HYDROLOGY K19/D75 TWO PLANS

K 19-D 75

2 PLANS

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

INTER-OFFICE CORRESPONDENCE

REF. NO._____

October 7, 1986

TO: Tom Aragon, Transportation System Division

FROM: Fred J. Aguirre, Hydrologist; Engineering Division/PWD

SUBJECT: PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHTS-OF-WAY/EASEMENT
SUN PUEBLO RETAIL CENTER (K-19/D75); CARLISLE OFFICE PARK (G-16/D79)

Transmitted herewith, is a copy of the approved drainage plan for the referenced projects incorporating the S.O. 19 design.

In accordance with the new process, this plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed-off S.O. 19 is required by this office for Certificate of Occupancy release; hence your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation, and if you should have any questions and/or comments regarding the process, please feel free to call me at 768-2650.

FJA/bsj

Enclosures

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

October 9, 1986

Joe Jones
Denney-Tibijas-McLean & Associates, Inc.
2400 Comanche Road, NE
Albuquerque, New Mexico 87107

RE: REVISED DRAINAGE & GRADING PLAN OF SUN PUEBLO RETAIL CENTER, RECEIVED OCTOBER 4, 1986 FOR BUILDING PERMIT APPROVAL (K-19/D75)

Dear Joe:

The above referenced submittal, revised October 4, 1986, is approved for Building Permit sign-off by Hydrology. Include this approved plan with the construction sets routed for permit sign-off.

Also approved is the sidewalk culvert design into Central Avenue. The contractor must obtain a separate permit to construct private storm drain improvements within the public right-of-way.

If you have any questions, call me at 768-2650.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

RAG/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SUN PUEBLO RETAIL CENTER ZONE ATLAS/DRNG. FILE #: K-19/D25

LEGAL DESCRIPTION: TRACT B OF SUN PUEBLO APARTMENTS

CITY ADDRESS:

ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT:

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: ~~N/A~~ EMPIRE WEST CONTACT: ~~N/A~~ KATY HOLDEN

ADDRESS: PHONE: 266-2244

SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT:

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED OCT 02 1986 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
X DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
___ GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED: 10/2/86

BY: Joseph Jones

REV. 10/85

DENNEY-TIBLJAS-McLEAN & ASSOC., INC.
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, N.M. 87107
TELEPHONE: (505) 884-0696

LETTER OF TRANSMITTAL

DATE 10/8/86 | DTM JOB NO. 892.12
ATTENTION ROGER GREEN
RE: SUNPUEBLO RETAIL

TO CITY HYDROLOGY
4TH FLOOR CITY/COUNTY

RECEIVED
OCT 02 1986
HYDROLOGY SECTION

GENTLEMEN:

WE ARE SENDING YOU ☐ ATTACHED ☐ UNDER SEPARATE COVER VIA _____ THE FOLLOWING ITEMS:

☐ SHOP DRAWINGS ☐ PRINTS ☑ PLANS ☐ PROJECT ESTIMATE ☐ SPECIFICATIONS

☐ COPY OF LETTER ☐ CHANGE ORDER ☐ _____

COPIES	DATE	NO.	DESCRIPTION
		2	DRAINAGE + GRADING PLANS

THESE ARE TRANSMITTED as checked below.

☑ FOR APPROVAL ☐ APPROVED AS SUBMITTED ☐ RETURN ____ COPIES FOR DISTRIBUTION

☐ FOR YOUR USE ☐ APPROVED AS NOTED ☐ RETURN ____ SIGNED ORIGINALS

☐ AS REQUESTED

☐ FOR REVIEW AND COMMENT ☐ _____

☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

ROGER,
ENCLOSED ARE TWO DRAINAGE AND GRADING PLANS FOR SUBJECT PROJECT. ALL COMMENTS RECEIVED HAVE BEEN ADDRESSED ON THESE PLANS. IF YOU HAVE ANY QUESTIONS, PLEASE CALL.

