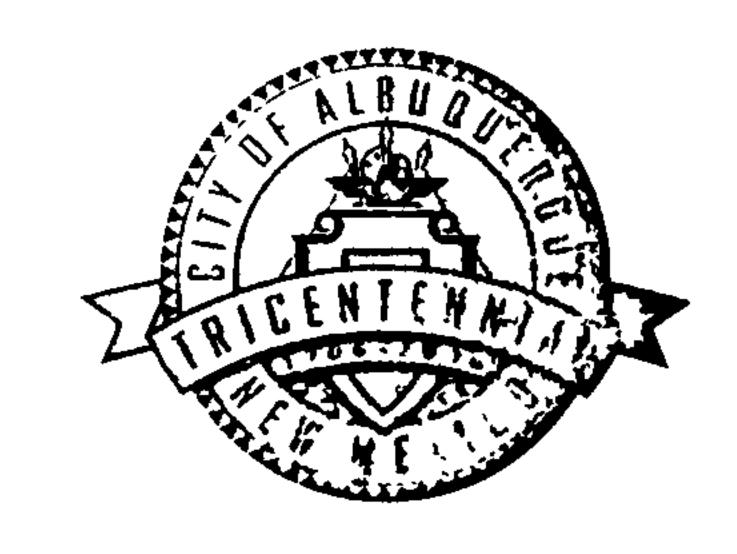
CITY OF ALBUQUERQUE



October 25, 2006

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

Re: Sundoro Park Grading and Drainage Plan Engineer's Stamp dated 10-13-06 (J9/D19D)

Dear Ms. Hoelzer,

Based upon the information provided in your submittal dated 10-19-06, the above referenced plan is approved for Work Order. Minor comments, if any, can be addressed at DRC.

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Luta 4

Curtis A. Cherne, E.I.

Engineering Associate, Planning Dept. Development and Building Services

file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

J-9/D19D

PROJECT TITLE: <u>Sundoro Park</u> فينك EPC#:	ZONE MAP/DRG. FILE #: <u>J-8/9</u> WORK ORDER#:
LEGAL DESCRIPTION: <u>Tract A Plat of Sundoro Park Unit Ac</u> CITY ADDRESS: <u>Endee Road, Albuquerque, NM</u>	
ENGINEERING FIRM: Mark Goodwin & Associates, PA ADDRESS: PO Box 90606 CITY, STATE: Albuquerque, NM	CONTACT: <u>Diane Hoelzer</u> PHONE: <u>828-2200</u> ZIP CODE: <u>87199</u>
OWNER: WESTLAND DEVELOPMENT CO., INC. ADDRESS: 401 Coors NW CITY, STATE: Albuquerque, NM	CONTACT: <u>Leroy Chavez</u> PHONE: <u>831-9600</u> ZIP CODE: <u>87121</u>
ARCHITECT: Consensus Planning ADDRESS: 302 Eight St. NW CITY, STATE: Albuquerque, NM	
SURVEYOR: ADDRESS: CITY, STATE: David Hydrology 135 45	CONTACT: PHONE: ZIP CODE:
CONTRACTOR: ADDRESS: CITY, STATE:	CONTACT: PHONE: ZIP CODE:
CHECK TYPE OF SUBMITTAL:	HECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT DRAINAGE PLAN 1 st SUBMITTAL, REQUIRES TCL or equal	SIA / FINANCIAL GUARANTEE RELEASE PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL CONCEPTUAL SRADING & DRAINAGE PLAN GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION (HYDROLOGY) CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) ENGINEERS CERTIFICATION (TCL) ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN) OTHER	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 (PERM.) CERTIFICATE OF OCCUPANCY (TEMP.) GRADING PERMIT APPROVAL WORK ORDER APPROVAL

DATE SUBMITTED: October 13, 2006

BY: DIANE HOELZER, PE

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



August 2, 2006

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

Re: Sundoro Park Grading and Drainage Plan

Engineer's Stamp dated 7-25-06 (J9/D19D)

Dear Ms. Hoelzer,

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Based upon the information provided in your submittal dated 7-26-06, the above referenced plan is approved for Site Development Plan for Building Permit action by the DRB.

