

Martin J. Chávez, Mayor

September 9,1997

Ronald R. Bohannan Tierra West, LLC 4421 McLeod Rd. NE Suite D Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR FIRST STATE BANK @ JOURNAL CENTER (D17-D3U) ENGINEER'S STAMP DATED 8/15/97

Dear Mr. Bohannan:

Based on the information provided on August 15,1997 submittal, the above referenced site is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE Associate Engineer





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 12, 1996

Ronald R. Bohannan, P.E. Tierra West Dev. Mgt. Ser. 4600 Montgomery NE Suite #3 Albuquerque, N.M. 87109

RE: ENGINEER'S CERTIFICATION FOR FIRST STATE BANK (D-17/D3U)

RECEIVED MARCH 8, 1996 FOR CERTIFICATE OF OCCUPANCY

ENGINEER'S STAMP DATED 3/7/96

Dear Mr. Bohannan:

Based on the information included in the submittal referenced above, City Hydrology accepts the Engineer's Certification. Contact Vicki Chavez at Code Administration to obtain the Certificate of Occupancy for 7900 Jefferson NE.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

c: Andrew Garcia

First State Bank, 1418 Carlisle NE; Alb, N.M. 87110

on 3-12-96 pro

Notified Melissa



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 11, 1995

Ronald R. Bohannan, P.E. Tierra West Dev. Mgt. Ser. 4600 Montgomery NE Suite #3 Albuquerque, N.M. 87109

RE: GRADING & DRAINAGE PLAN FOR FIRST STATE BANK (D-17/D3U)

RECEIVED APRIL 10, 1995 FOR BUILDING PERMIT

ENGINEER'S STAMP DATED 4-10-95

Dear Mr. Bohannan:

Based on the information included in the submittal referenced above, City Hydrology accepts the Grading & Drainage Plan for Building Permit.

Include a copy of the approved Grading & Drainage Plan, dated 4-10-95, in the set of construction documents that will be submitted to Code Administration for the Building Permit.

Engineer's Certification of grading & drainage per DPM checklist must be approved before any Certificate of Occupancy will be released.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

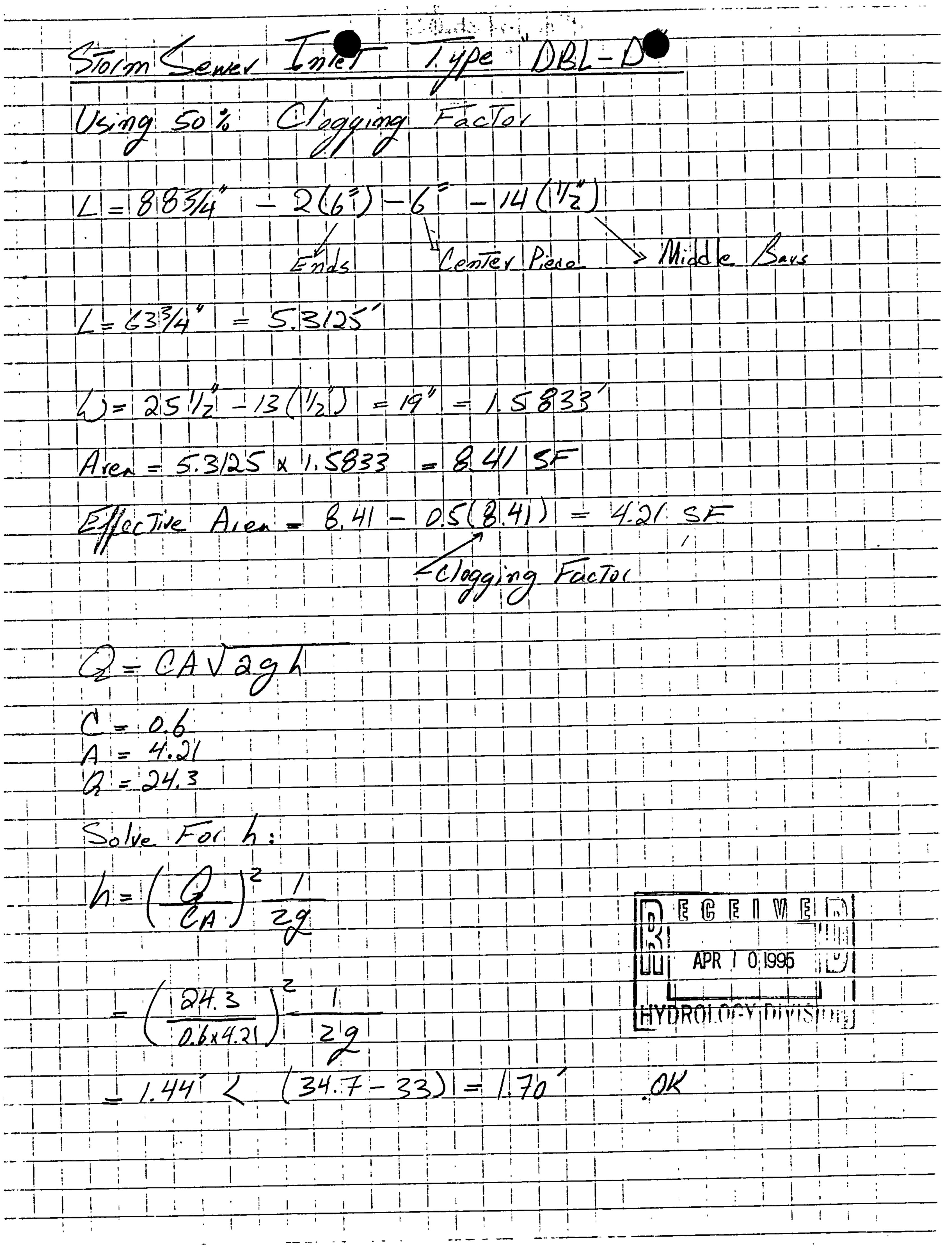
John P. Curtin, P.E.