COPY TO _____

SIGNED: Joe Jones

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SunPueblo Retail ZONE ATLAS/DRNG. FILE #: K-19/D75

LEGAL DESCRIPTION: TRACT B OF SunPueblo Apartments

CITY ADDRESS:

ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: Joe Jones

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

OWNER: Empire West Co. CONTACT: Katy Holden

ADDRESS: PHONE: 266-2244

ARCHITECT: N/A CONTACT: N/A

ADDRESS: PHONE:

SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: Strue Youtsey

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED
OCT 02 1986
HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ YES
___ NO
___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB No.
EPC No.
PROJ. No.

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
X DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
___ GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED: 10/8/86

BY: Joe Jones

REV. 10/85

9-24-86

Meeting with Katy Holden, Empire West.

I approve Sun Pueblo Retail Center Grading and Drainage Plan dated 9/23/86, for Rough Grading Permit only.

Roger A Green, PE
Hydrology.

OK for ~~Rough Grading~~ Foundation also.
R. Green 10/1/86

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

September 11, 1986

Joe Jones
Denney-Tibljas-McLean & Associates
2400 Comanche Road, NE
Albuquerque, New Mexico 87107

RE: DRAINAGE PLAN SUBMITTAL OF SUN PUEBLO RETAIL CENTER RECEIVED AUGUST 27 & SEPTEMBER 11, 1986 FOR BUILDING PERMIT APPROVAL (K-19/D75)

Dear Joe:

I have reviewed the above referenced submittals and have these comments to be addressed before Building Permit approval:

1. Calculating runoff volumes using the Rational "C" factor is no longer recognized by the DPM or this office. The SCS curve number (CN) method should be used. Refer to DPM plates 22.2 C-2, C-3, and C-4.

2. The Construction notes for the private storm drain improvements within public right-of-way (sidewalk culvert) need to include a sixth note in regards to maintenance responsibilities. Refer to DPM page 116 of 22.7 revised 10/85. Also include signature blocks for the following:

   a. Design Approval: _____
   b. Inspection Approval: _____
   c. Construction Acceptance: _____

3. Provide two copies of the Drainage Plan to this office since one is forwarded to the Construction Division as the approved S.O. #19 copy for contractor to obtain the required excavation/construction permit.

4. The Grading and Drainage Plan must be restamped and dated since Ross Schmidt is no longer the engineer responsible for this plan.

If you have any questions, call me at 766-7644.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

RAG/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SUNPUEBLO RETAIL CENTER ZONE ATLAS/DRNG. FILE #: K19/D75

LEGAL DESCRIPTION: TRACT 8 OF SUNPUEBLO APARTMENTS

CITY ADDRESS:

ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: JOE JONES

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

OWNER: EMPIRE WEST CO. CONTACT: KATY HOLDEN

ADDRESS: PHONE: 247-4419

ARCHITECT: N/A CONTACT: N/A

ADDRESS: PHONE:

SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT:

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED
SEP 11 1986
HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ 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
ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

SECTOR PLAN APPROVAL
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)

DATE SUBMITTED: 9/8/86

BY: Joe Jones

REV. 10/85

DENNEY-TIBLJAS-McLEAN & ASSOC., INC.
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, N.M. 87107
TELEPHONE: (505) 884-0696

LETTER OF TRANSMITTAL

DATE 9/8/86 | DTM JOB NO. 892.12

ATTENTION CARLOS MONTOYA

RE: SUNPUEBLO RETAIL
K19/D75

TO CITY HYDROLOGY

GENTLEMEN:

WE ARE SENDING YOU ☐ ATTACHED ☐ UNDER SEPARATE COVER VIA _____ THE FOLLOWING ITEMS:

☐ SHOP DRAWINGS ☐ PRINTS ☑ PLANS ☐ PROJECT ESTIMATE ☐ SPECIFICATIONS
☐ COPY OF LETTER ☐ CHANGE ORDER ☐ _____

COPIES	DATE	NO.	DESCRIPTION
		1	DRAINAGE & GRADING PLAN

RECEIVED
SEP 11 1986
HYDROLOGY SECTION

THESE ARE TRANSMITTED as checked below.

