

CITY OF ALBUQUERQUE



June 5, 2007

Brigitte Fuller, P.E.
Wilson & Company
2600 American Rd. Ste 100
Rio Rancho, NM 87124

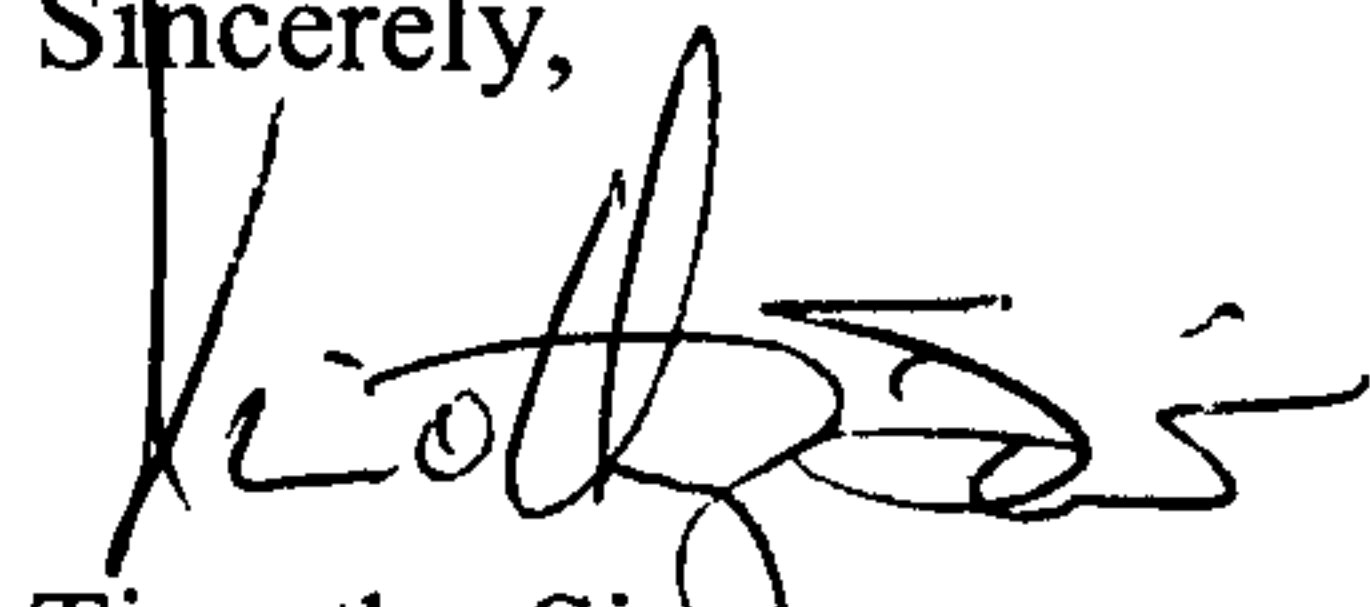
**Re: Lowe's on 12th St. & Indian School Rd., 2001 12th Street,
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 4/03/05 (H-13/D001)
Certification dated 06/04/07**

Based upon the information provided in your submittal received 6/05/07, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

P.O. Box 1293

If you have any questions, you can contact me at 924-3982.

Albuquerque

Sincerely,


New Mexico 87103

Timothy Sims
Plan Checker, Planning Dept.
Development and Building Services

www.cabq.gov

C: CO Clerk-Katrina Sigala
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 01/06 – KDM)

PROJECT TITLE: Lowe's 12th/Indian School Rd. ZONE MAP: H-13-1001
DRB#: 1002805 EPC#: 03EPC-01917 WORK ORDER#: 732781

LEGAL DESCRIPTION: Tract D-2 St Anthony's Orphanage
CITY ADDRESS: _____

ENGINEERING FIRM: Wilson & Company, Inc. CONTACT: Brigitte Fuller
ADDRESS: 2600 American Rd, Ste 100 PHONE: (505) 898-8021
CITY, STATE: Rio Rancho, NM ZIP CODE: 87124

OWNER: Mountain Run Partners, LTD CONTACT: Paul Blanchard
ADDRESS: 5850 Eubank, NE, Ste B-62 PHONE: (505) 275-0000
CITY, STATE: Albuquerque, NM ZIP CODE: 87111

ARCHITECT: George Rainhart Architects CONTACT: George Rainhart
ADDRESS: 2325 San Pedro NE, Ste 2B PHONE: (505) 884-9110
CITY, STATE: Albuquerque, NM ZIP CODE: 87110

SURVEYING FIRM: Wilson & Company, Inc. LICENSED SURVEYOR: Scott Croshaw
ADDRESS: 4900 Lang Ave, NE PHONE: (505) 348-4000
CITY, STATE: Albuquerque, NM ZIP CODE: 97109

CONTRACTOR: Blanchard Consturction Company CONTACT: Paul Blanchard
ADDRESS: 5850 Eubank, NE, Ste B-62 PHONE: (505) 275-0000
CITY, STATE: Albuquerque, NM ZIP CODE: 87111

TYPE OF SUBMITTAL:

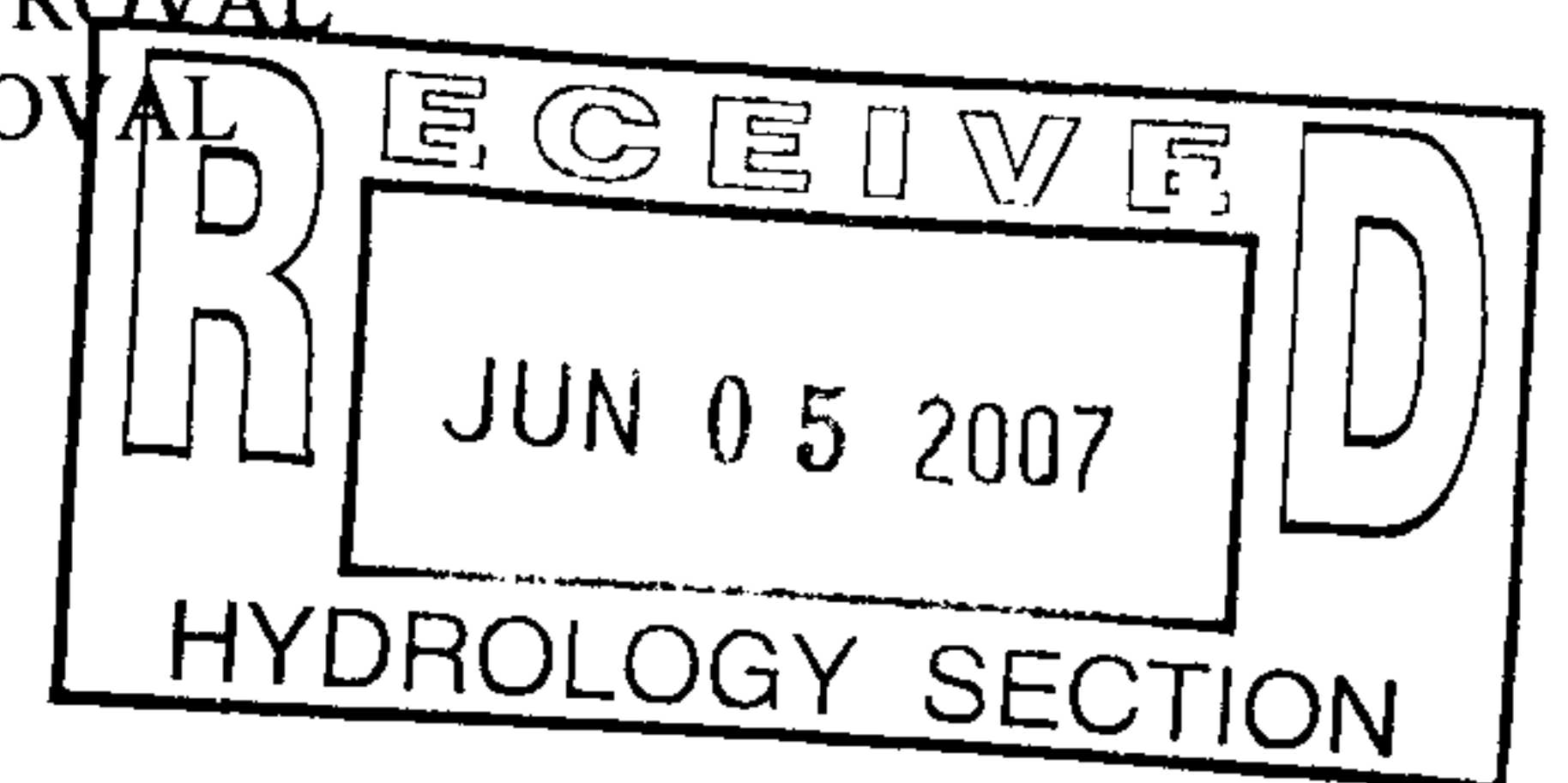
☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER'S CERT (TCL)
☒ ENGINEER'S CERT (DRB SITE PLAN)
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL SOUGHT:

☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES
☐ NO
☐ COPY PROVIDED

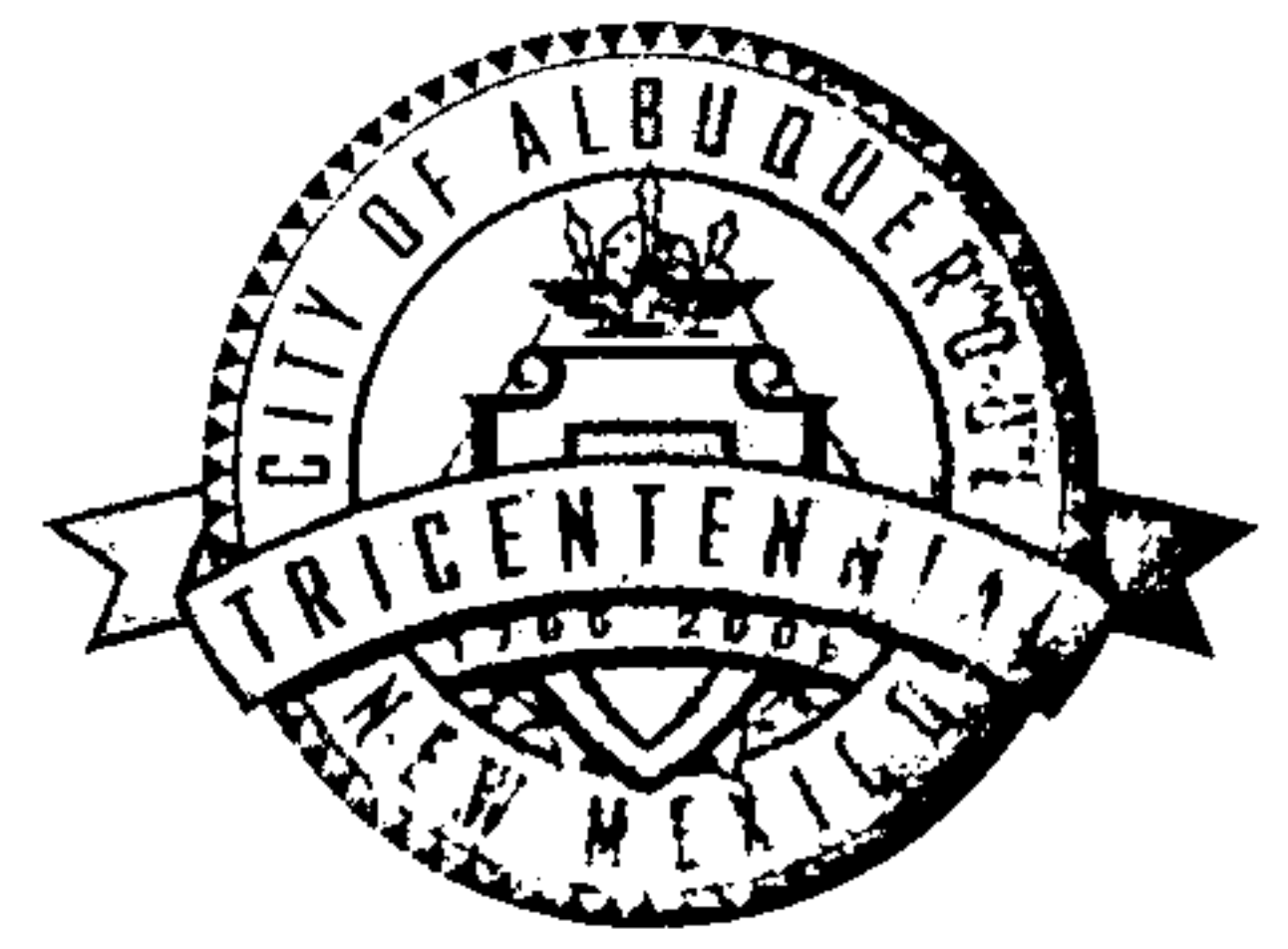


DATE SUBMITTED: 5/23/07 BY: Brigitte Fuller

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE



June 05, 2007

Brigitte Fuller, P/E.
Wilson & Company
2600 American Rd. Ste. 100
Rio Rancho, NM 87124

**Re: Lowe's on 12th St. & Indian School, 2001 12th St,
Approval of Permanent Certificate of Occupancy
Engineer's Stamp dated 2-18-04 (H-13/D001)
Certification dated 6-04-07**

Dear Ms. Fuller,

P.O. Box 1293

Based upon the information provided in your submittal received 6-05-07, the above referenced certification is approved for release of permanent Certificate of Occupancy by Transportation Development.

Albuquerque

If you have any questions, you can contact me at 924-3991.

New Mexico 87103

Sincerely,

Wilfred Gallegos, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

www.cabq.gov

C: CO Clerk-Katrina Sigala
File

CITY OF ALBUQUERQUE



June 22, 2006

Ms. Brigitte Fuller, P.E.
WILSON & COMPANY
2600 American Road, Ste 100
Rio Rancho, NM 87124

Re: WALGREENS @ 12th & INDIAN SCHOOL ROAD
2011 12th Street NW
Approval of Temporary Certificate of Occupancy (C.O.)
Engineer's Stamp dated 04/03/2005 (H-13/D1)
Certification dated 06/21/2006

P.O. Box 1293

Dear Brigitte,

Albuquerque

Based upon the information provided in your submittal received 06/22/2006, the above referenced certification is approved for release of 30-day Temporary Certificate of Occupancy by Hydrology.

New Mexico 87103

Upon receipt of a copy of the Certificate of Work Order Completion and the City Engineer Certificate of Completion and Acceptance, a Permanent C.O. will be issued from Hydrology.

www.cabq.gov

If you have any questions, you can contact me at 924-3982.

Sincerely,

Arlene V. Portillo

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

C: C.O. Clerk
File



City of Albuquerque

Department of Municipal Development

Martin Chavez, Mayor
Interoffice Memorandum

June 22th, 2006

To: Richard Dourte, COA City Engineer
From: Juan Carlos Samuel, DMD Project Manager JCS
Subject: 12th St and Indian School Rd Improvements: For Lowes of Central Albuquerque, City Project No. 732781

Dear Richard:

The City has accepted the responsibility to construct the paving improvements identified for the project referenced above as indicated on the DRB infrastructure list for DRB project no. 1002805 approved 2-18-04.

As of April 2006, the Department of Municipal Development Transportation Division has completed roadway improvements for the referenced project. The roadway improvements associated with this project included: a new left turn lane and right turn lane into the new Lowe's development, pavement installation, sidewalk, curb and gutter, median curb and gutter, drivepads, and permanent striping and signing.

xc: Arlene Portillo, COA Planning Dept.
Robert Kane, COA Construction Services Division
Brigitte Fuller, Wilson and Co.

