

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

December 19, 2001

Paul Brasher, PE Brasher & Lorenz, Inc. 2201 San Pedro NE, Bldg. 1, Suite 220 Albuquerque, NM 87110

RE: PNM Prager Switching Station Expansion Grading Plan (H13-D20) Dated December 14, 2001

Dear Mr. Brasher:

The above referenced grading plan received December 14, 2001 is approved for Grading Permit. The engineer will submit grading certification per the DPM to Hydrology upon completion of the project.

If you have any questions please call me at 924-3982

Sincerely,

Carlos A. Montoya

City Floodplain Administrator

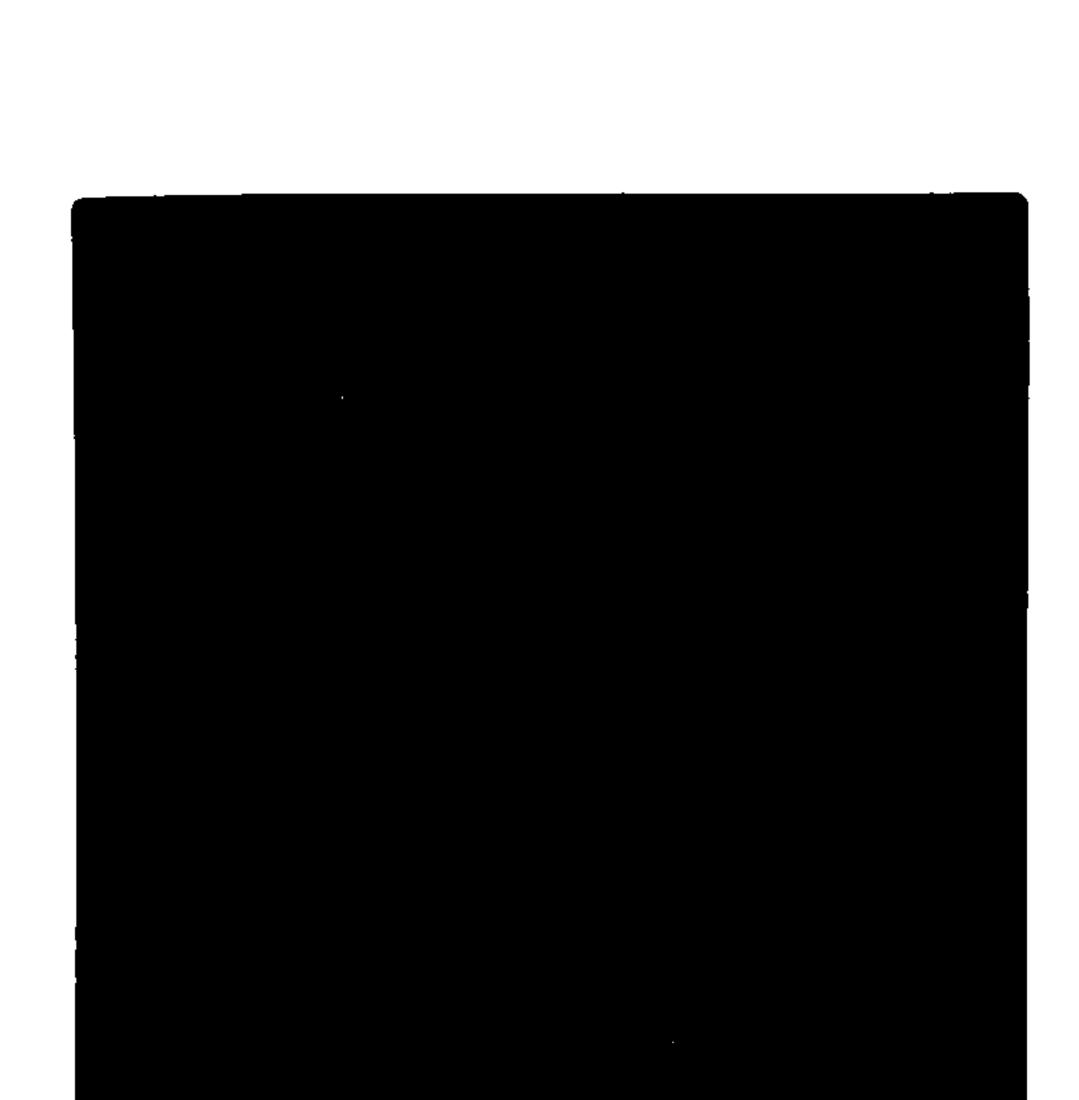
### DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