☑ FOR APPROVAL ☐ APPROVED AS SUBMITTED ☐ RETURN ____ COPIES FOR DISTRIBUTION
☐ FOR YOUR USE ☐ APPROVED AS NOTED ☐ RETURN ____ SIGNED ORIGINALS
☐ AS REQUESTED
☐ FOR REVIEW AND COMMENT ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

CARLOS,
THE SPECIAL ORDER 17 INFORMATION FOR THE SIDEWALK CULVERT HAS BEEN ADDED TO THE PLAN.

COPY TO _____

SIGNED: Joel Jones

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SUNPUEBLO RETAIL CENTER ZONE ATLAS/DRNG. FILE #: K19/D75

LEGAL DESCRIPTION: TRACT B OF SUNPUEBLO APARTMENTS

CITY ADDRESS:

ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: JOE JONES

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: EMPIRE WEST COMPANIES CONTACT: KATY HOLDEN

ADDRESS: PHONE: 247-4419

SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: STEVE YOUTSEY

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED AUG 27 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ 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
___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SECTOR PLAN APPROVAL
___ 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)

ATE SUBMITTED: 8/27/86

Y: Joe Jones

EV. 10/86

DENNEY-TIBLJAS-McLEAN & ASSOC., INC.
2400 COMANCHE ROAD N.E.
ALBUQUERQUE, N.M. 87107
TELEPHONE: (505) 884-0696

LETTER OF TRANSMITTAL

DATE 8/27/86	DTM JOB NO. 892.12
ATTENTION BERNIE MONTOYA	
RE: SUN PUEBLO RETAIL CENTER	
K19/D75	

TO CITY HYDROLOGY
123 CENTRAL

GENTLEMEN:

WE ARE SENDING YOU ☐ ATTACHED ☐ UNDER SEPARATE COVER VIA _____ THE FOLLOWING ITEMS:

☐ SHOP DRAWINGS ☐ PRINTS ☒ PLANS ☐ PROJECT ESTIMATE ☐ SPECIFICATIONS
☐ COPY OF LETTER ☐ CHANGE ORDER ☐ _____

COPIES	DATE	NO.	DESCRIPTION
		1	DRAINAGE & GRADING PLAN

RECEIVED
AUG 27 1986
HYDROLOGY SECTION

THESE ARE TRANSMITTED as checked below.

☑ FOR APPROVAL ☐ APPROVED AS SUBMITTED ☐ RETURN ____ COPIES FOR DISTRIBUTION
☐ FOR YOUR USE ☐ APPROVED AS NOTED ☐ RETURN ____ SIGNED ORIGINALS
☐ AS REQUESTED
☐ FOR REVIEW AND COMMENT ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

BERNIE,

ENCLOSED FOR YOUR APPROVAL IS ONE DRAINAGE & GRADING PLAN FOR SUBJECT PROJECT. PLEASE NOTE, RUNOFF HAS BEEN REDIRECTED NORTH INTO CENTRAL AVE ELIMINATING THE NEED FOR OFFSITE EASEMENTS. ALL OTHER COMMENTS PREVIOUSLY RECEIVED HAVE BEEN ADDRESSED. IF YOU HAVE ANY QUESTIONS, PLEASE CALL

COPY TO _____

SIGNED: Joe Jones

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE

FILE COPY

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

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

July 17, 1986

Ross E. Schmidt, P.E.
Denney-Titlijas-McLean & Associates, Inc.
2400 Comanche Road, NE
Albuquerque, New Mexico 87107

RE: DRAINAGE PLAN FOR SUN PUEBLO RETAIL CENTER (K-19/D75)
RECEIVED JULY 10, 1986

Dear Mr. Schmidt:

A preliminary review of your submittal for Building Permit approval has shown that the following information is lacking for this section to begin the review process:

Information Needed

1. Replat, easement or covenant required for developed runoff across lot lines.

2. Is the existing catch basin within the Sun Pueblo Apartments (Basin I) capable of handling the additional runoff from the proposed development.

