HYDROLOGY

L14/D1C

ROSE'S SOUTHWEST

PAPER PRODUCTS

L14/DIC

1 PLAN

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. L-14 DATE: 10/19/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Rose's Southwest Paper Products
Tracts D & E South Barelas Ind. Pk. Unit 1

WHO	REPRESENTING
ATTENDANCE: Richard Hall	
Billy Goolsby	

FINDINGS: ① Approved Drainage Plan required for Hydrology sign-off.
② Discharge to public R/W recommended. (2nd St 4th St or both) Discharge rate to be determined by analysis of downstream capacity.

* Please provide a copy of recap w/submittal

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: Billy J. Goolsby SIGNED: Richard Hall

TITLE: CE/Hydrology TITLE: Engineer

DATE: 10/19/84 DATE: 10/19/84

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Rose's SW Paper Products ZONE ATLAS/DRNG. FILE #: L-14/~~D1d~~ D1c

LEGAL DESCRIPTION: Tracts D & E, South Barelas Industrial Park

CITY ADDRESS: 1701 Second Street SW

ENGINEERING FIRM: Hall Engineering CONTACT: Richard Hall

ADDRESS: 337 Eubank NE Suite 103 PHONE: 292-1115

OWNER: Roses' Southwest Papers, Inc. CONTACT: Robert Espat

ADDRESS: --- PHONE: ---

ARCHITECT: The Ken Hovey Design Group CONTACT: Ken Hovey

ADDRESS: 3700 Simms Ave. SE PHONE: 255-4756

SURVEYOR: --- CONTACT: ---

ADDRESS: --- PHONE: ---

CONTRACTOR: s & J Enterprises CONTACT: ---

ADDRESS: 3300 Columbia Dr. NE PHONE: 884-6234

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

RECEIVED JAN 29 1985 HYDROLOGY SECTION

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ 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)

logged in on 2/4/85 due to fact that a vicinity map was not included on plan at time of 1st submittal

DATE SUBMITTED: 29 Jan. 1985

BY: ___

HALL ENGINEERING COMPANY INC.
337 EUBANK N.E., SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phones: (505) 292-1115 & 292-1116

RECEIVED
FEB 15 1985
HYDROLOGY SECTION

Mr. Billy Goolsby
Design Hydrology Section
123 Central NW
Albuquerque, NM 87102

Feb. 15,1985

REF: GRADING AND DRAINAGE PLAN L-14 D1c

Dear Billy,

Enclosed is a downstream analysis and capacity of 4th street. There is suficient capacity to justify free discharge of the entire drainage area. You can double check this information in the new office building of the MRGCD received in your office on Jan. 25,1985 showing free discharge for the site of their new building to the south of this site. Thank you for your prompt attention.

Richard Hall PE 7918

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

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

February 20, 1985

Richard Hall
Hall Engineering
337 Eubank Blvd., NE Suite 103
Albuquerque, New Mexico 87123

RE: DRAINAGE PLAN FOR ROSE'S SW PAPER PRODUCTS (L-14/D1C)
RECEIVED FEBRUARY 15, 1985

Dear Mr. Hall:

I have reviewed the referenced submittal and forward these comments:

1. The plan is approved for a foundation permit.
2. Flows across lot lines are not permitted unless a drainage covenant is submitted to this office. The lot lines could also be removed by replatting.
3. An approved "Drainage Facilities within City Right-of-Way" document must be submitted prior to Hydrology sign-off.
4. The floodplain location is the 500 year flood boundary.
5. I was unable to locate number 8 of the keyed notes on the drawing.

If you have any questions or comments regarding this project, please call me at 766-7644.

Cordially,

Carlos A. Montoya

Carlos A. Montoya
City/County Floodplain Administrator

CAM/bsj

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

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

April 26, 1985

Richard Hall
Hall Engineering
337 Eubank Blvd., NE Suite 103
Albuquerque, New Mexico 87123

RE: DRAINAGE/GRADING PLAN FOR ROSE'S SW PAPER PRODUCTS
(L-14/D1C)

Dear Mr. Hall:

The referenced plan dated January 29, 1985, is approved for building permit sign-off.