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 01/06 – KDM)

PROJECT TITLE: Walgreens 12th/Indian School Rd. ZONE MAP: H-13-~~7~~DI
DRB#: 1002805 EPC#: 03EPC-01917 WORK ORDER#: 732781

LEGAL DESCRIPTION: Tract D-2 St Anthony's Orphanage
CITY ADDRESS: 2011 12th St NW

ENGINEERING FIRM: Wilson & Company, Inc. CONTACT: Brigitte Fuller
ADDRESS: 2600 American Rd, Ste 100 PHONE: (505) 898-8021
CITY, STATE: Rio Rancho, NM ZIP CODE: 87124

OWNER: Mountain Run Partners, LTD CONTACT: Paul Blanchard
ADDRESS: 5850 Eubank, NE, Ste B-62 PHONE: (505) 275-0000
CITY, STATE: Albuquerque, NM ZIP CODE: 87111

ARCHITECT: George Rainhart Architects CONTACT: George Rainhart
ADDRESS: 2325 San Pedro NE, Ste 2B PHONE: (505) 884-9110
CITY, STATE: Albuquerque, NM ZIP CODE: 87110

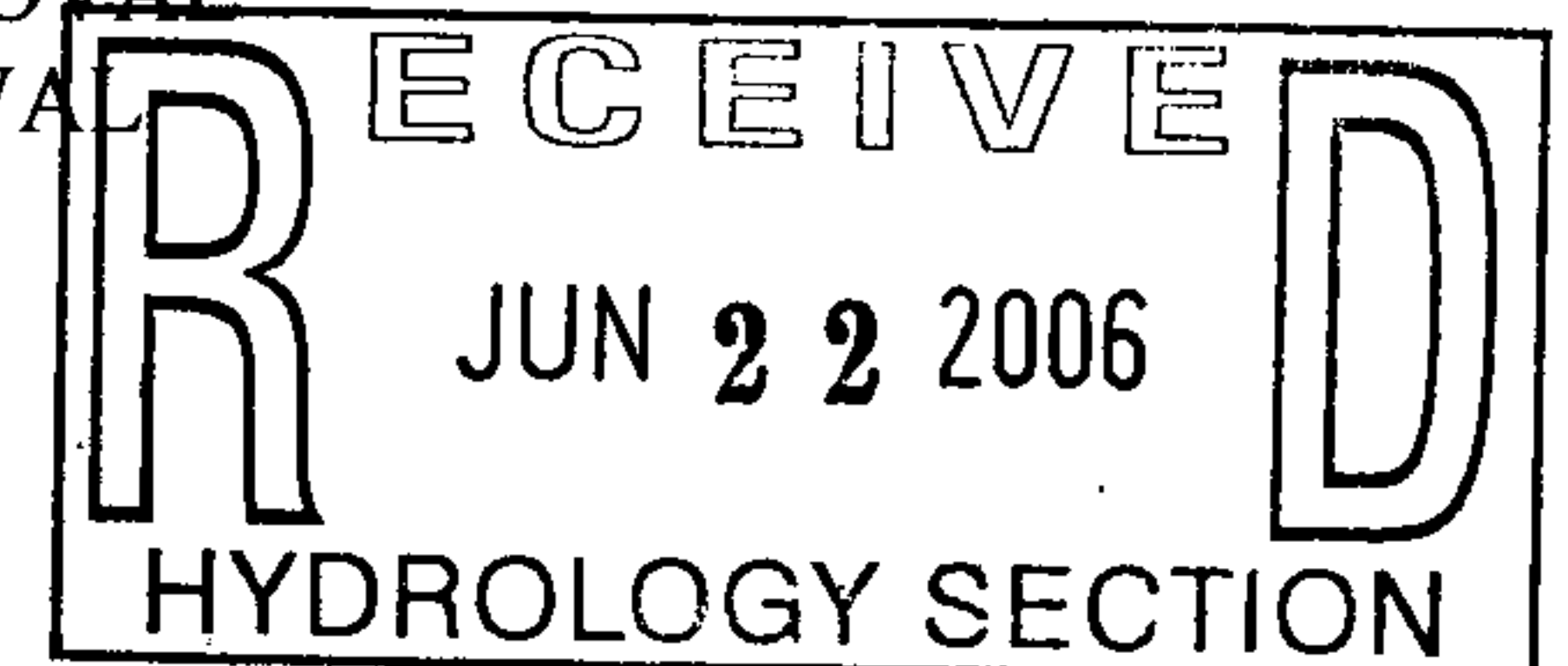
SURVEYING FIRM: Wilson & Company, Inc. LICENSED SURVEYOR: Scott Croshaw
ADDRESS: 4900 Lang Ave, NE PHONE: (505) 348-4000
CITY, STATE: Albuquerque, NM ZIP CODE: 97109

CONTRACTOR: Blanchard Consturction Company CONTACT: Paul Blanchard
ADDRESS: 5850 Eubank, NE, Ste B-62 PHONE: (505) 275-0000
CITY, STATE: Albuquerque, NM ZIP CODE: 87111

TYPE OF SUBMITTAL:
☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:
☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:
☐ YES
☐ NO
☐ COPY PROVIDED

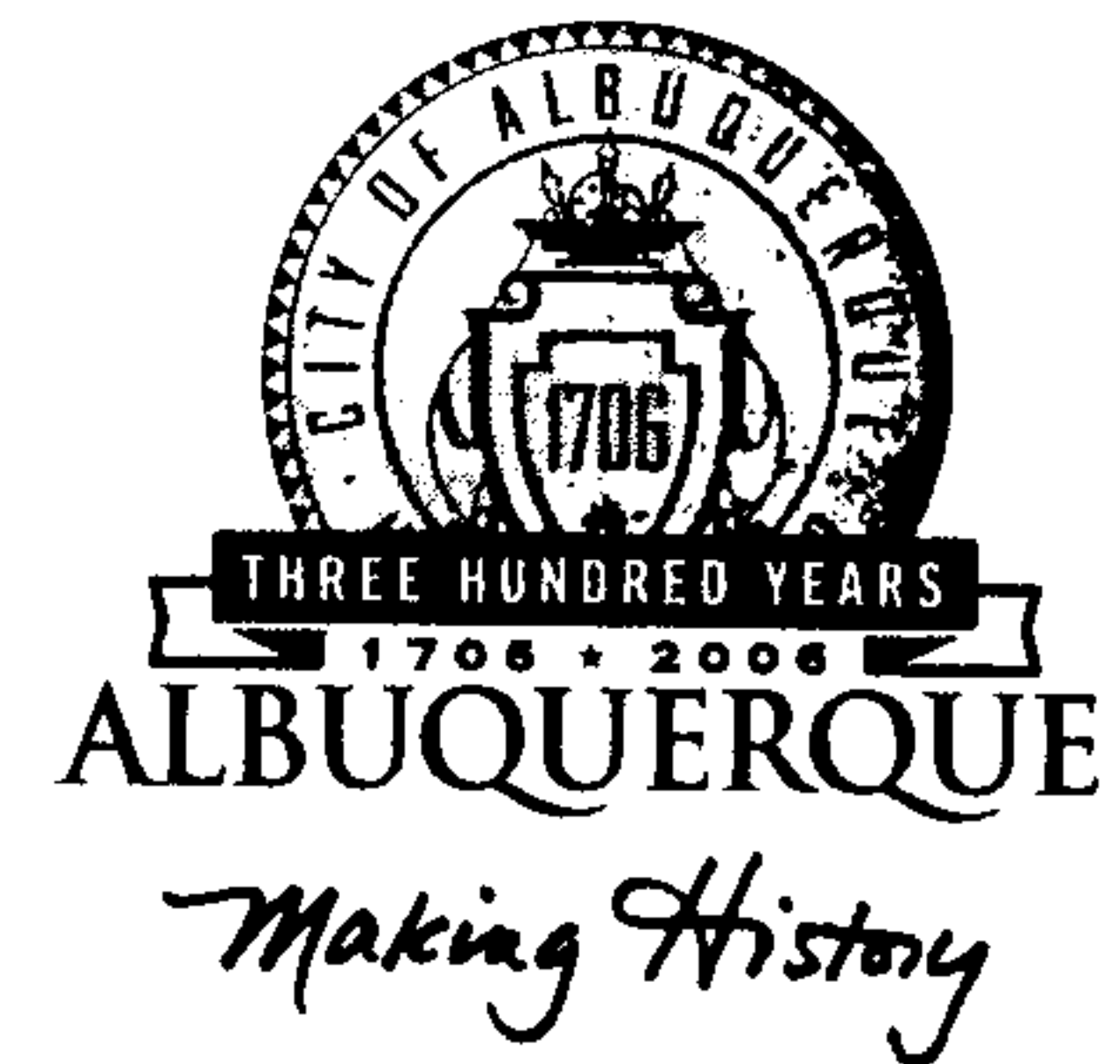


DATE SUBMITTED: 6/22/06 BY: Brigitte Fuller

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE



April 5, 2005

Brigitte Fuller, P.E.
Wilson & Company
2600 The American Rd. SE, Suite 100
Rio Rancho, NM 87124

**Re: Lowes / Walgreens of Central Albuquerque, 2005 12th Street NW,
Grading and Drainage Plan**

Engineer's Stamp dated 4-03-05 (H13-D1)

Dear Ms. Fuller,

Based upon the information provided in your submittal received 3-24-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

P.O. Box 1293

Albuquerque

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

New Mexico 87103


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

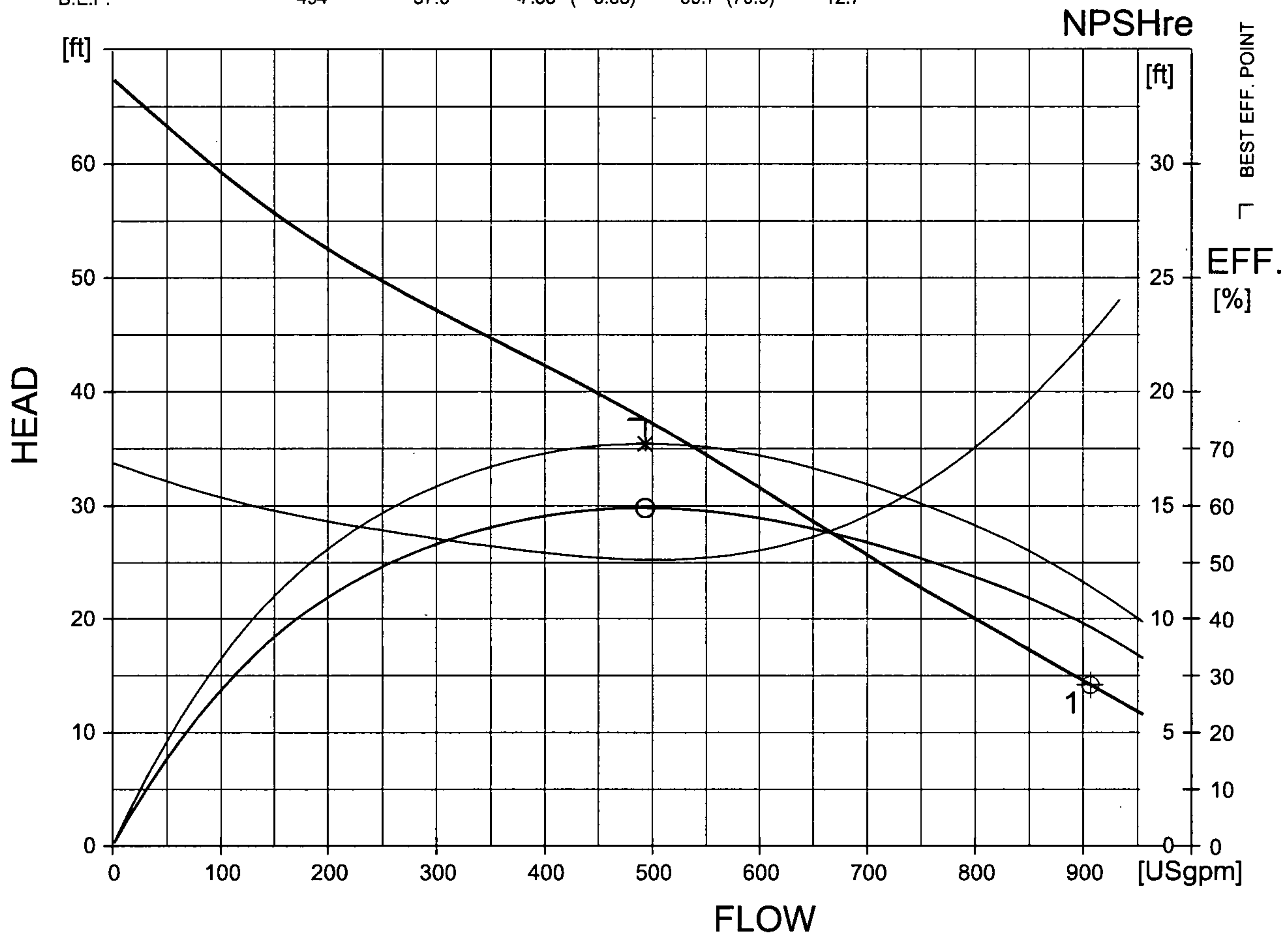
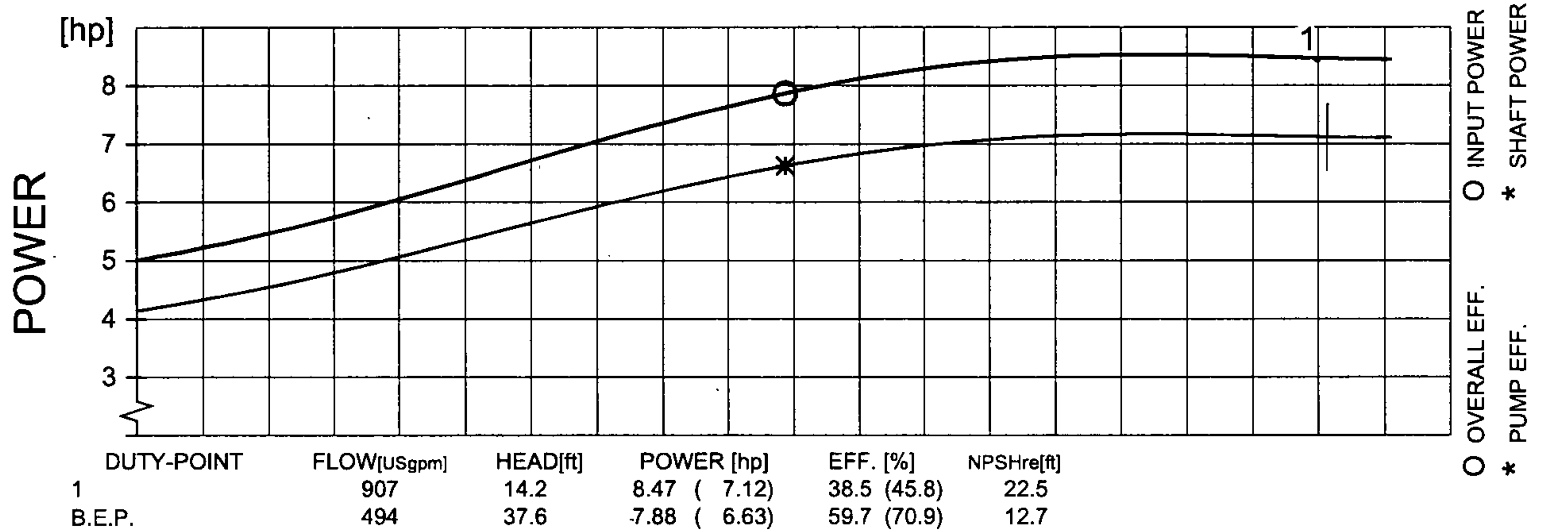
www.cabq.gov

Sincerely,

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

C: Charles Caruso, DMD Storm Drainage Design
File

				PERFORMANCE CURVE				PRODUCT NP3127.180		TYPE HT		
DATE 2005-04-04		PROJECT lowes central						CURVE NO 63-489-00-2255		ISSUE 2		
POWER FACTOR EFFICIENCY MOTOR DATA	1/1-LOAD 0.88 83.5 % ---		3/4-LOAD 0.85 84.5 % ---		1/2-LOAD 0.77 83.5 % ---		RATED POWER STARTING CURRENT ... RATED CURRENT ... 7.5 hp 52 A 9.6 A		IMPELLER DIAMETER 195 mm			
	COMMENTS				INLET/OUTLET - /100 mm		RATED SPEED TOT.MOM.OF INERTIA ... NO. OF BLADES 1740 rpm 0.046 kgm2 2		MOTOR # 21-10-4AL		STATOR 12YSER	REV 11
					IMP. THROUGHLET ---				FREQ. 60 Hz	PHASES 3	VOLTAGE 460 V	POLES 4
								GEARTYPE ---		RATIO ---		