	/H-13/02/
PROJECT TITLE: PRAGER SWITCHING STATION (PNM) DRB #:EPC#:	701/5
DRB #:EPC#:	L ZONE MAP/DRG. FILE #: H-1つ WORK ORDER#:
LEGAL DESCRIPTION: TRACTO 1 AND 2 DOMESTO	. WORK ORDER#:
LEGAL DESCRIPTION: TRACTS   AND 2 PRAGER STATIO	NOTION NOTION
ENGINEERING FIRM: BRACHER & LORENZ, INC.	CONTACT: PAUL BIZAGHER
ADDRESS: 2201 SAN PEDRO HE BLOG 1, GUITE 220 CITY, STATE: DUBUGUERQUE NM	PHONE: 688-6088
	ZIP CODE: 87110
OWNER: PUPLIC GERNCE COMPANY OF NEW MEXICO (PA	/M)
ADDRESS: FUNDICADO SQUARE	CONTACT:PHONE:
CITY, STATE: ALBUQUEPQUE, NM	ZIP CODE: 87058
ARCHITECT:	
ADDRESS:	CONTACT:
CITY, STATE:	PHONE:
SURVEYOR:	ZIP CODE:
ADDRESS	_ CONTACT:
CITY, STATE:	PHONE:
	ZIP CODE:
CONTRACTOR:	
ADDRESS:CITY, STATE:	CONTACT:PHONE:
	ZIP CODE:
DRAINAGE PLAN 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	DEC 1 4 2001  HYDROLOGY SECTION
DATE SUBMITTED: 11 . 26 . 01  BY:	me-/
Partie for the formation of the formatio	REALER

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:

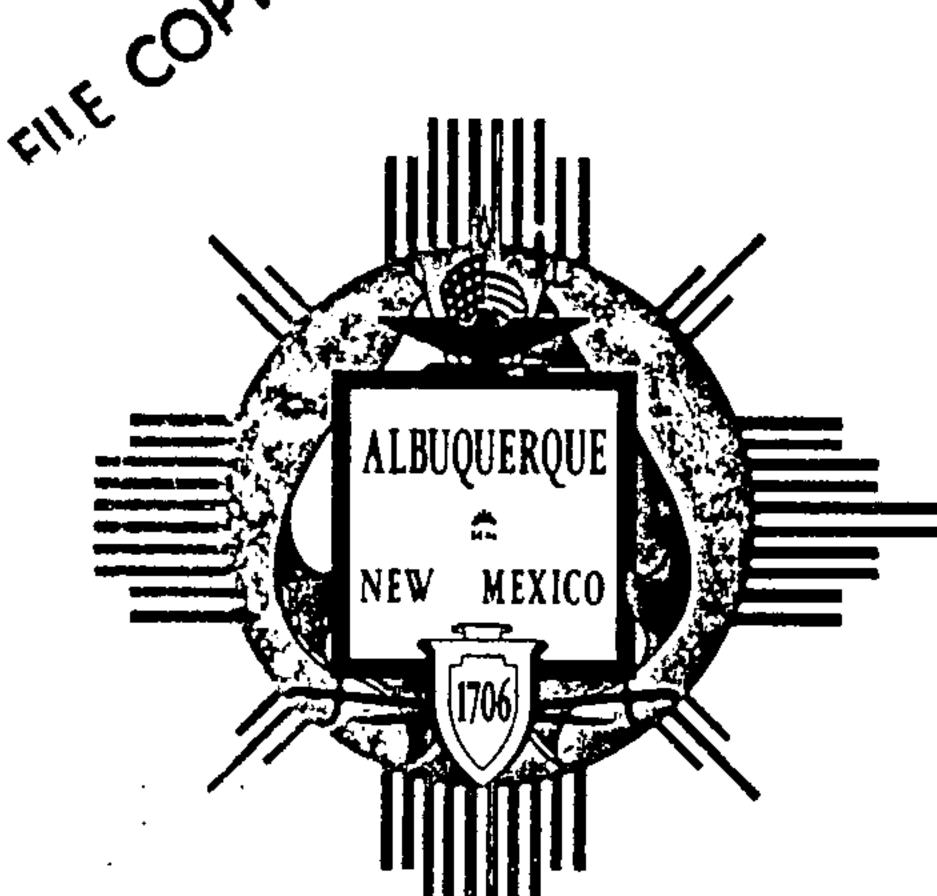
- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5)
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or