Please attach a copy of this approved plan to both sets of construction plans prior to Hydrology sign-off.

If you have any questions or comments regarding this project, please call me at 766-7644.

Cordially,

Carlos A. Montoya

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

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

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

June 12, 1985

Richard Hall
Hall Engineering
337 Eubank Boulevard, NE Suite 103
Albuquerque, New Mexico 87123

RE: SEDIMENTATION ON FOURTH STREET FOR ROSE'S SOUTHWEST PAPER PRODUCTS (L-14/D1C)

Dear Mr. Hall:

Inspection of grading and drainage has shown that sedimentation from your site appears likely to Fourth Street through the west property line. We recommend some type of improvements such as gravel, sedimentation pond, or any means which you suggest that would eliminate sedimentation in Fourth Street. Also, the drop inlets in the direct path of runoff from the site indicates a need for sediment control.

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

Cordially,

Carlos A. Montoya

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

DRAINAGE STUDY
FOR A NEW OFFICE BUILDING
MIDDLE RIO GRANDE CONSERVANCY DISTRICT
ALBUQUERQUE, NEW MEXICO

prepared for
Boehning Protz Cook and Associates, P.A.
110 Second Street SW, Suite 500
Albuquerque, New Mexico 87102

RECEIVED
FEB 15 1985
HYDROLOGY SECTION

by
E. V. Diniz, P.E.
S. K. Dell
Resource Technology, Inc.
7800 Marble Avenue NE, Suite 5
Albuquerque, New Mexico 87110

RECEIVED
JAN 25 1984
HYDROLOGY SECTION

January 25, 1984

ELVIDIO DINIZ
NEW MEXICO
Elvidio N. Diniz
Number 711
REGISTERED PROFESSIONAL ENGINEER

INTRODUCTION

The Middle Rio Grande Conservancy District (MRGCD) plans to construct a new office building on Tract C - South Barelas Industrial Park, Unit One. The building is being designed by the architectural firm of Boehning Protz Cook and Associates, P.A. This drainage report, prepared by Resource Technology, Incorporated (RTI), presents an analysis of existing and proposed drainage conditions on this tract. All topographic information for this analysis was provided by the MRGCD through Boehning Protz Cook and Associates.

This drainage analysis has been prepared in accordance with the criteria set forth in the City of Albuquerque Development Process Manual.

SITE LOCATION AND DESCRIPTION

The tract lies in southwest Albuquerque, north of Southern Avenue between Fourth Street and Second Street. The entire tract is about 460 feet wide and extends approximately 730 feet north of Southern Avenue as shown in Figure 1. However, only the southern third of the property is to be developed at the present time and this drainage report and grading plan will address only the affected area.

The property is generally sloping from the northeast corner to the southwest corner at approximately 1%. The southern section slopes more directly from east to west.

A soils report prepared by the U.S. Soil Conservation Service and entitled "Soil Survey of Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico", classifies this area in the Brazito soil series which falls within Hydrologic Soil Group A. Existing vegetation consists of grasses, weeds and several large trees. A copy of the soils map for this area is shown in Figure 2.

DRAINAGE ANALYSIS

Storm runoff was analyzed using the Rational Equation, Q = CIA. The study area was divided into the 3 subareas shown on Plate 1; and Table 1 shows the expected impervious area in each subarea. Values for the runoff coefficient, C, were obtained from the DPM Plate C-1. These values ranged from 0.16 for undeveloped conditions; to 0.25, 0.34 and 0.49 in the developed condition, corresponding to subareas A, B, and C, respectively.

The physical characteristics of the subareas and corresponding computations for the time of concentration, T_c, for each subarea are presented in Table 2. For the northeastern subarea (A), T_c was determined to be 19 minutes. In subarea B, the T_c was approximately 5 minutes; therefore, a default value of 10 minutes was used. T_c was determined to be 10 minutes for subarea C. Corresponding rainfall intensity values were obtained from DPM Plates D-1 and D-2. This information is shown in Table 3.