NPSHre = NPSH3% + min. operational margin

Performance with clear water and ambient temp 40 °C



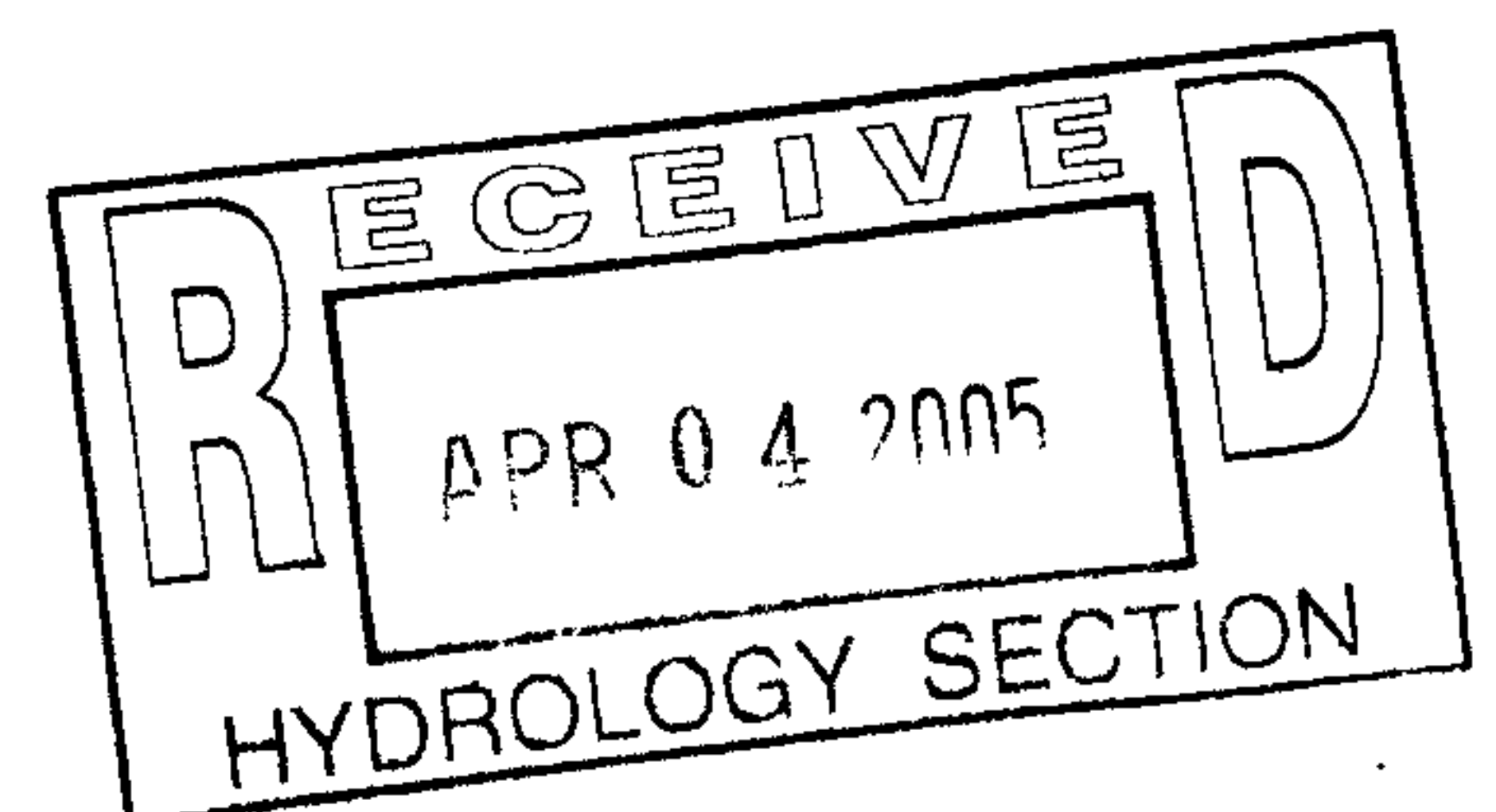
CURVE

ex100yr- summary.txt

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
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 USER NO.= AHYMO-C-9803c01UNMLIB-AH

- VERSION:

RUNOFF COMMAND (INCHES)	TIME TO PEAK (HOURS)	CFS HYDROGRAPH PER IDENTIFICATION ACRE	FROM PAGE = ID NO. NOTATION	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)
START							
TIME= .00							
RAINFALL TYPE= 2							
RAIN24= 2.750							
*S*** COMPUTING HYD FOR BASIN EX-101							
*S							
2.15819	1.667	2.867	101.00	- 1	.00980	17.98	1.128
*S*** COMPUTING HYD FOR BASIN EX-102							
*S							
2.16010	1.567	3.478	102.00	- 2	.00810	18.03	.933
*S*** COMPUTING HYD FOR BASIN EX-103							
*S							
2.16147	1.500	4.094	103.00	- 3	.00320	8.39	.369
FINISH							



ex100yr.txt
*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
*** EXISTING CONDITIONS RUNOFF MODEL ***

*** DESIGN STORM IS THE 100 YEAR - 24 HOUR STORM

*** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START TIME = 0

*** COMPUTING RAINFALL

RAINFALL TYPE = 2

RAIN QUARTER = 0.00 INCHES

RAIN ONE HOUR = 2.01

RAIN SIX HOUR = 2.35

RAIN DAY= 2.75

DT = 0.03333 HOURS

*** COMPUTING TP FOR BASIN EX-101

COMPUTE LT TP

LCODE=1 NK=2 ISLOPE=0
LENGTH=400 FT SLOPE=0.003 K=0.7
LENGTH=570 FT SLOPE=0.003 K=2

*S*** COMPUTING HYD FOR BASIN EX-101

*S

COMPUTE NM HYD ID=1 HYDNO=101 DA=0.0098 SQ MI
PERCENT A=0 B=15 C=2.5 D=82.5
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=1 CODE=5

*** COMPUTING TP FOR BASIN EX-102

COMPUTE LT TP

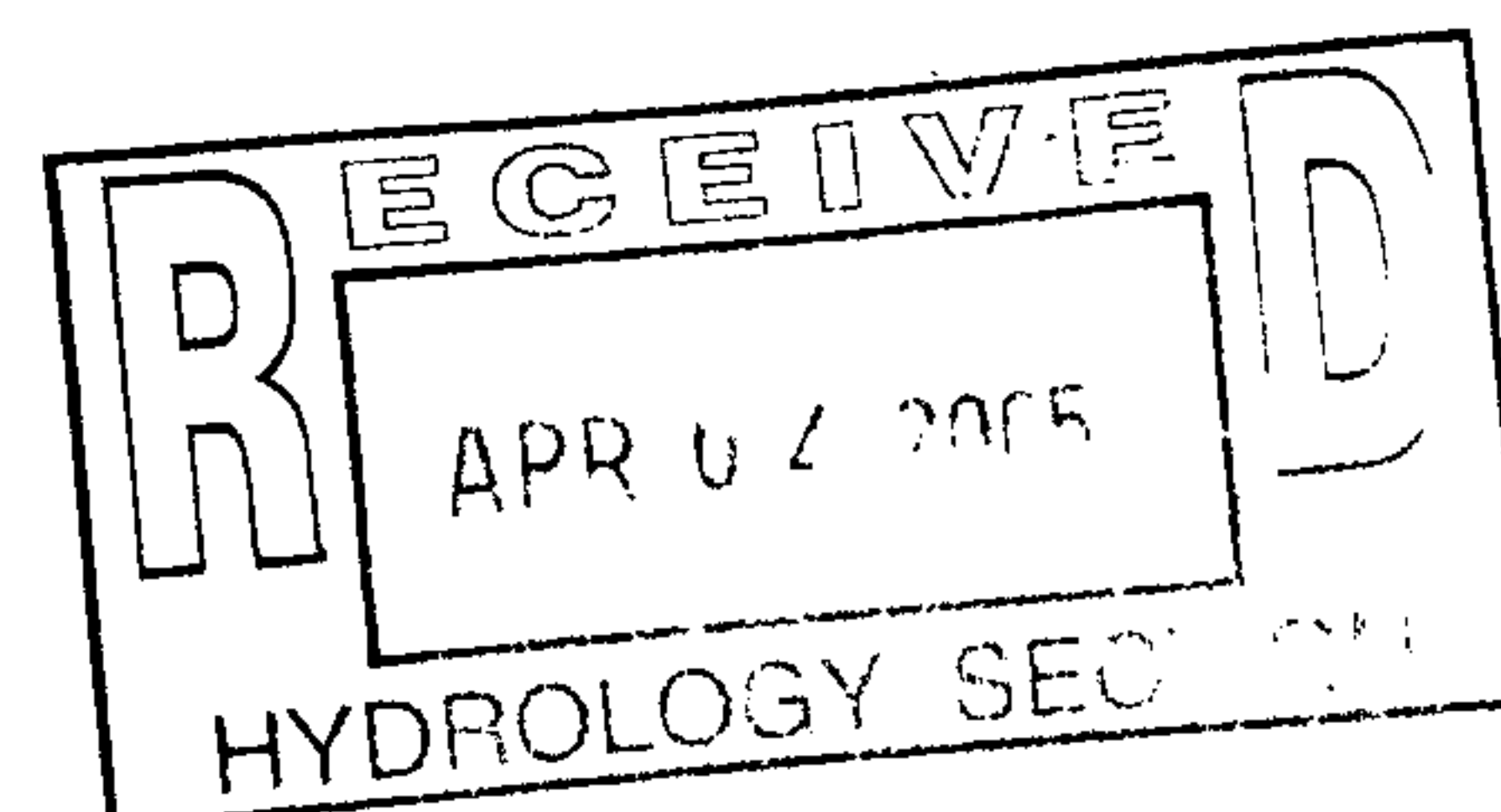
LCODE=1 NK=2 ISLOPE=0
LENGTH=400 FT SLOPE=0.003 K=0.7
LENGTH=70 FT SLOPE=0.003 K=2

*S*** COMPUTING HYD FOR BASIN EX-102

*S

COMPUTE NM HYD ID=2 HYDNO=102 DA=0.0081 SQ MI
PERCENT A=0 B=15 C=2.5 D=82.5

Page 1



ex100yr.txt
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=2 CODE=5

*** COMPUTING TP FOR BASIN EX-103

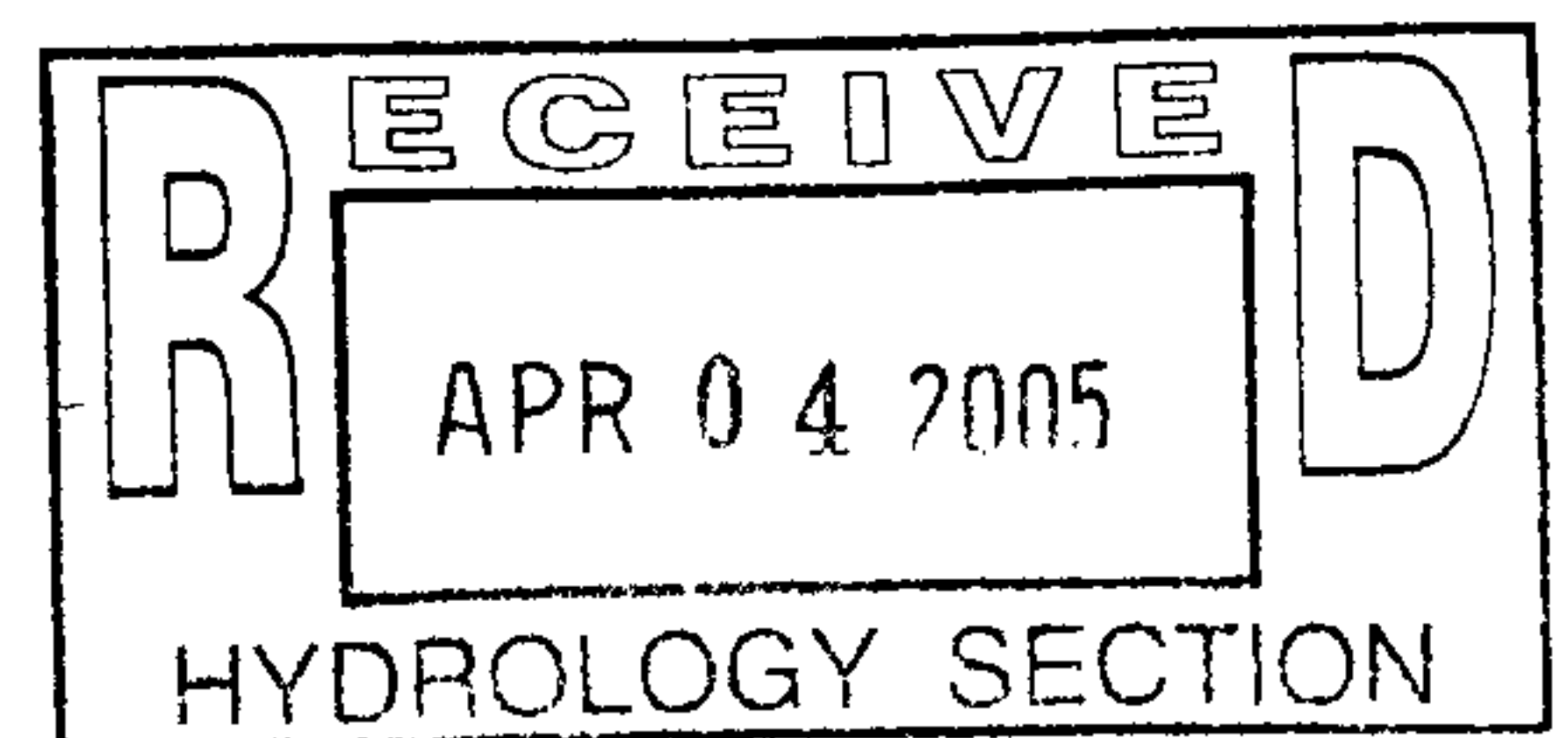
COMPUTE LT TP LCODE=1 NK=1 ISLOPE=0
LENGTH=300 FT SLOPE=0.003 K=0.7

*S*** COMPUTING HYD FOR BASIN EX-103
*S

COMPUTE NM HYD ID=3 HYDNO=103 DA=0.0032 SQ MI
PERCENT A=0 B=15 C=2.5 D=82.5
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=3 CODE=5

FINISH

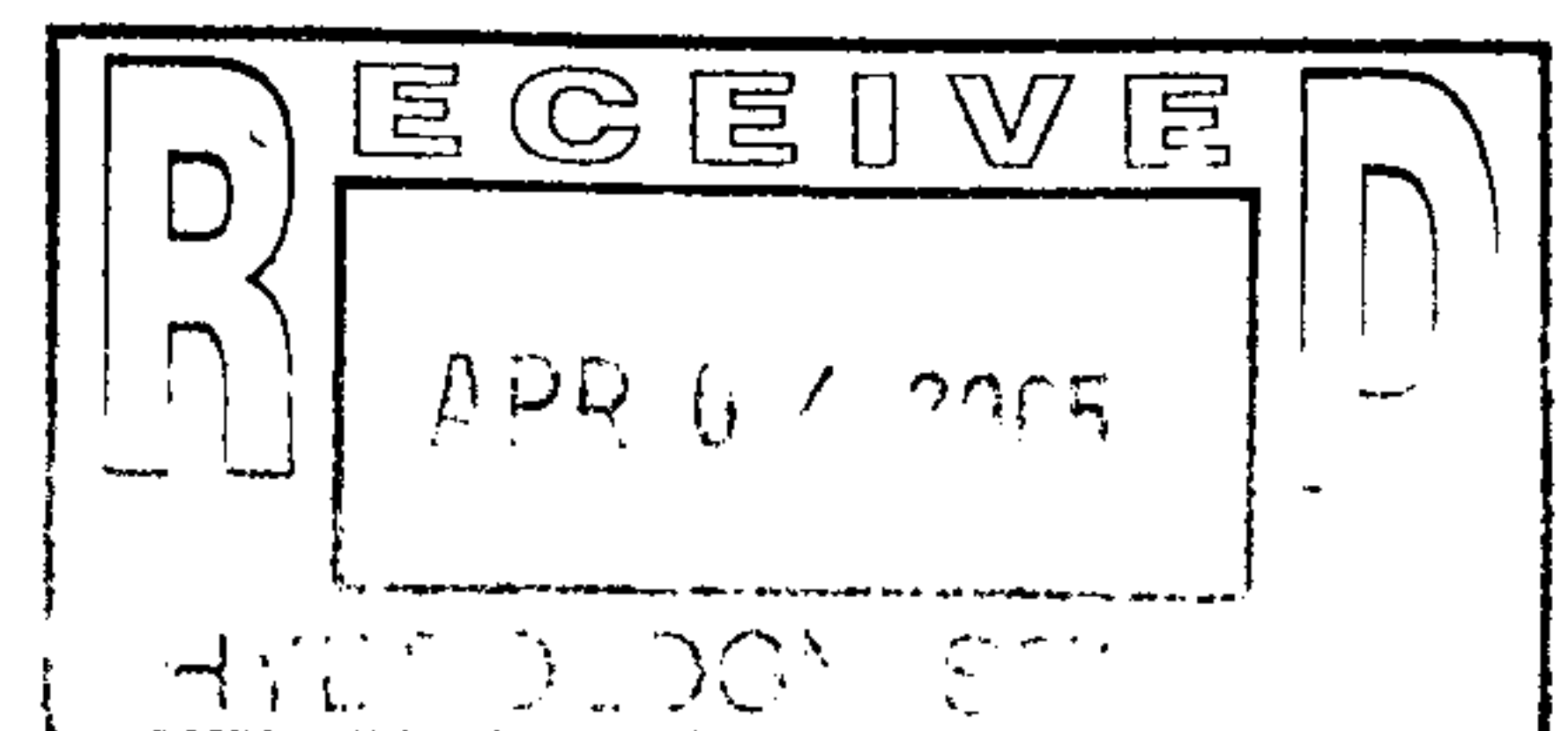


P100yr- summary.txt

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 USER NO.= AHYMO-C-9803c01UNMLIB-AH

- VERSION:

RUNOFF COMMAND (INCHES)	TIME TO PEAK (HOURS)	CFS HYDROGRAPH PER IDENTIFICATION ACRE	FROM PAGE = ID NO. NOTATION	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)
START			TIME=	.00			
RAINFALL	TYPE= 2						
			RAIN24=	2.750			
*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA							
*S							
COMPUTE NM HYD		201.00	-	1	.02110	46.15	2.431
2.15997	1.567	3.418	PER IMP=	82.50			
*S ROUTE THROUGH UNDERGROUND DETENTION (1750 LF)							
ROUTE RESERVOIR		202.00	1	2	.02110	2.01	2.425
2.15521	6.666	.149	AC-FT=	1.257			
FINISH							



*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
 *** PROPOSED CONDITIONS RUNOFF MODEL ***

 *** DESIGN STORM IS THE 100 YEAR - 24 HOUR STORM

 *** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START TIME = 0

 *** COMPUTING RAINFALL

RAINFALL TYPE = 2
 RAIN QUARTER = 0.00 INCHES
 RAIN ONE HOUR = 2.01
 RAIN SIX HOUR = 2.35
 RAIN DAY= 2.75
 DT = 0.03333 HOURS