3. Location, elevation and description of the T.B.M.

Plan Drawing

1. T.O. and F.L. elevations along Central Avenue.

2. Please identify the limits of asphalt and landscape areas (your plan shows landscaping trees and shrubs in the middle of the parking lot).

3. What type of outlets or headwalls do you propose from Tract E into Tract A, and what is the hydraulics for each inlet depending on the D.

Please provide this information so that we may process your request as expediently as possible.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/ces

dtm & associates, inc
Denney-Tibljas-McLean & Associates, Inc.
Consulting Engineers ■ Planners ■ Surveyors

July 10, 1986

HAND DELIVERED

Mr. Carlos Montoya
City of Albuquerque
Hydrology Department
123 Central Avenue NW
Albuquerque, NM 87103

RECEIVED
JUL 10 1986
HYDROLOGY SECTION

Re: SunPueblo Retail Center
Tract B of SunPueblo Apts.
Grading and Drainage Plan
DTM Job No. 892.12

Dear Mr. Montoya:

Enclosed is one copy of the Grading and Drainage Plan for the above referenced project. The site lies between Central Avenue and Zuni Road SE.

Should you have any questions regarding this project, please feel free to call this office.

Very truly yours,

Ross E. Schmidt, P.E.

RS/klb
Enclosure
cc w/enc: Mr. Dale Cox,
Empire West Companies

2400 COMANCHE ROAD, NE ■ ALBUQUERQUE, NM 87107
TELEPHONE (505) 884-0696

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: K19 DATE: 6-26-86

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Retail Ctr.

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: _____

APPROVAL REQUESTED:

____ PRELIMINARY PLAT
____ SITE DEVELOPMENT PLAN
____ OTHER

____ FINAL PLAT
X BUILDING PERMIT
____ ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Joe Tonez	
	Carlos A Montoya	

FINDINGS:

(1) Drainage plan per DPM

(2) Free discharge allowed engineer must address
(A) Fairgrounds detention system has removed floodplain
(B) Storm Drain in Alcazar to Fairgrounds system

(3) Floodproofing 2' above gutter in central for the finish floor

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

SIGNED: Carlos A Montoya SIGNED: Joe Tonez
TITLE: _____ TITLE: _____
DATE: 6-26-86 DATE: 6-26-86

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

dtm & associates, inc

Denney-Tibbles-McLean & Associates, Inc.
Consulting Engineers ■ Planners ■ Surveyors

SUNPUEBLO RETAIL CENTER

GRADING AND DRAINAGE PLAN

DTM JOB NO. 892.12

2400 Comanche Road, NE
Albuquerque, NM 87107
Telephone (505) 884-0696

ROSS E. SCHMIDT
NEW MEXICO
6133
REGISTERED PROFESSIONAL ENGINEER

I, Ross E. Schmidt, hereby certify that the enclosed documents and drawings were prepared under my supervision and are true and correct to the best of my knowledge and belief.

Ross E. Schmidt 7/9/86

New Mexico Professional Engineer No. 6133

872.12

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: K19 DATE: 6-26-86

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Retail Ctr.

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: _____

APPROVAL REQUESTED:

____ PRELIMINARY PLAT	____ FINAL PLAT
____ SITE DEVELOPMENT PLAN	X BUILDING PERMIT
____ OTHER	____ ROUGH GRADING

ATTENDANCE: WHO	REPRESENTING
Joe Tonez	
Carlos A Montoya	

FINDINGS:

(1) Drainage plan per DPM

(2) Free discharge allowed as given must address
(A) Foothills detention system has removed floodplain.
(B) Storm Drain in Alcazar to Foothills system.

(3) Floodproff 2' above gutter in central for the finish floor.