Off Site Flows

The property is bounded on three sides by paved roads with curbs and gutters which carry all existing on and off site flows to drain inlets at the intersection of Southern Avenue and Fourth Street, and on Second Street. Along the north boundary, runoff is directed southwest onto Fourth Street. Consequently, no off site flows will affect the building site.

On Site Flows

At present, runoff is in the form of surface sheet flow across the property with drainage onto Fourth Street where it is carried to the existing storm sewer inlets. The existing condition peak runoff rate, for the area being studied was determined to be 2 cfs for the 100-year rainfall, as shown in Table 4.

The northwestern half of the tract is not being developed at this time. Runoff from this subarea is presently draining onto Fourth Street where it is carried to the existing storm sewer inlets. As this area does not affect the

developed portion of the tract and the runoff is being adequately taken care of, flow from this area is not considered in this report.

The proposed drainage plan is to convey the runoff from the building and parking areas around the north side of the building and through the parking area in a V-shaped (triangular) asphalt channel, 3 inches deep and side slopes of 3 inches in 32 feet. The alignment for this channel will be the centerline of the circular parking area. Flow will then be carried to the nearest storm sewer inlet at the corner of Fourth Street and Southern Avenue through a grated inlet in the landscaped area at the southwest corner of the property. Runoff from the rest of the site (the landscaped area along Southern Avenue) will be carried along the south side of the building to the grated inlet in the southwest corner.

Because native vegetation landscaping is planned for the area, it would be desirable to hold as much water as possible on the site. This will be accomplished with a series of shallow ponds. These ponds will run along the south side of the property, which is all landscaped, and around the north side of the building, in the landscaped area between the building and the parking area. Each pond will be a depression of the landscaped area. The low point will be approximately 8 inches below the boundary sidewalk or at least 16 inches below the finished floor elevation, but the outlet will be only 4 inches above the low point. Therefore, only 4 inches of dead storage are possible (prior to any sedimentation); and 4 inches of temporary operating storage are available, if needed, before overflow at undesirable locations can occur. Also, the ponds will be graded such that, at a full depth of 8 inches of water, ponding will occur at least 10 feet away from any building wall. The proposed ponds and recommended low point elevations are also shown on Plate 1. This storage provides for supplemental water to landscaped areas only; when calculating the maximum flow rate to the grated inlet, storage in these ponds was not considered, and total runoff from all areas was assumed.

Calculation of runoff rates and volumes for existing conditions and the planned future condition are presented in Table 4. The expected 100-year flows for subareas A, B, and C are 2.4, 2.7 and 0.4 cfs, respectively. Although the peak flows from the 3 subareas will not be coincidental, the sum total of the three flows will be much lower than the capacities of the 3 ft. X 4 ft. grated

inlet (New Mexico State Highway Department Type II drop inlet), and the 12-inch diameter connector pipe to the storm sewer inlet. These computations are shown in Table 5.

GRADING PLAN

The proposed grades based on this drainage analysis are shown on Plate 1. Although the proposed floor elevation of 44.0 feet for the building is lower than the elevation of Second Street to the east, water in Second Street would have to flow over the curb before it could approach the building. This depth of water in Second Street is unlikely because Southern Avenue would drain away the water before it could build up on Second Street. To prevent water from Second Street from entering the parking area through the eastside driveway, the existing back of sidewalk elevation will be retained as a water block. Similarly, the back of sidewalk elevation along the Fourth Street driveway will be retained as a water block to confine all flows on site, and directed towards the grated inlet.

Also, the planned finished floor elevation is 8 inches above the adjacent landscaped areas, so that the site will have to be severely flooded (over 20 inches in the parking area) before water could enter the building. Again, this is very unlikely.

Flows from upstream (northeast) of the parking area will be diverted by the northern parking area curb into the islands that jut out into the parking area, and then released into the parking area through 4 in. X 4 in. cuts in the curbs forming the islands. This routing of flows will assist in increasing the amount of water available to the native vegetation which will be planted inside the islands. Similar to the ponding areas, this detention of flows was not accounted for in the sizing of the downstream discharge facilities.

