



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 29, 2002

Permit # 2076901
by EFS - on 1/7/04

Dennis Lorenz, P.E.
Brasher & Lorenz, Inc.
2201 San Pedro NE Building 1
Albuquerque, New Mexico 87110

RE: NEW LIFE HOMES- AIRPORT RD NW (K-10/D41)
Grading and Drainage Submitted for Building Permit and SO19 Approval
ENGINEERS STAMP DATED 6/1/2002

Dear Mr. Lorenz:

Based upon the information provided in your July 29, 2002 submittal, the above referenced project is approved for Building Permit and SO19 approval

Please attach a copy of this approved plan to the construction sets prior to signoff by Hydrology.

Prior to any grading of the site, a Top Soil Disturbance Permit from the Environmental Health Department is required.

A separate permit is also required for construction within the City right-of-way for the SO19. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to release of the Certificate of Occupancy, an Engineer's Certification of the grading and drainage plan, per the DPM checklist will be required.

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

Sincerely,

Bradley L. Bingham, P.E.
Senior Civil Engineer- Hydrology
COA- Dev. & Bldg. Ser. Division

c: ☒ Pam Lujan, COA- Permits
Matt Cline, COA- Storm Drain Maint.
Approval file
Drainage File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

***Planning Department
Transportation Development Services Section***

February 20, 2004

Steve K. Morrow, P.E.
2201 San Pedro NE, Bldg 1, Ste 1200
Albuquerque, NM 87110

Re: Certification Submittal for Final Building Certificate of Occupancy for
New Life Homes, [K-10 / D41]
330 Airport Rd SW
Engineer's Stamp Dated 02/18/04

Dear Mr. Morrow:

The TCL / Letter of Certification submitted on February 19, 2004 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
☐ Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

K-10/D41

PROJECT TITLE: NEW LIFE HOMES ZONE MAP/DRG. FILE #: K-10/D-41
DRB #: 03 DRB 01968 EPC#: 03EPC-00692 WORK ORDER#: 7001.81

LEGAL DESCRIPTION: TRACT 111-A, TOWN OF ATRISCO GRANT, UNIT 6
CITY ADDRESS: 330 AIRPORT ROAD SW

ENGINEERING FIRM: BRASHER AND LORENZ, INC.
ADDRESS: 2201 SAN PEDRO NE, BLDG 1, STE. 1200
CITY, STATE: ALBUQUERQUE, NM

CONTACT: STEVE MORROW
PHONE: 888-6088
ZIP CODE: 87110

OWNER: NEW LIFE HOMES, INC.
ADDRESS: P.O. BOX 90486
CITY, STATE: ALBUQUERQUE, NM

CONTACT: JOHN BLOOMFIELD
PHONE: (505) 293-7553
ZIP CODE: 87199-0486

ARCHITECT: GARRETT SMITH, LTD.
ADDRESS: 514 CENTRAL SW
CITY, STATE: ALBUQUERQUE, NM

CONTACT: JOHN MAZZOLA
PHONE: 766-6968
ZIP CODE: 87102

SURVEYOR: SURVEYS SOUTHWEST LTD.
ADDRESS: 333 LOMAS
CITY, STATE: ALBUQUERQUE, NM

CONTACT: DAN GRANEY
PHONE: 998-0303
ZIP CODE: 87102

CONTRACTOR: GLOBAL STRUCTURES
ADDRESS: 2820 BROADBENT PKWY NE, STE. F
CITY, STATE: ALBUQUERQUE, NM

CONTACT: JON CARLO TRUJILLO
PHONE: 264-1365
ZIP CODE: 87125

CHECK TYPE OF SUBMITTAL:

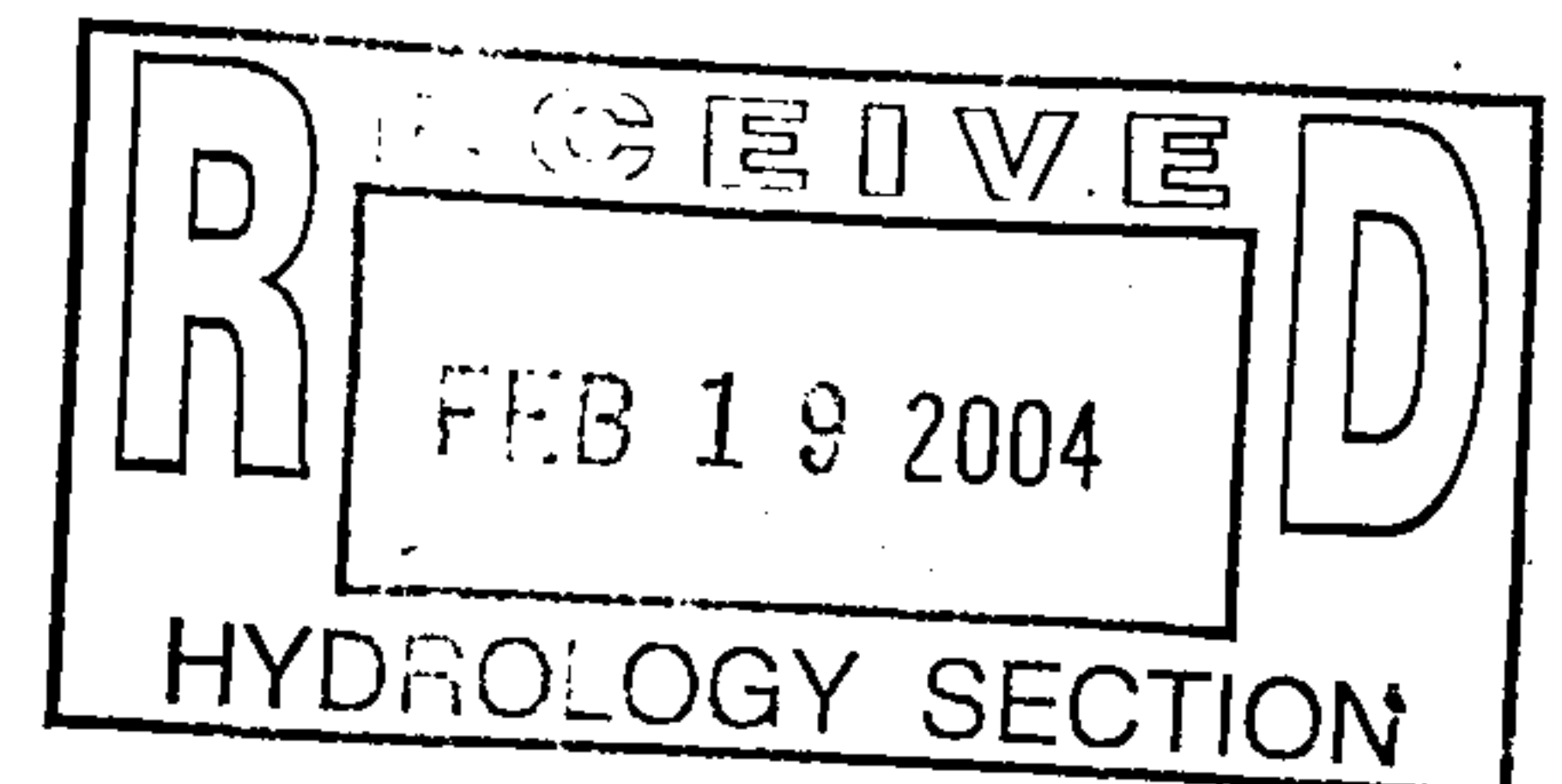
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
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- ☐ EROSION CONTROL PLAN
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- ☐ ENGINEERS CERTIFICATION (TCL)
- ☒ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
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- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 2-19-04 BY: STEVE MORROW

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 (5) acres and Sector Plans.
2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 20, 2004

Steven Morrow, P.E.
Brasher & Lorenz
2201 San Pedro NE, Building 1 Suite 1200
Albuquerque, NM 87110

**Re: New Life Homes, 330 Airport Rd. SW, Certificate of Occupancy
Engineer's Stamp dated 6-01-02 (K10/D41)
Certification dated 2-18-04**

Dear Mr. Morrow,

Based upon the information provided in your submittal received 2-19-04, the above referenced certification is approved for release of permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

C: Phyllis Villanueva
file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

K-10/D41

PROJECT TITLE: NEW LIFE HOMES ZONE MAP/DRG. FILE #: K-10/D-41
 DRB #: 03 DRB 01968 EPC#: 03EPC-00692 WORK ORDER#: 7001.81

LEGAL DESCRIPTION: TRACT 111-A, TOWN OF ATRISCO GRANT, UNIT 6
 CITY ADDRESS: 330 AIRPORT ROAD SW

ENGINEERING FIRM: BRASHER AND LORENZ, INC.
 ADDRESS: 2201 SAN PEDRO NE, BLDG 1, STE 1200
 CITY, STATE: ALBUQUERQUE, NM

CONTACT: STEVE MORROW
 PHONE: 888-6088
 ZIP CODE: 87110

OWNER: NEWLIFE HOMES, INC.
 ADDRESS: P.O. BOX 90486
 CITY, STATE: ALBUQUERQUE, NM

CONTACT: JOHN BLOOMFIELD
 PHONE: (505) 293-7553
 ZIP CODE: 87199-0486

ARCHITECT: GARRETT SMITH, LTD.
 ADDRESS: 514 CENTRAL SW
 CITY, STATE: ALBUQUERQUE, NM

CONTACT: JOHN MAZZOLA
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 PHONE: 998-0303
 ZIP CODE: 87102

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 ADDRESS: 2820 BROADBENT PKWY NE, STE F
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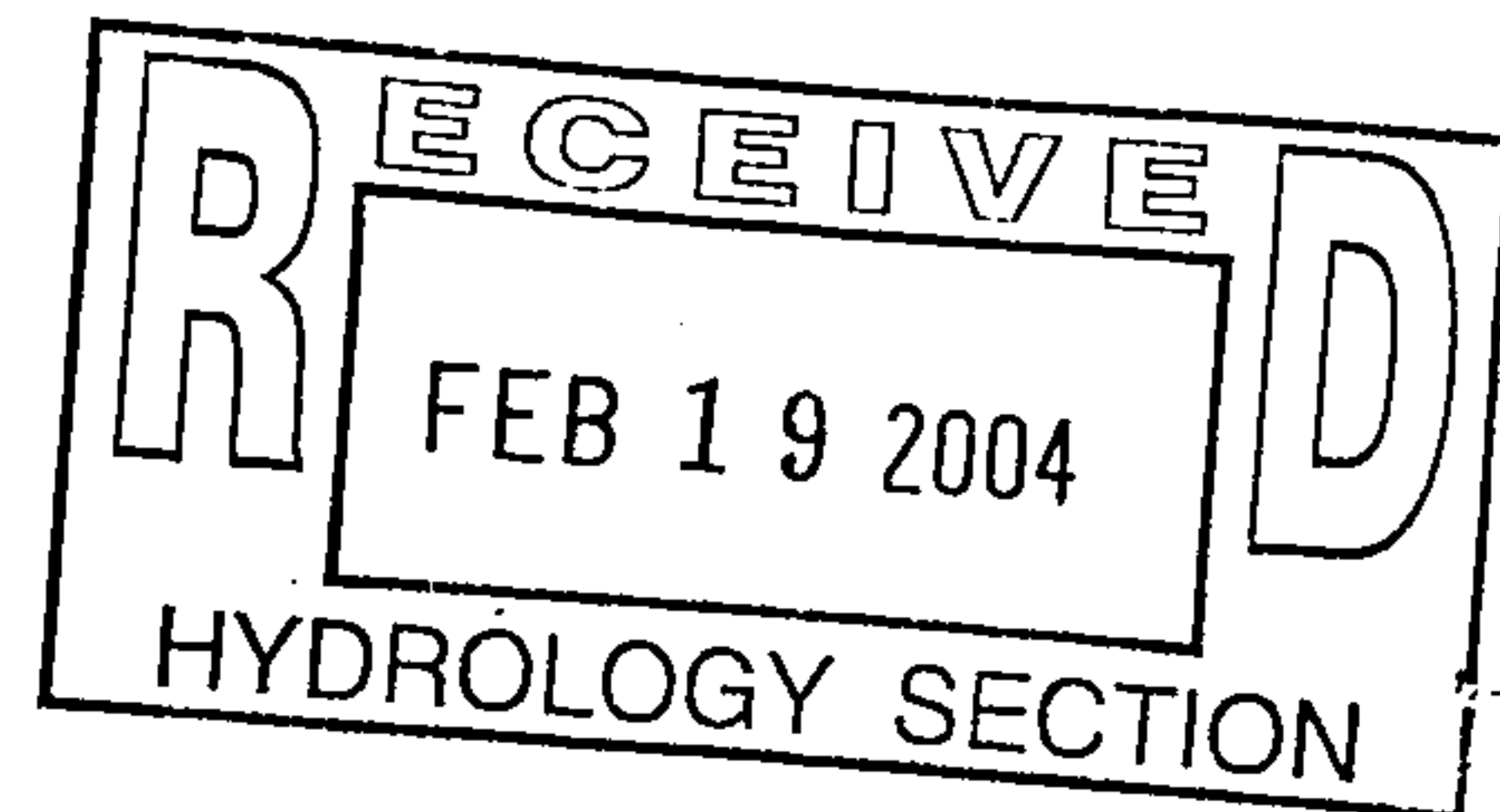
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5019 → 1/7/04 Issued

Dennis Lorenz - stamp date 6/1/02

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 2-19-04 BY: STEVE MORROW

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City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 29, 2002

Dennis Lorenz, P.E.
Brasher & Lorenz, Inc.
2201 San Pedro NE Building 1
Albuquerque, New Mexico 87110

RE: NEW LIFE HOMES- AIRPORT RD NW (K-10/D41)
Grading and Drainage Submitted for Building Permit and SO19 Approval
ENGINEERS STAMP DATED 6/1/2002

Dear Mr. Lorenz:

Based upon the information provided in your July 29, 2002 submittal, the above referenced project is approved for Building Permit and SO19 approval.