Civil Engineer/Hydrology

John R. autor.

c: Andrew Garcia

First State Bank, 1418 Carlisle NE; Alb, N.M. 87110



Storm Sener Tonlet Type" D' Using 50% Clogging Factor L=40" W=251/2 Aver = (40° x251/2) = 8.36 SF Assuming 50% Clogging Factor: 50% Aver = 0.5 (8.36) = 4.18 BF a=caJagh $h = \left(\frac{a}{cA}\right)^2 \frac{1}{22}$ $= \frac{24.3}{0.8(4.18)} \frac{1}{29}$

APR 5 1995

(water Depthé The Disp Enlet)

LOCATION MAP ZONE ATLAS INDEX MAP No. D-17-Z NOT TO SCALE

DISCLOSURE STATEMENT

The purpose of this plat is to subdivide Tract 1A of the JOURNAL CENTER, filed June 30, 1983 in Volume C21, Folio 126, excepting that portion acquired by the New Mexico State Highway Department, shown as Parcel C-8-3 on New Mexico State Highway Department Right of Way Map for Project SP-GRM-4054(200), Section "C", into four (4) Tracts, to dedicate Street Right-of-Way to the City of Albuquerque and to grant Easements.

SUBDIVISION DATA

- 1. DRB No. 44-061
- 2. Zone Atlas Index No. D-17-Z.
- 3. Gross Subdivision Acreage: 25.7073 Acres.
- 4. Total Number of Tracts created: 4 Tracts.
- 5. Total mileage of full width Streets created: 0.2443 Mile.
- 6. Date of Survey: November, 1994.
- 7. Plat is located within the Elena Gollegos Grant, in Projected Section 23, T11N, R3E, NMPM.