 *** COMPUTING TP FOR PROPOSED BASIN 201- TOTAL SITE

COMPUTE LT TP
 LCODE=1 NK=2 ISLOPE=0
 LENGTH=400 FT SLOPE=0.003 K=0.7
 LENGTH=100 FT SLOPE=0.003 K=2

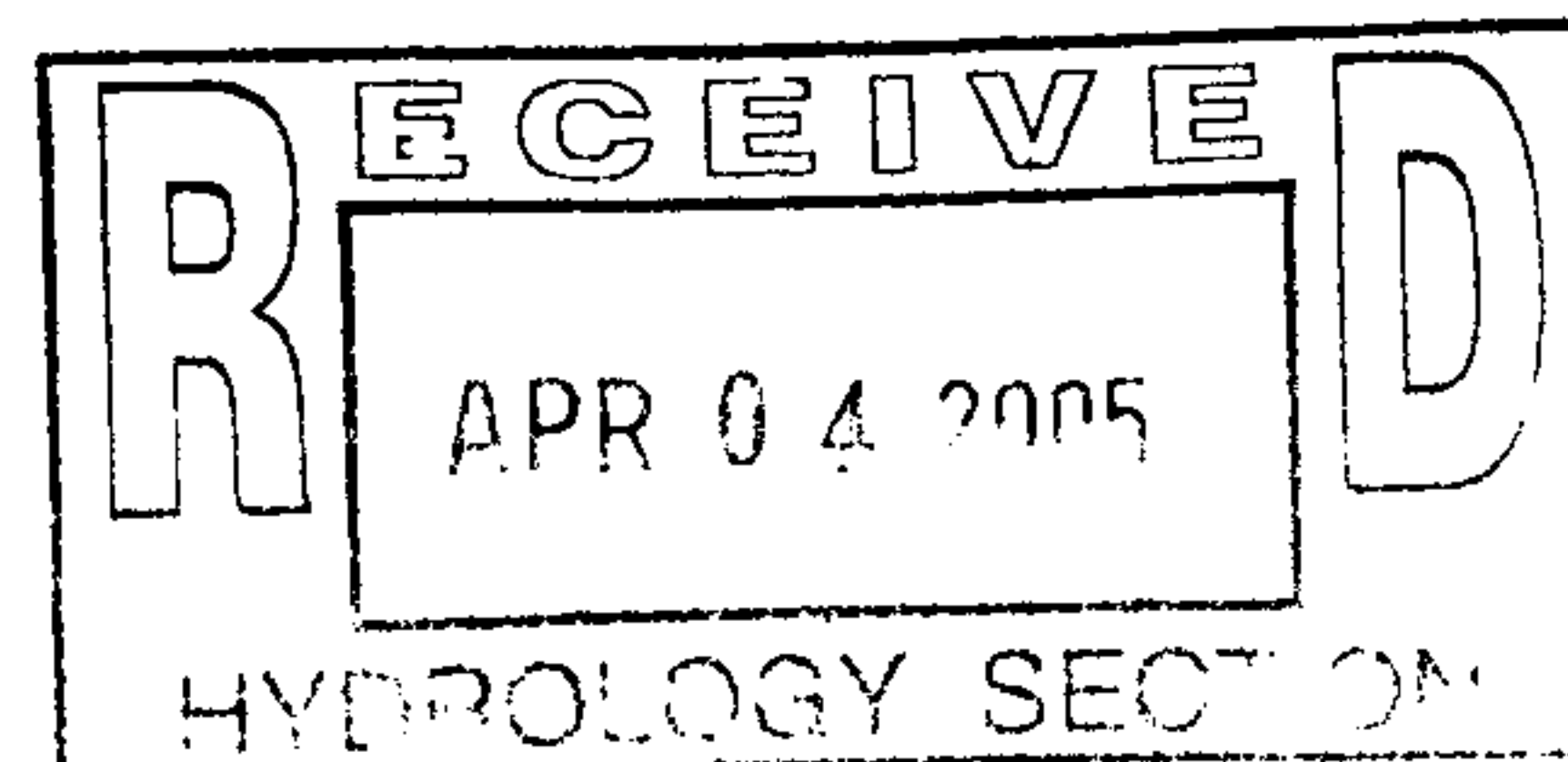
*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA
 *S

COMPUTE NM HYD ID=1 HYDNO=201 DA=0.0211 SQ MI
 PERCENT A=0 B=15 C=2.5 D=82.5
 TP=0.0 HR MASSRAIN=-1

PRINT HYD ID=1 CODE=5

*S ROUTE THROUGH UNDERGROUND DETENTION (1750 LF)
 ROUTE RESERVOIR ID=2 HYD=202 INFLOW ID=1 CODE=1

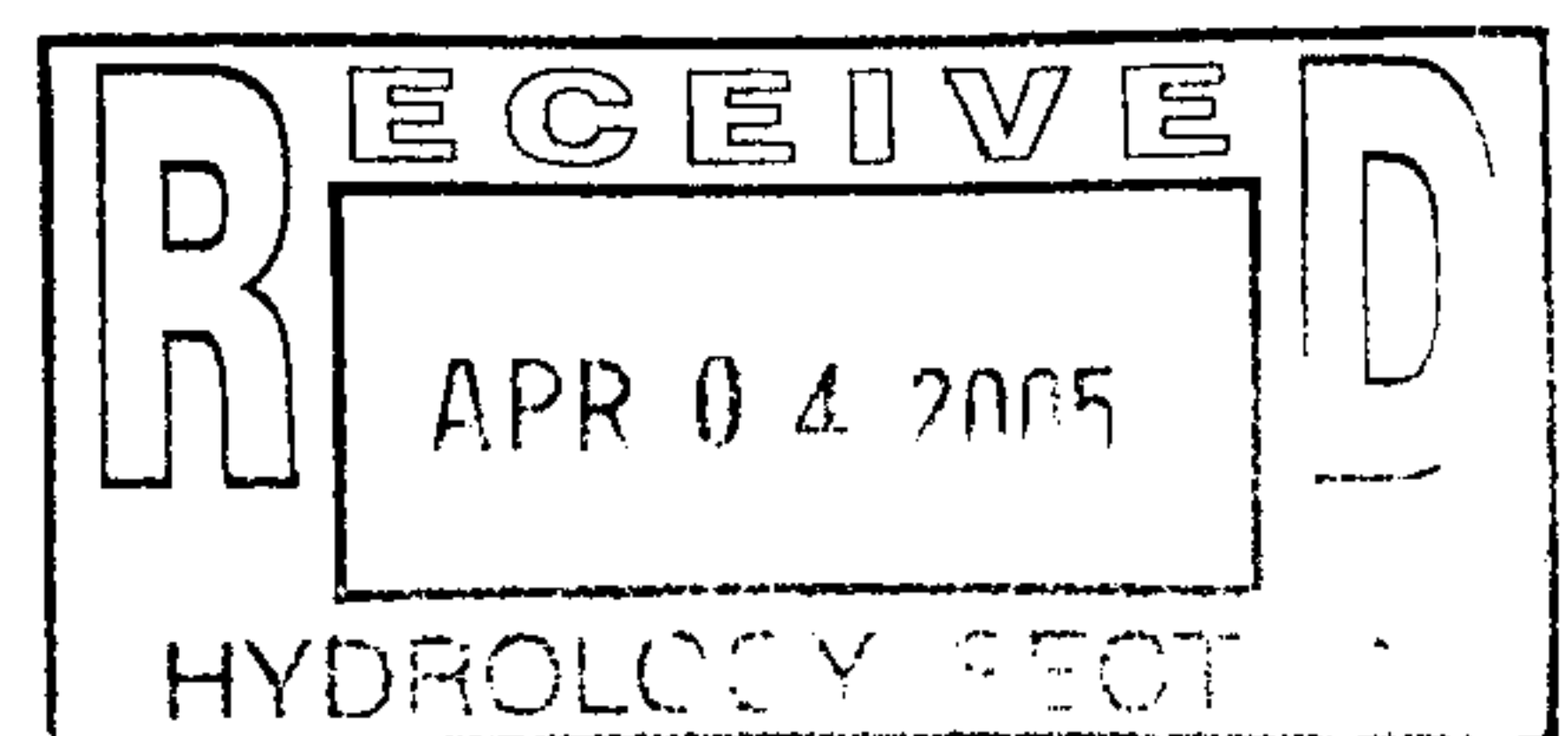
OUTFLOW(cfs)	STORAGE(AC FT)	ELEV(FT)
0	0	0.0
1.90	0.051	0.5
1.91	0.141	1.0



	P100yr.txt	
1.92	0.252	1.5
1.93	0.380	2.0
1.94	0.518	2.5
1.96	0.663	3.0
1.98	0.812	3.5
1.99	0.963	4.0
2.00	1.112	4.5
2.01	1.257	5.0
2.00	1.395	5.5
2.00	1.522	6.0
2.00	1.634	6.5
2.00	1.724	7.0
2.00	1.775	7.5

PRINT HYD ID=2 CODE=5

FINISH



H-13/D1



Martin J. Chavez, Mayor

City of Albuquerque

P.O. Box 1293 ALBUQUERQUE, NEW MEXICO 87103

Planning Department
Richard Dineen, Director

Certificate of Work Order Completion

July 20, 2006

TO: City Engineer
600 Second Street, NW
Albuquerque, NM 87102

RE: Certificate of Work Order Completion for Lowe's Central Albuquerque-Paving/Util.Conn's, City
Project Number 732781

Dear Sirs:

The City of Albuquerque (City) has received a Certification of Substantial Compliance from Christopher Perea, P.E., for City Project Number 732781. Based on the Engineers Certification, the City believes that the project has been completed according to the approved plans and specifications.

The contractor's warranty period will begin on July 20, 2006 and is effective for a period of one (1) year.

This Certificate of Work Order Completion does not indicate the completion of all the requirements of the Subdivision Improvement Agreement (SIA). A Certificate of Completion and Acceptance will be issued by the City Engineer only after all requirements of the SIA have been satisfied, which may include but not limited to, filing of the subdivision plat, recording of all required easements and other agreements, City's acceptance of the grading and drainage certification, surveyor centerline monumentation, wall certification, landscape maintenance and agreement acceptance, and all other required documentation. Financial Guaranties associated with the SIA will be released once all requirements of the SIA are met.

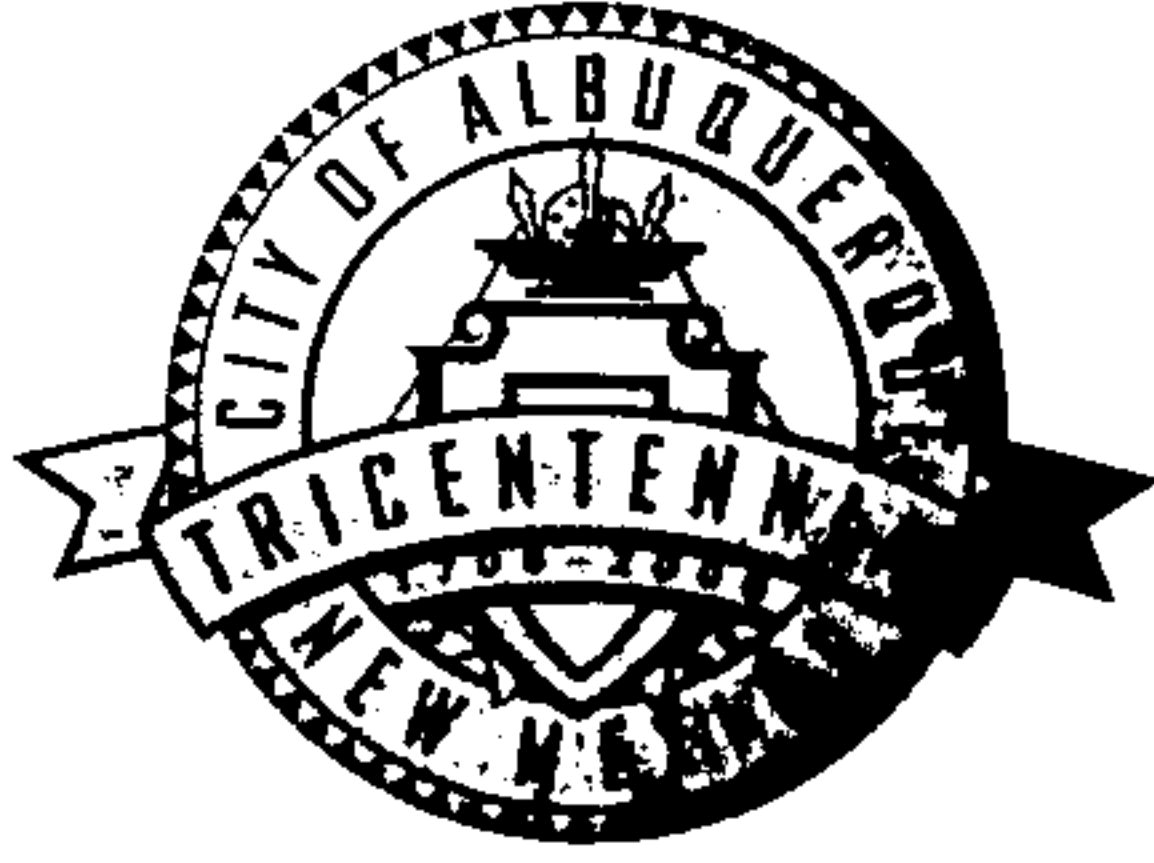
Transmitted herein for your information are copies of the following document:

1. Certificate of Substantial Compliance stamped by Christopher Perea of Wilson & Company.
2. An initialed Infrastructure List or Project Description approved by the City Construction Engineer Bryan Wolfe and City Inspector Orlando Benavidez, and Wilson & Company Consultant Inspector Robert Garcia and Engineer of Record Christopher Perea.


Bryan Wolfe, P.E.
Development & Bldg Services

cc: Mountain Run Partners, Ltd. (e-mail)
Wilson & Company (e-mail)
Water Utility Maps & Records (attached to mylars)
DMD Maps & Records, Ivan Taylor (e-mail)
TLC Plumbing (e-mail)
Tom Shoemaker, Water Utility Authority (e-mail)
Peter Chang, DMD Street Maintenance (e-mail)
Richard Zamora, DMD Street Maintenance (e-mail)
Kevin Broderick, DMD Traffic Engineering (e-mail)
Work Order File, City Project Number 732781

H-13/DJ



City of Albuquerque

Department of Municipal Development

Martin Chavez, Mayor

Interoffice Memorandum

June 22th, 2006

To: Richard Dourte, COA City Engineer

From: Juan Carlos Samuel, DMD Project Manager

Subject: 12th St and Indian School Rd Improvements: For Lowes of Central Albuquerque, City Project No. 732781

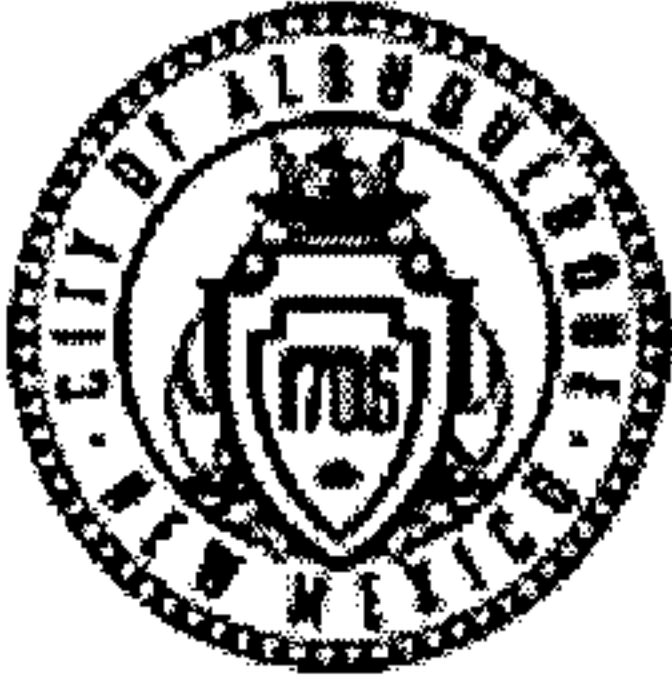
Dear Richard:

The City has accepted the responsibility to construct the paving improvements identified for the project referenced above as indicated on the DRB infrastructure list for DRB project no. 1002805 approved 2-18-04.


As of April 2006, the Department of Municipal Development Transportation Division has completed roadway improvements for the referenced project. The roadway improvements associated with this project included: a new left turn lane and right turn lane into the new Lowe's development, pavement installation, sidewalk, curb and gutter, median curb and gutter, drivepads, and permanent striping and signing.

xc: Arlene Portillo, COA Planning Dept.
Robert Kane, COA Construction Services Division
Brigitte Fuller, Wilson and Co.