Consequently, the proposed plan will be more than adequate to handle all flows generated by the project, with a large safety margin throughout. Future expansion of development at the site will reduce this safety margin. but the discharge structures will still remain capable of handling all flows resulting from full development of the entire site.

TABLE 1

TRACT BREAKDOWN

EXISTING CONDITIONS

Total area is undeveloped at present — 196,936 ft²

PROPOSED CONDITION

Area A

Impervious		
parking lot		19,205
sidewalk		2820
		22,025
Pervious		
landscaped area		10,364
natural ground		84958
		95,322
Total Area	117,347 ft²	

Area B

Impervious		
building		10,150
parking lot		16,606
sidewalks		3,414
		30,170
Pervious		
landscaped area		6751
natural ground		6591
		13,342
Total Area	43,512 ft²	

Area C

Impervious		
0		—
Pervious		
landscaped area		18,964
Total Area	18,964 ft²	

Note: 17,113 ft² will drain to Fourth Street after development of tract.

TABLE 2

NAME	AREA (acres)	LEN. - of flow path	MAXIMUM ELEV.	MINIMUM ELEV.	Δ H	SLOPE	Computed Tc (minutes)	Computed Velocity (ft/sec) (>3 ft/sec to be valid)	Overland/Sheet flow Velocity (ft/sec) (plate 22.2 B-1 or 2)	Actual Tc (minutes)
UNDEVELOPED	4.52	868	46.06	40.1*	6.0	0.0069	9.7	1.49	0.47	31
A - impervious	0.51	35'	41.06	40.96	0.1	0.0029	—	—	1.50	0.39
A - pervious	2.19	590'	46.06	41.06	5.0	0.0085	—	—	0.53	18.73
A - Total	2.70	625'	46.06	40.96	5.1	0.0082	7.1	1.48	—	19.12
B - impervious	0.68	195	40.80	39.95	0.8	0.0041	—	—	1.70	1.91
B - pervious	0.31	150	43.8*	40.80	3.0	0.0200	—	—	0.85	2.94
B - Total	0.99	335	43.8*	39.95	3.8	0.0113	3.85	1.45	—	4.85
C - Impervious	0.0									
C - pervious	0.44									
C - Total	0.44	415	45.16	39.62	5.54	0.0133	4.26	1.62	0.65	10.64

* INTERPOLATED FROM CONTOUR MAP

TABLE 3

NAME	AREA (acres)	FLOW DEPTH (in) 100 yr	10 yr	2 yr	Intensity Factor (plate D-2)	Intensity (in/hr) (plate D-2) 100 yr	10 yr	2 yr	% Impervious	"C" factor (plate C-1)
UNDEVELOPED	4.52	2.25	1.48	1.00	1.20	2.70	1.78	1.20	0	0.16
AREA A	2.70	"	"	"	1.55	3.49	2.29	1.55	19	0.25
AREA B	0.99	"	"	"	2.20	4.49	3.26	2.20	69	0.55
AREA C	0.44	"	"	"	2.20	4.49	3.26	2.20	1	0.17

TABLE 4

FLOW RATES & VOLUMES

	AREA (acres)	"C" factor (plate C-1)	i (Intensity) 100 yr	10 yr	2 yr	Q (cfs) 100 yr	10 yr	2 yr	Volume (ft³) 100 yr	10 yr	2 yr
UNDEVELOPED	4.52	0.16	2.70	1.78	1.20	1.95	1.29	0.87			
AREA A	2.70	0.25	3.49	2.29	1.55	2.36	1.55	1.05	5878	3527	2449
AREA B	0.99	0.55	4.49	3.26	2.20	2.70	1.78	1.20	2985	1990	1761
AREA C	0.44	0.17	4.49	3.26	2.20	0.38	0.25	0.16	1747	1165	544

TABLE 5

INLET

$Q = CLH^{3/2}$

$Q = 5.4$ cfs

$C = 2.2$

$L = 2(3' + 4') = 14'$

$L_{eff} = 0.75 \times 14 = 10.5'$ for effect of bars

$$H^{3/2} = \frac{5.4}{2.2} \times 10.5 = 0.234$$

$H = 0.38$ ft

∴ Inlet will not be submerged.