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

Ctn & associates, inc

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



### City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz Mayor

UTILITY DEVELOPMENT DIVISION HYDROLOGY SECTION (505) 768-2650

February 9, 1987

Gary Tibljas, P.E. Denney-Tibljas-M<sup>C</sup>Lean & Associates, Inc. 2400 Comanche Road, NE Albuquerque, New Mexico 87107

RE: CONCEPTUAL DRAINAGE REPORT FOR PRAGER STATION (H-13/D20)

Dear Gary:

We have received information from the Design Section regarding a flooding problem on Twelth Street. This problem will be partially corrected in the future. We believe that the problem in Twelth Street indicates that there is no downstream capacity for your site to drain.

We are therefore requesting that the master plan be changed to indicate temporary retention on-site. This temporary retention pond would be changed by the owner in the future, depending on the downstream capacity of the new improvements. We are requesting that the plan be changed and approved prior to final plat approval.

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

Cordially,

Carlos A. Montoya, P.E.

City/County Floodplain Administrator

CAM/bsj

**PUBLIC WORKS DEPARTMENT** 

Walter Nickerson, P.E., City Engineer

**ENGINEERING GROUP** 

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER ---

D.R.B. Case No. 86-602 D.R.C. Project No. N/A Date Submitted 12/16/86

#### FIGURE 11

EXHIBIT "D" to Subdivision Improvements Agreement

DEVELOPMENT REVIEW BOARD (D.R.B.)
REQUIRED INFRASTRUCTURE LISTING
For PRAGER STATION

Following is a summary of Public/Private Infrastructure required to be constructed or financially guaranteed to be constructed for the above development.

Size	*Type Improvement	Location	From	To
10"	Public Waterline & Appurtenances	Prager Station Tracts 2A, 2B, 2C & adjacent propert	12th Street ies	Mill Pond Road
<u>8"</u>	Public Sanitary Sewer and Appurtenances	Prager Station Tracts 2A, 2B, 2C  radjacent proper	12th Street  Aics A	Tract 2A
	Private Access Rd. Residential Paving	والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراع	12th Street	Cul-de-Sac
40' Rad.	Private Access Temp. Turnaround	South end of Private Access Rd.		
	Concrete Curb & Gutter (Both Sides	Prager Station ) Tract 2B	12th Street	Tract 2B

Prepared by: Janes.	
Print Name: Doe Dønes	
Firm: Denney-Kibljas-McLean & Assoc., Inc.	Page $1$ of $1$
************************************	*****
Development Review Board Model Assumed 12-16-86 Charles For Date WUD 12-16-96 DRB Chairmeter Figure 11 - Page D-1	ate) Parks & Rec. Date  Land 12-16-86



### City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

December 22, 1986

Gary Tibljas, P.E. Denney-Tibljas-M<sup>C</sup>Lean & Associates, Inc. 2400 Comanche Road, NE Albuquerque, New Mexico 87107

RE: CONCEPTUAL DRAINAGE REPORT FOR PRAGER STATION (H-13/D20) RECEIVED NOVEMBER 24, 1986

Dear Gary:

The above referenced plan is conceptually approved for the purpose of obtaining preliminary plat.

Prior to receiving any further approvals, a detailed drainage report per the DPM is required. If each tract is to come in separately for building permit, then a detailed drainage plan, per the DFM, will be required for approval prior to Hydrology sign-off.

Should you have any questions, comments, or if this office can be of further assistance, please call 768-2650.

Cordially,

Billy Goolsby, P.E.