Please attach a copy of this approved plan to the construction sets prior to signoff by Hydrology.

Prior to any grading of the site, a Top Soil Disturbance Permit from the Environmental Health Department is required.

A separate permit is also required for construction within the City right-of-way for the SO19. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to release of the Certificate of Occupancy, an Engineer's Certification of the grading and drainage plan, per the DPM checklist will be required.

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

Sincerely,

Bradley L. Bingham, P.E.
Senior Civil Engineer- Hydrology
COA- Dev. & Bldg. Ser. Division

c: Pam Lujan, COA- Permits
Matt Cline, COA- Storm Drain Maint.
Approval file
Drainage File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE: NEW LIFE HOMES

DRB #: 1001626

EPC#: 0112801751

ZONE MAP/DRG. FILE #: K10-1541

WORK ORDER#: _____

LEGAL DESCRIPTION: LOT 111A TOWN OF ATRISCO GRANT UNIT 6

CITY ADDRESS: AIRPORT RD SW

ENGINEERING FIRM: BRASHER & LORENZ

ADDRESS: 2201 SAN PEDRO NE

CITY, STATE: ABQ NM

CONTACT: D. LORENZ

PHONE: 888-6088

ZIP CODE: 87110

OWNER: NEW LIFE HOMES

ADDRESS: PO BOX 90406

CITY, STATE: ABQ NM

CONTACT: J. BLOOMFIELD

PHONE: 293-7553

ZIP CODE: 87199

ARCHITECT: GARRETT - SMITH

ADDRESS: 514 CENTRAL SW

CITY, STATE: ABQ NM

CONTACT: R. JACOB

PHONE: 766-6968

ZIP CODE: 87102

SURVEYOR: SURVEYS SW

ADDRESS: 333 LOMAS NW

CITY, STATE: ABQ NM

CONTACT: DAN GRANEY

PHONE: 998-0303

ZIP CODE: 87102

CONTRACTOR: NA

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

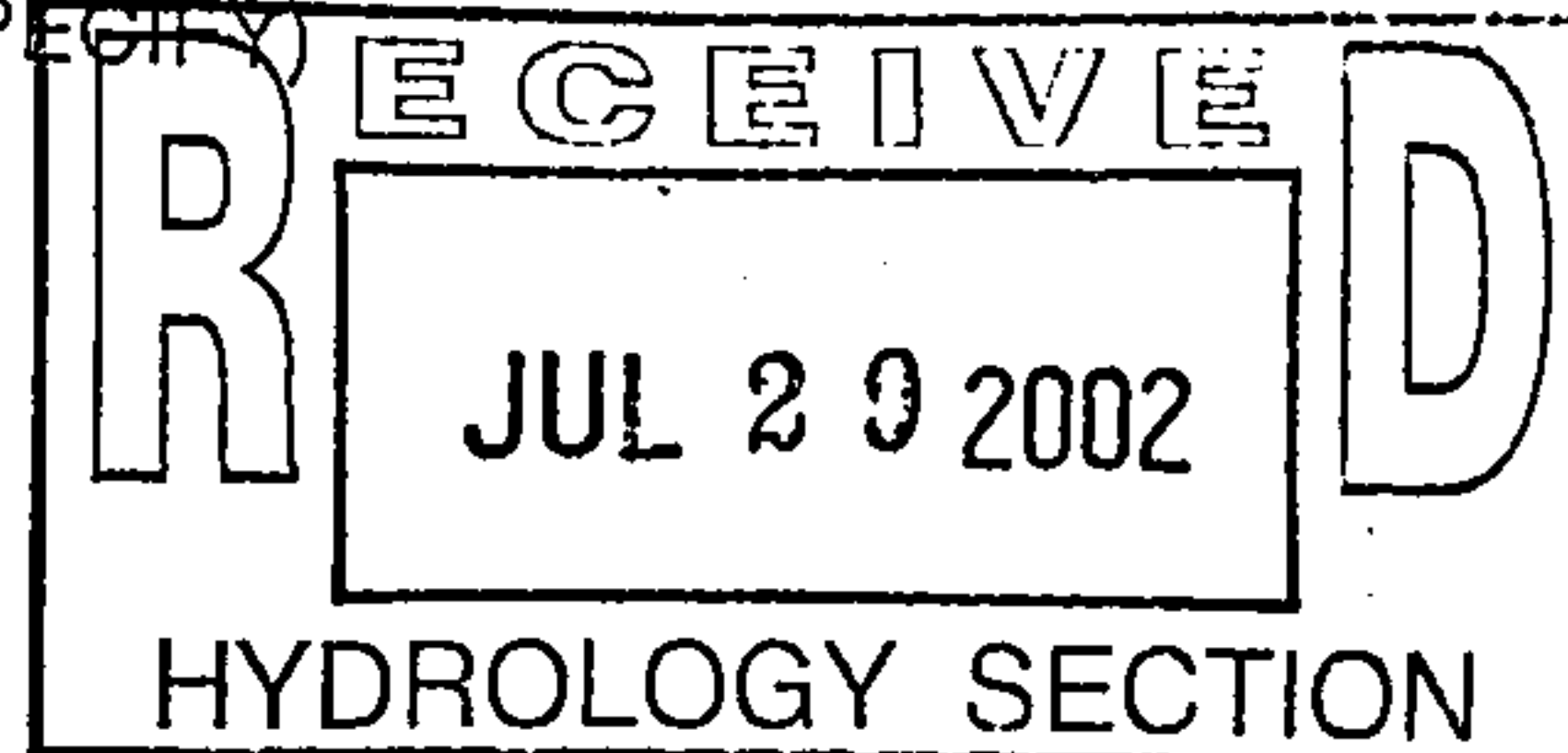
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- ☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 7-26-02

BY: DENNIS LORENZ

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:

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City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 19, 2002

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

Re: New Life Homes Drainage Report
Engineer's Stamp dated 6-1-02 (K10/D41)

Dear Mr. Lorenz,

Based on information provided in your submittal dated 7-11-02, the above referenced report cannot be approved for Building Permit or SO#19 until the following minor comment is addressed.

- The construction of the sidewalk culvert on airport road will require an SO#19 Permit. Please provide the applicable notes and signature block on the grading plan and reference the City Standard Drawing. I will also need an extra copy of the grading plan for the inspector.

Upon resubmittal, I will facilitate my approval in order to keep your project schedule. If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE: NEW LIFE HOMES ZONE MAP/DRG. FILE #: K10-641
 DRB #: 1001626 EPC#: 0112801751 WORK ORDER#: _____
 LEGAL DESCRIPTION: LOT 111A TOWN OF ATRISCO GRANT UNIT 6
 CITY ADDRESS: AIRPORT RD SW
 ENGINEERING FIRM: BRASHER & LORENZ CONTACT: D. LORENZ
 ADDRESS: 2201 SAN PEDRO NE PHONE: 888-6088
 CITY, STATE: ABQ NM ZIP CODE: 87110
 OWNER: NEW LIFE HOMES CONTACT: J. BLOOMFIELD
 ADDRESS: PO BOX 90406 PHONE: 293-7553
 CITY, STATE: ABQ NM ZIP CODE: 87199
 ARCHITECT: GARRETT - SMITH CONTACT: R. JACOB
 ADDRESS: 514 CENTRAL SW PHONE: 766-6968
 CITY, STATE: ABQ NM ZIP CODE: 87102
 SURVEYOR: SURVEYS SW CONTACT: DAN GRANEY
 ADDRESS: 333 LOMAS NW PHONE: 998-0303
 CITY, STATE: ABQ NM ZIP CODE: 87102
 CONTRACTOR: NA CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

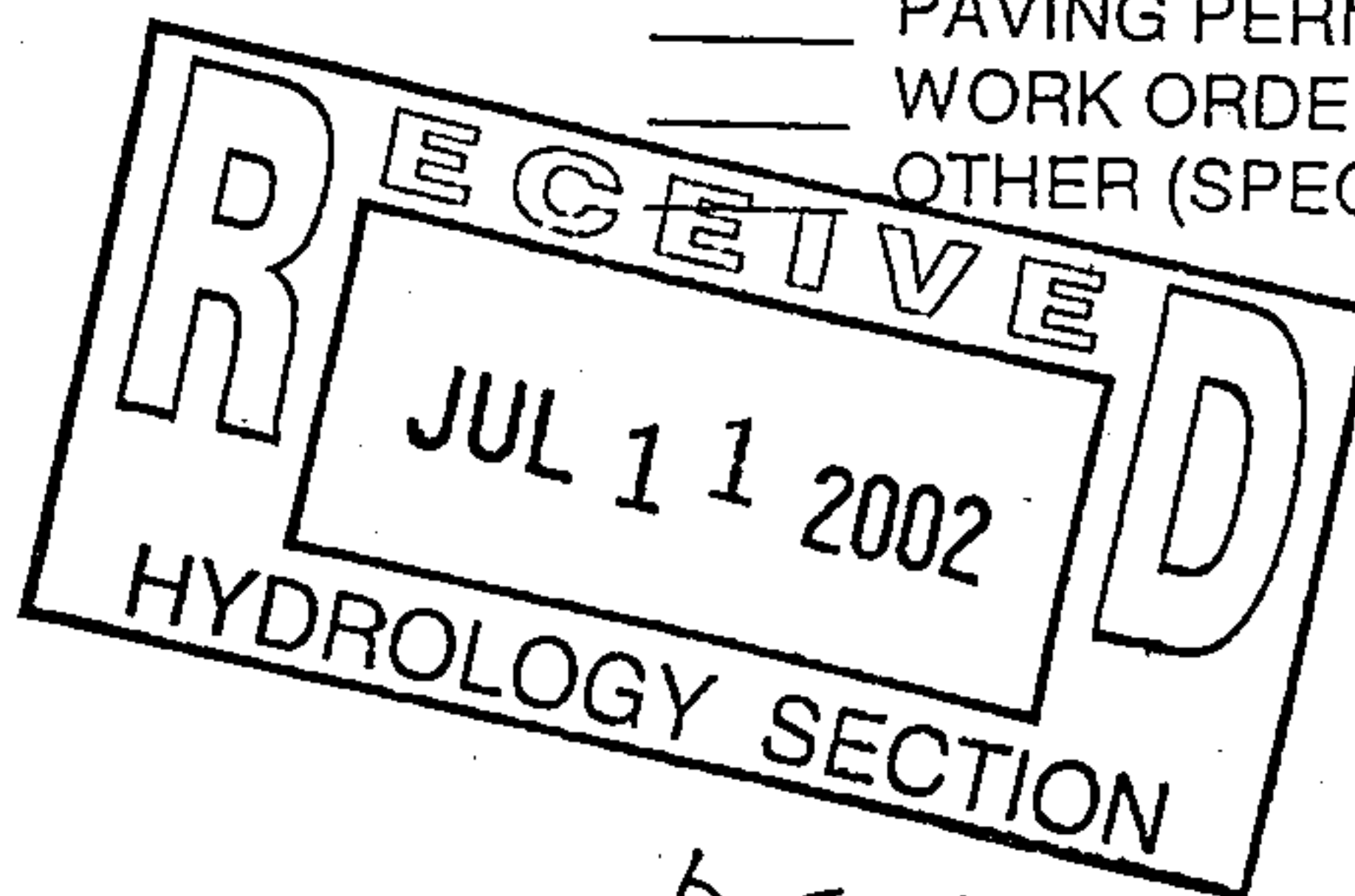
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WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 7-11-02 BY: DENNIS LORENZ

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DRAINAGE REPORT

FOR

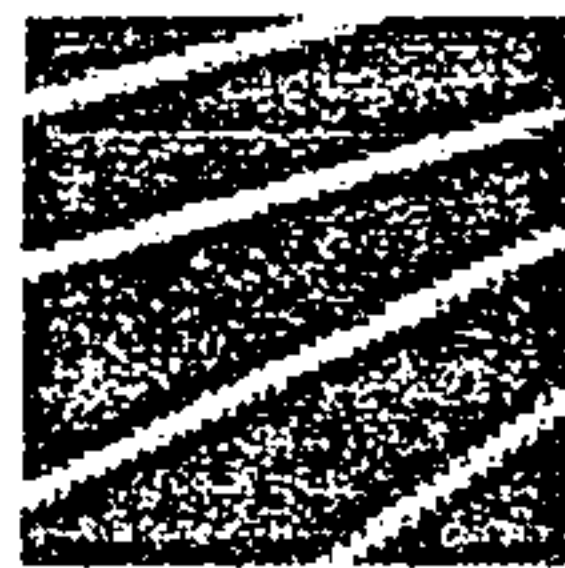
NEW LIFE HOMES

Albuquerque, New Mexico

Prepared For:

NEW LIFE HOMES, INC.
PO Box 90486
Albuquerque, New Mexico 87199

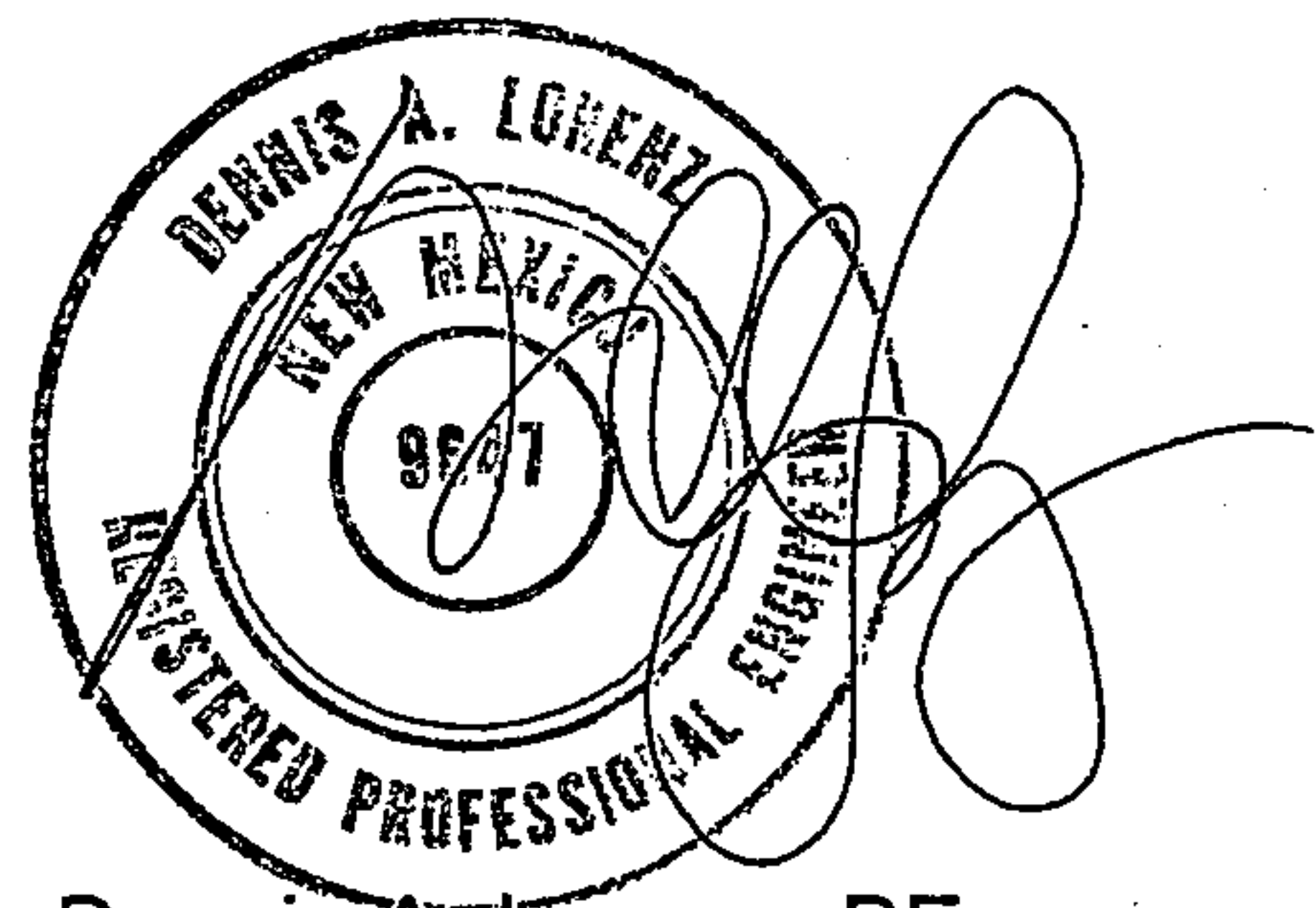
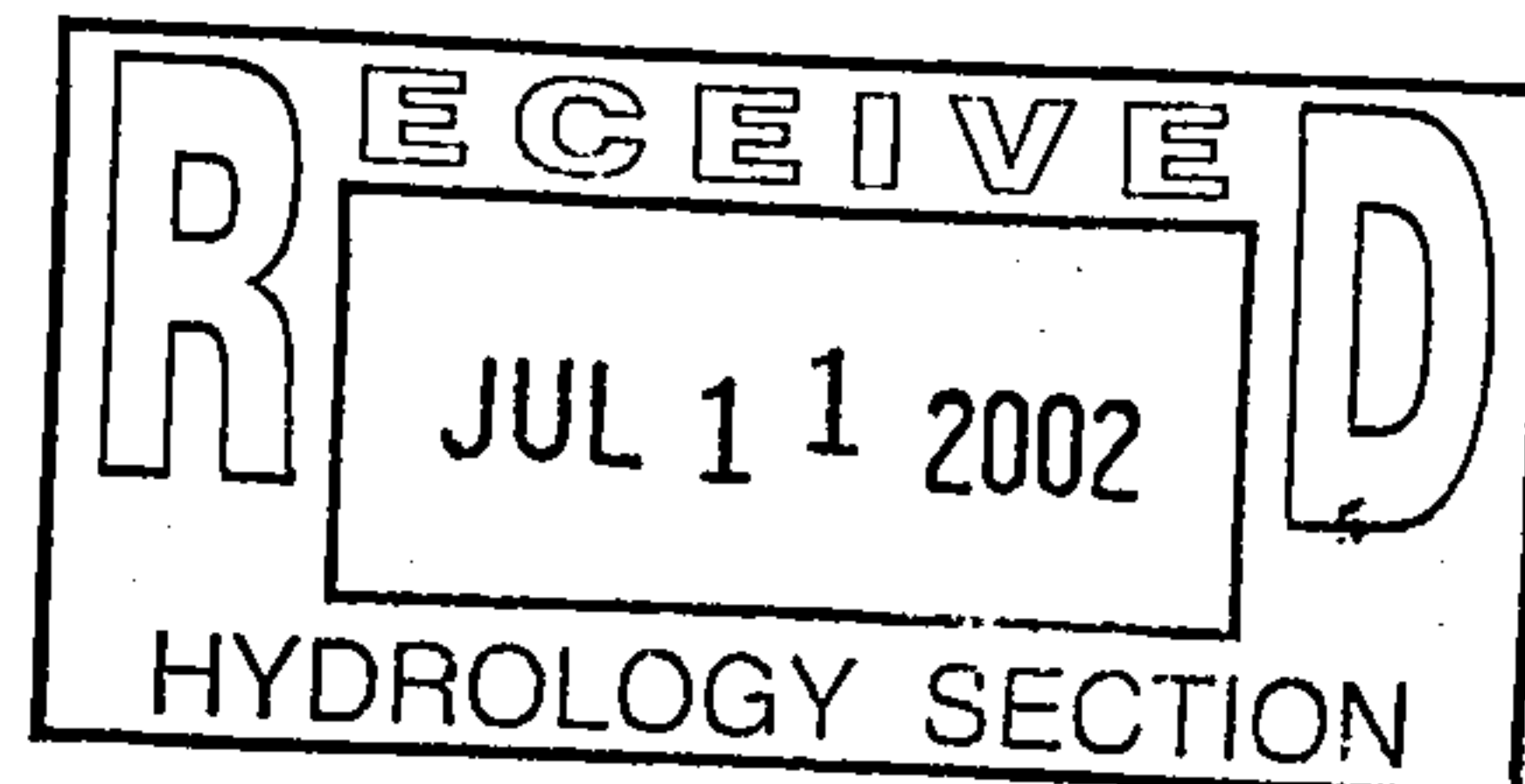
Prepared by:



BRASHER AND LORENZ, INC.

Consulting Engineers

2201 San Pedro NE, Building 1, Suite 1200
Albuquerque, New Mexico 87110



Dennis A. Lorenz, PE
Principal 6-1-02

June 2002

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FLOOD INSURANCE RATE MAP- FIGURE 2	4
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INFRASTRUCTURE CAPACITIES	
DOWNSTREAM CAPACITY	
PROJECT HYDROLOGY	
GRADING AND DRAINAGE PLAN DETAILS	POCKET POCKET

PURPOSE AND SCOPE

In support of the proposed New Life Home development, this Drainage Report outlines the drainage management criteria for controlling developed runoff on and exiting the project site. Construction of an 18-unit multi-family housing development with a community building is proposed with associated access, landscaping, drainage and utility improvements.

EXISTING CONDITIONS

Presently the project site is undeveloped. The site contains approximately 1.1-acres and is located on Airport Drive SW at Delia Road SW. The site is bounded on the east by 69th Street, on the west by Airport Drive, on the north by Delia Road, and south by developed residential property. The site is well vegetated with native grasses. The site topography slopes from north to south at approximately 5 percent. All on-site runoff drains south and west to improvements located at the south end of Airport Drive, where an existing drop inlet conveys flows to the Coors Blvd drainage system.

As shown by the FIRM for this area (see Figure 2), this site is not located within a mapped 100-year floodplain.

PROPOSED CONDITIONS

As shown on the Plan, this development consists of the construction of New Life Homes, an 18-unit multi-family housing project, with associated access, landscaping, drainage and utility improvements. The Plan shows the contours and elevations necessary to properly grade and construct the required paving and drainage improvements.

Drainage flows will be managed on-site by grading and drainage improvements recommended by this plan. All flows will drain around and away from proposed pad sites with slopes not less than 1.0-percent. Care will be taken not to direct concentrated flows at downstream properties.

Drainage from the site will be managed by a landscaped swale located along the south project boundary that will convey all runoff west to Airport Drive. Airport Drive street improvements will convey all runoff south to the end of Airport, which terminates at a cul-de-sac. At the cul-de-sac an existing drop inlet collects the flows, which are then conveyed to the Coors Boulevard storm drainage system.

Downstream capacity has been tested (see calculations) by analysis and found to be acceptable to allow free discharge of stormwater runoff from this site.

CALCULATIONS

The calculations shown hereon define the 100 year 6 hour design storm falling within the

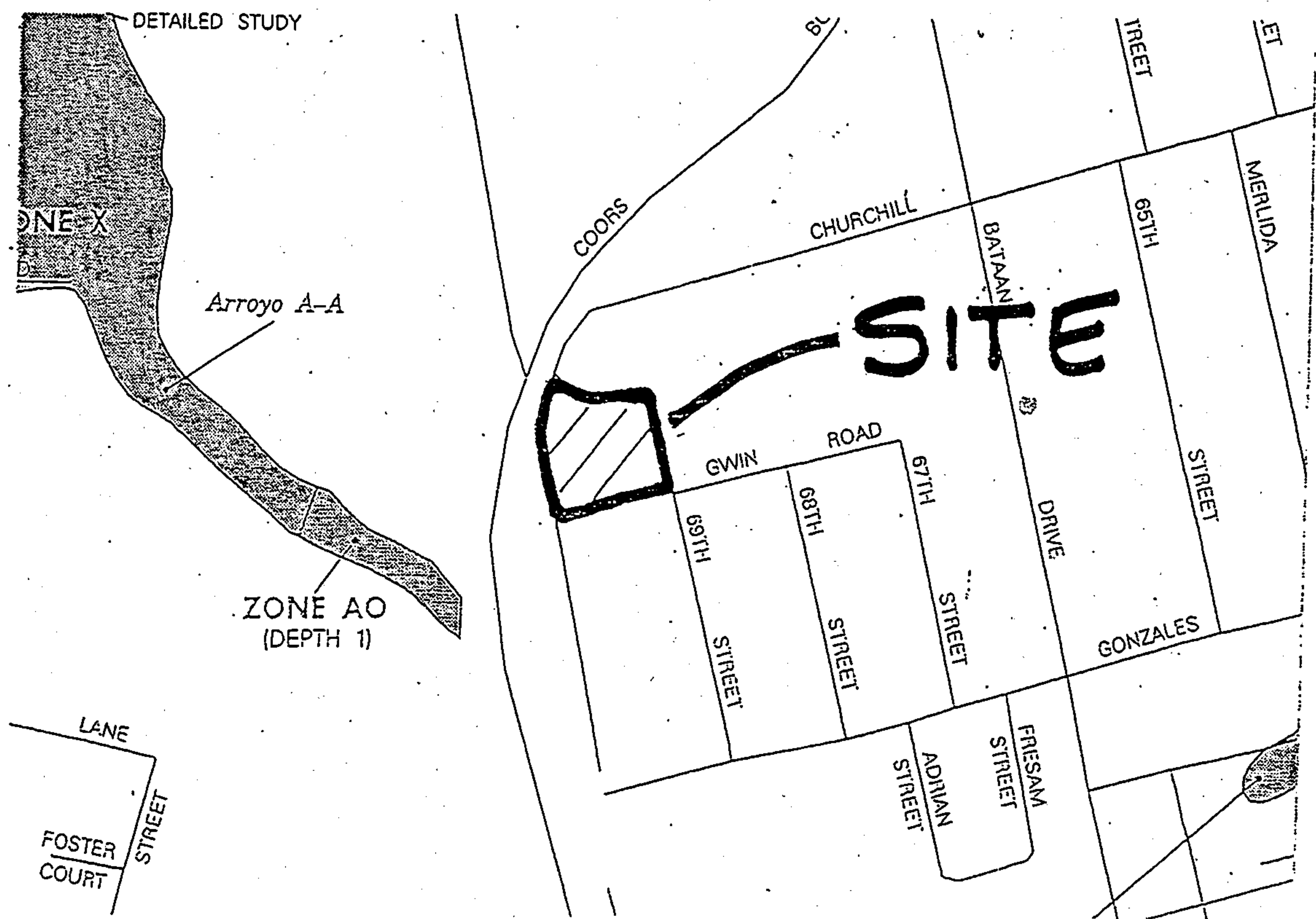
project area under existing and developed conditions. Hydrology is per "Section 22.2, Part A, DPM, Vol 2", dated July 1997. Supplemental calculations are provided as necessary to demonstrate capacity of proposed drainage facilities.