PIPE

$$h_L = f \frac{LV^2}{D\,2g}$$

$f = 0.04$

$L = 15.5'$

$V = \text{area} \times Q = .79\ ft^2 \times 5\ cfs = 3.93$ fps

$D = 1'$

$g = 32.2\ ft/sec^2$

$h_L = 0.15'$

Oyster
131
air cap. 11 cfs

x section of Reel

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Rose's SW Paper Products ZONE ATLAS/DRNG. FILE #: L-14/D~~14~~/C

LEGAL DESCRIPTION: Tracts D & E, South Barelas Industrial Park

CITY ADDRESS: 1701 Second St. SW

ENGINEERING FIRM: Hall Engineering CONTACT: Richard Hall

ADDRESS: 337 Eubank NE Suite 103 PHONE: 292-1115

OWNER: Rose's Southwest Papers, Inc. CONTACT: Robert Espat

ADDRESS: --- PHONE: ---

ARCHITECT: The Ken Hovey Design Group CONTACT: Ken Hovey

ADDRESS: 3700 Simms Ave. SE PHONE: 255-4756

SURVEYOR: --- CONTACT: ---

ADDRESS: --- PHONE: ---

CONTRACTOR: S & J Enterprises CONTACT: ---

ADDRESS: 3300 Columbia Dr. NE PHONE: 884-6234

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED FEB 15 1985 HYDROLOGY SECTION

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

RECEIVED JAN 29 1985 HYDROLOGY SECTION

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

X FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

logged in on 2/4/85 because a vicinity map was not included on 1st submittal of 1/29/85