The following comments will need to be addressed for Work Order approval.

• How is the runoff in the earth swale conveyed to Endee Road?

- The playing surface of the tennis courts would be improved if the park did not drain over them.
- Provide a means to convey the runoff from the area south/southeast of the basketball courts to Endee Road without going across the lot to the east. Can it be routed through the sidewalk culvert?
- Provide a few inverts in the earth swale.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, E.I.

Engineering Associate, Planning Dept. Development and Building Services

BUS

C: file

Brad Bingham

Mbuquerque - Making History 1706-2006

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

J-9/D19D

PROJECT TITLE: Sundoro Park DRB #: EPC#:	ZONE MAP/DRG. FILE #: <u>J-8/9</u> WORK ORDER#:
LEGAL DESCRIPTION: <u>Tract A Plat of Sundoro Park Unit Ac</u> CITY ADDRESS: <u>Endee Road, Albuquerque, NM</u>	
ENGINEERING FIRM: Mark Goodwin & Associates, PA ADDRESS: PO Box 90606 CITY, STATE: Albuquerque, NM	CONTACT: <u>Pavan K. Toleti</u> PHONE: <u>828-2200</u> ZIP CODE: <u>87199</u>
OWNER: WESTLAND DEVELOPMENT CO., INC. ADDRESS: 401 Coors NW CITY, STATE: Albuquerque, NM	CONTACT: <u>Leroy Chavez</u> PHONE: <u>831-9600</u> ZIP CODE: <u>87121</u>
ARCHITECT: Consensus Planning ADDRESS: 302 Eight St. NW CITY, STATE: Albuquerque, NM	CONTACT: <u>Chris Green</u> PHONE: 505-764-9801 ZIP CODE: <u>87102</u>
SURVEYOR: ADDRESS: CITY, STATE:	CONTACT: PHONE: ZIP CODE:
CONTRACTOR: ADDRESS: CITY, STATE:	CONTACT: PHONE: ZIP CODE:
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
 □ DRAINAGE REPORT □ DRAINAGE PLAN 1st SUBMITTAL, <i>REQUIRES TCL or equal</i> □ DRAINAGE PLAN RESUBMITTAL ○ CONCEPTUAL GRADING & DRAINAGE PLAN ○ GRADING PLAN □ EROSION CONTROL PLAN □ ENGINEER'S CERTIFICATION (HYDROLOGY) □ CLOMR/LOMR □ TRAFFIC CIRCULATION LAYOUT (TCL) □ ENGINEERS CERTIFICATION (TCL) □ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN) □ OTHER 	SIA / FINANCIAL GUARANTEE RELEASE 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 (PERM.) CERTIFICATE OF OCCUPANCY (TEMP.) GRADING PERMIT APPROVAL PAVING PERMIT APPROVAL WORK ORDER APPROVAL OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED: ☐ YES ☐ NO ☐ COPY PROVIDED	D) 国 区 区 V 区 D) JUL 2 6 2006 HYDROLOGY SECTION
DATE SUBMITTED: July 26, 2006	BY: Pavan K. Toleti (T. Pavank, meh)