C.E./Hydrology Section

BJG/bsj

PUBLIC WORKS DEPARTMENT

**ENGINEERING GROUP** 

Telephone (505) 768-2500

Walter Nickerson, P.E., City Engineer

MASTER DRAINAGE PLAN

FOR

PRAGER STATION

TRACTS 2A, 2B and 2C

NOVEMBER, 1986
DTM JOB NO. 902.12

#### PREPARED BY:

DENNEY-TIBLJAS-McLEAN & ASSOCIATES, INC.
CONSULTING ENGINEERS, SURVEYORS, PLANNERS
2400 COMANCHE ROAD NE
ALBUQUERQUE, NM 87107
(505) 884-0696

#### DRAINAGE INFORMATION SHEET

PROJECT TITLE: Prager Station ZONE A	ILAS/DRNG. FILE #: H-13/DZO
LEGAL DESCRIPTION: Prager Station Tracts 2A, 2B and	2C
CITY ADDRESS:	
ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC	. CONTACT: Joe Jones
ADDRESS: 2400 Comanche NE, Albuquerque, NM 8710	7 PHONE: 884-0696
OWNER: N/A	CONTACT: N/A
ADDRESS:	PHONE:
ARCHITECT: N/A	CONTACT: N/A
ADDRESS:	PHONE:
SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC.	CONTACT: Steven L. Youtsey
ADDRESS: 2400 Comanche NE, Albuquerque, NM 8710	7 PHONE: 884-0696
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
PRE-DESIGN MEETING:  X YES NO COPY OF CONFERENCE RECARDROLOGY SECTION SHEET PROVIDED	DRB No. 86-602 EPC No. PROJ. No.
TYPE OF SUBMITTAL:	CK TYPE OF APPROVAL SOUGHT:
GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION	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
DATE SUBMITTED: November 21, 1986	
JOE JONES	OTHER(SPECIFY) ·
REV. 10/85	•

I, <u>Gary W. Tibljas</u>, 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.

New Mexico Professional Engineer No. 8117



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

#### CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: 41	3 DATE: 8-18-86
PLANNING DIVISION NOS: EPC:	DRB:
SUBJECT: Prager Sta	tion Adda
STREET ADDRESS (IF KNOWN):	+ 152 of Prage
SUBDIVISION NAME:Station /	70lm
APPROVAL REQUEST	ED:
PRELIMINARY PLAT	FINAL PLAT
SITE DEVELOPMENT PLAN	BUILDING PERMIT
OTHER	ROUGH GRADING
<del></del>	
ATTENDANCE: Richard Doirte	REPRESENTING
FINDINGS:	
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2) Existing and time - (A) A	7MD'S Low small
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(B) Deichard Descents.	<u> </u>
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(C) gules contour	-/
(D) Show Stange lane	A. A.
Pumps Com be An Al site renoff.	Levalue 9 Deallange
site renoff.	
The undersigned agrees that the above finding are only subject to change if further inves	s are summarized accurately and stigation reveals that they are not
reasonable or that they are based on inaccura	te information.
SIGNED: Carlo A Monte SIGNE	D: Ruhant A lant
TITLE: TITLE	• — — — — — — — — — — — — — — — — — — —
DATE: 8-18-6 DATE:	8-18-86
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	Exhibit I	-	Loc	cat	io	n N	1 a p																	
	Exhibit II	-	F. 6	E . M	I <b>.</b> A	. F	: 1 o	o d	ΡŢ	aiı	n	Μa	р											

Exhibit III - Master Drainage Plan

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•	, ,		DATE 11/24/86 DTM JOB NO. 902.12	<del></del>
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TO	179	49	HYDROLOGY SECTION RE: PRAGER STATION	
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ENTL	EMEN:			
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	COPY C	FLETTER	CHANGE ORDER	
COPIES	DATE	NO.	DESCRIPTION	······································
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			MASTER DRAINAGE PLAN	
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			THANKS	
OPY TO			SIGNED: One	
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# CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

