SUNCREEK APTS.

F21-D31B

1 PLAN

83-517

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. _____ DATE: 10/7/83

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Tracts E1 & E2 Academy Acres (F21)

ATTENDANCE:	WHO	REPRESENTING
	Bob Sykes	NCEA & Cornwell/Davis
	F J Aguirre	

FINDINGS:

1. FREE DISCHARGE INTO the Tijeras Arroyo APPROPRIATE IF CHANNEL IS IMPROVED (LINED) AND IF DOWNSTREAM CONDITIONS CAPACITY IS AVAILABLE.

2. ~~APPROVED~~ DRAINAGE REPORT REQUIRED PRIOR to SITE DEVELOPMENT PLAN ~~APPROVAL~~ SIGN-OFF

RECEIVED
JAN 16 1984
HYDROLOGY SECTION

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: F J Aguirre	SIGNED: Robert Snyder
TITLE:	TITLE: Wilson Co
DATE: 10/7/83	DATE: 10/7/83

INFORMATION SHEET

PROJECT TITLE Suncreek Apts TYPE OF SUBMITTAL Drainage Plan

ZONE ATLAS PAGE NO. F-21 CITY ADDRESS Spain Rd.

LEGAL DESCRIPTION Tract E-3

ENGINEERING FIRM Wilson & Co CONTACT R.F Sykes

ADDRESS POBox 3548, Alb. NM 87190 PHONE 262-2116

OWNER Counels & Davis CONTACT Rick Davis

ADDRESS 1116 Pennsylvania NE 87110 PHONE 266-5711

ARCHITECT _____ CONTACT _____

ADDRESS _____ PHONE _____

SURVEYOR _____ CONTACT _____

ADDRESS _____ PHONE _____

CONTRACTOR _____ CONTACT _____

ADDRESS _____ PHONE _____

PRE-DESIGN MEETING:

X YES
___ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
FEB 06 1984
HYDROLOGY SECTION

DATE SUBMITTED: 16 Jan 1984

BY: _____

RECEIVED
JAN 16 1984
HYDROLOGY SECTION

103a

WILSON & COMPANY
ENGINEERS & ARCHITECTS

505 262-2116

ENGINEERS
ARCHITECTS
PLANNERS

Office Location... 1321 SAN PEDRO N.E. ▪ ALBUQUERQUE, NEW MEXICO 87110 ▪ An Equal Opportunity Employer

Mailing Address... P.O. BOX 3548 ▪ ALBUQUERQUE, NEW MEXICO 87190

F21-D316

January 16, 1984

Mr. Fred Aquirre
Hydrology Section
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Re: Suncreek Apartments Drainage Report
WCEA File: 83-517

Dear Mr. Aquirre:

Enclosed is one copy of Suncreek Apartments Drainage Report. The project site is located within Tract E-3, Oso Grande Subdivision. This tract of land is included in the El Oso Grande Subdivision Drainage Management Plan prepared by Community Sciences and approved by the City October 22, 1981. Our proposed drainage plan incorporates the criteria proposed by the original drainage management plan.

Please give me a call if you have any questions.

Very truly yours,
WILSON & COMPANY

Robert F. Sykes, P.E.

Enclosure

-sap

RECEIVED
JAN 16 1984
HYDROLOGY SECTION

WILSON & COMPANY
ENGINEERS & ARCHITECTS

505 262-2116

ENGINEERS
ARCHITECTS
PLANNERS

Office Location... 1321 SAN PEDRO N.E. ■ ALBUQUERQUE, NEW MEXICO 87110

An Equal Opportunity Employer ■

Mailing Address... P.O. BOX 3548 ■ ALBUQUERQUE, NEW MEXICO 87190

February 6, 1984

Mr. Billy Goolsby
Hydrology Section
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

F21-D316

Re: Suncreek Apartments Drainage Report
WCEA File: 83-517

Dear Mr. Goolsby:

Enclosed is the revised drainage report and the original drainage report for the Suncreek Apartments project.

I have made the revisions requested. Please give me a call if you have any questions.

Very truly yours,
WILSON & COMPANY

Robert F. Sykes, P.E.

Enclosures

-sap

RECEIVED
FEB 06 1984
HYDROLOGY SECTION

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

March 1, 1984

Mr. Robert Sykes
Wilson & Company
1321 San Pedro Drive, NE
Albuquerque, NM 87110

REF: DRAINAGE PLAN FOR SUNCREEK APARTMENTS (F21-D31B) RECEIVED FEBRUARY 6, 1984

Dear Bob:

The above referenced drainage plan, dated February 6, 1984, is approved.