TEMPORARY EROSION CONTROL PLAN

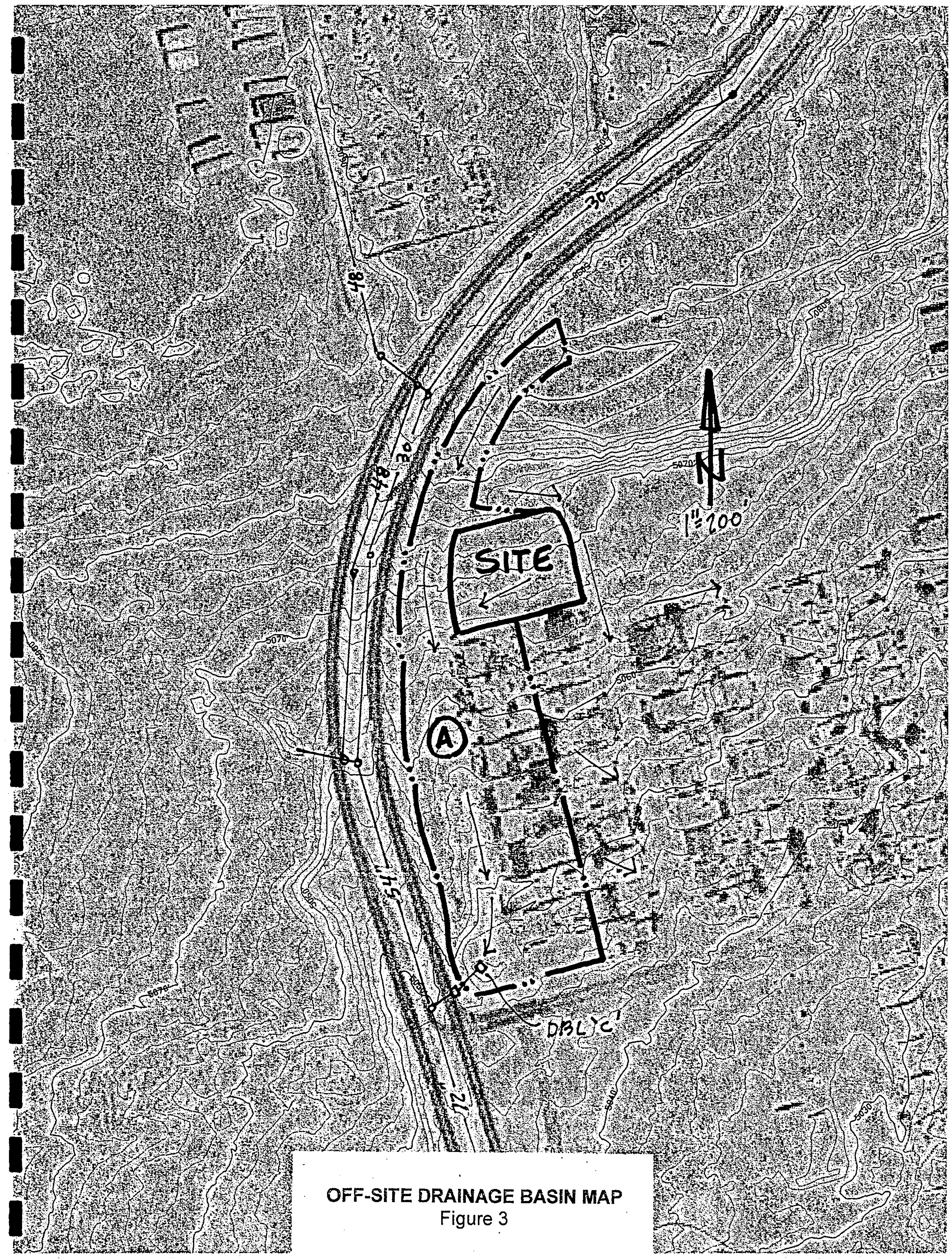
A Temporary Erosion Control Plan shall be implemented during construction to mitigate the potential effects of discharging storm runoff onto downstream properties. As shown by the Temporary Erosion Control Plan (see Sheet C-3) the following measures shall be taken:

1. It is the Contractors responsibility to obtain all required construction permits regarding earthmoving and topsoil disturbance prior to performing any earthwork operations.
2. The Contractor is responsible for installing and maintaining the temporary erosion control measures recommended by this plan until all permanent improvements are complete in place.
3. As shown by the Plan, silt fencing shall be installed at the project boundaries per Detail "J", Sheet C-2 to reduce velocities and limit the discharge of sediment onto downstream properties.
4. An earthen erosion control berm shall be constructed along the south project boundary per Detail "H", Sheet C-2 to direct flows west to Airport Drive. The berm shall remain in place until completion of the landscaped swale per Section "F", Sheet C-2.

MAPS



FLOOD INSURANCE RATE MAP
Figure 2



OFF-SITE DRAINAGE BASIN MAP
Figure 3

CALCULATIONS

INFRASTRUCTURE CAPACITIES

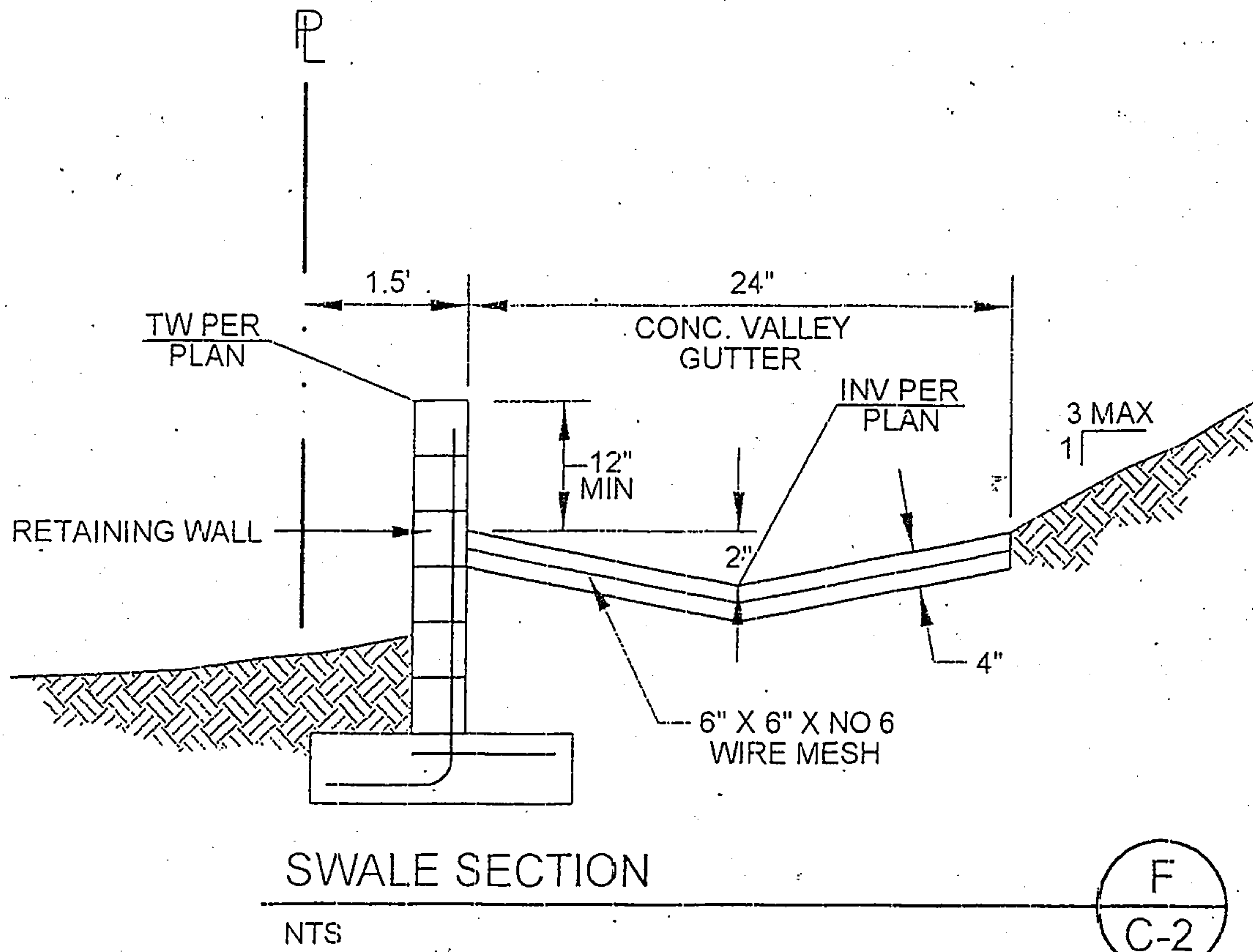


BRASHER & LORENZ, INC.

CONSULTING ENGINEERS

PROJECT NEW LIFE
DATE 6-1-02 PAGE 1

① CHECK SWALE @ SOUTH PL:



VARIABLES LIST:

Y - FLOW ELEVATION

Q - FLOWRATE

S - CHANNEL SLOPE

VARIABLE TO BE SOLVED (Y, Q OR S) ? Y

Enter up to 20 cross-section points.
Enter <Return> only for distance to end.

Q (CFS) ? 3.44

S (FT/FT) ? .005

CROSS-SECTION POINTS

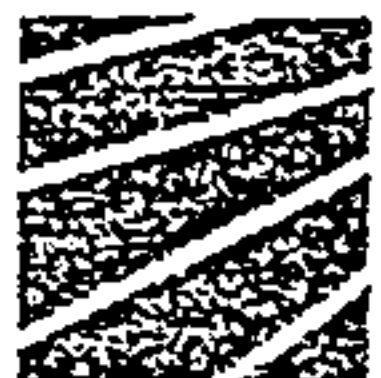
DIST ELEV COEFF DIST ELEV COEFF

0	101.16	.013			
0	100.16	.013			
1	100.00	.013			
2	100.16	.013			
5	101.16	.013			

RESULTS

=====

Y= 100.46 FT
A= 0.89 SF
P= 3.26 FT
V= 3.88 FPS
F= 1.24 SUPER-CRITICAL FLOW



BRASHER & LORENZ, INC.
CONSULTING ENGINEERS

PROJECT NEW LIFE
DATE 5.29.02 PAGE 2

② SIZE SW CULVERT

Q = 3.44 CFS

FOR A SINGLE 12" SW CULVERT @ S = 2% :

VARIABLES LIST:

Y - FLOW ELEVATION Q - FLOWRATE S - CHANNEL SLOPE

VARIABLE TO BE SOLVED (Y, Q OR S) ? Q

Enter up to 20 cross-section points.
Enter <Return> only for distance to end.

Y (FT) ? 100.67
S (FT/FT) ? .02

CROSS-SECTION POINTS

DIST	ELEV	COEFF	DIST	ELEV	COEFF
0	100.67	.013			
0	100	.013			
1	100	.013			
1	100.67	.013			

RESULTS

=====

Q=	8.29	CFS
A=	0.67	SF
P=	2.34	FT
V=	12.38	FPS
F=	2.66	SUPER-CRITICAL FLOW

DOWNSTREAM CAPACITY



① DOWNSTREAM CAPACITY

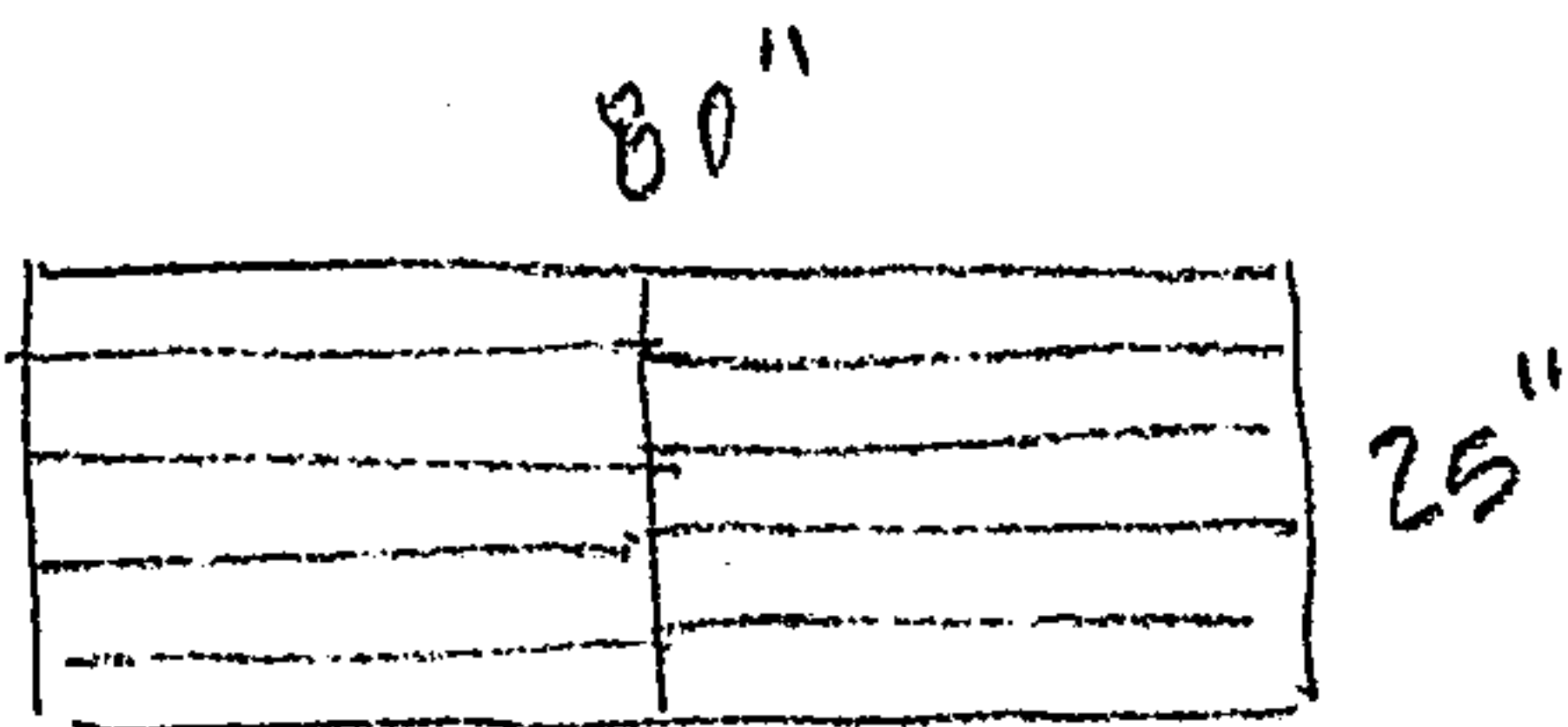
SITE DRAINS TO AIRPORT DR DBL 'C' INLET @ CUL-DE-SAC.