#### CONFERENCE RECAP

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DRAINAGE FILE/ZONE ATLAS PAGE NO.:	413 DATE: 8-14-46
PLANNING DIVISION NOS: EPC:	DRB:
SUBJECT: Proger	Ct. tion Adula
STREET ADDRESS (IF KNOWN):	Tet 157 al Plage
SUBDIVISION NAME:	ni A-Oulini
APPROVAL F	REQUESTED:
PRELIMINARY PLAT	FINAL PLAT
SITE DEVELOPMENT PLAN	BUILDING PERMIT
OTHER	ROUGH GRADING
**************************************	
ATTENDANCE: Richard Donn	REPRESENTING
Conlor A Ma	<u> </u>
FINDINGS:	DDD
W_3/Menny	
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+/20 - 120 m 51	to (B) sito in 2-31/mon
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(D) - Ringe 11	<u>o and</u>
(5) P A A	alternation to do allange
site renoff.	
The undersigned agrees that the above f	indings are summarized accurately and
are only subject to change if furthe reasonable or that they are based on ir	er investigation reveals that they are not accurate information.
	SIGNED: Kilment H. Many J.
TITLE:	TITLE:
DATE:	DATE: X-/X-X(-)
**NOTE** PLEASE PROVIDE A COPY OF THI	FO VEDAL MILL LUE NUMINUDE OCCUPATION

#### MASTER DRAINAGE PLAN PRAGER STATION TRACTS 2A, 2B and 2C

#### I. PURPOSE:

The purpose of this report is to determine an economical and effective Master Storm Water Management Plan for subject project.

#### II. GENERAL:

The development site consists of approximately 8 acres and is located at the Southeast Corner of the intersection of 12th Street and Interstate 40 (see Exhibit I). Presently the site is in a sump condition and is located within the 500-year flood plain; however, the site is not within the 100-year flood plain (see Exhibit II).

The development site presently exists as Tract 2. The site is being replatted into Tracts 2A, 2B and 2C, and access and drainage easements are being provided for each new tract.

#### III. DRAINAGE:

presently the site is located in a sump condition approximately 3 feet lower than 12th Street. Due to this sump condition, each tract will be required to construct a detention pond and discharge via a pump to the proposed access road (see Exhibit III). The maximum discharge each tract will be allowed is 0.5 cfs per acre.

The discharge onto the proposed access road will surface flow to 12th Street. At the present time, there is no flooding on 12th Street and there is a small storm drain in the street just north of the railroad tracks. Due to the small size of the storm drain, only the above defined controlled discharge rate will be allowed.

#### MASTER DRAINAGE PLAN PRAGER STATION TRACTS 2A, 2B and 2C

#### III. DRAINAGE: (CONTINUED)

Since the proposed development is unknown at this time, the exact pond locations as shown on Exhibit III will not be required to be adhered to at the time development occurs. Cross lot easements have been granted such that each parcel will have drainage access to the outfall point.

#### IV. CONCLUSION:

The Prager Station Master Drainage Plan comprises Prager Station Tracts 2A, 2B and 2C. All drainage considerations established within this report will be required to be adhered to at the time development occurs with the exception of the actual pond locations. Onsite pond locations may vary in order to accommodate future development.

This is a Master Drainage Plan establishing minimum drainage requirements for development. At the time of development, each tract will be required to submit a detailed Drainage and Grading Plan to the City of Albuquerque for approval.

## HYDROGRAPH COMPUTATION WORKSHEET DEVELOPED CONDITION

DATE		
COMPUTED	BY	
CHECK BY		<del>****</del>

Soil Gb (Gila) Type "B"		PA	GE 1		
PROJECT Prager Státion		(t/T <sub>p</sub> )	t (min.)	y	Q (cfs)
LOCATION Tract 2A	1	0	0	0	0
ANALYSIS POINT #	3	.2		.10	
(DR. AREA) A = 2.9 ACRES	5	.4		.190	
T <sub>C</sub> 10 MIN	7	.6		.470 .660 .820	•
POINT RAINFALL 2.2 IN. FROM PLATE 22:2 D-1	9	.8		.93 <b>0</b>	
CN = 88 FROM PLATES 22.2 C-2, 22.2 C-3	11	1.0		1.00	
RUNOFF VOLUME $R = 1.2$ IN. FROM PLATE 22.2 C-4		1.2	•	.93 <b>0</b>	
COMPUTED $T_p = 10^-$ MIN $T_p = T_c$ (Rounded to even minute)	15	1.4		.78 <b>0</b>	
$q_p = \frac{45.4A}{1.00} = \frac{13.2}{1.00} \text{ CFS./INCH OF RUNOFF}$	17	1.6		.550 .460	
• <b>p</b>	20	1.8		.390	
$(R \times q_p) = Q_{peak} = 15.8$ CFS	21	2.2		.280	
$t(COLUMN)=(t/T_p)$ $t=T_p(t/T_p)$	24	2.4		.147	
$y = Q - Q = y(Q_{peak})$	25 26 27	3.0 3.2		.055	
$Q_{peak}$ $V = RA$	28	3.4		.029	*
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## HYDROGRAPH COMPUTATION WORKSHEET DEVELOPED CONDITION