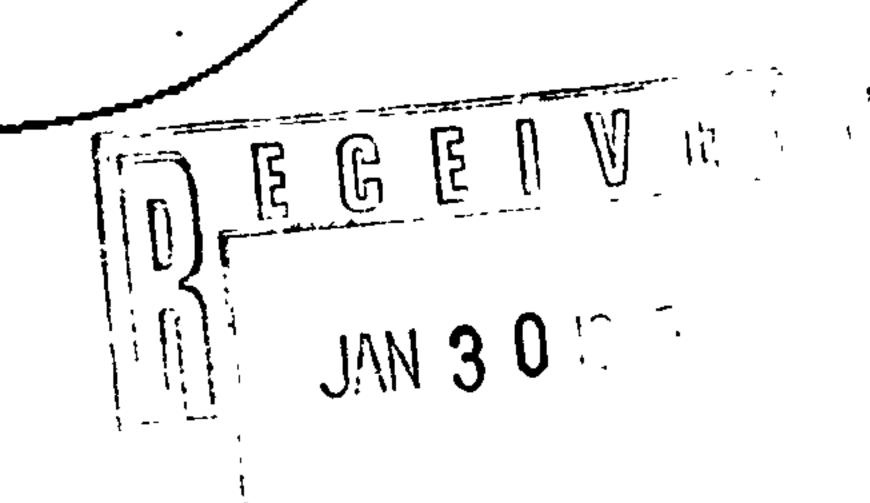
NOTES

- 1. Bearings are New Mexico State Plane Grid Bearings (Central Zone).
- 2. Distances are ground distances.
- 3. All easements of record are shown.
- 4. Centerline (in lieu of R/W monumentation) to be installed at all centerline PC's, PT's, angle points and street intersections prior to acceptance of subdivision improvements—and-will consist of a standard four-inch (4") aluminum alloy cop-stamped "City of Albuquerque", Centerline Monumentation", Survey Market, "Do Not Disturb", RLS#6544."
- Prior to development, City of Albuquerque Worter and Sanitary Sewer Service to Tract' 1A-2, JOURNAL CENTER must be verified and coordinated with the Public Works Department, City of Albuquerque, via a request for water and sanitary sewer availability statement.
- 6. A private, reciprocal cross-drainage easement is provided across Tract (A-3 for drainage from Tract IA-5. This easement is provided for the benefit of Treet IA-5 but shall be maintained by Tract IA-3.

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are ten (10) feet wide and are for the common joint use of:

- A. The Public Service Company of New Mexico for the installation, maintenance, and service of overhead and underground electrical lines, transformers, and other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.
- B. The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary io provide notural gos. An establishistic and constant and an established and the constant of the constant of



DRAINAGE REPORT FOR

First State Bank Tract 1-A3 Journal Center

Prepared for:

Jack A. Westman Westman Investments 4600 Montgomery Boulevard, NE, Suite 7 Albuquerque, New Mexico 87109 (505) 883-5221

Prepared by:

Tierra West Development Management Services 4600 Montgomery Boulevard, NE, Suite 3 Albuquerque, New Mexico 87109 (505) 883-7592

November, 1994

Purpose & Legal Description

The purpose of this submittal is to analyze and prepare a grading and drainage plan for Tract 1A-3 of the Journal Center. The Tract is situated on southeast corner of Jefferson Street and the future extension of Lang Avenue. The site has been highlighted on zone atlas sheet D-17.

Existing Conditions

The site has a natural slope of 3% falling from the east to the west side of the Tract. The drainage for this site was done as part of the Journal Center Master Drainage Plan, and the existing drainage system is setup for the developed conditions. This Tract is part of Basin C of the master drainage plan and drains to the Domingo Baca Arroyo via a 48" RCP on the west side of the Tract 1A-2. A water block is set at the south side of the site and diverts all the flow to an existing drainage structure on the southwest side of the lot and then to Tract 1A-2. The off-site flows from Tract 1A-5 on the east side drains to this site and to the drop inlet. The off-site flows from the north (Tract 1A-4) drain to Lang Avenue to a drop inlet. Tract 1A-2 drains via surface flows to the 48" RCP pipe on the west side of the Tract. All the runoffs from the south of the Tract are intercepted by Jefferson Street and drained via storm drain system to Domingo Baca Arroyo. See attached (B.H. Master Plan) sheet.

Proposed Conditions

The site will follow the same management plan included in the Master Drainage Plan. Tract 1A-3 is divided into two Basins A and B. Basin A (4.27 cfs) will drain to Lang Wrong Avenue to a future drop inlet, to Tract 1A-2, and then to a 48" RCP which is eventually drained to Domingo Baca Arroyo. Basin B (4.78 cfs) drain to Basin A in will follow the 7 same drainage path. Tract 1A-5 currently is being analyzed by Issacon & Arfman, P.A. They are proposing to drain a total runoff (19.21 cfs) from the Tract via storm drain system to southwest corner of Tract 1A-3. The runoff from Tract 1A-5 (19.21 cfs) and runoff from Basin on Tract 1A-3 (9.05 cfs) a total of 28.26 cfs will drain via surface flow to a new drop inlet on the southwest corner of the Tract 1A-3. The outlet (24" SD) from the new drop inlet is designed for 24.3 cfs as per B.H. Master Drainage Plan. See calculation sheet for ponding calculation for flow difference from BHI and this report. See enclosed (BHI Master Plan) sheet.

The site lies on Panel 9 of the National Flood Insurance Program Maps prepared for the Federal Emergency Management Agency (FEMA), dated October 14, 1983, under panel number 350002 0009. The site does not lie within any flood plain as shown on that map.

Hydrology Calculations

The calculations were performed using AHYMO analysis by the guidelines under Section 22.2 Hydrology of the Development Process Manual Volume 2, latest revision January, 1993.