CHECK INLET CAPACITY.

$$Q_{\text{INLET}} (\text{EXIST}) = \text{EX SITE } (1.33 \text{ CFS}) + \text{EX OFF-SITE } (16.00 \text{ CFS}) \\ = 17.33 \text{ CFS}$$

$$Q_{\text{INLET}} (\text{DEV}) = \text{DEV SITE } (3.44 \text{ CFS}) + \text{EX OFF-SITE } (16.00 \text{ CFS}) \\ = 19.44 \text{ CFS} \quad (\text{DEV ADDS } 2.11 \text{ CFS})$$

DBL 'C' LOCATED IN SUMP W/ 18" LATERAL @ S = 2%



$$P = \left[80 + 2(25) \right] / 12 = 10.83'$$

$$\text{OPEN } A = 4.31 \text{ SF}(2) = 8.62 \text{ SF}$$

(A) CHECK CURB OPENING USING FIG 309.4E:

$$\text{TYP OPENING FOR DBL 'C' } = 6'-6" \times 6.25"$$

$$\text{AT } \text{HW/D} = 1.0 \quad q = 1.2 \text{ CFS/LF}$$

$$\Rightarrow Q_{\text{OPENING}} = 1.2(6.5) = 7.8 \text{ CFS}$$

(B) CHECK GRATING BY FIG 309.4F

$$\text{AT } d = 0.67' \quad q = 2.0 \text{ CFS/SF}$$

$$Q_{\text{GRATE}} = 2.0(8.62) = 17.2 \text{ CFS}$$



(B) CONT.

CHECK GRATING BY ORIFICE:

$$Q = CA\sqrt{2gh}$$

$$C = 0.6$$

$$A = 8.62 \text{ SF}$$

$$h = 0.67'$$

$$Q_{\text{GRATE}} = 34.0 \text{ CFS}$$

USE WORST CASE: $Q_{\text{INLET}} = 7.8 + 17.2 = 25.0 \text{ CFS}$

PER RPM FOR FULLY DEV CONDITIONS, REDUCE
Q BY 15% FOR CLOGGING:

$$Q_{\text{INLET}} = 0.85(25.0) = \underline{\underline{21.3 \text{ CFS}}}$$

(C) CHECK LATERAL

$$\text{LATERAL} = 18" \text{ RCP @ } S = 2\%$$

• CHECK FOR INLET CONTROL USING ORIFICE:

$$Q = CA\sqrt{2gh}$$

$$C = 0.6$$

$$A = 1.77 \text{ SF}$$

$$Q = 19.44 \text{ CFS}$$

$$\therefore Q_{\text{MAX}} = \underline{\underline{18.1 \text{ CFS}}} \text{ CLOSE}$$

$$h_{\text{MAX}} = 4.5 \text{ PER A/B}$$

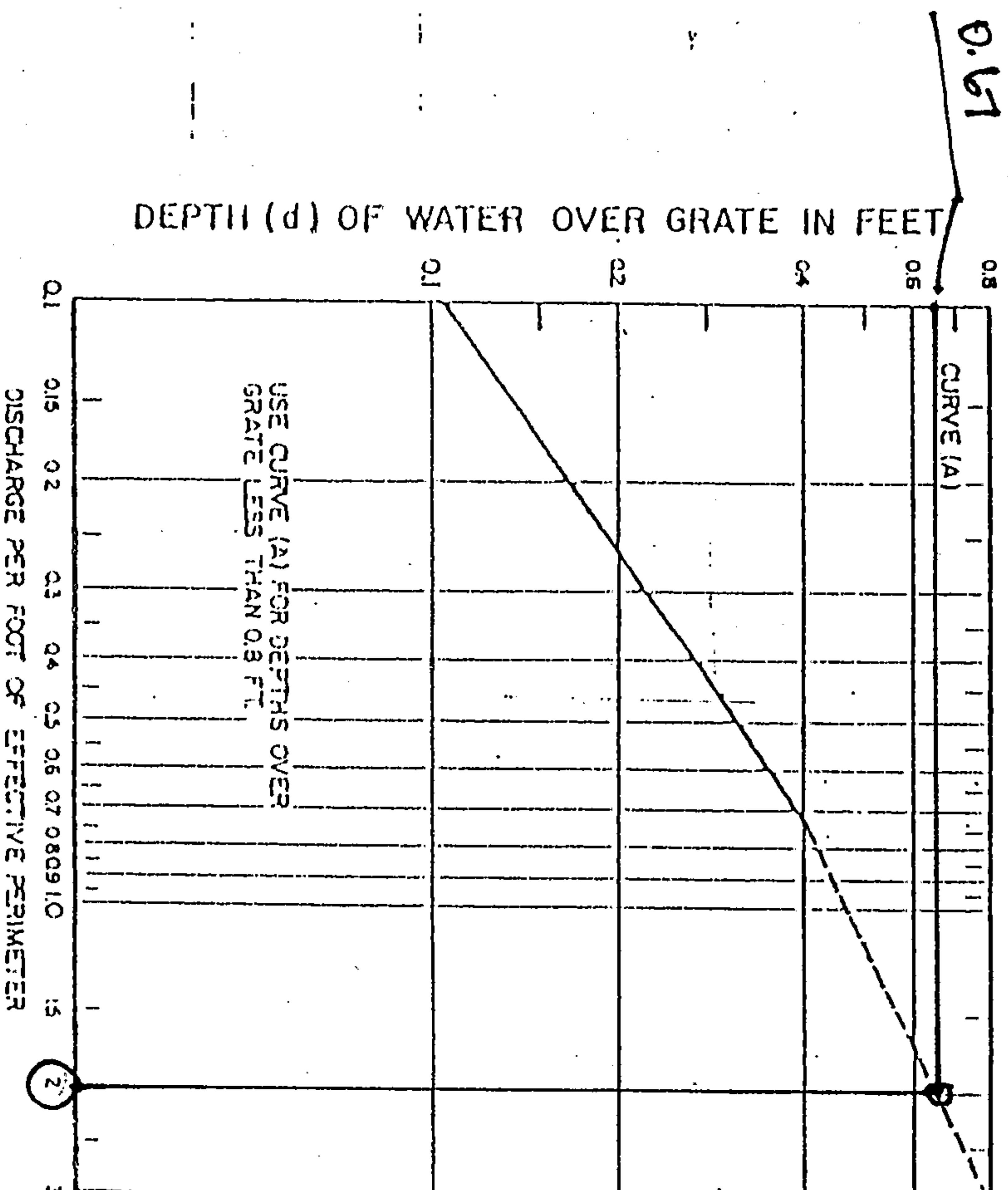
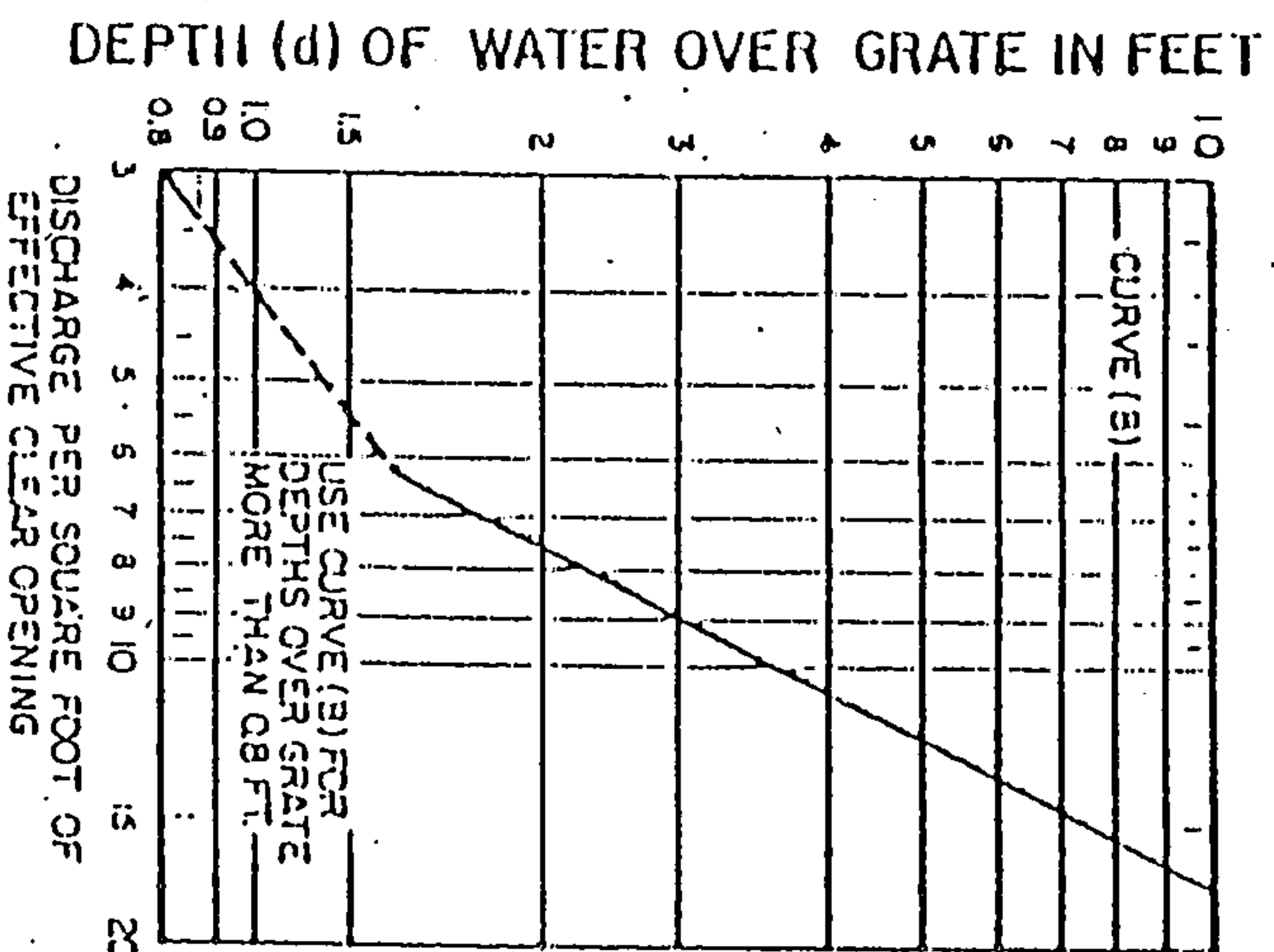
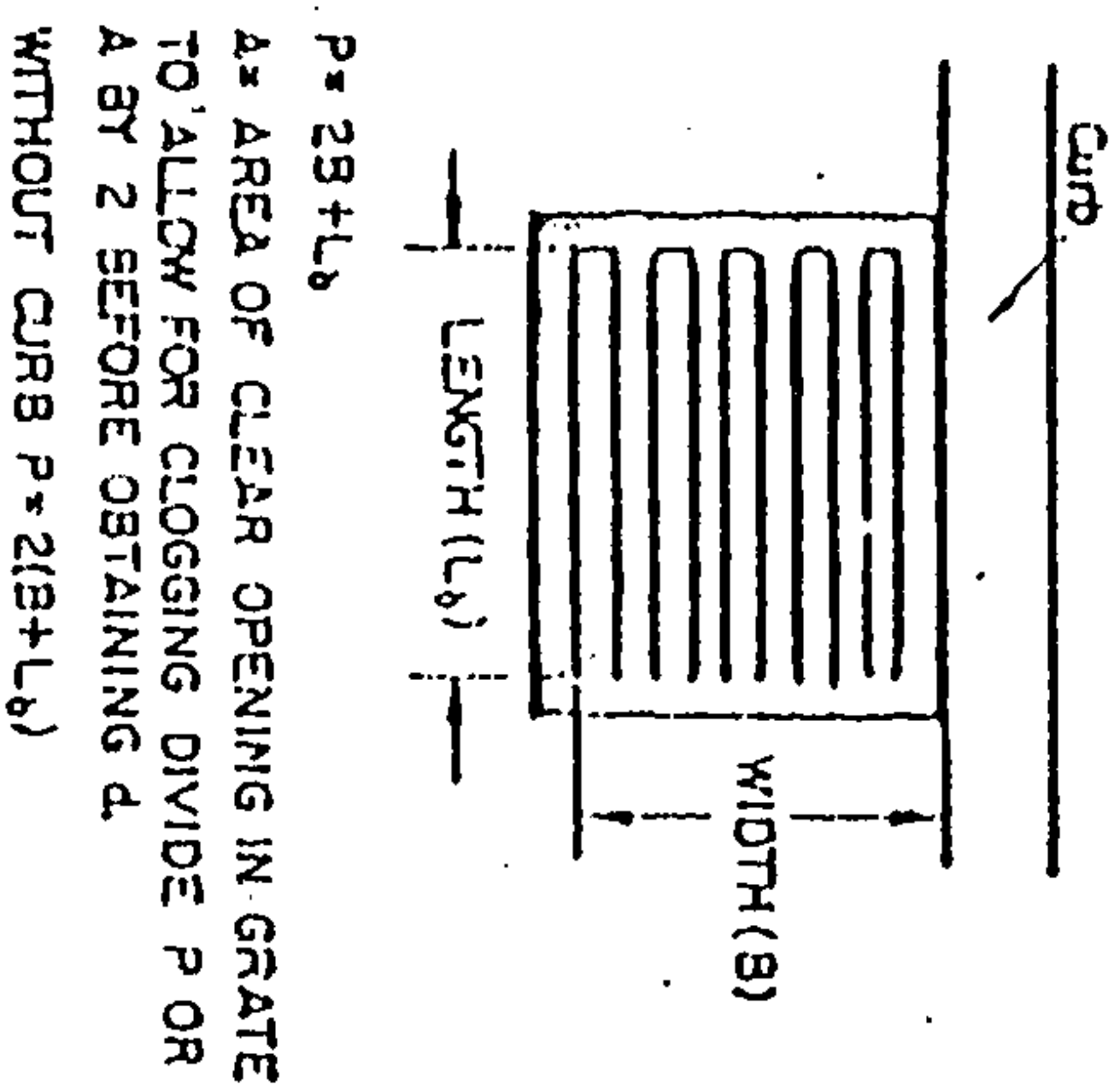
• CHECK FOR GRAVITY FLOW

Enter up to 10 pipes.

Enter <Return> only for flowrate and diameter to end.