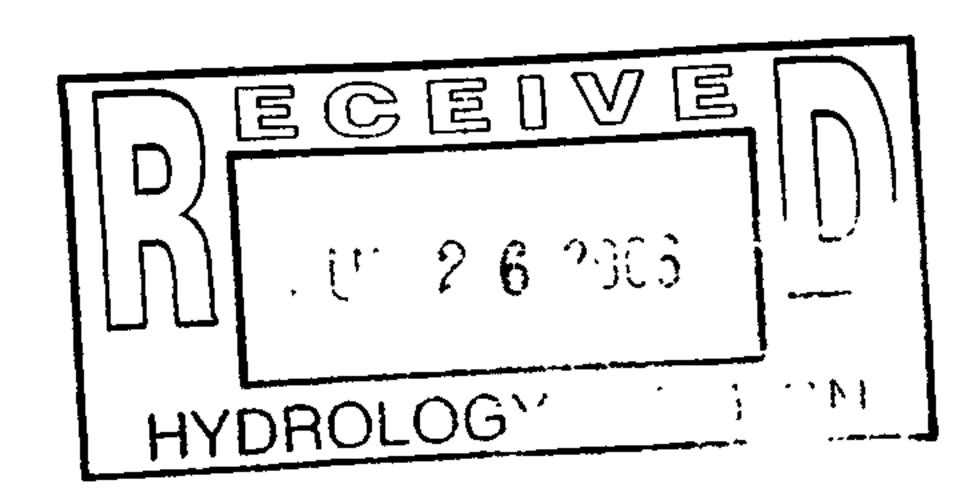
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- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

VILLARRICA GALERAS -18-P 19-6 20-P 22-P

D E C E I W E D D JUL 2 6 2006 HYDROLOGY SECTION

	GRAM SUMMARY TABLE (E = C:\DOCUME~1\PAVA	_	•	N\SUNDAR~1.		VERSION:	1997.02D		•	/YR) =07/2: 9702DGOODW:	
		FROM	TO		PEAK	RUNOFF		TIME TO	CFS	PAGE =	1
	HYDROGRAPH	ID	ID	AREA	DISCHARGE	VOLUME	RUNOFF	PEAK	PER		
COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATIO	NC
*S AHY	MO 97 MODEL FOR: SUN	DORO I	ARK DRAI	NAGE							
*S PRE	PARED FOR: C.O.A										
*S PRE	PARED BY: MARK GOOD	MIN &	ASSOCIAT	ES							
* \$											
*S MOD	EL DESCRIPTION -										
	-YEAR 6-HOUR RAINFAL										
*S 2. THI	S MODEL ASSUMES EXIS	TING A	ND DEAEI	OPED CONDIT	PIONS						
*S										MTV	00
START										TIME=	.00
_	HYMO - SUNDORO PARK.	DAT									
_	ULY 21, 2006				NAME OF THE OFFI	o onerme					
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RAINFALL										KAINO-	2.200
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COMPUTE N	M HYD 102.00	-	2	.00490	10.47	. 349	1.3342	5 1.499	5.331	PER IMP=	45.00
FINISH											



- VERSION: 1997.02D AHYMO PROGRAM (AHYMO 97) -RUN DATE (MON/DAY/YR) = 07/21/2006START TIME (HR:MIN:SEC) = 15:39:34 USER NO.= AHYMO-I-9702DGOODWINM-AH INPUT FILE = C:\DOCUME~1\PAVAN\DESKTOP\PAVAN\SUNDAR~1.TXT AHYMO 97 MODEL FOR: SUNDORO PARK DRAINAGE PREPARED FOR: C.O.A PREPARED BY: MARK GOODWIN & ASSOCIATES *\$ MODEL DESCRIPTION -*\$ 1. 100-YEAR 6-HOUR RAINFALL EVENT *S 2. THIS MODEL ASSUMES EXISTING AND DEVELOPED CONDITIONS *S START TIME=0.0*S**** AHYMO - SUNDORO PARK. DAT *S**** JULY 21, 2006 *S**** HYDROLOGY FOR SUNDORO PARK UNDEVELOPED ONSITE AND DEVELOPED ONSITE TYPE=1 RAIN QUARTER=0.0 IN RAINFALL RAIN ONE=1.90 IN RAIN SIX=2.20 IN RAIN DAY=2.67 IN DT=0.0333 HR

> COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR. 5.994000 HOURS .033300 HOURS END TIME = DT =.0013 .0069 .0084 .0027 .0041 .0000 .0055 .0199 .0099 .0115 .0131 .0147 .0164 .0181 .0255 .0275 .0317 .0339 .0217 .0236 .0296 .0522 .0362 .0411 .0437 .0492 .0386 .0464 .0913 .0553 .0621 .0673 .0586 .0729 .0789 .2264 .3124 .7500 .1634 . 4256 . 5701 .1196 1.2673 1.3402 1.4049 1.4637 1.1808 1.5178 . 9698 1.5681 1.6150 1.6590 1.7004 1.7395 1.7764 1.8113 1.8444 1.8758 1.9056 1.9338 1.9733 1.9607 1.9678 1.9884 1.9786 1.9836 1.9930 1.9974 2.0016 2.0056 2.0170 2.0205 2.0306 2.0095 2.0133 2.0240 2.0273 2.0398 2.0428 2.0337 2.0368 2.0456 2.0484 2.0512 2.0538 2.0565 2.0590 2.0615 2.0640 2.0664 2.0688 2.0712 2.0735 2.0757 2.0779 2.0801 2.0823 2.0844 2.0865 2.0885 2.0906 2.0925 2.0945 2.0965 2.0984 2.1003 2.1021 2.1039 2.1058 2.1076 2.1093 2.1111 2.1128 2.1145 2.1162 2.1179 2.1195 2.1211 2.1228 2.1243 2.1259 2.1275 2.1290 2.1306 2.1321 2.1336 2.1351 2.1365 2.1380 2.1394 2.1409 2.1423 2.1437 2.1451 2.1465 2.1478 2.1492 2.1505 2.1519 2.1532 2.1545 2.1558 2.1571 2.1584 2.1596 2.1609 2.1621 2.1634 2.1646 2.1658 2.1670 2.1682 2.1694 2.1706 2.1718 2.1730 2.1741 2.1753 2.1764 2.1776 2.1787 2.1798 2.1809 2.1820 2.1831 2.1842 2.1853 2.1864 2.1875 2.1885 2.1896 2.1906 2.1917 2.1927 2.1938 2.1948 2.1958 2.1968 2.1978 2.1988 2.1998

*S**** BASIN 1 - UNDEVELOPED (3.31 ACRES)

COMPUTE NM HYD ID=1

ID=1 HYD NO=101 AREA=0.0049 SQ MI PER A=45 PER B=5 PER C=50 PER D=0 TP=0.1333 HR MASS RAINFALL=-1

SHAPE CONSTANT, N = 3.539485TP = .133300HRK/TP RATIO = .997434K = .132958HR. 9992 P60 = 1.9000UNIT VOLUME = 323.20 11.881 UNIT PEAK = CFS .49250 INCHES INF = 1.22900 INCHES PER HOUR.004900 SQ MI IA = AREA = RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=1 CODE=24

PARTIAL HYDROGRAPH 101.00

TIME	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME	FLOW CFS	TIME HRS	FLOW
.000	.0	1.332 1.998	.1	2.664	.1				

RUNOFF VOLUME = .69481 INCHES = .1816 ACRE-FEET

PEAR DISCHARGE RATE = 6.50 CFS AT 1.532 HOURS BASIN AREA = .0049 SQ. MI.

*S**** BASIN - DEVELOPED (3.31 ACRES)

COMPUTE NM HYD ID=2 HYD NO=102 AREA=0.0049 SQ MI
PER A=0 PER B=30 PER C=25 PER D=45
TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420 UNIT PEAK = 8.7055 CFS UNIT VOLUME = .9980 B = 526.28 P60 = 1.9000 AREA = .002205 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .119599HR TP = .133300HR K/TP RATIO = .897217 SHAPE CONSTANT, N = 3.950834 UNIT PEAK = 7.1141 CFS UNIT VOLUME = .9985 B = 351.88 P60 = 1.9000 AREA = .002695 SQ MI IA = .43182 INCHES INF = 1.05909 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=2 CODE=24

PARTIAL HYDROGRAPH 102.00

TIME	FLOW								
HRS	CFS								
. თეი	. 0	1.332	2.0	2.664	. 2	3.996	.0	5.328	.0
. 666	. 0	1.998	2.0	3.330	.0	4.662	. 0	5.994	.0