RPOPOSED CONDITIONS

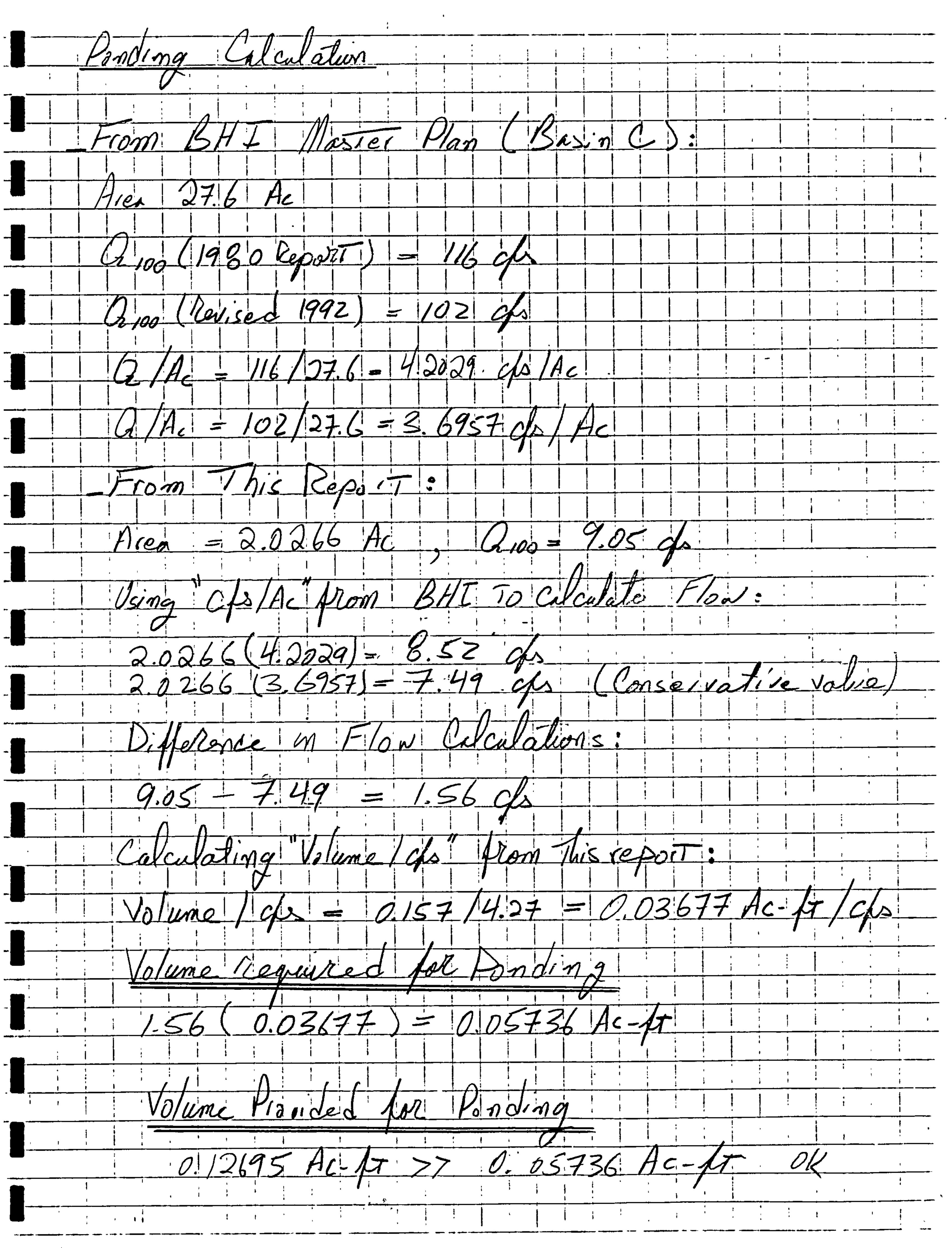
HYMO #	AREA (SQ MI)	FLOW (CFS)	VOLUME (AC-FT)					
100-YEAR STORM								
101.1	0.00149	4.27	0.157					
101.2	0.00167	4.78	0.177					
	10-YEAR STC	PM						
101.3	0.00149	2.76	0.098					
101.4	0.00167	3.10	0.110					
	101.1 101.2 101.3	100-YEAR STO 101.1 0.00149 101.2 0.00167 10-YEAR STO 101.3 0.00149	100-YEAR STORM 101.1 0.00149 4.27 101.2 0.00167 4.78 10-YEAR STORM 101.3 0.00149 2.76					

EXISTING CONDITIONS

BASIN	HYMO #	AREA (SQ MI)	FLOW (CFS)	VOLUME (AC-FT)			
100-YEAR STORM							
Α	102.1	0.00149	2.18	0.062			
В	102.2	0.00167	2.44	0.069			
10-YEAR STORM							
Α	102.3	0.00149	0.89	0.022			
В	102.4	0.00167	1.00	0.025			