[14-131D1]

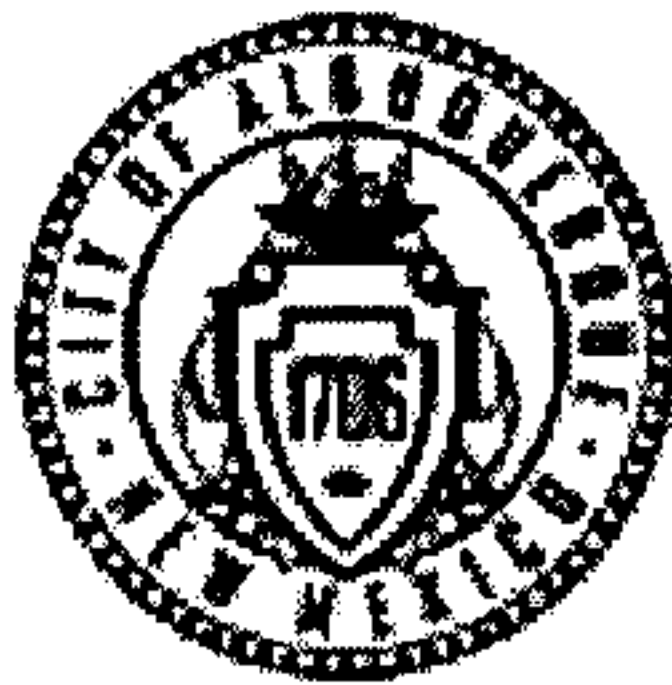


Arlene V.
Portillo/PWD/CABQ
06/23/2006 08:36 AM

To "Fuller, Brigitte M."
<Brigitte.Fuller@wilsonco.com>@PUBCABQ
cc patduettra@mrabq.com, rdourte@cabq.gov
bcc Arlene V. Portillo/PWD/CABQ
Subject Re: FW: 12th St and Indian School Project: Developer Memo


Thanks, Brigitte. We received the fax copy yesterday afternoon @ 4:00 p.m. Both Nilo and I already had our C.O. letters prepared for Transportation and Hydrology. I took the copies down to the C.O. Clerk @ 4:30 p.m. I called Wendall, and he said he would be here first thing Friday Morning to pick up the Temporary C.O.

Arlene V. Portillo, Plan Checker
Planning Department, Hydrology Section
e-mail - aportillo@cabq.gov
Office Phone 505-924-3982; Fax 505-924-3864
"Fuller, Brigitte M." <Brigitte.Fuller@wilsonco.com>



"Fuller, Brigitte M."
<Brigitte.Fuller@wilsonco.com>
06/22/2006 04:31 PM

To <rdourte@cabq.gov>, <aportillo@cabq.gov>
cc <patduettra@mrabq.com>
Subject FW: 12th St and Indian School Project: Developer Memo

Richard and Arlene,

Here is the electronic copy of the letter if you haven't already seen it.

thanks

Brigitte Fuller, P.E.
Project Manager
Wilson & Company, Inc. Engineers & Architects
2600 The American Rd, Suite 100
Rio Rancho, NM 87124
(505) 898-8021 Main
(505) 348-4183 VM
(505) 400-6967 Cell
(505) 898-8501 Fax
bmfuller@wilsonco.com

From: Juan Carlos. Samuel [mailto:jcsamuel@cabq.gov]
Sent: Thursday, June 22, 2006 4:04 PM
To: Fuller, Brigitte M.
Subject: 12th St and Indian School Project: Developer Memo

Brigitte,

Here you go.

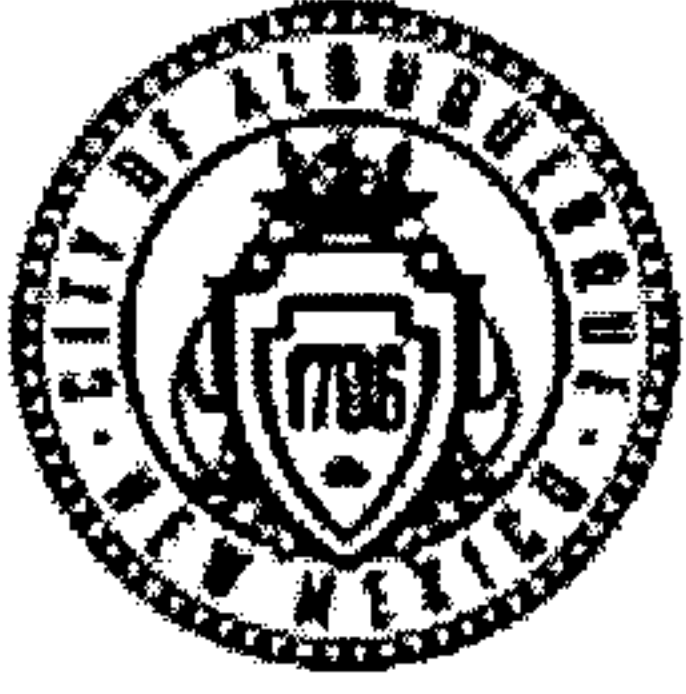
<<Citys' Improvements (Developer).doc>>

Thanks,

Juan Carlos Samuel
DMD Transportation Project Manager
(505) 768-2766 (Phone)



(505) 768-2733 (Fax) Citys' Improvements (Developer).doc



Juan Carlos .
Samuel@Exchange
06/22/2006 02:28 PM

To Richard H. Dourte/PWD/CABQ@COA
cc Arlene V. Portillo/PWD/CABQ@COA, Jane E.
Rael/PWD/CABQ@COA
bcc
Subject RE: 12th St and Indian School Rd Improvements

Richard,

I have attached the requested memo for the developer at 12th and Indian School. Let me know if you need anything else.

<<Citys' Improvements (Developer).doc>>

Thanks,

Juan Carlos Samuel
DMD Transportation Project Manager
(505) 768-2766 (Phone)
(505) 768-2733 (Fax)

From: Richard H. Dourte
Sent: Thursday, June 22, 2006 1:30 PM
To: Juan Carlos. Samuel
Cc: Arlene V. Portillo; Jane E. Rael
Subject: RE: 12th St and Indian School Rd Improvements

Memo will work fine. Please identify the limits of construction, and what is the City's responsibility.

Thanks,

Richard Dourte
Development and Building Services Div.
Planning Dept.

Juan Carlos . Samuel@Exchange

06/22/2006 01:26 PM

To

Richard H. Dourte/PWD/CABQ@COA

cc

Arlene V. Portillo/PWD/CABQ@COA

Subject

RE: 12th St and Indian School Rd Improvements

Richard,

Should this confirmation be written in a letter or memo format?

Thanks,

Juan Carlos Samuel
DMD Transportation Project Manager
(505) 768-2766 (Phone)
(505) 768-2733 (Fax)

From: Richard H. Dourte
Sent: Thursday, June 22, 2006 12:22 PM
To: Fuller, Brigitte M.
Cc: Juan Carlos. Samuel; Jane E. Rael
Subject: Re: 12th St and Indian School Rd Improvements

I am also looking for confirmation that these improvements are the responsibility of the City, and not the developer.

Thanks,
Richard Dourte
Development and Building Services Div.
Planning Dept.

"Fuller, Brigitte M." <Brigitte.Fuller@wilsonco.com>

06/22/2006 12:00 PM

To

<jcsamuel@cabq.gov>

cc

<rdourte@cabq.gov>

Subject

12th St and Indian School Rd Improvements

Juan Carlos,

Richard Dourte and Arlene Portillo are requesting documentation for the public infrastructure improvements to 12th St and Indian School Rd in conjunction with the proposed Lowe's/Walgreens that states they were built to City standards. Richard needs confirmation from you that this work was completed and accepted by the City. Could you please reply to all with this email. Your response will also be verification for completion of the infrastructure list items for DRB Project No.1002805 and as part of the "close out" package for City Project No. 732781.

Thank you for you assistance.

Brigitte Fuller, P.E.

Project Manager

Wilson & Company, Inc. Engineers & Architects

2600 The American Rd, Suite 100

Rio Rancho, NM 87124

(505) 898-8021 Main

(505) 348-4183 VM

(505) 400-6967 Cell

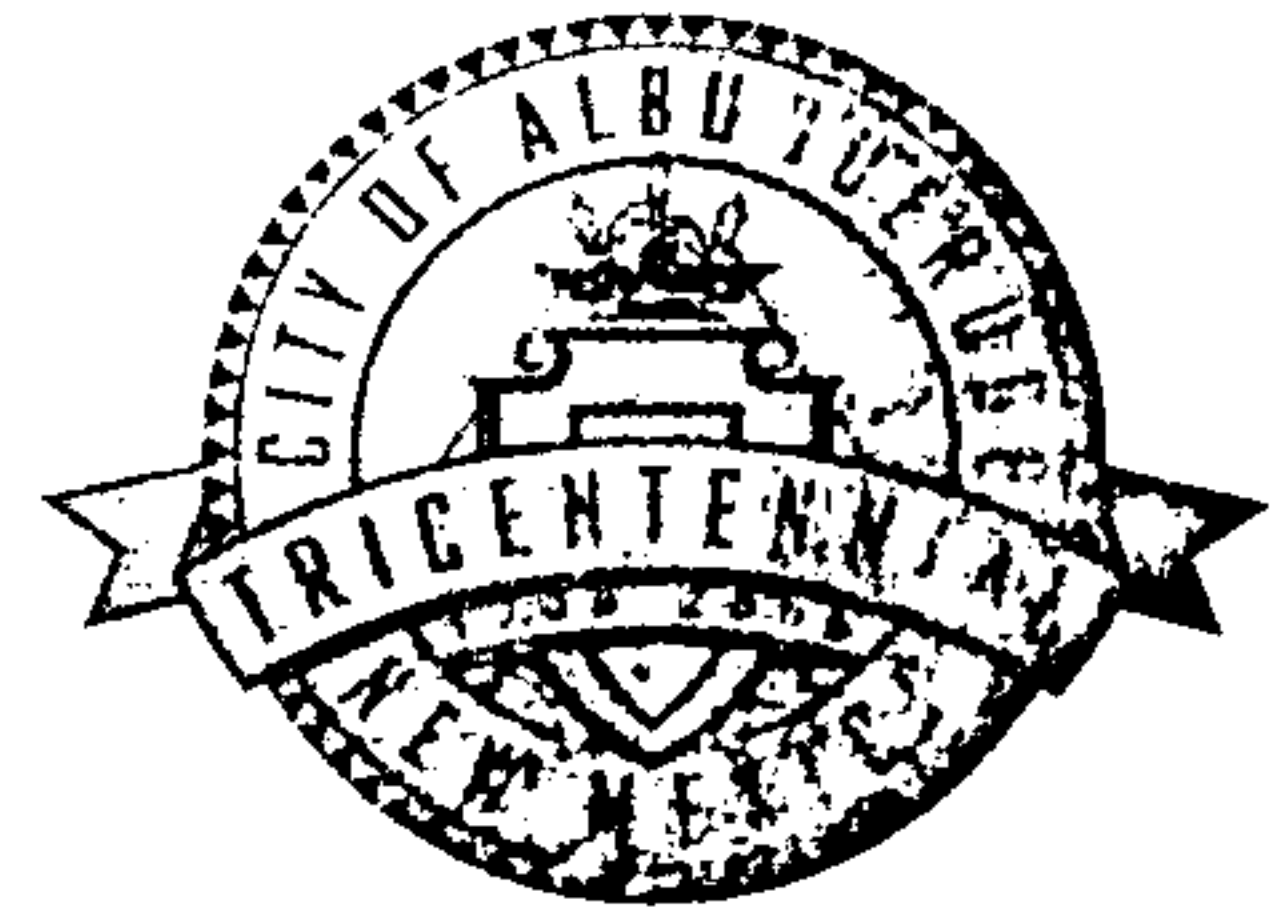
(505) 898-8501 Fax

bmfuller@wilsonco.com



Citys'
Improvements (Developer).doc

CITY OF ALBUQUERQUE



**Planning Department
Transportation Development Services Section**

June 22, 2006

Brigitte Fuller, P.E.,
Wilson & Company, Inc.
2600 American Road, Ste. 100
Albuquerque, NM 87124

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Walgreens at 12th/Indian School, [H-13 / D1]
2011 12th St. NW
Engineer's Stamp Dated 06/21/06

Dear Mr. Fuller:

Based on the information provided on your submittal dated June 22, 2006, the above referenced project is approved for a 30-day Temporary C.O.

A Temporary C.O. has been issued allowing outstanding issues to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

The Certification package for Final C.O. must include an exact copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE



June 22, 2006

Ms. Brigitte Fuller, P.E.
WILSON & COMPANY
2600 American Road, Ste 100
Rio Rancho, NM 87124

Re: WALGREENS @ 12th & INDIAN SCHOOL ROAD
2011 12th Street NW
Approval of Temporary Certificate of Occupancy (C.O.)
Engineer's Stamp dated 04/03/2005 (H-13/D1)
Certification dated 06/21/2006

P.O. Box 1293

Dear Brigitte,

Albuquerque

Based upon the information provided in your submittal received 06/22/2006, the above referenced certification is approved for release of 30-day Temporary Certificate of Occupancy by Hydrology.

New Mexico 87103

Upon receipt of a copy of the Certificate of Work Order Completion and the City Engineer Certificate of Completion and Acceptance, a Permanent C.O. will be issued from Hydrology.

www.cabq.gov

If you have any questions, you can contact me at 924-3982.

Sincerely,

Arlene V. Portillo

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

C: C.O. Clerk
File



City of Albuquerque

Department of Municipal Development

Martin Chavez, Mayor

Interoffice Memorandum

June 22th, 2006

To: Richard Dourte, COA City Engineer

From: Juan Carlos Samuel, DMD Project Manager JCS

Subject: 12th St and Indian School Rd Improvements: For Lowes of Central Albuquerque, City Project No. 732781

Dear Richard:

The City has accepted the responsibility to construct the paving improvements identified for the project referenced above as indicated on the DRB infrastructure list for DRB project no. 1002805 approved 2-18-04.

As of April 2006, the Department of Municipal Development Transportation Division has completed roadway improvements for the referenced project. The roadway improvements associated with this project included: a new left turn lane and right turn lane into the new Lowe's development, pavement installation, sidewalk, curb and gutter, median curb and gutter, drivepads, and permanent striping and signing.

xc: Arlene Portillo, COA Planning Dept.
Robert Kane, COA Construction Services Division
Brigitte Fuller, Wilson and Co.

CITY OF ALBUQUERQUE



**Planning Department
Transportation Development Services Section**

June 22, 2006

Brigitte Fuller, P.E.,
Wilson & Company, Inc.
2600 American Road, Ste. 100
Albuquerque, NM 87124

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Walgreens at 12th/Indian School , [H-13 / D1]
2011 12th St. NW
Engineer's Stamp Dated 06/21/06

Dear Mr. Fuller:

Based on the information provided on your submittal dated June 22, 2006, the above referenced project is approved for a 30-day Temporary C.O.

A Temporary C.O. has been issued allowing outstanding issues to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

The Certification package for Final C.O. must include an **exact** copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

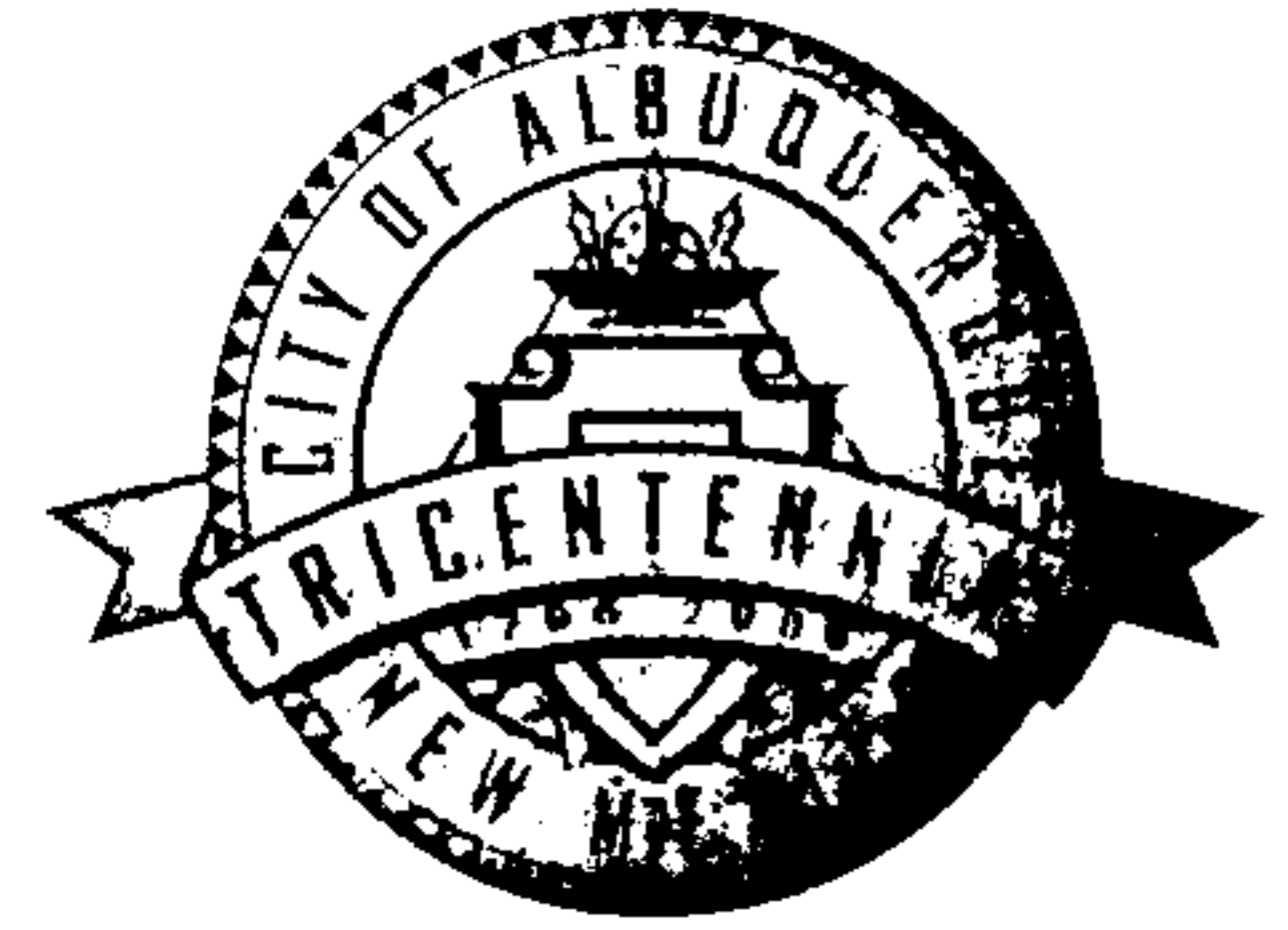
P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE



May 24, 2007

Ms. Brigitte Fuller, P.E.
Wilson & Company, Inc.
2600 American Rd, Ste 100
Rio Rancho, NM 87124

**Re: Lowes-12th & Indian School, 2001 12th Street,
Approval of 90 Day Temporary Certificate of Occupancy (C.O.)
Engineer's Stamp dated 4/3/05 (H13/D001)
Certification dated 5/23/07**

Based upon the information provided in your submittal received 5/23/07, the above referenced certification is approved for release of 90-day Temporary Certificate of Occupancy by Hydrology.