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: Carlos A Montoya SIGNED: Joseph Jones

TITLE: _____ TITLE: _____

DATE: 6-26-86 DATE: 6/26/86

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SunPueblo Retail Center ZONE ATLAS/DRNG. FILE #: K-19-Z/ D75

LEGAL DESCRIPTION: Tract B of the SunPueblo Apartments - Vol. C30, Folio 21

CITY ADDRESS: Central Avenue

ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: Ross Schmidt

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

OWNER: Empire West Companies CONTACT: Dale Cox

ADDRESS: 5656 E. Grant Road, Suite 100 Tucson, AZ 85712 PHONE: (602) 886-4000

ARCHITECT: Empire West Companies CONTACT: Dale Cox

ADDRESS: 5656 E. Grant Road, Suite 100 Tucson, AZ 85712 PHONE: (602) 886-4000

SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: Steven L. Youtsey

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

CONTRACTOR: N/A CONTACT: N/A

ADDRESS: PHONE:

RECEIVED JUL 10 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES
NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB No. 85-761 3/25/86
EPC No.
PROJ. No.

TYPE OF SUBMITTAL:

DRAINAGE REPORT
X DRAINAGE PLAN
CONCEPTUAL GRADING & DRAINAGE PLAN
GRADING PLAN
EROSION CONTROL PLAN
ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED: 7/10/86

BY: ROSS SCHMIDT

REV. 10/85

TABLE OF CONTENTS

		Page
1.	GENERAL	1
2.	DRAINAGE CALCULATIONS FOR A 100-YEAR, 6-HOUR STORM	1, 2

EXHIBITS

Exhibit "A" - Location Map

Exhibit "B" - Flood Hazard Map

GENERAL

The proposed development site consists of approximately 1.851 acres and is located at the Northeast Corner of SunPueblo Apartments, south of Central.

The project consists of the construction of a new building and parking facilities.

Free discharge is requested on the following basis:

1. The site is located in an area that is almost entirely developed;
2. There is an existing storm drain on Central Avenue.
3. There is presently no flooding in the general area. The Fairgrounds' Detention System has removed flood plain.
4. The site will have a minimum impact on downstream.

DRAINAGE CALCULATIONS FOR A 100-YEAR, 6-HOUR STORM

Existing Conditions

A = 1.851
Existing Paved Area = 0.00 Acres
Exsiting Roof Area = 0.00 Acres
Existing Undeveloped Area = 1.851 Acres

"C" Factor 0.00 x 0.95
0.00 x 0.9
1.851 x 0.4
C = 0.74

Tc = 10 minutes; R_{100} = 2.4 inches; R_{10} = 1.58 inches

$I_{100} = 6.84\ (2.4)(10)^{-0.51} = 5.07$

$I_{10} = 6.84\ (1.58)(10)^{-0.51} = 3.34$

Rational Method

Q_{100} = CIA = 0.74(5.07)(1.851)

Q_{100} = 6.94 cfs Undeveloped runoff

Q_{10} = 0.74(3.34)(1.851) = 4.57 cfs

Proposed Conditions

Proposed Paved Area = 1.26 Acres
Proposed Roof Area = 0.32 Acres
Proposed Landscaped Area = 0.27 Acres

"C" Factor 1.26 x 0.95
0.32 x 0.9
0.27 x 0.25
C = 0.84

Q_{100} = CIA = 0.84(5.07)(1.851) = 7.88 cfs Developed Runoff

Q_{10} = .84(3.34)(1.851) = 5.19 cfs

Volume For A 100-Year Storm

V = CRA

$V = 0.74 \left(\frac{2.4}{12}\right)(1.851)(43560) = 11.933$ cf Undeveloped Volume

$V = 0.84 \left(\frac{2.4}{12}\right)(1.851)(43560) = 13,546$ cf Developed Volume