RUNOFF VOLUME = 1.33425 INCHES = .3487 ACRE-FEET

PEAK DISCHARGE RATE = 10.47 CFS AT 1.499 HOURS BASIN AREA = .0049 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 15:39:34

CITY OF ALBUQUERQUE



September 20, 2006

John M. McKenzie, P.E. Mark Goodwin & Associates, PA P.O. Box 90606 Albuquerque, NM 87199

Sundoro Park Grading and Drainage Plan Re: Engineer's Stamp dated 9-7-06 (J9/D19D)

Dear Mr. McKenzie,

Based upon the information provided in your submittal dated 9-7-06, the above referenced plan is approved for Work Order. The minor comments I have can be addressed at DRC.

Sincerely,

Curtis A. Cherne, E.I.

Engineering Associate, Planning Dept.

Development and Building Services

PO. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

J-9/D19D

PROJECT TITLE: Sundoro Park DRB #: EPC#:	ZONE MAP/DRG. FILE #: <u>J-8/9</u> WORK ORDER#:
LEGAL DESCRIPTION: <u>Tract A Plat of Sundoro Park Unit Ac</u> CITY ADDRESS: <u>Endee Road, Albuquerque, NM</u>	
ENGINEERING FIRM: Mark Goodwin & Associates, PA ADDRESS: PO Box 90606 CITY, STATE: Albuquerque, NM	CONTACT: <u>Pavan K. Toleti</u> PHONE: <u>828-2200</u> ZIP CODE: <u>87199</u>
OWNER: WESTLAND DEVELOPMENT CO., INC. ADDRESS: 401 Coors NW CITY, STATE: Albuquerque, NM	CONTACT: <u>Leroy Chavez</u> PHONE: <u>831-9600</u> ZIP CODE: <u>87121</u>
ARCHITECT: Consensus Planning ADDRESS: 302 Eight St. NW CITY, STATE: Albuquerque, NM	CONTACT: <u>Chris Green</u> PHONE: 505-764-9801 ZIP CODE: <u>87102</u>
SURVEYOR: ADDRESS: CITY, STATE:	CONTACT: PHONE: ZIP CODE:
CONTRACTOR: ADDRESS: CITY, STATE:	CONTACT: PHONE: ZIP CODE:
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
 □ DRAINAGE REPORT □ DRAINAGE PLAN 1st SUBMITTAL, <i>REQUIRES TCL or equal</i> □ DRAINAGE PLAN RESUBMITTAL □ CONCEPTUAL GRADING & DRAINAGE PLAN □ GRADING PLAN □ ENGINEER'S CERTIFICATION (HYDROLOGY) □ CLOMR/LOMR □ TRAFFIC CIRCULATION LAYOUT (TCL) □ ENGINEERS CERTIFICATION (TCL) □ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN) □ OTHER 	SIA / FINANCIAL GUARANTEE RELEASE 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 (PERM.) CERTIFICATE OF OCCUPANCY (TEMP.) GRADING PERMIT APPROVAL PAVING PERMIT APPROVAL WORK ORDER APPROVAL OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED: YES NO COPY PROVIDED	D
DATE SUBMITTED: August 29, 2006	BY: Pavan K. Toleti (T. Pavankuma)

DATE SUBMITTED: August 29, 2006

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope ot 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:

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- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539

August 29, 2006

Curtis A. Cherne, E.I.
Engineering Associate, Planning Department
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Sundoro Park Grading and Drainage Plan Engineer's stamped dated 8-29-2006 (J9/D19D)

Dear Mr. Cherne:

Our office has received your comments letter, dated August 2, 2006, which asks for more information to be provided on our grading and drainage plan for the referenced site.

Your itemized comments have been addressed as follows:

- The emergency overflow swale extends south from Vallarrea st to the park's parking lot and then spills into Endee Road from there.
- A swale runs around the tennis court towards south and east ultimately to Endee Rd
- An earthen berm and a swale run along the south and south east of the basket ball court which prevents water from entering the lots to the east. (this lot has the existing garden wall as shown on plan).
- We have added the inverts to the earth swale per your comment.