P.O. Box 1293

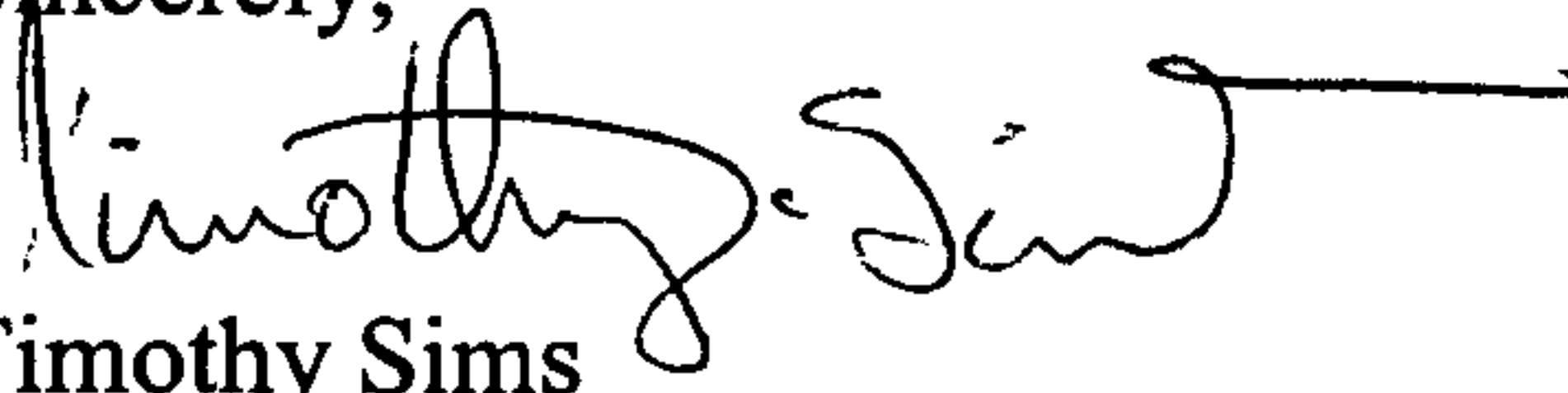
The address is required for all certificate of occupancy submittals.

Albuquerque

If you have any questions, you can contact me at 924-3982.

Sincerely,

New Mexico 87103

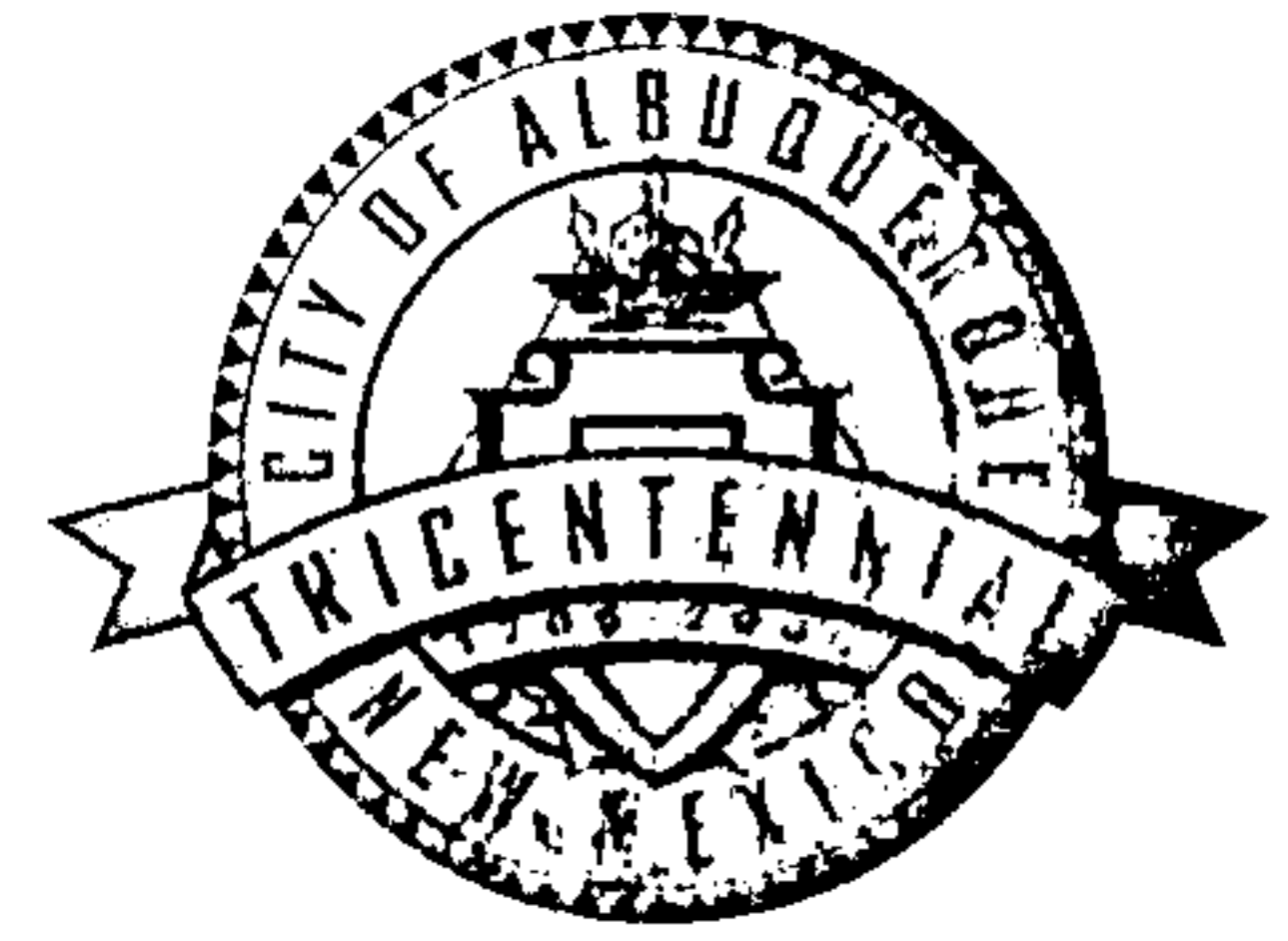

Timothy Sims
Plan Checker-Hydrology
Development and Building Services

www.cabq.gov

C: CO Clerk-Katrina Sigala
File



CITY OF ALBUQUERQUE



May 24, 2007

Bridgette Fuller, P.E.
Wilson & Company
2600 The American Road SE
Rio Rancho, NM 87124

**Re: Lowes-12th Street & Indian School, 2001 12th Street NW,
Approval of 90 Day Temporary Certificate of Occupancy
Engineer's Stamp dated 02-18-04 (H-13-D001)
Certification dated 5-23-07**

Dear Ms. Fuller,

P.O. Box 1293

Based upon the information provided in your submittal received 5-23-07, the above referenced certification is approved for release of 90 Day Temporary Certificate of Occupancy by Transportation Development.

Albuquerque

If you have any questions, you can contact me at 924-3991.

New Mexico 87103

Sincerely,

Wilfred Gallegos, P.E.
Traffic Engineer, Transportation
Development and Building Services

www.cabq.gov

C: CO Clerk-Katrina Sigala
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 27, 2004

Brigitte Fuller, PE
Wilson & Company
2600 American Rd, SE, Ste. 100
Rio Rancho, NM 87124

**Re: Lowe's Central Albuquerque Drainage Report
Engineer's Stamp dated 1-23-04 (H13/D1)**

Dear Ms. Fuller,

Based on information contained in your submittal dated 1-23-04, the above referenced plan is approved for Site Development Plan for Building Permit action by the DRB. Prior to Building Permit approval, please resubmit the grading Plan denoting what will be built by Work Order.

If you have any questions, please contact me at 924-3986.

Sincerely,

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

C: file

Drainage Report
for
Lowe's Central Albuquerque
Albuquerque, New Mexico
January 2004

Prepared for:
Lowe's Home Centers, Inc.
Hwy. 268 East, East Dock
North Wilkesboro, North Carolina 28659

Prepared by:
Wilson & Company
2600 The American Rd. SE, Suite 100
Rio Rancho, New Mexico 87124

WCEA Project No. X3-218-004

Drainage Report
for
Lowe's Central Albuquerque
Albuquerque, New Mexico
January 2004

I, Brigitte M. Fuller, P.E., do hereby certify that this report was prepared by me or under my direction and that I am a duly registered Professional Engineer under the laws of the State of New Mexico

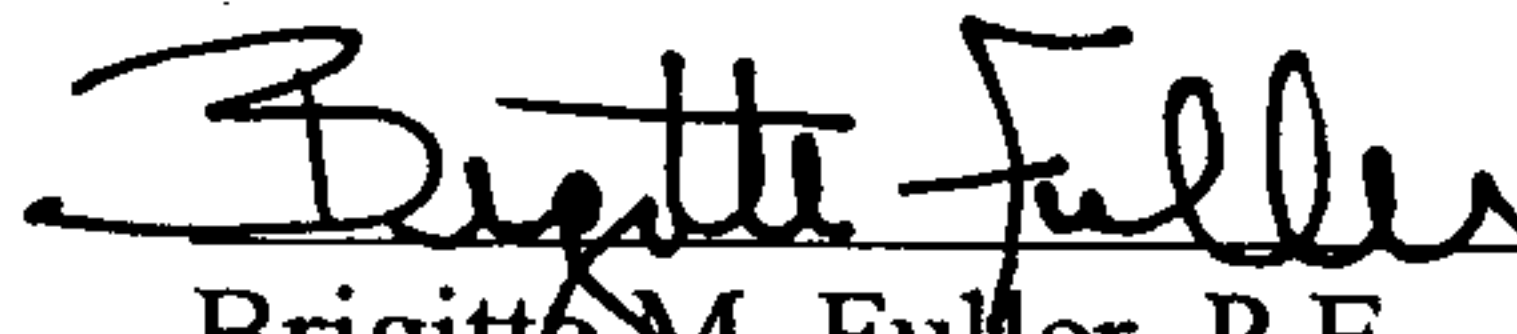
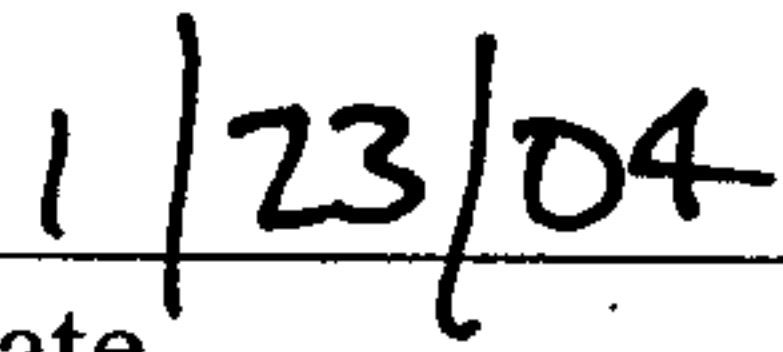

Brigitte M. Fuller, P.E.
NMPE No. 15102

Date



TABLE OF CONTENTS

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Introduction.....	1
Methodology	1
Existing Conditions.....	1
Proposed Conditions	1

LIST OF APPENDICES

- Appendix A – Calculations
- Appendix B – Existing Basin Boundary Plan
- Proposed Basin Boundary Plan
- Grading and Drainage Sheet

Introduction

The purpose of this report is to clarify all drainage issues, both existing and proposed, relating to the proposed development of a Lowe's Home Improvement Warehouse and Walgreen's Drugstore. The project site is bounded by Indian School to the North, 12th Street to the East, Interstate 40 to the South and Albuquerque Job Corp Center to the West. The site is comprised of 13.52 acres, all of which is currently developed. The proposed development will include a Lowe's Home Improvement Warehouse and Walgreen's Drugstore with all the associated parking and landscaping improvements. The Lowe's main building will consist of 135,152 square-feet and a 28,206 square-foot garden center. The Walgreen's main building will consist of 15,882 square-feet.

Methodology

AHYMO and chapter 22, section 2 of the City of Albuquerque Development Process Manual was used to determine the existing and post-development flows for the given 2-year, 10-year and 100-year, 24-hour storm event. This information was then entered into the AHYMO Input file using the ROUTE RESERVOIR command in order to attain the allowable discharge into the existing drainage system. AHYMO input, summary information and hydrology summary table can be found in Appendix A. Hydraflow Storm Sewer version 2003 was used to calculate the proposed storm drain pipe sizes. See calculations in Appendix A.

Existing Conditions

The project site consists of 13.52 Acres all of which is developed. There is currently a Walgreen's Drugstore and retail shops on site. There are two infiltration ponds on site which retain most of the flows. Based on the existing data and AHYMO calculations approximately 8.39 cfs is discharged into Indian School Road and from the northeasterly corner of the site into existing storm drain in 12th Street. See Appendix B for basin boundary.

Proposed Conditions

All the existing structures will be demolished and replaced with a Lowe's Home Improvement Warehouse and Walgreen's Drugstore with associated parking lot and landscaped areas. It is proposed that all the runoff from the entire project site to be detained in an underground drainage system and discharged through a lift station at a rate of 2 cfs into the existing drainage system which is located at the northeasterly corner of the site on 12th Street. See Appendix A for calculation sheets and Appendix B for grading and drainage sheet.