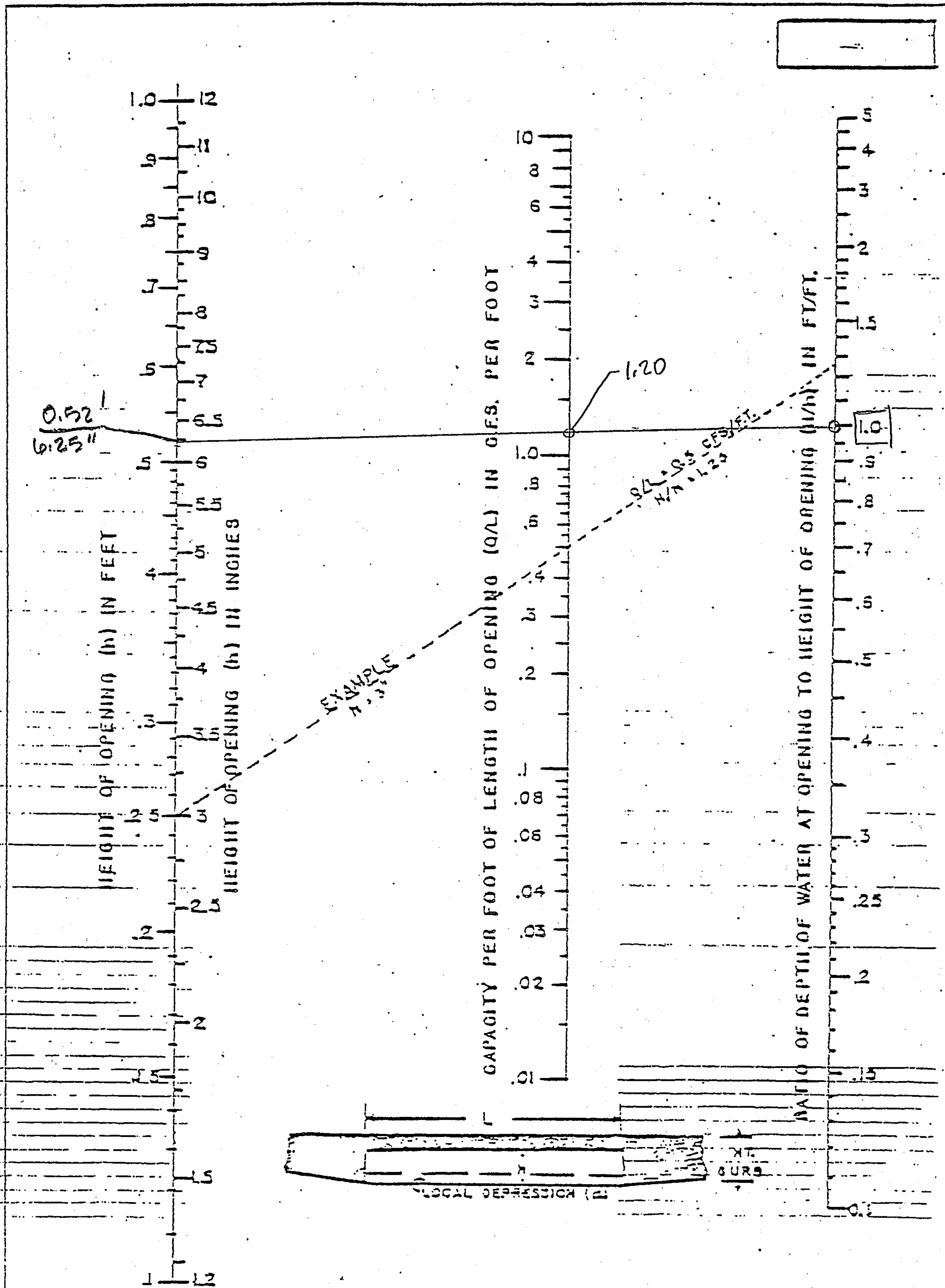
FLOWRATE (CFS)	DIAMETER (IN)	FRICTION ($\text{FT}^{1/6}$)	SLOPE (%)	VELOCITY (FPS)
16.09	18.00	0.0120	2.00	9.11

↳ SD WITH FLOW UNDER PRESSURE



BUREAU OF PUBLIC ROADS HYDRAULIC CAPACITY OF GRATE
REV. AUG. 1968 INLET IN SUMP

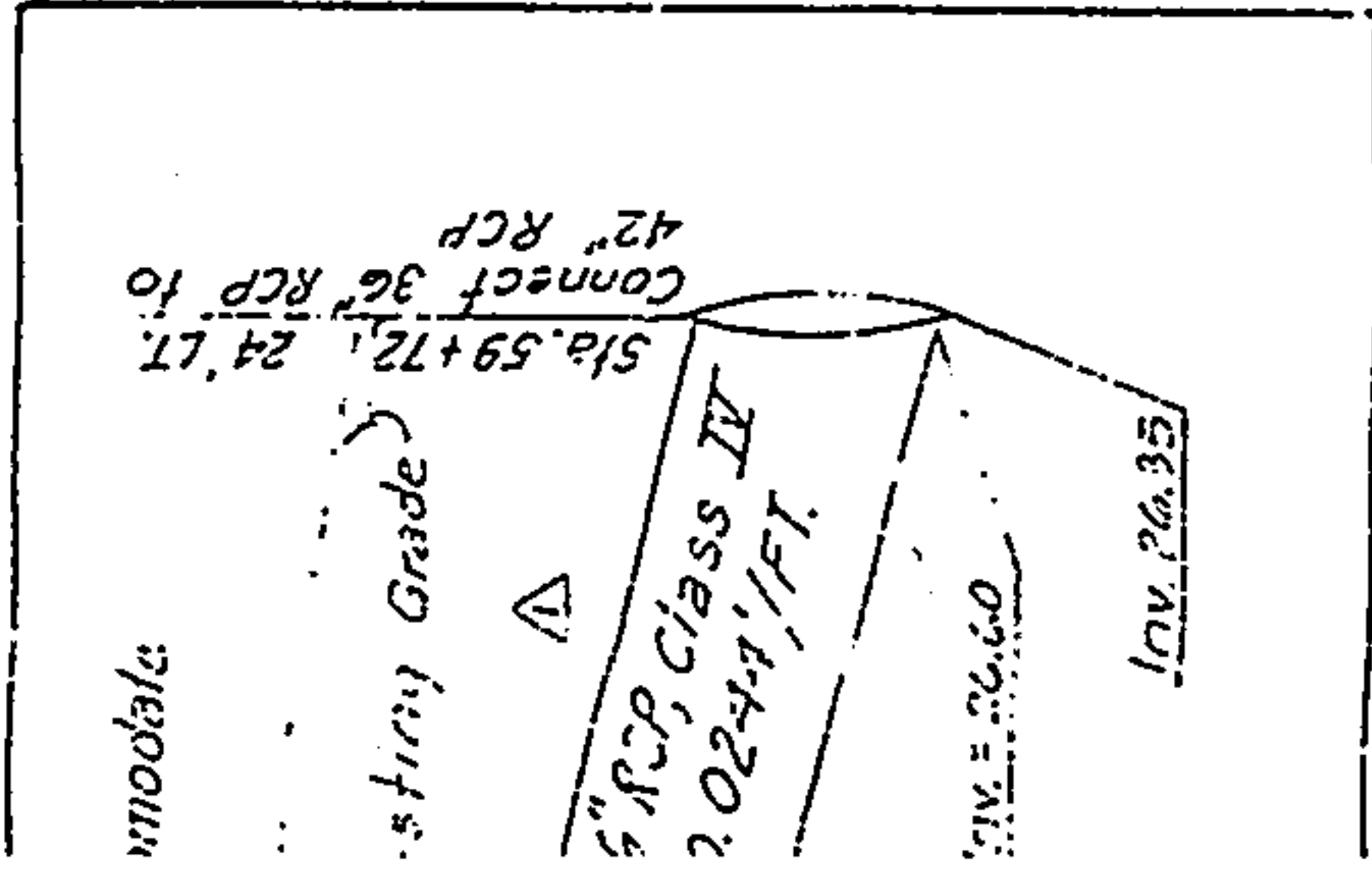
FIGURE 309.4E



NOMOGRAPH FOR CAPACITY OF CURE
OPENING IN PITS AT LOW POINTS

COORS BOULEVARD S.W.

5040.22



Sta. 59+72.24 LT
Connect 36" RCP to
42" RCP

5" RCP, Class IV
2.0249'/FT.

Inv. 20.35

Inv. 20.35

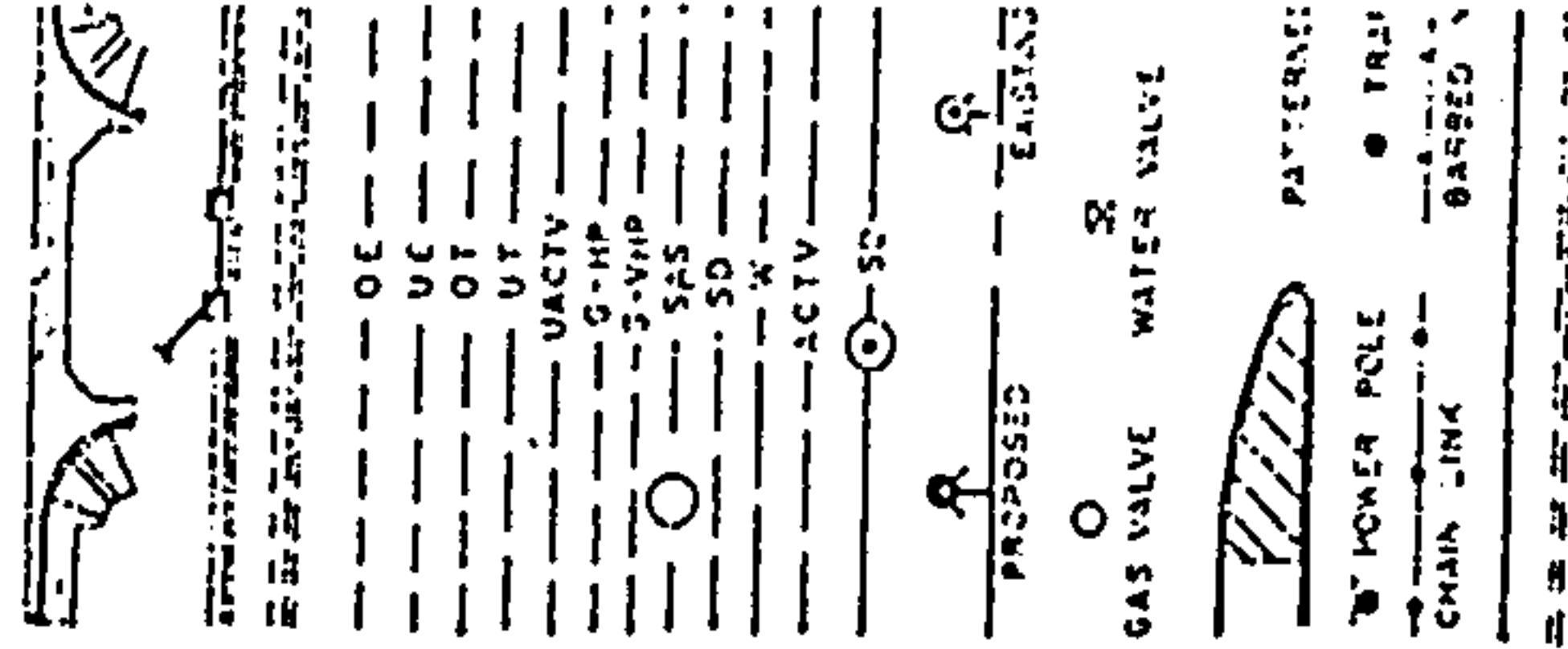
See Sheet 4-7 for Intersection
Detail

EXIST. SIDEWALK TO
REMAIN

L = 41.06'
T = 21.10'
D = 79°34'39"

(3) $\Delta = 90°56'54"$
 $R = 300.00'$
 $T = 52.03'$
 $T = 26.08'$
 $C = 90°05'55"$

LEGEND



1051'1FT.

Sta. 61+50 to STA. 72+00
N. Inv. = 29.0 (IN)
S. Inv. = 28.90 (OUT)
Rim = 40.10

Sta. 66+79.60
VPC 68+00
5040.75

200' VC
MO = +0.40
VPI 69+00
(5041.27)
5041.67

VPT 70+00
5043.42

Sta. 71+29.60
Rim = 45.58
S. Inv. = 33.5 (OUT)
N. Inv. = 33.6 (IN)
N.E. Inv. = 33.6 (IN)

450 LF 54" RCP
Class IV
S = +0.0207'/FT.

Sta. 72+85 ±
12" dia. 12" Dia. Casing
S = +0.0215'/FT.