DATE SUBMITTED: 28 Jan. 1985

BY: _____

I. Down Stream Analysis

A. Watershed Area - 435000 ft^2

B. Watershed length - 850 ft

C. Watershed elevation difference - 6 ft

Slope $\frac{6}{850} = 0.0071$ ft/ft

D. $T_c = 0.0078 \frac{L \text{ Exp } 0.77}{S \text{ Exp } 0.385}$

$= 0.0078 \frac{850^{0.77}}{0.007^{0.385}}$

= 9.49 minutes

E. Rainfall Intensity

$I = 2.25 \times 6.04 \times 10^{-0.51}$

= 4.75 inches/hour

F. "C" Factor per recommendation by DPM Industrial Districts, hydrology soil group "B" =0.88

G. Peak Discharge Rational

$Q = CIA$

$= 0.88 \times 4.75 \times \frac{435000}{43560}$

= 41.7 cfs

H. Road Capacity Plate 22.3 D-3
Fourth St. has 48 feet of paving

½ street capacity 25 cfs
Full street capacity 50 cfs

I. Existing Storm Sewer Capacity
11 cfs, system 131, L-14N
S-300 to S-301

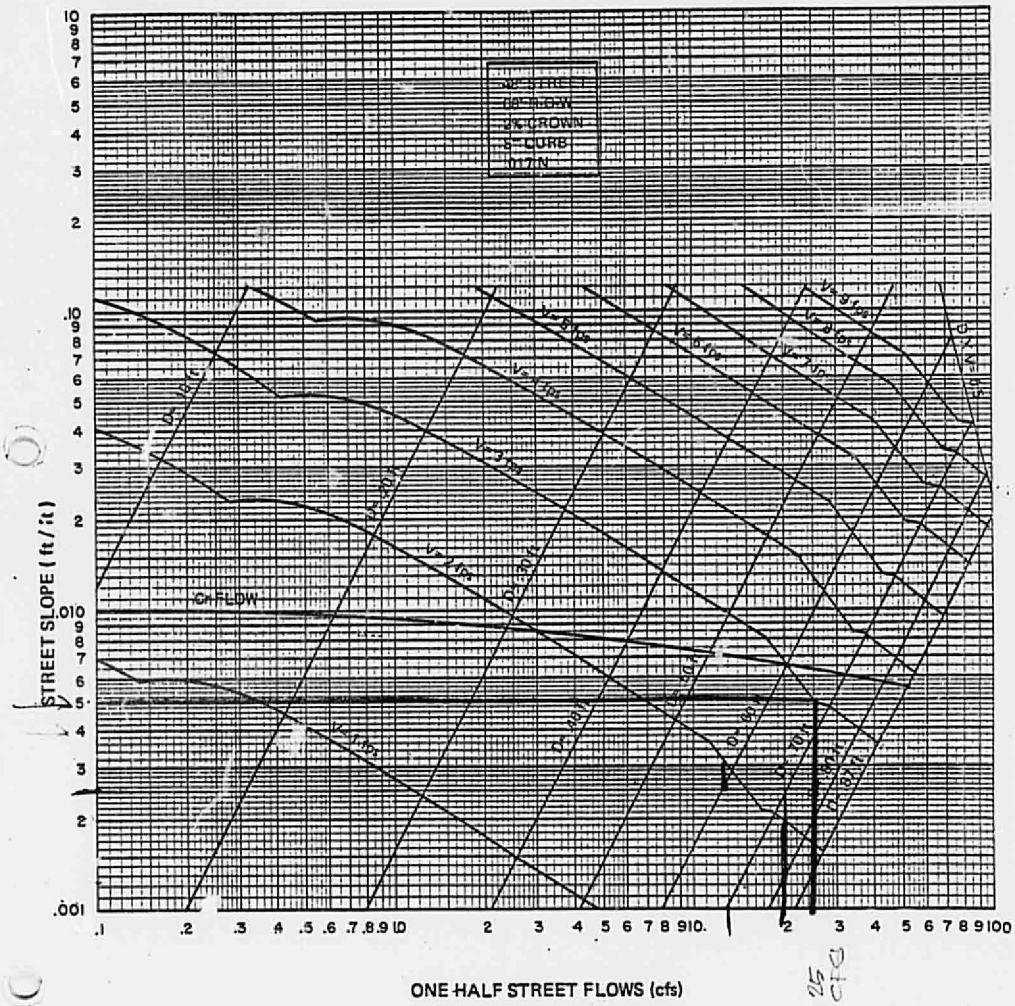
J. Total Capacity
Road 50 cfs
Storm sewer 11 cfs

Totals 61 cfs > 41.7

Thus 61 cfs > 41.7 cfs, therefore the system has adaquate capacity to handle rainfall run-off within the watershed area.

The run-off does not contribute to the 100 year flooding, however the entire site is situated within a designated 500 year flooding zone in accordance to Panel 34 50 of Floodway Flood Boundary and Floodway Maps of the City of Albuquerque, New Mexico.

STREET CAPACITY

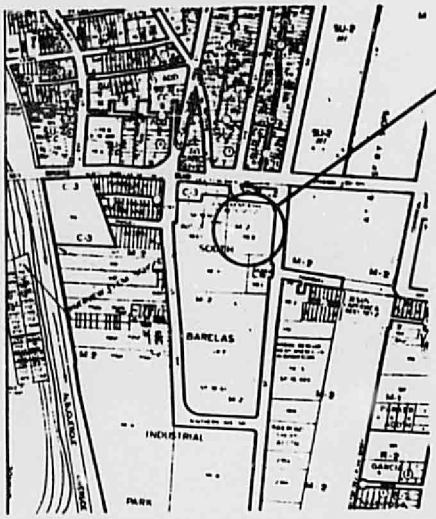


REV. 3-83

PLATE 22.3 D-3

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



RICHARD V. HAYS
NEW MEXICO
No. 5918
REGISTERED PROFESSIONAL ENGINEER
March 12, 1985

VICINITY MAP NTS

LEGAL DESCRIPTION:
TRACT E
SOUTH BARELAS INDUSTRIAL PARK
UNIT ONE, BERNALILLO COUNTY

REFERENCE CITY DATUM:
BRASS TABLET STAMPED "10-K14" UNDER STANDARD CAST IRON "WATER" METER COVER
LOCATED AT THE JUNCTION OF 2ND STREET & ATLANTIC AVE SW ON CENTERLINE
OF 2ND STREET. 1ST ORDER. ELEVATION = 4948.262

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.