A detailed grading plan and an erosion control plan will need to be submitted for approval prior to final sign-off.

Should you have any questions or comments, please contact me at 766-7644.

Yours truly,

Billy J. Goolsby

Billy J. Goolsby, PE
City/County Flood Plain Admin.

BJG:mrk

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Suncrest Apartments ZONE ATLAS/DRNG. FILE #: F-21/D31B

LEGAL DESCRIPTION: Tract E-3, Replat Tracts E-1 & E-2 Oso Grande Subdivision

CITY ADDRESS: 9900 Spain Road N.E., Alb. N.M.

ENGINEERING FIRM: Wilson & Co. CONTACT: Bob Sykes

ADDRESS: PO Box 3548, ABQ NM 87190 PHONE: 345 5345

OWNER: Cawvick & Davis CONTACT: Rick Davis

ADDRESS: 1116 Pennsylvania NE, Alb. 87110 PHONE: 266-5711

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

RECEIVED
JUL 25 1985
HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

X ENGINEER'S CERTIFICATION

Report No F-21-D31B

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

X CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 25 July, 1985

BY: Bob Sykes

WILSON & COMPANY
ENGINEERS & ARCHITECTS

505 345-5945

ENGINEERS
ARCHITECTS
PLANNERS

Office Location... 6611 GULTON CT., N.E. ▪ ALBUQUERQUE, NEW MEXICO 87109

An Equal Opportunity Employer

Mailing Address... P.O. BOX 3548 ▪ ALBUQUERQUE, NEW MEXICO 87190

25 July 1985

RECEIVED
JUL 25 1985
HYDROLOGY SECTION

Mr. Bernie Montoya
Design Hydrology Section
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Suncreek Apartments
Certificate of Occupancy Report
(F21-D31B)
WCEA File 83-517

Dear Mr. Montoya:

Enclosed is a print showing the "as-built" drainage pattern for the Suncreek Apartment complex.

The project has been constructed in substantial compliance with the approved drainage plan.

I will be glad to answer any questions you might have about this project.

WILSON & COMPANY

Robert F. Sykes, P.E.
Partner

enc.

kl

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

RECEIVED
AUG 05 1985
DH0271
HYDROLOGY SECTION

INTER-OFFICE CORRESPONDENCE August 2, 1985 REF. NO._____

TO: Fred Aguirre, Design Hydrologist, Design Hydrology Section

FROM: William F. McNamara, Assistant City Engineer-Field

SUBJECT: SUNCREEK APARTMENTS #2188

The concrete rundowns for the subject project are acceptable as constructed.

cc: Bernie Montoya, Hydrology
File

WFM/rvg

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

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

August 6, 1985

Mr. Robert Sykes
Wilson & Company Engineers & Architect
1321 San Pedro Drive, NE
Albuquerque, NM 87110

REF: REVISED & CERTIFICATION DRAINAGE PLAN FOR SUN CREEK APARTMENTS (F21/D31B)
ENGINEER'S STAMP DATE JULY 25, 1985

Dear Mr. Sykes:

Based on the information provided on your July 25, 1985 submittal, revisions as indicated on the submittal along with certification are acceptable.

If I can be of further assistance, please feel free to contact me at 766-7644.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya CE
Engineering Assistant

BJM/cl

ENGINEER'S

DRAINAGE REPORT

SUNCREEK APARTMENTS

TRACT E-3

A REPLAT OF TRACTS E-1 & E-2

OSO GRANDE SUBDIVISION

ZONE MAP F-21

APPROVED FOR DRAINAGE

2/29/84
DATE

Billy J. Goolsby
SIGNATURE

ADVISE INSPECTOR
WHEN CERTIFICATE EXECUTED

WILSON & COMPANY ENGINEER & ARCHITECTS

1321 SAN PEDRO DRIVE N.E.

ALBUQUERQUE, NEW MEXICO 87110

ROBERT F. SYKES
NEW MEXICO
4591
REGISTERED PROFESSIONAL ENGINEER

2/24/84

REVISED 3 FEBRUARY 1984
JANUARY 1984

83-517

WILSON & COMPANY
ENGINEERS
ARCHITECTS

ENGINEER'S DRAINAGE REPORT

SUNCREEK APARTMENTS

TRACT E-3 OSO GRANDE SUBDIVISION

ZONE MAP F-21

PURPOSE AND SCOPE: Cauwels & Davis is planning to develop the 14.79 acre site for 267 unit two story apartments.