450 LF 72" RCP Class IV
S = +0.0100'/FT.

STA. 61+50 to STA. 72+00
Typical Section A See Sheet 2-1

66

67

68

69

70+00

71

72

26 18932489

6-12-89

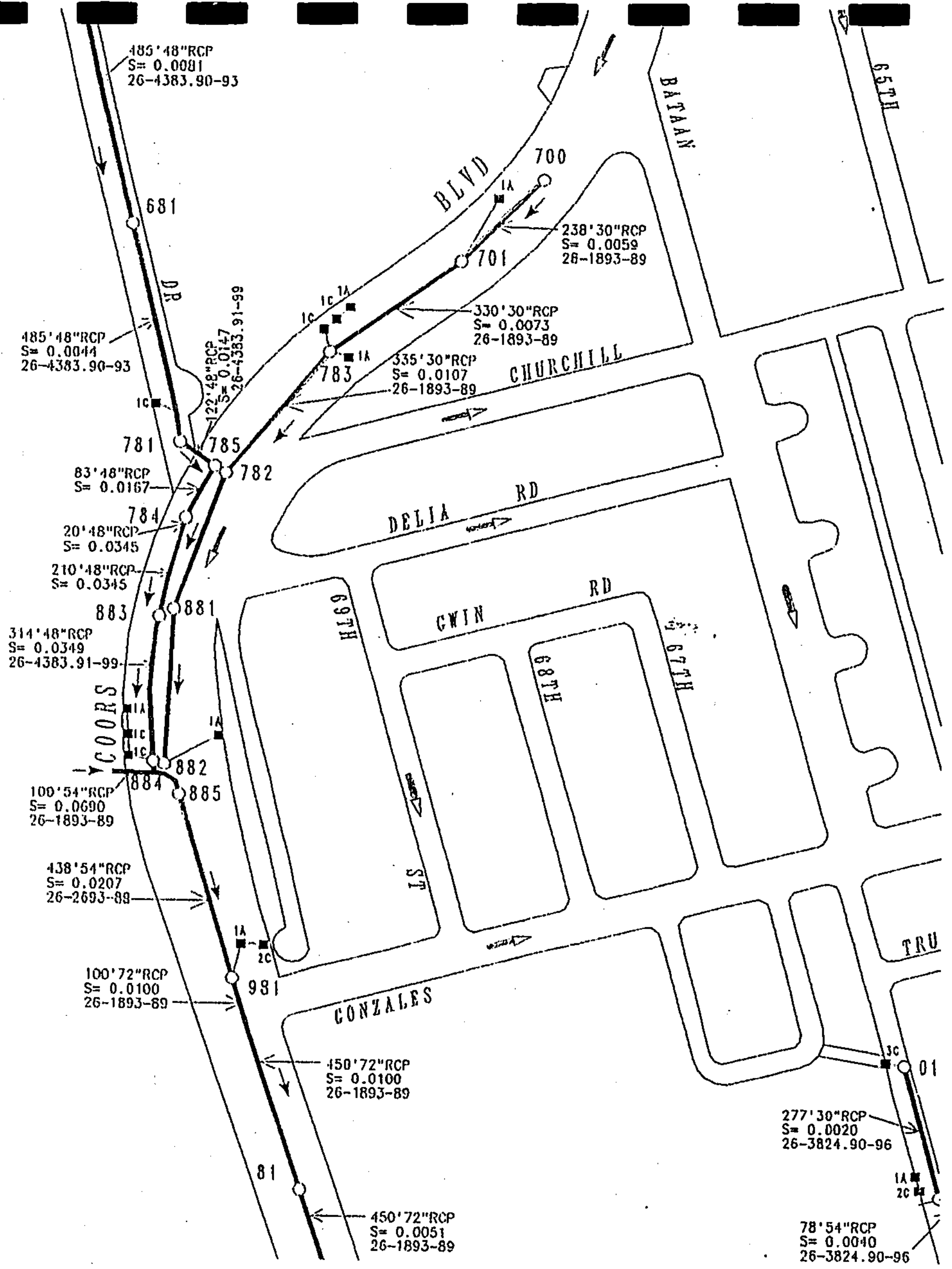
TITLE NORTH/SC
ROA

MUNICI

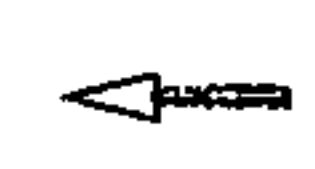
See Sheet 3-20.3
See Sheet 3-20.3
See Sheet 3-20.3

APPROVED
City Engineer
A. E. Design
A. C. E. Hydrology
County Rd. Dept.

DRAWING
NO 1893



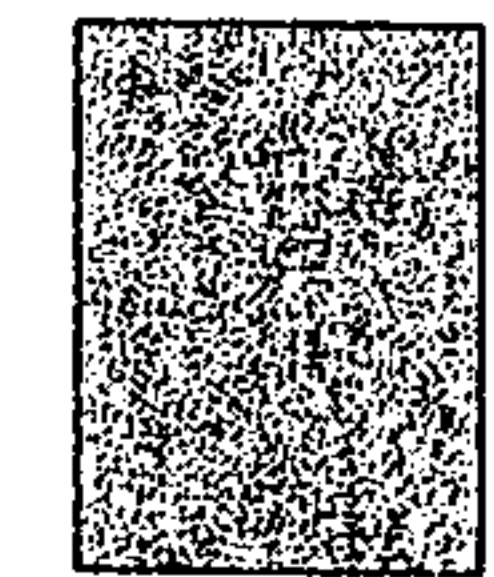
NEXT ST



Surface Flow



Pipe Flow



Water Course
Holding Ponds
Dams



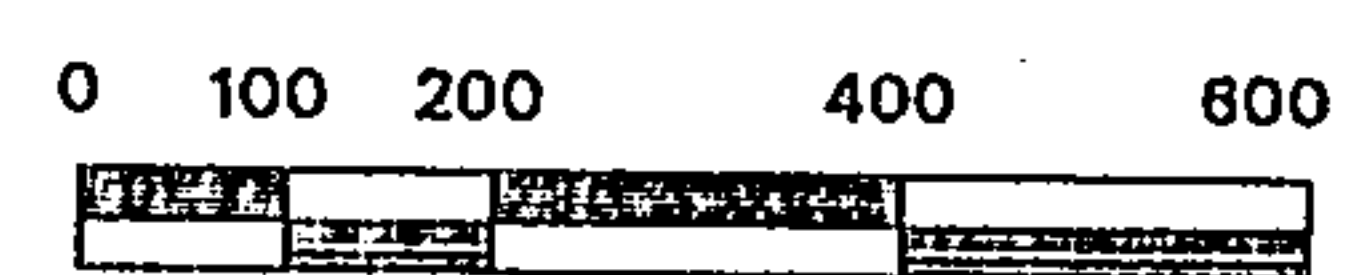
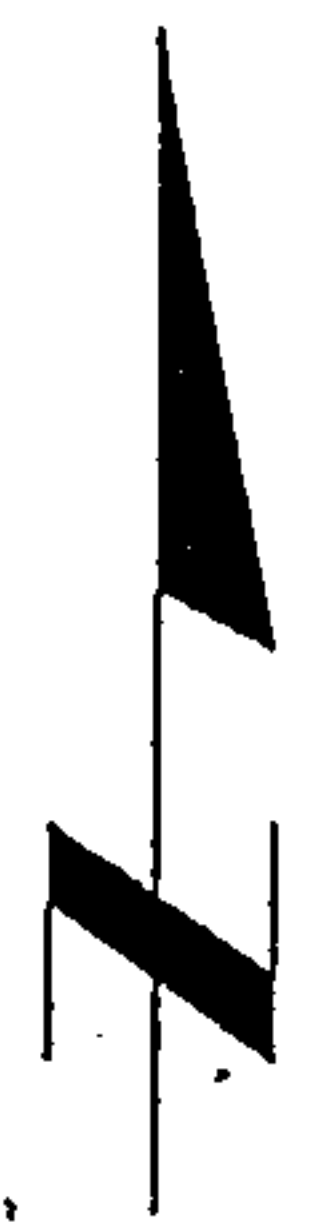
Well



Reservoir



Pump Station



SCALE

Compiled: September 17, 1999

Notes:

1. Map is for information only and is subject to corrections. (Corrections call 768-3608.)
2. Manholes identification requires Map Grid & manhole number.

MAP GRID

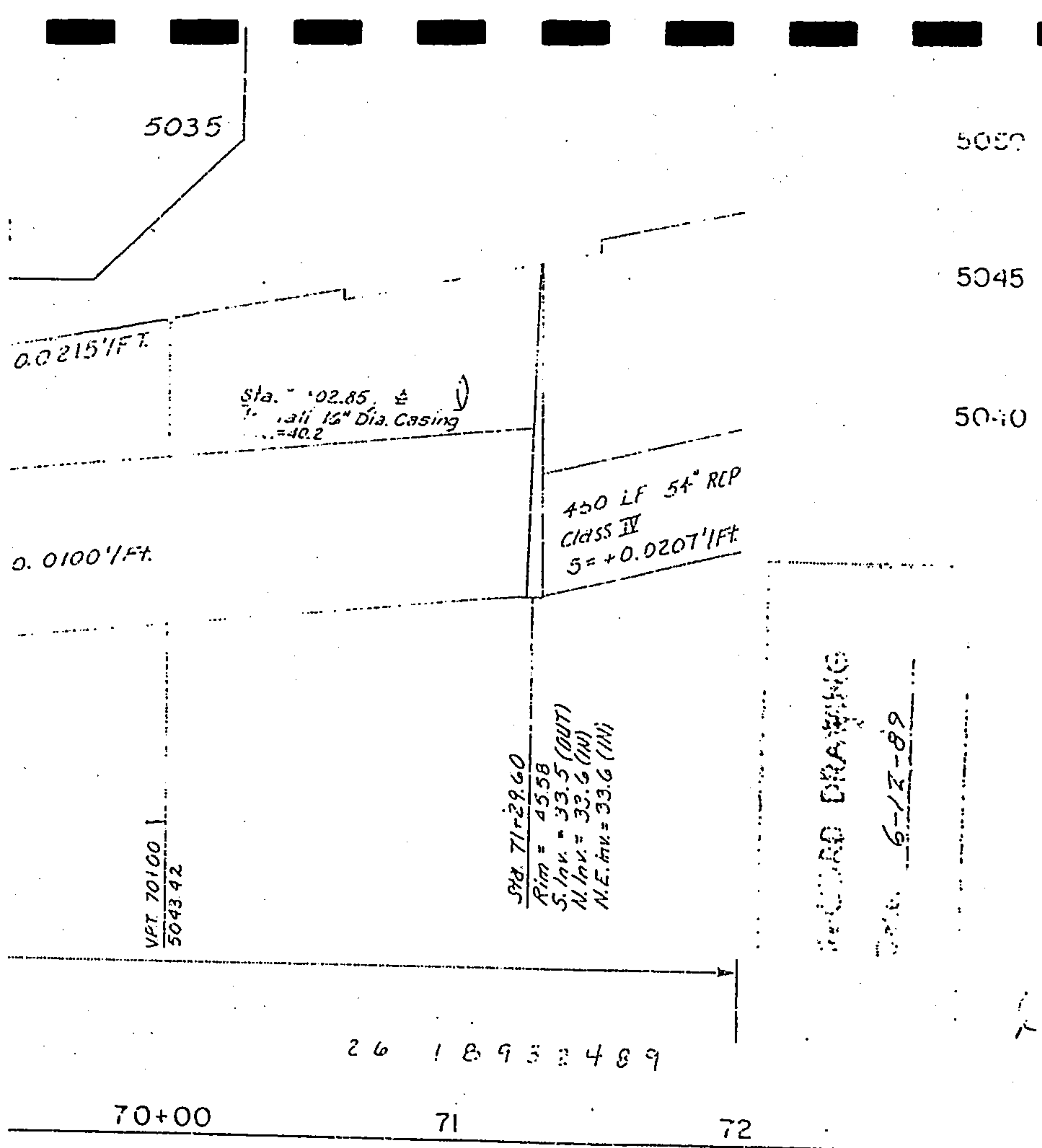
K-10

CITY OF ALBUQUERQUE
MAPS & RECORDS

X8

X9

X10



RECORD DRAWING
DATE 6-12-89

		REMARKS NO. DATE REVISIONS DESIGN G.W.T. L.S. T.J.M. J.A.J.
See Sheet 3-20, 3-21, 3-32 & 3-33 For Stationing		
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION		
TITLE: NORTH/SOUTH COORS CONNECTION E.A.U.P. M 4001 (2) ROADWAY PLAN & PROFILE		
APPROVAL City Engineer A.E. Design ACE-Hydrology County Rd. Dept.	APPROVAL Liquid Waste Treated Water	ENGINEER DATE 9/1/86 9/1/86
DRAWING NO 1893	MAP NO. L-10	SHEET OF 3-6 162

DTM. OF N.W. 27.41
 REVISOR TCR'S/CMES Δ Revised 9/86
 ADDED 3/12/87
 Δ Revised 11/86

CITY OF ALBUQUERQUE C

PROJECT HYDROLOGY

AHYMO FILES



LAND TREATMENTS

① ON-SITE

$$A = 1.00 \text{ AC}$$

$$\text{LANDSCAPED } A = 21,090 \text{ SF} = 0.48 \text{ AC}$$

$$\text{USE } 25\% \text{ C } (0.12 \text{ AC})$$

$$75\% \text{ B } (0.36 \text{ AC})$$

$$\text{IMPERVIOUS} = 1.0 - 0.48 = 0.52 \text{ AC } D$$

$$\Rightarrow A_a = 0$$

$$A_b = 0.12$$

$$A_c = 0.36$$

$$A_d = 0.52$$

$$\hline 1.00 \text{ AC}$$

② OFF-SITE

$$A = 4.5 \text{ AC}$$

③ RESIDENTIAL = 2.0 AC

$$50\% \text{ D} = 1.0 \text{ AC}$$

$$25\% \text{ B} = 0.5 \text{ AC}$$

$$25\% \text{ C} = 0.5 \text{ AC}$$

$$\hline 2.0 \text{ AC}$$

④ ROADS = 2.5 AC

$$\text{PAVT} = 1250 \times (40 + 8) = 1.38 \text{ AC} = D$$

$$\text{DIRT} = 1.12 \text{ AC} = C$$

$$\hline 2.5 \text{ AC}$$

$$\Rightarrow A_a = 0$$

$$A_b = 0.5$$

$$A_c = 1.62$$

$$A_d = 2.38$$

$$\hline 4.5 \text{ AC}$$

```

*****
*                               NEW LIFE HOMES
*                               PROJECT HYDROLOGY
*****
START                           TIME=0.0  PUNCH CODE=0
RAINFALL                        TYPE=1  RAIN QUARTER=0.0  RAIN ONE=1.87
                                RAIN SIX=2.20  RAIN DAY=2.66  DT=0.03333 HRS
* UNDEVELOPED SITE - 1.00 ACRES
COMPUTE NM HYD                  ID=1  HYD NO=EX.SITE  DA=0.00160 SQ MI
                                PER A=100  PER B=0  PER C=0  PER D=0
                                TP=0.1333 HR  MASS RAIN=-1
PRINT HYD                       ID=1  CODE=20
* DEVELOPED SITE - 1.00 ACRES
COMPUTE NM HYD                  ID=2  HYD NO=DEV.SITE  DA=0.00160 SQ MI
                                PER A=0  PER B=36  PER C=12  PER D=52
                                TP=0.1333 HR  MASS RAIN=-1
PRINT HYD                       ID=2  CODE=20
* EXISTING FULLY DEVELOPED OFF-SITE BASIN A - 4.50 ACRES
COMPUTE NM HYD                  ID=3  HYD NO=EX.OFFSITE.A  DA=0.0070 SQ MI
                                PER A=0  PER B=11  PER C=36  PER D=53
                                TP=0.1333 HR  MASS RAIN=-1
PRINT HYD                       ID=3  CODE=20
* COMPUTE TOTAL FLOW AT AIRPORT DOUBLE "C" INLET
ADD HYD                         ID=4  HYD NO=Q.INLET  IDI=2  IDII=3
PRINT HYD                       ID=4  CODE=20
FINISH