2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. 85-1 "

3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.

4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

5. Backfill compaction shall be according to arterial street use.

L14-DIC

E-34

INTER-CON. CONSTRUCTION

APPROVALS	NAME	DATE
A.C.E./DESIGN		03/15/85
INSPECTOR	D.S.	
A.C.E./FIELD	W. F. McNamara	4/15/85

TITLE: Rose's Southwest Paper Products
1701 Second Street SW
Albuquerque, N.M.

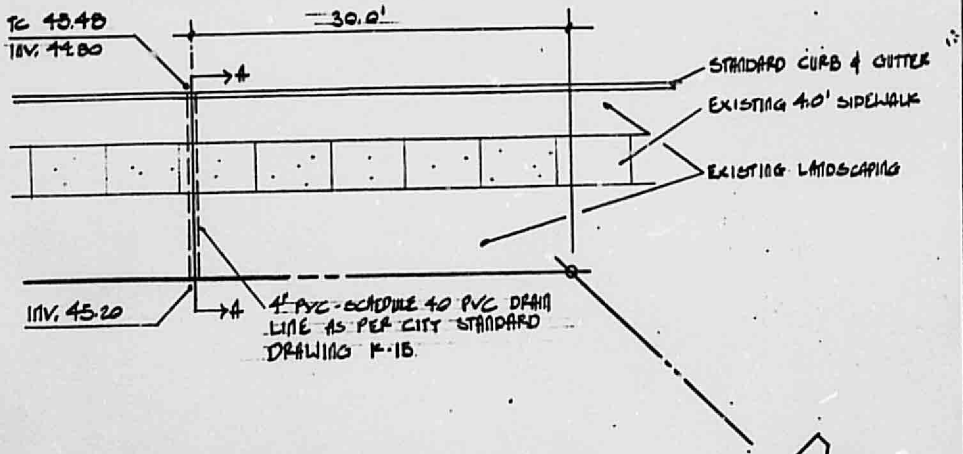
PERMIT NO. 20538
SHEET 1 OF 2

MAP NO. L-14

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

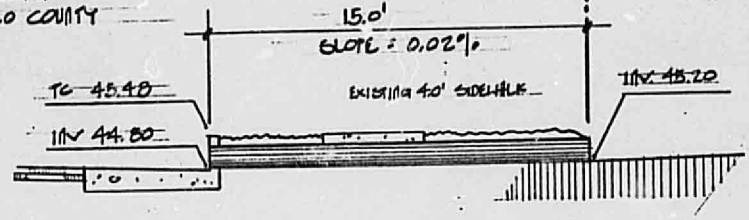
BRIDGE FRONTAGE — PAVED WIDTH = 40.0'



NORTHEAST CORNER OF SITE 1" = 10.0'

TEMPORARY BENCHMARK - TOP OF FIRE HYDRANT
SW CORNER TRACT 'D' SOUTH BARELAS
INDUSTRIAL PARK ELEV. = 4944.61

LEGAL DESCRIPTION
TRACT E
SOUTH BARELAS INDUSTRIAL PARK
UNIT ONE, BERNALILLO COUNTY



SECTION A-A NTS

REFERENCE CITY DATUM:
BRASS TABLET STAMPED "10-K14" UNDER STANDARD CAST IRON "WATER" METER COVER LOCATED AT THE JUNCTION OF 2nd STREET & ATLANTIC AVE SW ON CENTERLINE OF 2nd STREET
1st ORDER
ELEVATION = 4948.262

RICHARD V. HALL
NEW MEXICO
No. 4818
REGISTERED PROFESSIONAL ENGINEER

Richard V. Hall
6/1985

E-34

APPROVALS	NAME	DATE	TITLE: Rose's Southwest Paper Products 1701 Second Street SW Albuquerque, N.M.	
A.C.E./DESIGN		03/15/81		
INSPECTOR	D.S.		PERMIT NO. 20538 SHEET OF 2	MAP NO. L-14
A.C.E./FIELD	W.F. McNamara	6/13/85		

0 6 0 9