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               DRAINAGE CALCULATION FOR TRACT 1A-3
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                    UNDER PROPESED CONDITIONS
                              100-YR
  BASIN A
START
RAINFALL
                    TYPE=1 RAIN QUARTER=0.0 IN
                    RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                    RAIN DAY=2.75 IN DT=0.03333 HR
COMPUTE NM HYD
                   ID=1 HYD NO=101.1 AREA=0.001490 SQ MI
                    PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00 >
                    TP=0.1333 HR MASS RAINFALL=-1
 BASIN B
COMPUTE NM HYD
                   ID=1 HYD NO=101.2 AREA=0.001671 SQ MI
                    PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
                    TP=0.1333 HR MASS RAINFALL=-1
                               10-YR
* BASIN A
START
RAINFALL
                    TYPE=1 RAIN QUARTER=0.0 IN
                    RAIN ONE=1.34 IN RAIN SIX=1.57 IN
                    RAIN DAY=1.83 IN DT=0.03333 HR
                   ID=1 HYD NO=101.3 AREA=0.001490 SQ MI
COMPUTE NM HYD
                    PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
                    TP=0.1333 HR MASS RAINFALL=-1
  BASIN B
COMPUTE NM HYD
                    ID=1 HYD NO=101.4 AREA=0.001671 SQ MI
                    PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
                    TP=0.1333 HR MASS RAINFALL=-1
                    UNDER EXISTING CONDITIONS
                              100-YR
* BASIN A
START
                   TYPE=1 RAIN QUARTER=0.0 IN
RAINFALL
                    RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                    RAIN DAY=2.75 IN DT=0.03333 HR
COMPUTE NM HYD
                    ID=1 HYD NO=102.1 AREA=0.001490 SQ MI
                    PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
                    TP=0.1333 HR MASS RAINFALL=-1
  BASIN B
COMPUTE NM HYD
                   ID=1 HYD NO=102.2 AREA=0.001671 SQ MI
                    PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
                    TP=0.1333 HR MASS RAINFALL=-1
                               10-YR
  BASIN A
START
RAINFALL
                    TYPE=1 RAIN QUARTER=0.0 IN
                    RAIN ONE=1.34 IN RAIN SIX=1.57 IN
                    RAIN DAY=1.83 IN DT=0.03333 HR
COMPUTE NM HYD
                   ID=1 HYD NO=102.3 AREA=0.001490 SQ MI
                    PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00
                    TP=0.1333 HR MASS RAINFALL=-1
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* BASIN B

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COMPUTE NM HYD

ID=1 HYD NO=102.4 AREA=0.001671 SQ MI PER A=0.00 PER B=100.00 PER C=0.00 PER D=0.00 TP=0.1333 HR MASS RAINFALL=-1

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AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994 INPUT FILE = D.DAT RUN DATE (MON/DAY/YR) =11/01/1994 USER NO.= R_BOHANN.IO1

		FROM	TO		PEAK	RUNOFF	D1111055	TIME TO	CFS	PAGE =	1
	HYDROGRAPH	ID	ID	AREA	DISCHARGE	VOLUME	RUNOFF	PEAK	PER	MOTATI	ON
COMMAND	IDENTIFICATION	NO.	NO.	NO. (SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATION	
START										TIME=	.00
	E= 1									RAIN6=	2.350
COMPUTE NM HY		-	1	.00149	4.27	.157	1.98165	1.500	4.475	PER IMP=	90.00
COMPUTE NM HY		-	1	.00167	- 4.78	.177	1.98165	1.500	4.473	PER IMP=	90.00
START			·							TIME=	.00
	E= 1									RAIN6=	1.570
COMPUTE NM HY		-	1	.00149	2.76	.098	1.23171	1.500	2.896	PER IMP=	90.00
COMPUTE NM HY		-	1	.00167	3.10	.110	1.23172	1.500	2.895	PER IMP=	90.00
START					~					TIME=	.00
	E= 1			-						RAIN6=	2.350
COMPUTE NM HY	'D 102.10	•	1	.00149	2.18	.062	.77821	1.533	2.286	PER IMP=	.00
COMPUTE NM HY	D 102.20	-	1	.00167	2.44	.069	.77821	1.533	2.285	PER IMP=	.00
START										TIME=	.00
RAINFALL TYP	E= 1									RAIN6=	1.570
COMPUTE NM HY	'D 102.30	-	1	.00149	.89	.022	.27828	1.533		PER IMP=	.00
COMPUTE NM HY	'D 102.40	-	1	.00167	1.00	.025	.27828	1.533	.938	PER IMP=	.00
FINISH											