ΔQ = 1 cfs
ΔV = 1753 cf

use SCS

EXHIBIT I

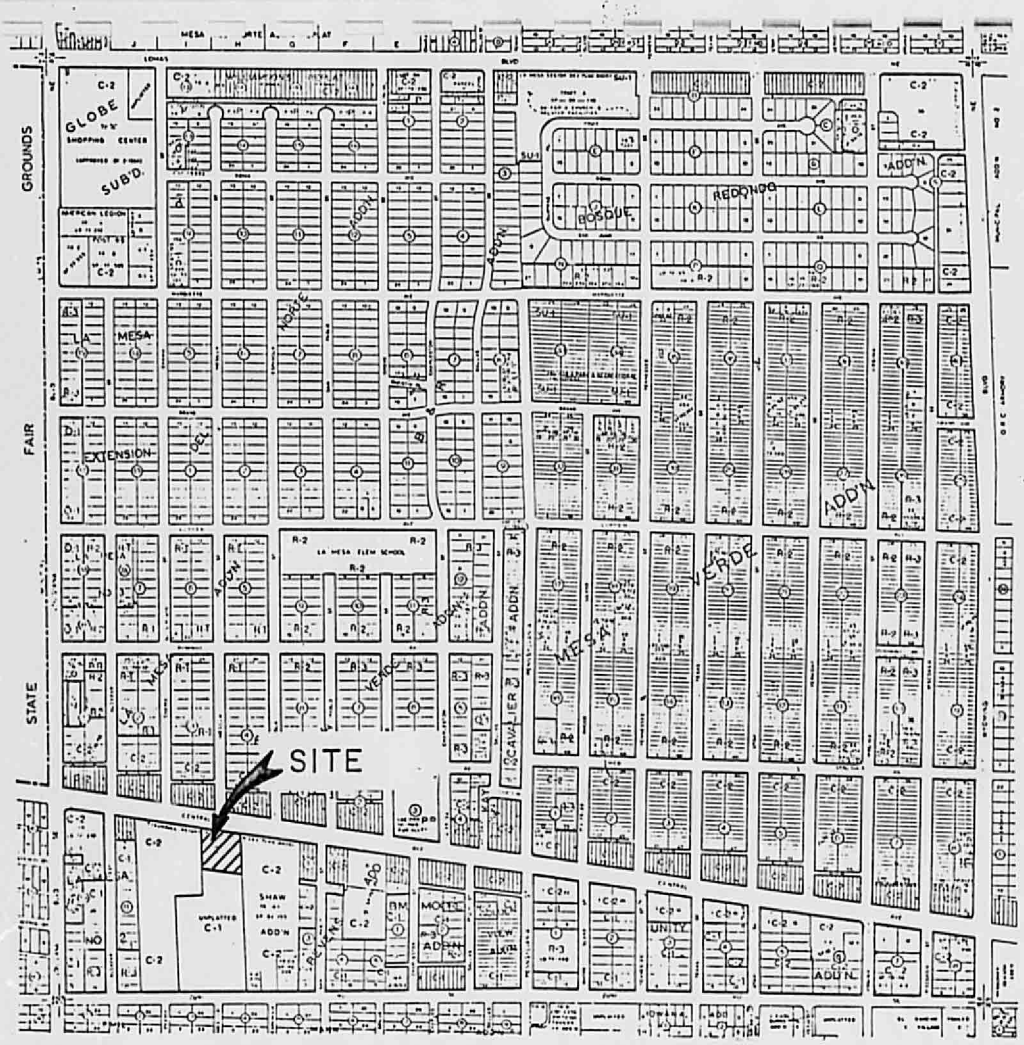
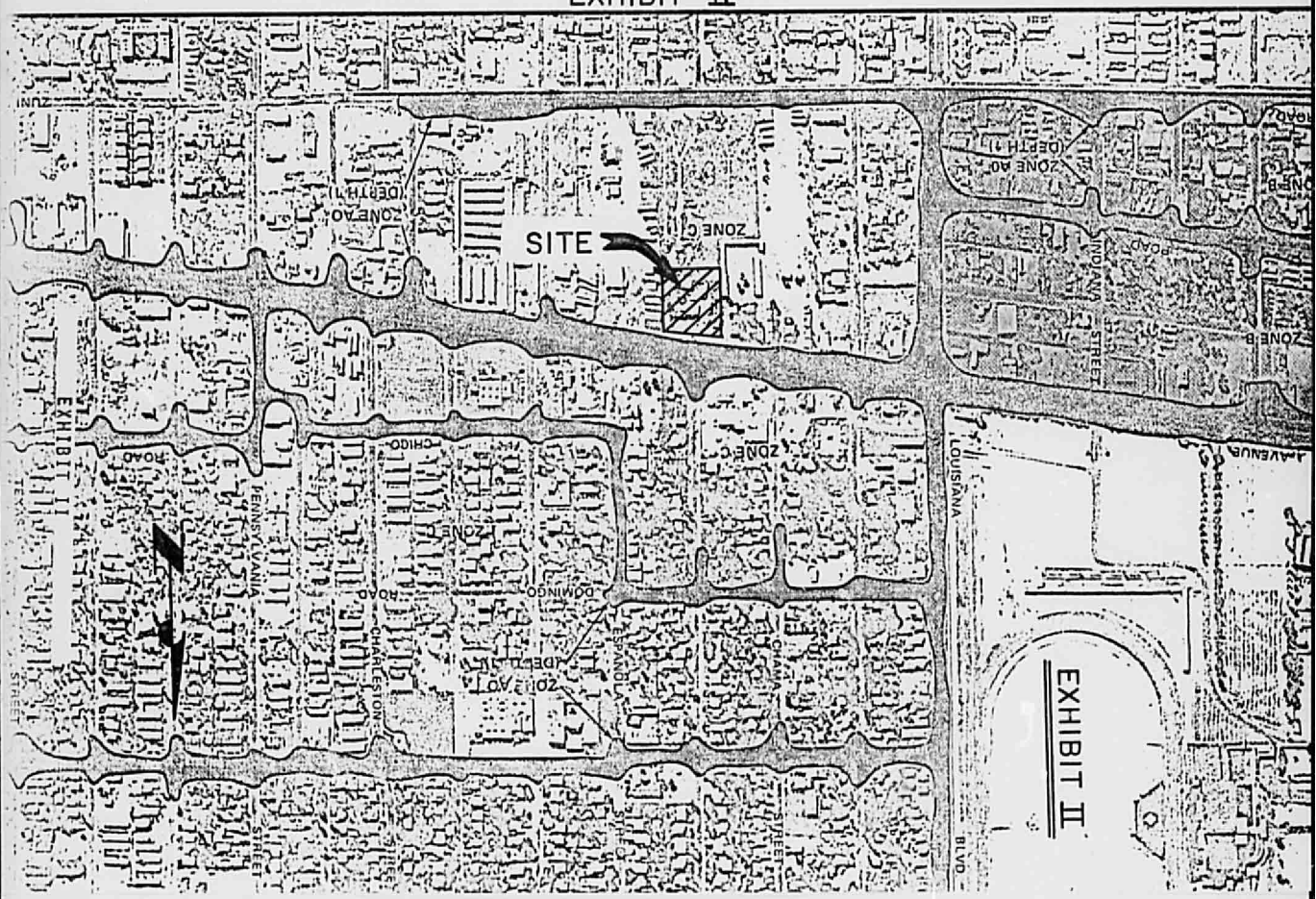

GROUNDS
FAIR
STATE
GLOBE
SHOPPING CENTER
SUB'D.
AMERICAN LEGION
MESA
EXTENSION
LA MESA FLEM SCHOOL
BOSQUE
REDWOOD
ADD'N
MESA
PARADE
CAVALIER
SITE
SHAW
ADD'N
UNITY
K-19-Z

EXHIBIT II


SITE
ZONE C
ZONE A
(DEPTH 1)
ZONE B
ZONE C
ZONE C
ZONE A
(DEPTH 1)
ZONE A
(DEPTH 1)
ZONE B
INDIANA
STREET
ROAD
LOUISIANA
BLVD.
EXHIBIT II
EXHIBIT II