SITE LOCATION AND TOPOGRAPHY: The site is Tract E-3, a replat of Tracts E-1 and E-2, Oso Grande Subdivision. The tract is located on the south side of Spain Road between Eubank Blvd. and Morris St. and is bounded on the south by Bear Arroyo.

DESIGN CRITERIA: The Rational Method is used to compute the design flows using criteria in Volume 2, City of Albuquerque Development Procedures Manual. The runoff coefficient is based on land use shown on site development plan.

OFFSITE DRAINAGE: The only offsite drainage to be provided for is 32.0 cfs from the tract of land owned by Faith Lutheran Church. Tracts D-1 and D-2 drain directly to the Bear Arroyo Channel.

The flows from Tract D-1 and Tract D-2, Oso Grande Subdivision, is intercepted by a storm drain along the east side of Tract D-1 and D-2 and is discharged to the improved channel along the south side of the Tracts.

ONSITE DRAINAGE: The attached grading plan depicts the various onsite drainage areas and their points of discharge. Area 1 and Area 2 discharge to Spain Road. The maximum 100 year combined discharge rate is 3.28 cfs. Area 3 thru Area 5 combine and discharge to the Bear Arroyo, which is paved with concrete the entire length of this project and beyond. The combined discharge rate for Area 3 thru Area 5 is 49.98 cfs including 32 cfs of offsite flow. Area 6 thru Area 12 will individually discharge to the paved channel. The maximum 100 year discharge rate vary from 2 cfs to 15 cfs.

The proposed drainage plan is in compliance with "El Oso Grande Subdivision Drainage Management Plan" prepared by Community Sciences Corporation and approved by the City of Albuquerque, October 22, 1981.

COMP. RFS
CK.
DATE 9 Jan 1984

WILSON & COMPANY ENGINEERS ARCHITECTS

LOC Albuquerque FILE 83-517
PROJ Juncreek Apts SHEET 1
SUBJ OF 2

Undeveloped Flow conditions
Area = 14.79 Ac.
6 hr 100 yr. rainfall = 2.45 inches
C = 0.40
t_c = 10 min
i_{100} = 2.45 x 2.2 = 5.39
Q_{100} = CiA = 0.40 x 5.39 x 14.79 = 31.89 cfs

Developed Conditions
Roofs, Drives & Parking = 7.33 Ac.
Landscape = 7.46 Ac
$C = \frac{7.33}{14.79} \times 0.95 + \frac{7.46}{14.79} \times 0.40 = .47 + .20 = 0.67$
6 hr 100 yr rainfall = 2.45 inches
$t_c \leq$ 10 min
i_{100} = 2.45 x 2.20 = 5.39

Area #1
A = .20 Ac
Q_{100} = CiA = 0.67 x 5.39 x .20 = 0.72 cfs

Area #2
A = .71 Ac
Q = CiA = 0.67 x 5.39 x .71 = 2.56 cfs

Area #3
A = 1.83 Ac
Q = CiA = 0.67 x 5.39 x 1.83 = 6.97 cfs.

Area 4
A = 2.11 Ac
Q = CiA = 0.67 x 5.39 x 2.11 = 7.62 cfs
Total Flow = 7.62 + offsite = 7.62 + 32.0 = 39.62

Area 5
A = .94 Ac
Q = CiA = 0.67 x 5.39 x .94 = 3.39 cfs

Total Flow $A_3 + A_4 + A_5$ = 6.97 + 39.62 + 3.39 = 49.98 cfs

COMP. RFS

CK.

DATE 9 Jan 1984

WILSON & COMPANY ENGINEERS ARCHITECTS

LOC. Albuquerque FILE 83-517

PROJ. Sunrock Apts SHEET 2

SUBJ. OF 2

Area 6
A = 0.95Ac
$Q_{100} = CiA = .67 \times 5.39 \times .95 = 3.43$ cfs

Area 7
A = 0.65Ac
$Q_{100} = CiA = .67 \times 5.39 \times .65 = 2.35$ cfs

Area 8
A = 1.33Ac
$Q_{100} = CiA = .67 \times 5.39 \times 1.33 = 4.80$ cfs

Area 9
A = 0.56 Ac
$Q_{100} = CiA = .67 \times 5.39 \times .56 = 2.02$ cfs

Area 10
A = 0.63 Ac
$Q_{100} = CiA = .67 \times 5.39 \times .63 = 2.28$ cfs

Area 11
A = 4.78 Ac
$Q_{100} = CiA = .67 \times 5.39 \times 4.78 = 17.26$ cfs

A =