```

RUN DATE (MON/DAY/YR) =05/29/2002
USER NO.= AHYMO-I-9702c01000T35-AH

COMMAND		HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1	NOTATION
START											TIME=	.00
RAINFALL TYPE= 1											RAIN6=	2.200
COMPUTE NM HYD	EX.SITE	-	1	.00160	1.33	.037	.43925	1.533	1.303	PER IMP=	.00	
COMPUTE NM HYD	DEV.SITE	-	2	.00160	3.44	.117	1.37637	1.500	3.355	PER IMP=	52.00	
COMPUTE NM HYD	EX.OFFSITE.A	-	3	.00700	16.00	.548	1.46743	1.500	3.571	PER IMP=	53.00	
ADD HYD	Q.INLET	2& 3	4	.00860	19.43	.665	1.45042	1.500	3.531			
FINISH												

AHYMO PROGRAM (AHYMO_97) -

- Version: 1997.02d

RUN DATE (MON/DAY/YR) = 05/29/2002

START TIME (HR:MIN:SEC) = 10:12:33

USER NO.= AHYMO-I-9702c01000T35-AH

INPUT FILE = C:\AHYMO\01527.DAT

*

NEW LIFE HOMES

*

PROJECT HYDROLOGY

START

TIME=0.0 PUNCH CODE=0

RAINFALL

TYPE=1 RAIN QUARTER=0.0 RAIN ONE=1.87

RAIN SIX=2.20 RAIN DAY=2.66 DT=0.03333 HRS

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT = .033330 HOURS END TIME = 5.999400 HOURS

.0000	.0016	.0033	.0050	.0067	.0085	.0103
.0122	.0141	.0160	.0180	.0201	.0222	.0243
.0266	.0289	.0312	.0337	.0362	.0388	.0415
.0443	.0472	.0502	.0534	.0567	.0601	.0637
.0675	.0715	.0758	.0809	.0865	.0924	.1050
.1334	.1771	.2398	.3254	.4379	.5814	.7600
.9780	1.1804	1.2649	1.3363	1.3997	1.4575	1.5106
1.5600	1.6061	1.6493	1.6900	1.7284	1.7646	1.7989
1.8314	1.8623	1.8915	1.9193	1.9456	1.9518	1.9576
1.9630	1.9682	1.9732	1.9780	1.9825	1.9869	1.9912
1.9953	1.9993	2.0031	2.0068	2.0104	2.0140	2.0174
2.0207	2.0240	2.0272	2.0303	2.0333	2.0363	2.0392
2.0420	2.0448	2.0475	2.0502	2.0528	2.0554	2.0580
2.0605	2.0629	2.0653	2.0677	2.0700	2.0723	2.0746
2.0768	2.0790	2.0812	2.0833	2.0855	2.0875	2.0896
2.0916	2.0936	2.0956	2.0976	2.0995	2.1014	2.1033
2.1051	2.1070	2.1088	2.1106	2.1124	2.1141	2.1159
2.1176	2.1193	2.1210	2.1227	2.1244	2.1260	2.1276
2.1292	2.1308	2.1324	2.1340	2.1355	2.1371	2.1386
2.1401	2.1416	2.1431	2.1446	2.1460	2.1475	2.1489
2.1504	2.1518	2.1532	2.1546	2.1560	2.1573	2.1587
2.1600	2.1614	2.1627	2.1640	2.1654	2.1667	2.1680
2.1692	2.1705	2.1718	2.1731	2.1743	2.1756	2.1768
2.1780	2.1792	2.1804	2.1817	2.1829	2.1840	2.1852
2.1864	2.1876	2.1887	2.1899	2.1910	2.1922	2.1933
2.1944	2.1956	2.1967	2.1978	2.1989	2.2000	

* UNDEVELOPED SITE - 1.00 ACRES

COMPUTE NM HYD

ID=1 HYD NO=EX.SITE DA=0.00160 SQ MI

PER A=100 PER B=0 PER C=0 PER D=0

TP=0.1333 HR MASS RAIN=-1

K = .163684HR TP = .133300HR K/TP RATIO = 1.227936 SHAPE CONSTANT, N = 2.899764

UNIT PEAK = 3.2834 CFS UNIT VOLUME = .9952 B = 273.54 P60 = 1.8700

AREA = .001600 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=20

HYDROGRAPH FROM AREA EX.SITE

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.0	2.666	.0				
.667	.0	2.000	.1	3.333	.0				

RUNOFF VOLUME = .43925 INCHES = .0375 ACRE-Feet
PEAK DISCHARGE RATE = 1.33 CFS AT 1.533 HOURS BASIN AREA = .0016 SQ. MI.

* DEVELOPED SITE - 1.00 ACRES

COMPUTE NM HYD ID=2 HYD NO=DEV.SITE DA=0.00160 SQ MI
PER A=0 PER B=36 PER C=12 PER D=52
TP=0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 3.2848 CFS UNIT VOLUME = .9961 B = 526.28 P60 = 1.8700
AREA = .000832 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .124711HR TP = .133300HR K/TP RATIO = .935564 SHAPE CONSTANT, N = 3.780327
UNIT PEAK = 1.9603 CFS UNIT VOLUME = .9933 B = 340.25 P60 = 1.8700
AREA = .000768 SQ MI IA = .46250 INCHES INF = 1.14500 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=2 CODE=20

HYDROGRAPH FROM AREA DEV.SITE

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.7	2.666	.1	4.000	.0	5.333	.0
.667	.0	2.000	.7	3.333	.0	4.666	.0	5.999	.0

RUNOFF VOLUME = 1.37637 INCHES = .1174 ACRE-Feet
PEAK DISCHARGE RATE = 3.44 CFS AT 1.500 HOURS BASIN AREA = .0016 SQ. MI.

* EXISTING FULLY DEVELOPED OFF-SITE BASIN A - 4.50 ACRES

COMPUTE NM HYD ID=3 HYD NO=EX.OFFSITE.A DA=0.0070 SQ MI
PER A=0 PER B=11 PER C=36 PER D=53
TP=0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 14.647 CFS UNIT VOLUME = .9985 B = 526.28 P60 = 1.8700

AREA = .003710 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .111747HR TP = .133300HR K/TP RATIO = .838313 SHAPE CONSTANT, N = 4.251714
UNIT PEAK = 9.1719 CFS UNIT VOLUME = .9988 B = 371.62 P60 = 1.8700
AREA = .003290 SQ MI IA = .38511 INCHES INF = .92830 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=3 CODE=20

HYDROGRAPH FROM AREA EX.OFFSITE.A

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.000	3.2	4.000	.1	5.999	.1		
.667	.0	2.666	.3	4.666	.1	6.666	.0		
1.333	3.5	3.333	.1	5.333	.1				

RUNOFF VOLUME = 1.46743 INCHES = .5478 ACRE-FEET
PEAK DISCHARGE RATE = 16.00 CFS AT 1.500 HOURS BASIN AREA = .0070 SQ. MI.

* COMPUTE TOTAL FLOW AT AIRPORT DOUBLE "C" INLET
ADD HYD ID=4 HYD NO=Q.INLET IDI=2 IDII=3
PRINT HYD ID=4 CODE=20

HYDROGRAPH FROM AREA Q.INLET

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.000	3.9	4.000	.1	5.999	.1		
.667	.0	2.666	.4	4.666	.1	6.666	.0		
1.333	4.3	3.333	.1	5.333	.1				

RUNOFF VOLUME = 1.45042 INCHES = .6653 ACRE-FEET
PEAK DISCHARGE RATE = 19.43 CFS AT 1.500 HOURS BASIN AREA = .0086 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 10:12:33



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 5, 2001

Dennis Lorenz
Brasher & Lorenz
2210 San Pedro NE
Albuquerque, New Mexico 87110

RE: Conceptual Grading and Drainage Plan (K10-D41) Dated November 28, 2001

Dear Mr. Lorenz:

The above referenced conceptual drainage plan received November 28, 2001 is approved for Site Development Plan for Building Permit. Prior to the release of the building permit please address the following.

1. Please give more details on the downstream capacity. Address the location of the inlet and its capacity.
2. Please give more details for the drainage plan.

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)

K-10/D41

PROJECT TITLE: NEW LIFE HOMES ZONE MAP/DRG. FILE #: K-10
DRB #: _____ EPC#: _____ WORK ORDER#: _____
LEGAL DESCRIPTION: PORTION OF TRILL TOWN OF ATRISCO GRANT UNIT 6
CITY ADDRESS: AIRPORT DR NW
ENGINEERING FIRM: BRASHER + LORENZ CONTACT: D. LORENZ
ADDRESS: 2201 SAN PEDRO NE PHONE: 888-6008
CITY, STATE: ABQ NM ZIP CODE: 87110
OWNER: NEW LIFE HOMES CONTACT: J. BLOOMFIELD
ADDRESS: 514 CENTRAL SW PHONE: 766 6968
CITY, STATE: ABQ NM ZIP CODE: 87102
ARCHITECT: GARRETT SMITH CONTACT: R. JACOB
ADDRESS: 514 CENTRAL SW PHONE: 766 6968
CITY, STATE: ABQ NM ZIP CODE: 87102
SURVEYOR: BRASHER & LORENZ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____
CONTRACTOR: NA CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

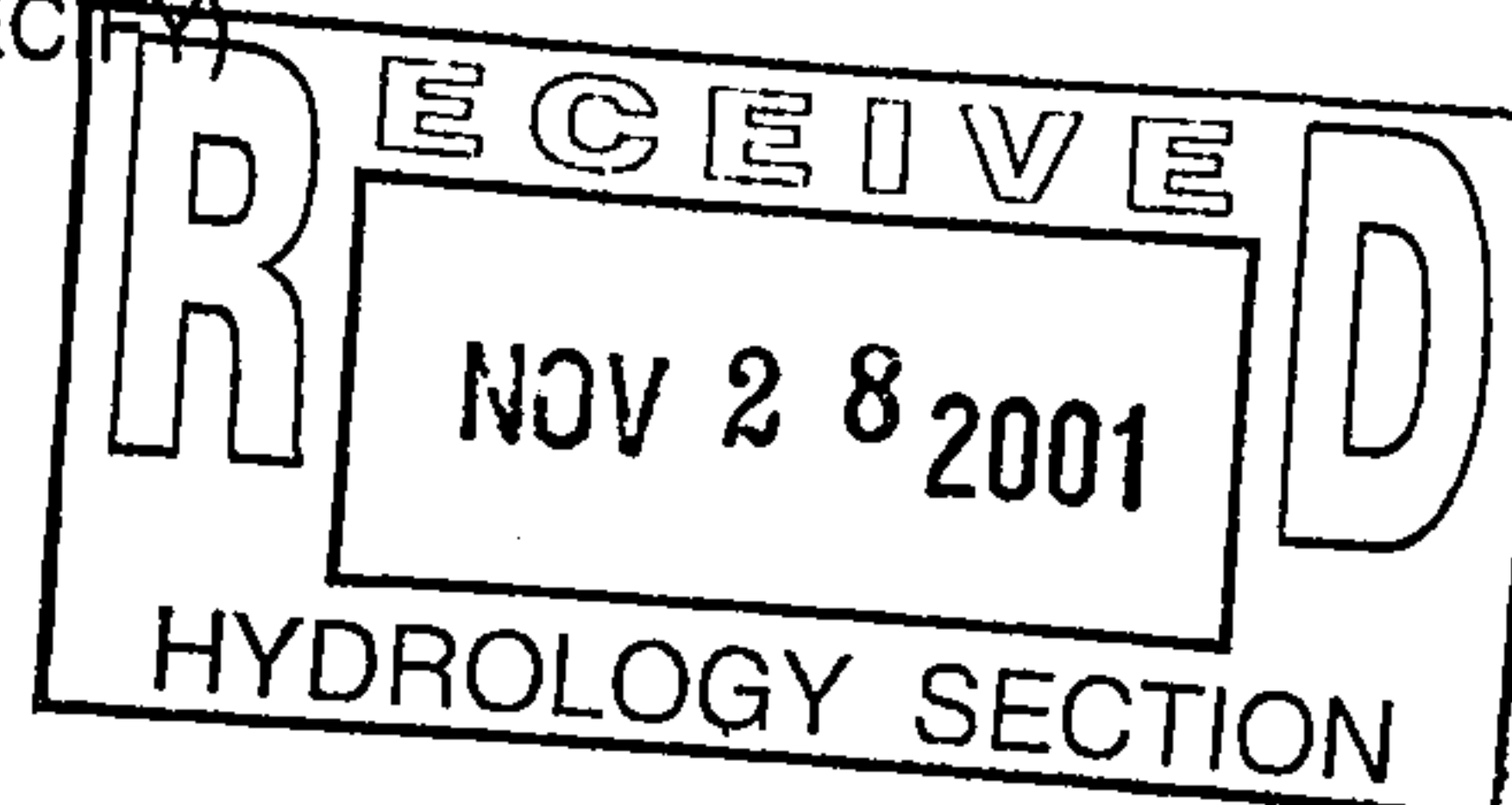
- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☒ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEERS CERTIFICATION (TCL)
☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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



DATE SUBMITTED: 11.28.01

BY: DENNIS LORENZ

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 MORE.