2
13.52

Appendix A

Calculations

HYDROLOGY SUMMARY

PROJECT NAME:		Lowe's Central Albuquerque										100 YEAR									
JOB NUMBER:		X3218004										10 YEAR									
BASIN	COND.	DESCRIPTION	AREA (acres)	LAND TREATMENTS				2 YEAR			10 YEAR			100 YEAR							
				A	B	C	D	Q (cfs)	VOLUME (ac.ft.) 6 HR	VOLUME (ac.ft.) 24 HR	Q (cfs)	VOLUME (ac.ft.) 6 HR	VOLUME (ac.ft.) 24 HR	Q (cfs)	VOLUME (ac.ft.) 6 HR	VOLUME (ac.ft.) 24 HR	VOLUME (ac.ft.) 10 DAY				
1	Existing	Lowe's Central Albuquerque	6.3200	0.0%	15.0%	2.5%	82.5%	9.87	0.3468	0.4222	17.54	0.6112	0.7271	27.16	0.9976	1.1714	1.6928				
2	Existing	Lowe's Central Albuquerque	5.1700	0.0%	15.0%	2.5%	82.5%	8.07	0.2837	0.3454	14.35	0.5000	0.5948	22.22	0.8161	0.9583	1.3848				
3	Existing	Lowe's Central Albuquerque	2.0300	0.0%	15.0%	2.5%	82.5%	3.17	0.1114	0.1356	5.63	0.1983	0.2336	8.72	0.3204	0.3763	0.5437				
4	Proposed	Lowe's Central Albuquerque	13.5200	0.0%	15.0%	2.5%	82.5%	21.11	0.7419	0.9033	37.53	1.3075	1.5555	58.11	2.1342	2.5060	3.6214				

INPUT DATA:

PRECIP. ZONE	RAINFALL DEPTHS (INCHES) AT 100-YEAR STORM			
	1 HOUR	6 HOUR	24 HOUR	4 DAY
2	2.01	2.35	2.75	3.30

ex2yr.txt

*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
*** EXISTING CONDITIONS RUNOFF MODEL ***

*** DESIGN STORM IS THE 2 YEAR - 24 HOUR STORM

*** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START TIME = 0

COMPUTING RAINFALL

RAINFALL TYPE = 2

RAIN QUARTER = 0.00 INCHES

RAIN ONE HOUR = 0.872

RAIN SIX HOUR = 1.020

RAIN DAY= 1.193

DT = 0.03333 HOURS

COMPUTING TP FOR BASIN EX-101

COMPUTE LT TP

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SLOPE=0.003

K=0.7

LENGTH=570 FT

SLOPE=0.003

K=2

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*S

COMPUTE NM HYD

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HYDNO=101 DA=0.0098 SQ MI

PERCENT A=0 B=15 C=2.5 D=82.5

TP=0.0 HOURS MASSRAIN=-1

PRINT HYD

ID=1

CODE=5

COMPUTING TP FOR BASIN EX-102

COMPUTE LT TP

LCODE=1 NK=2

ISLOPE=0

LENGTH=400 FT

SLOPE=0.003

K=0.7

LENGTH=70 FT

SLOPE=0.003

K=2

*S*** COMPUTING HYD FOR BASIN EX-102

*S

COMPUTE NM HYD

ID=2

HYDNO=102 DA=0.0081 SQ MI

PERCENT A=0 B=15 C=2.5 D=82.5

Page 1

ex2yr.txt
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=2 CODE=5

COMPUTING TP FOR BASIN EX-103

COMPUTE LT TP

LCODE=1 NK=1

ISLOPE=0

LENGTH=300 FT

SLOPE=0.003

K=0.7

*S*** COMPUTING HYD FOR BASIN EX-103

*S

COMPUTE NM HYD

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HYDNO=103 DA=0.0032 SQ MI

PERCENT A=0 B=15 C=2.5 D=82.5

TP=0.0 HOURS MASSRAIN=-1

PRINT HYD

ID=3

CODE=5

FINISH

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- VERSION: 1997.02c

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PER	HYDROGRAPH	ID	ID	DISCHARGE	VOLUME	PEAK
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	NOTATION					(INCHES)
						(HOURS)
START						
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	*S					
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*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
 *** EXISTING CONDITIONS RUNOFF MODEL ***

 *** DESIGN STORM IS THE 10 YEAR - 24 HOUR STORM

 *** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START TIME = 0

COMPUTING RAINFALL

RAINFALL TYPE = 2

RAIN QUARTER = 0.00 INCHES

RAIN ONE HOUR = 1.341

RAIN SIX HOUR = 1.567

RAIN DAY= 1.834

DT = 0.03333 HOURS

COMPUTING TP FOR BASIN EX-101

COMPUTE LT TP

LCODE=1 NK=2 ISLOPE=0
 LENGTH=400 FT SLOPE=0.003 K=0.7
 LENGTH=570 FT SLOPE=0.003 K=2

*S*** COMPUTING HYD FOR BASIN EX-101

*S

COMPUTE NM HYD ID=1 HYDNO=101 DA=0.0098 SQ MI
 PERCENT A=0 B=15 C=2.5 D=82.5
 TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=1 CODE=5

COMPUTING TP FOR BASIN EX-102

COMPUTE LT TP

LCODE=1 NK=2 ISLOPE=0
 LENGTH=400 FT SLOPE=0.003 K=0.7
 LENGTH=70 FT SLOPE=0.003 K=2

*S*** COMPUTING HYD FOR BASIN EX-102

*S

COMPUTE NM HYD ID=2 HYDNO=102 DA=0.0081 SQ MI
 PERCENT A=0 B=15 C=2.5 D=82.5

ex10yr.txt
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=2 CODE=5

COMPUTING TP FOR BASIN EX-103

COMPUTE LT TP

LCODE=1 NK=1 ISLOPE=0
LENGTH=300 FT SLOPE=0.003 K=0.7

*S*** COMPUTING HYD FOR BASIN EX-103

*S

COMPUTE NM HYD

ID=3

HYDNO=103 DA=0.0032 SQ MI
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TP=0.0 HOURS MASSRAIN=-1

PRINT HYD

ID=3

CODE=5

FINISH

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- VERSION: 1997.02c

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RAINFALL TYPE= 2						
RAIN24= 1.834						
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*S						
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*S*** COMPUTING HYD FOR BASIN EX-102						
*S						
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*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
*** EXISTING CONDITIONS RUNOFF MODEL ***

*** DESIGN STORM IS THE 100 YEAR - 24 HOUR STORM

*** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START TIME = 0

*** COMPUTING RAINFALL

RAINFALL TYPE = 2

RAIN QUARTER = 0.00 INCHES

RAIN ONE HOUR = 2.01

RAIN SIX HOUR = 2.35

RAIN DAY= 2.75

DT = 0.03333 HOURS

*** COMPUTING TP FOR BASIN EX-101

COMPUTE LT TP

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LENGTH=570 FT SLOPE=0.003 K=2

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*S

COMPUTE NM HYD ID=1 HYDNO=101 DA=0.0098 SQ MI
PERCENT A=0 B=15 C=2.5 D=82.5
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=1 CODE=5

*** COMPUTING TP FOR BASIN EX-102

COMPUTE LT TP

LCODE=1 NK=2 ISLOPE=0
LENGTH=400 FT SLOPE=0.003 K=0.7
LENGTH=70 FT SLOPE=0.003 K=2

*S*** COMPUTING HYD FOR BASIN EX-102

*S

COMPUTE NM HYD ID=2 HYDNO=102 DA=0.0081 SQ MI
PERCENT A=0 B=15 C=2.5 D=82.5

ex100yr.txt
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=2 CODE=5

COMPUTING TP FOR BASIN EX-103

COMPUTE LT TP LCODE=1 NK=1 ISLOPE=0
LENGTH=300 FT SLOPE=0.003 K=0.7

*S*** COMPUTING HYD FOR BASIN EX-103
*S

COMPUTE NM HYD ID=3 HYDNO=103 DA=0.0032 SQ MI
PERCENT A=0 B=15 C=2.5 D=82.5
TP=0.0 HOURS MASSRAIN=-1

PRINT HYD ID=3 CODE=5

FINISH

ex100yr- summary.txt

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
(MON/DAY/YR) =01/05/2004

- VERSION: 1997.02c RUN DATE

INPUT FILE = T:\Projects\X3218004\Eng\Ahymo\ex100yr.txt
AHYMO-C-9803c01UNMLIB-AH

USER NO.=

CFS	PAGE = 1	FROM	TO	PEAK	RUNOFF	TIME TO		
PER	HYDROGRAPH	ID	ID	DISCHARGE	VOLUME	PEAK		
ACRE	COMMAND IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)
START								
TIME= .00								
RAINFALL TYPE= 2								
RAIN24= 2.750								
*S*** COMPUTING HYD FOR BASIN EX-101								
*S								
2.867	COMPUTE NM HYD	101.00	- 1	.00980	17.98	1.128	2.15819	1.667
PER IMP= 82.50								
*S*** COMPUTING HYD FOR BASIN EX-102								
*S								
3.478	COMPUTE NM HYD	102.00	- 2	.00810	18.03	.933	2.16010	1.567
PER IMP= 82.50								
*S*** COMPUTING HYD FOR BASIN EX-103								
*S								
4.094	COMPUTE NM HYD	103.00	- 3	.00320	8.39	.369	2.16147	1.500
PER IMP= 82.50								
FINISH								

P2yr.txt
*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
*** PROPOSED CONDITIONS RUNOFF MODEL ***

*** DESIGN STORM IS THE 2 YEAR - 24 HOUR STORM

*** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START TIME = 0

*** COMPUTING RAINFALL

RAINFALL TYPE = 2

RAIN QUARTER = 0.00 INCHES

RAIN ONE HOUR = 0.872

RAIN SIX HOUR = 1.020

RAIN DAY= 1.193

DT = 0.03333 HOURS

*** COMPUTING TP FOR PROPOSED BASIN 201- TOTAL SITE

AREA

COMPUTE LT TP

LCODE=1 NK=2

ISLOPE=0

LENGTH=400 FT

SLOPE=0.003

K=0.7

LENGTH=100 FT

SLOPE=0.003

K=2

*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA

*S

COMPUTE NM HYD

ID=1

HYDNO=201 DA=0.0211 SQ MI

PERCENT A=0 B=15 C=2.5 D=82.5

TP=0.0 HR MASSRAIN=-1

PRINT HYD

ID=1

CODE=5

FINISH

P2yr- summary.txt

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
(MON/DAY/YR) =01/13/2004

- VERSION: 1997.02c RUN DATE

INPUT FILE = T:\Projects\X3218004\Eng\Ahymo\P2yr.txt
AHYMO-C-9803c01UNMLIB-AH

USER NO.=

CFS	PAGE = 1	FROM	TO	PEAK	RUNOFF	TIME TO
PER	HYDROGRAPH	ID	ID	AREA	DISCHARGE	PEAK
ACRE	COMMAND IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(HOURS)
	NOTATION				(AC-FT)	(INCHES)
START						
TIME= .00						
RAINFALL TYPE= 2						
RAIN24= 1.193						
*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA						
*S						
1.310	COMPUTE NM HYD	201.00	-	1	.02110	17.69
	PER IMP= 82.50					.879
	FINISH					.78138
						1.600

P10yr.txt
*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
*** PROPOSED CONDITIONS RUNOFF MODEL ***

*** DESIGN STORM IS THE 10 YEAR - 24 HOUR STORM

*** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START TIME = 0

COMPUTING RAINFALL

RAINFALL TYPE = 2

RAIN QUARTER = 0.00 INCHES

RAIN ONE HOUR = 1.341

RAIN SIX HOUR = 1.567

RAIN DAY= 1.834

DT = 0.03333 HOURS

COMPUTING TP FOR PROPOSED BASIN 201- TOTAL SITE

AREA

COMPUTE LT TP

LCODE=1 NK=2 ISLOPE=0
LENGTH=400 FT SLOPE=0.003 K=0.7
LENGTH=100 FT SLOPE=0.003 K=2

*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA
*S

COMPUTE NM HYD ID=1 HYDNO=201 DA=0.0211 SQ MI
PERCENT A=0 B=15 C=2.5 D=82.5
TP=0.0 HR MASSRAIN=-1

PRINT HYD ID=1 CODE=5

FINISH

P10yr- summary.txt

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
(MON/DAY/YR) =01/20/2004

- VERSION: 1997.02c RUN DATE

INPUT FILE = T:\Projects\X3218004\Eng\Ahymo\P10yr.txt
AHYMO-C-9803c01UNMLIB-AH

USER NO.=

CFS	PAGE = 1	FROM	TO	PEAK	RUNOFF	TIME TO		
PER	HYDROGRAPH	ID	ID	DISCHARGE	VOLUME	PEAK		
ACRE	COMMAND IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)

START

TIME= .00

RAINFALL TYPE= 2

RAIN24= 1.834

*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA

*S

2.171	COMPUTE NM HYD	201.00	-	1	.02110	29.32	1.503	1.33534	1.567
	PER IMP= 82.50								
	FINISH								

*** LOWE'S OF CENTRAL ALBUQUERQUE, NEW MEXICO ***
 *** PROPOSED CONDITIONS RUNOFF MODEL ***

*** DESIGN STORM IS THE 100 YEAR - 24 HOUR STORM

*** COA DPM TYPE 2, 24 HOUR STORM WITH A PEAK INTENSITY AT 1.4 HOURS

START

TIME = 0

COMPUTING RAINFALL

RAINFALL

TYPE = 2

RAIN QUARTER = 0.00 INCHES

RAIN ONE HOUR = 2.01

RAIN SIX HOUR = 2.35

RAIN DAY= 2.75

DT = 0.03333 HOURS

COMPUTING TP FOR PROPOSED BASIN 201- TOTAL SITE

AREA

COMPUTE LT TP

LCODE=1 NK=2

ISLOPE=0

LENGTH=400 FT

SLOPE=0.003

K=0.7

LENGTH=100 FT

SLOPE=0.003

K=2

*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA

*S

COMPUTE NM HYD

ID=1

HYDNO=201 DA=0.0211 SQ MI

PERCENT A=0 B=15 C=2.5 D=82.5

TP=0.0 HR MASSRAIN=-1

PRINT HYD

ID=1

CODE=5

*S ROUTE THROUGH UNDERGROUND DETENTION (1750 LF)

ROUTE RESERVOIR

ID=2

HYD=202

INFLOW ID=1

CODE=1

OUTFLOW(cfs) STORAGE(AC FT) ELEV(FT)

0 0 0.0

1.90 0.051 0.5

1.91 0.141 1.0

Page 1

	P100yr.txt	
1.92	0.252	1.5
1.93	0.380	2.0
1.94	0.518	2.5
1.96	0.663	3.0
1.98	0.812	3.5
1.99	0.963	4.0
2.00	1.112	4.5
2.01	1.257	5.0
2.00	1.395	5.5
2.00	1.522	6.0
2.00	1.634	6.5
2.00	1.724	7.0
2.00	1.775	7.5

PRINT HYD ID=2 CODE=5

FINISH

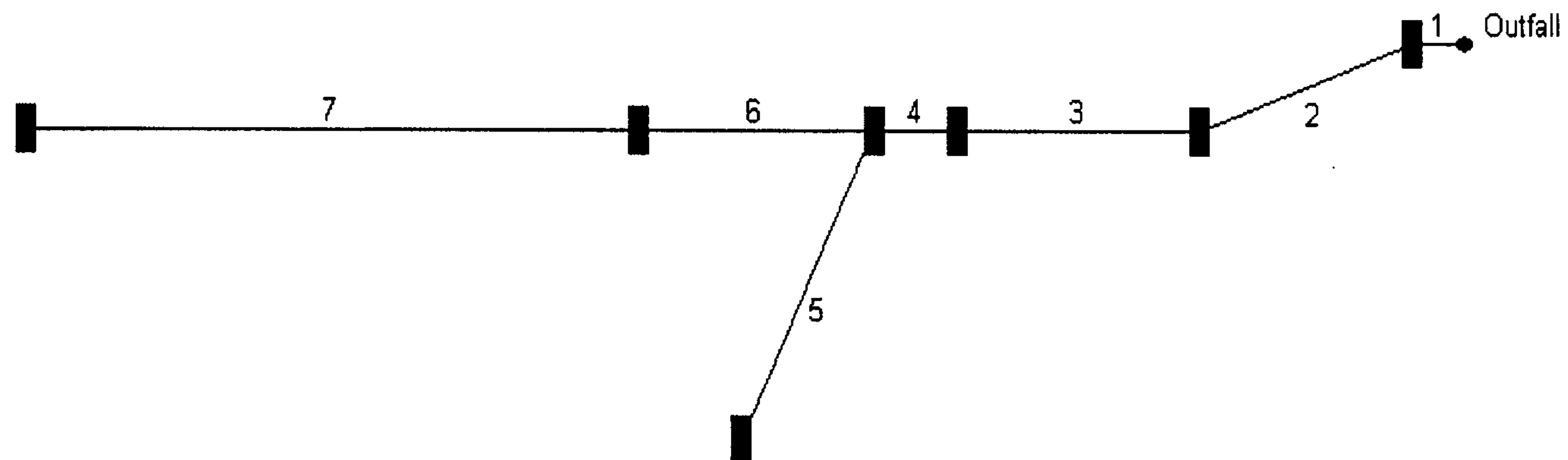
P100yr- summary.txt

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
 (MON/DAY/YR) =01/13/2004
 INPUT FILE = T:\Projects\X3218004\Eng\Ahymo\P100yr.txt
 AHYMO-C-9803c01UNMLIB-AH

- VERSION: 1997.02c RUN DATE
 USER NO.=

CFS	PAGE = 1	FROM	TO	PEAK	RUNOFF	TIME TO
PER	HYDROGRAPH	ID	ID	DISCHARGE	VOLUME	PEAK
ACRE	COMMAND IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)
	NOTATION					(INCHES)
						(HOURS)
START						
TIME= .00						
RAINFALL TYPE= 2						
RAIN24= 2.750						
*S*** COMPUTING HYD FOR PROP BASIN 201 - TOTAL SITE AREA						
*S						
3.418	COMPUTE NM HYD	201.00	- 1	.02110	46.15	2.431
	PER IMP= 82.50					2.15997
	*S ROUTE THROUGH UNDERGROUND DETENTION (1750 LF)					1.567
.149	ROUTE RESERVOIR	202.00	1 2	.02110	2.01	2.425
	AC-FT= 1.257					2.15521
	FINISH					6.666