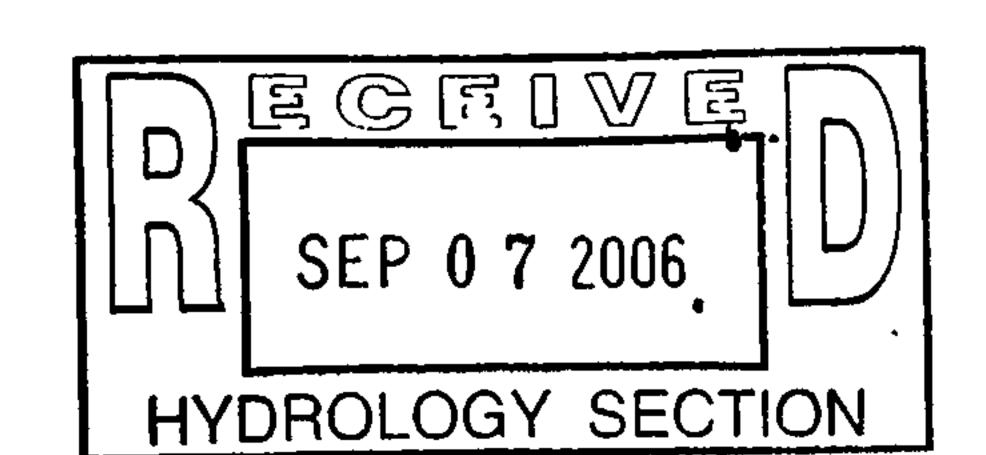
Please contact our office if you have any questions.

Sincerely, MARK GOODWIN & ASSOCIATES, P.A.

Pavan K. Tolet Project Engineer

PKT

Attachment



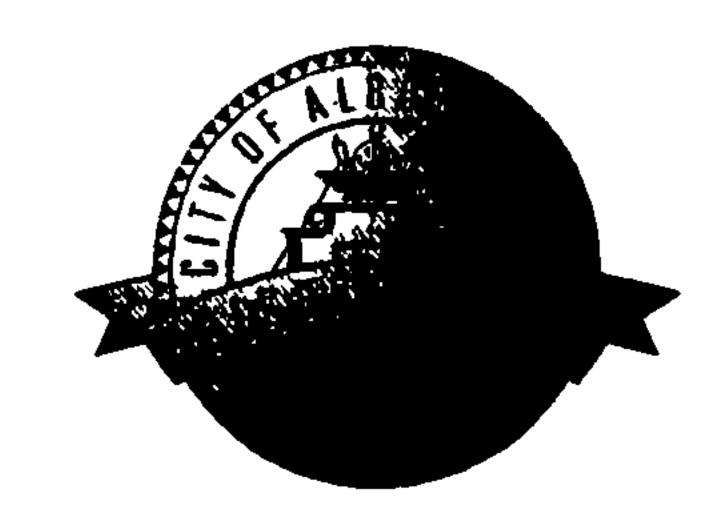
P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE



August 2, 2006

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

Re: Sundoro Park Grading and Drainage Plan Engineer's Stamp dated 7-25-06 (J9/D19D)

Dear Ms. Hoelzer,

Based upon the information provided in your submittal dated 7-26-06, the above referenced plan is approved for Site Development Plan for Building Permit action by the DRB.

The following comments will need to be addressed for Work Order approval.

How is the runoff in the earth swale conveyed to Endee Road?

- The playing surface of the tennis courts would be improved if the park did not drain over them.
- Provide a means to convey the runoff from the area south/southeast of the basketball courts to Endee Road without going across the lot to the east. Can it be routed through the sidewalk culvert?
- Provide a few inverts in the earth swale.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, E.I.

Engineering Associate, Planning Dept. Development and Building Services

GND

C: file

Brad Bingham