DATE		
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Soil Gb (Gila) Type "B"		PA	GE 2		
		$(t/T_0)$	t	Y	Q
PROJECT Prager Station		, , , , , , , , , , , , , , , , , , ,	(min.)		(cfs)
LOCATION Tract 2C	1	0	0	0	0
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ANALYSIS POINT #	3	.2		.10	
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POINT RAINFALL 2.2 IN. FROM PLATE 22.2 D-1	10	.0		.990	
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CN = 88 FROM PLATES 22.2 C-2, 22.2 C-3	12	1 1 1	<b></b>	.990	
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	15	1 1 4		.780	
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(Konnaen ro even minare)	17	1 1 6		.560_	
-45.4A = 91 CFS./INCH OF RUNOFF	18	1 .7	<u></u>	.460	
$q_p = \frac{45.4A}{1.00} = \frac{9.1}{1.00}$ CFS./INCH OF RUNUFF	19	11.8	}	.390	
' <b>p</b>	20	1.9	<u> </u>	.330	<u> </u>
$(R \times q_p) = Q_{peak} = 10.9$ CFS	21	1 2.0		.280	<u> </u>
The Appear	22	12.2	<u> </u>	.207	
$t(COLUMN)=(t/T_p)$ $t=T_p(t/T_p)$	23	1 2.4	<u> </u>	.147	
e (cocoming (crip)	24	1 2.6	<u> </u>	.107	<u> </u>
	25	1.2.8	<u></u>	.077	<u> </u>
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	27	3.2	<u> </u>	.040	<u> </u>
Q <sub>peak</sub>	28	3.4	<u> </u>	.029	<u>.</u>
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PLATE 22.2 F-1

## HYDROGRAPH COMPUTATION WORKSHEET DEVELOPED CONDITION

DATE		 	
COMPUTED	BY		
CHECK BY			

12.2

Soil Gb (Gila) Type "B"	PAGE 3					
PROJECT Prager Station		(t/T <sub>p</sub> )	•	y	Q (cfs)	
LOCATION Tract 2B	]	0	0	0	0	
ANALYSIS POINT #	3	.2		.10		
(DR. AREA) $A = 3.1$ ACRES	5	1 .4		.130		
T <sub>C</sub> 10 MIN	7	1 .6		.660		
POINT RAINFALL 22 IN. FROM PLATE 22.2 D-1	9	.8		.930		
CN = 88 FROM PLATES 22.2 C-2, 22.2 C-3	11	1.0		1.00		
RUNOFF VOLUME R = 1.2 IN. FROM PLATE 22.2 C-4	13	1.2	•	.93 <b>0</b>		
COMPUTED $T_p = 10 - MIN T_p = T_c$ (Rounded to even minute)	15	1 1.4		.78 <b>0</b>		
$q_p = \frac{45.4A}{1.1} = \frac{14.1}{1.1}$ CFS./INCH OF RUNOFF	17	1.6		.560 .460		
φ	20	1 1.8		.390		
$(R \times q_p) = Q_{peak} = 16.9$ CFS	21	2.0		.280		
$t(COLUMN) = (t/T_p) \qquad t = T_p(t/T_p)$	24	2.4		.147	•	
$y = Q  Q = y(Q_{peak})$	2 <b>5</b> 2 <b>6</b> 2 <b>7</b>	3.0 3.2		.055		
Q <sub>peak</sub>	28	3.4		.029		
V = RA V = (1.2)/12(3.1)(43560)	30 31	3.8		.015		
V = 13,500 CF Developed	3 <b>2</b> 3 <b>3</b>	4.5		.005		