Hydraflow Plan View



Project file: East SD.stm

No. Lines: 7

03-30-2004

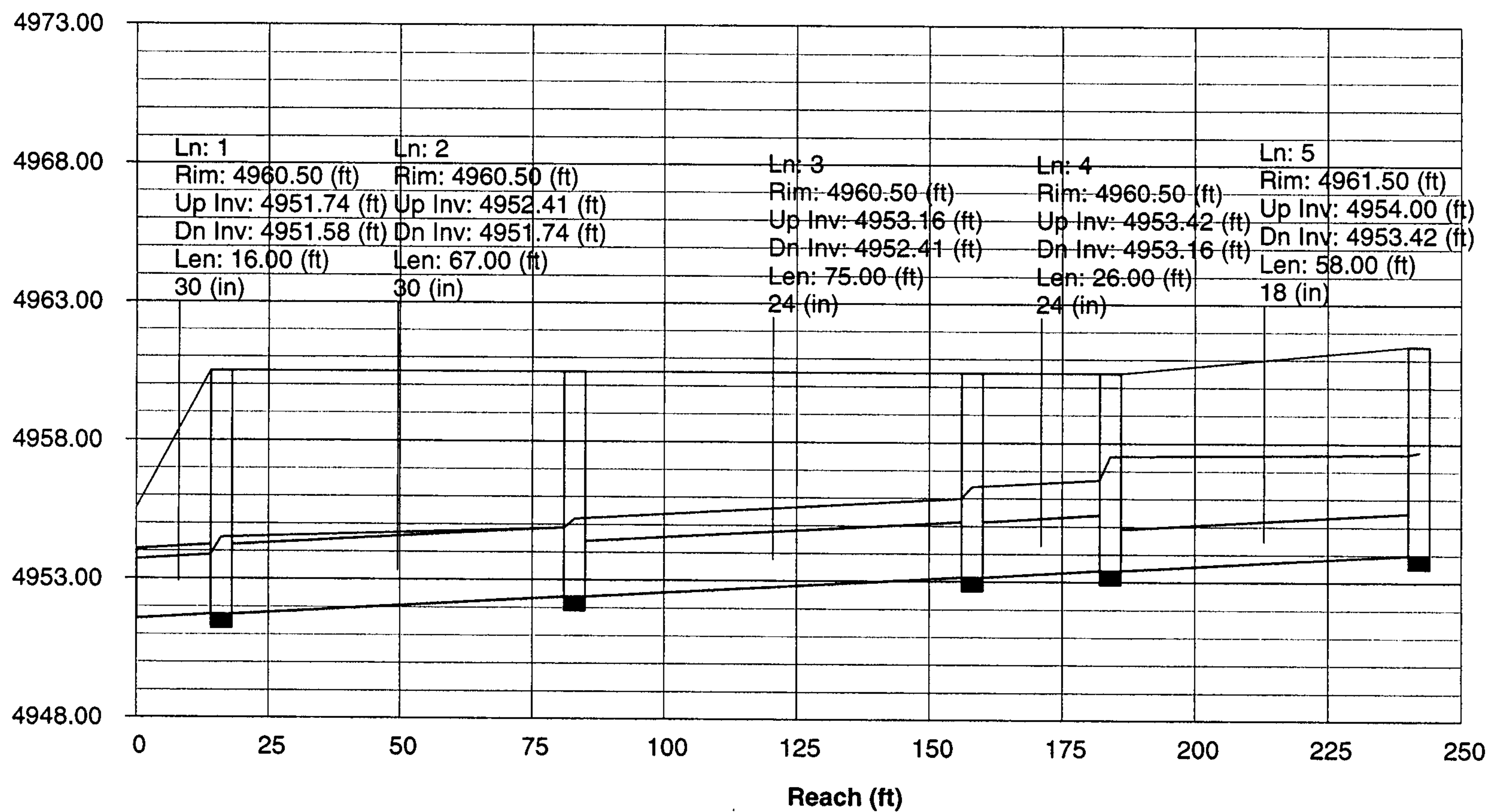
Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
7		11.16	24 c	191.0	4954.15	4955.10	0.497	4958.23*	4958.69*	0.20	6
6		17.41	24 c	73.0	4953.42	4954.15	1.000	4957.56*	4957.99*	0.24	4
5		4.09	18 c	58.0	4953.42	4954.00	1.000	4957.56*	4957.65*	0.08	4
4		22.31	24 c	26.0	4953.16	4953.42	0.999	4956.44*	4956.69*	0.86	3
3		23.19	24 c	75.0	4952.41	4953.16	1.000	4955.23*	4956.02*	0.42	2
2		31.54	30 c	67.0	4951.74	4952.41	1.000	4954.52	4954.91	0.32	1
1		40.48	30 c	16.0	4951.58	4951.74	1.001	4953.73	4953.89	0.63	End
Project File: East SD.stm						Number of lines: 7			Run Date: 03-30-2004		
NOTES: c = circular; e = elliptical; b = box; Return period = 100 Yrs.; * Indicates surcharge condition.											

Storm Sewer Profile

Proj. file: East SD.stm

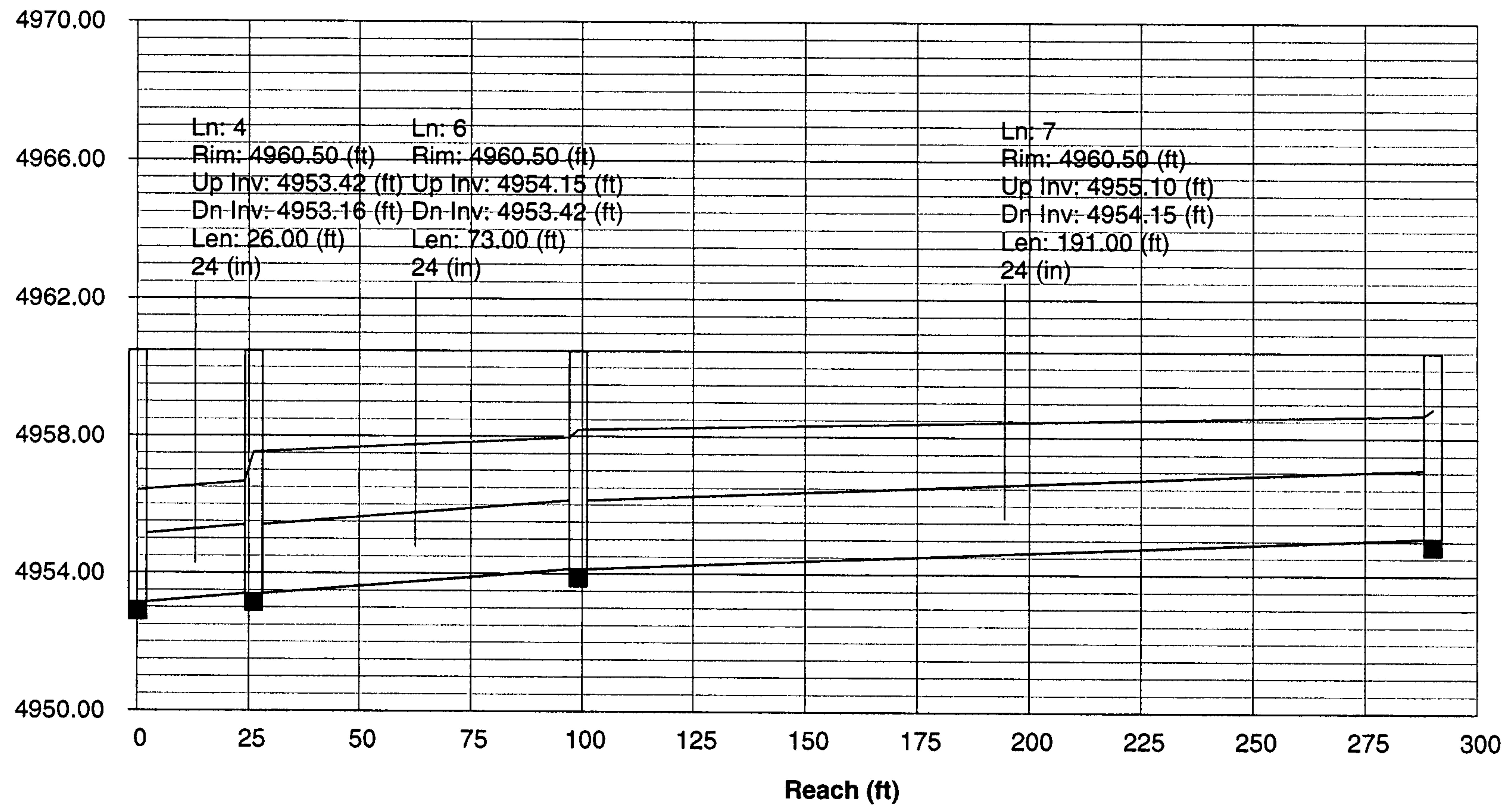
Elev. (ft)



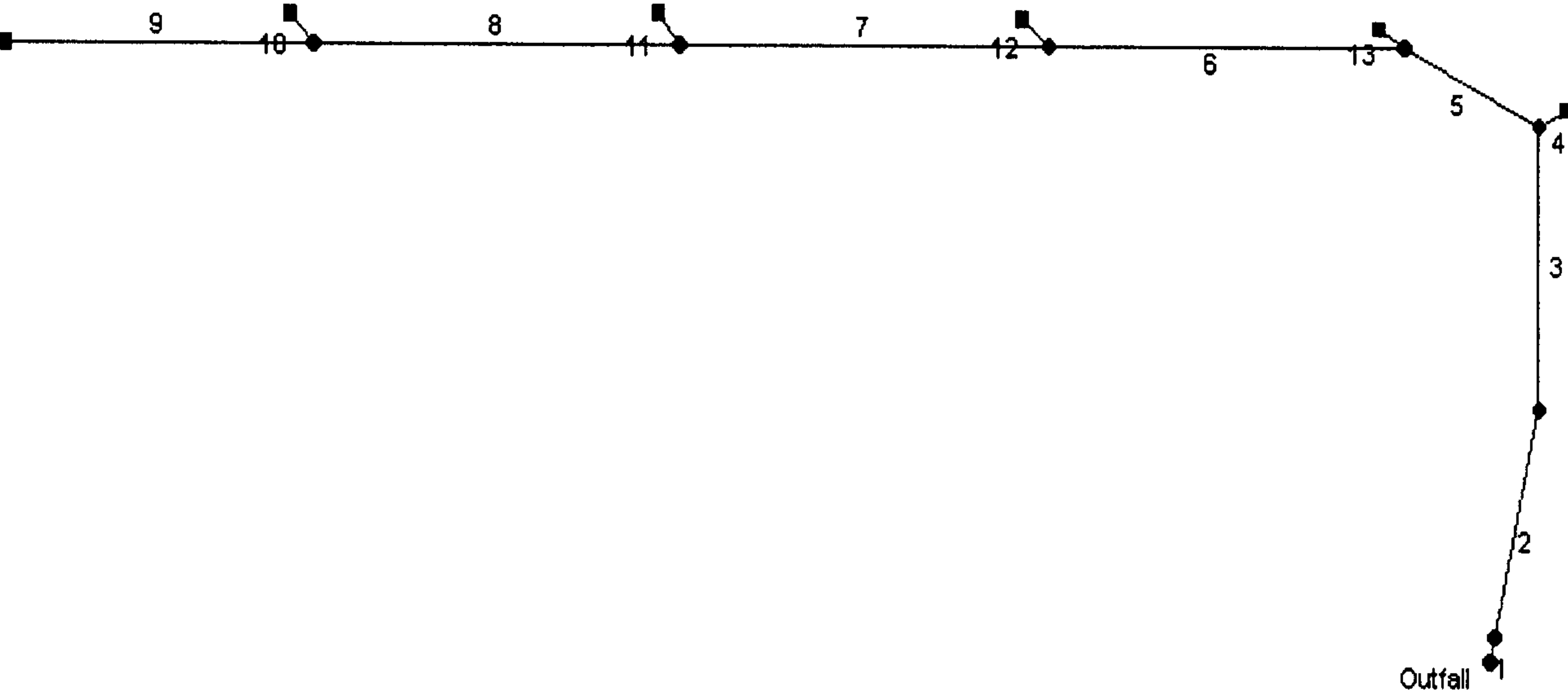
Storm Sewer Profile

Proj. file: East SD.stm

Elev. (ft)



Hydraflow Plan View



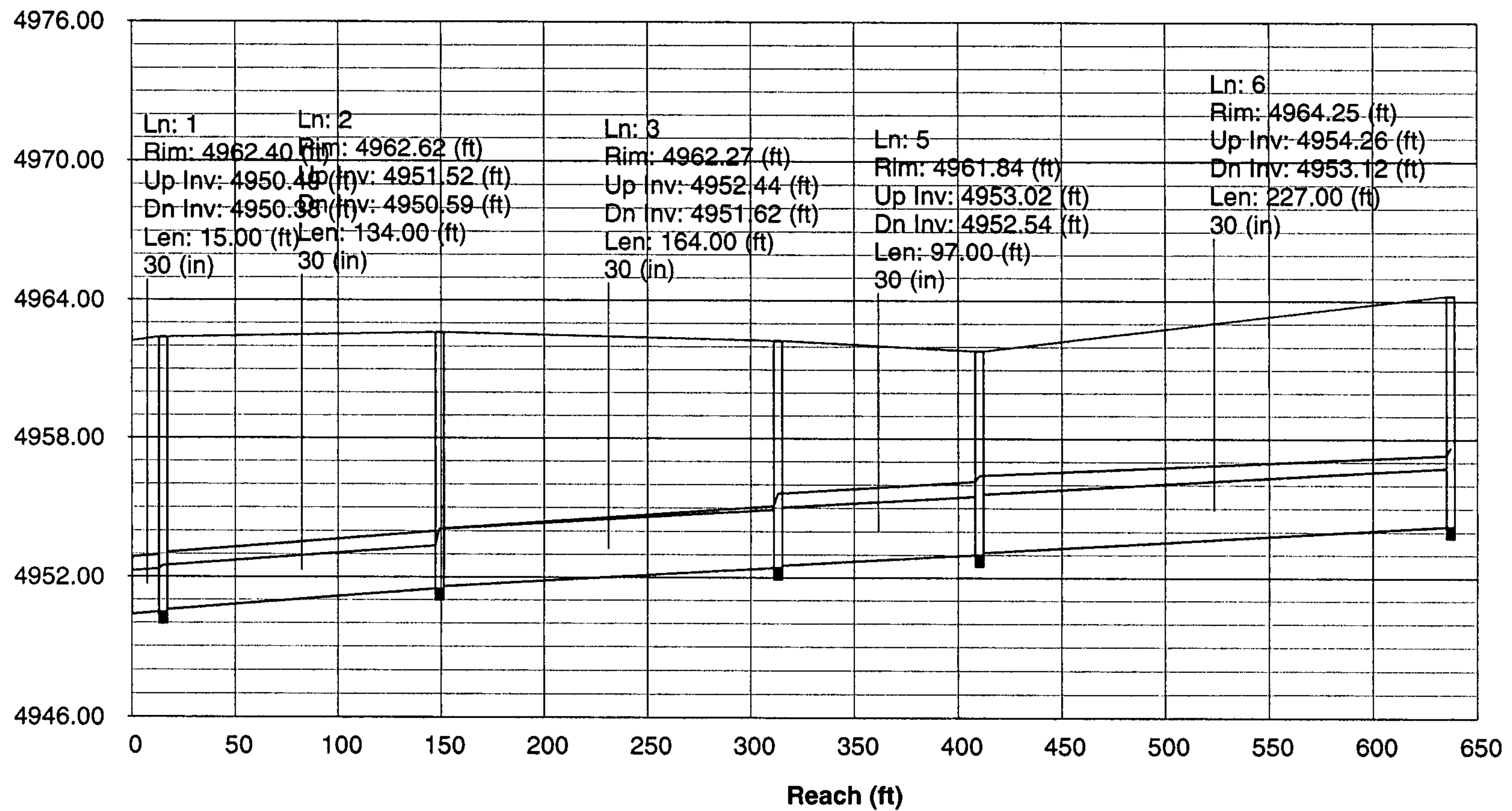
Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
13		4.21	18 c	20.0	4955.80	4956.00	1.001	4956.46	4956.79	0.31	5
12		6.37	18 c	23.0	4957.47	4957.70	1.000	4958.31	4958.69	0.41	6
11		9.93	18 c	23.0	4957.19	4957.42	1.000	4958.35	4958.63	0.66	7
10		6.31	18 c	23.0	4957.25	4957.48	1.000	4958.84	4958.91	0.20	8
9		3.15	18 c	198.0	4956.91	4957.90	0.500	4958.84	4959.01	0.08	8
8		9.46	24 c	235.0	4955.63	4956.81	0.502	4958.35	4958.73	0.11	7
7		19.39	30 c	235.0	4954.36	4955.53	0.498	4957.64*	4958.17*	0.18	6
6		25.76	30 c	227.0	4953.12	4954.26	0.502	4956.43*	4957.32*	0.32	5
5		29.96	30 c	97.0	4952.54	4953.02	0.495	4955.65*	4956.17*	0.26	3
4		1.69	18 c	20.0	4952.54	4952.74	1.001	4955.65*	4955.65*	0.01	3
3		31.66	30 c	164.0	4951.62	4952.44	0.500	4954.12*	4955.10*	0.55	2
2		31.66	30 c	134.0	4950.59	4951.52	0.694	4952.53	4953.41	0.44	1
1		31.66	30 c	15.0	4950.38	4950.49	0.700	4952.28	4952.38	0.15	End
Project File: North SD.stm						Number of lines: 13			Run Date: 03-30-2004		
NOTES: c = circular; e = elliptical; b = box; Return period = 100 Yrs.; * Indicates surcharge condition.											

Storm Sewer Profile

Proj. file: North SD.stm

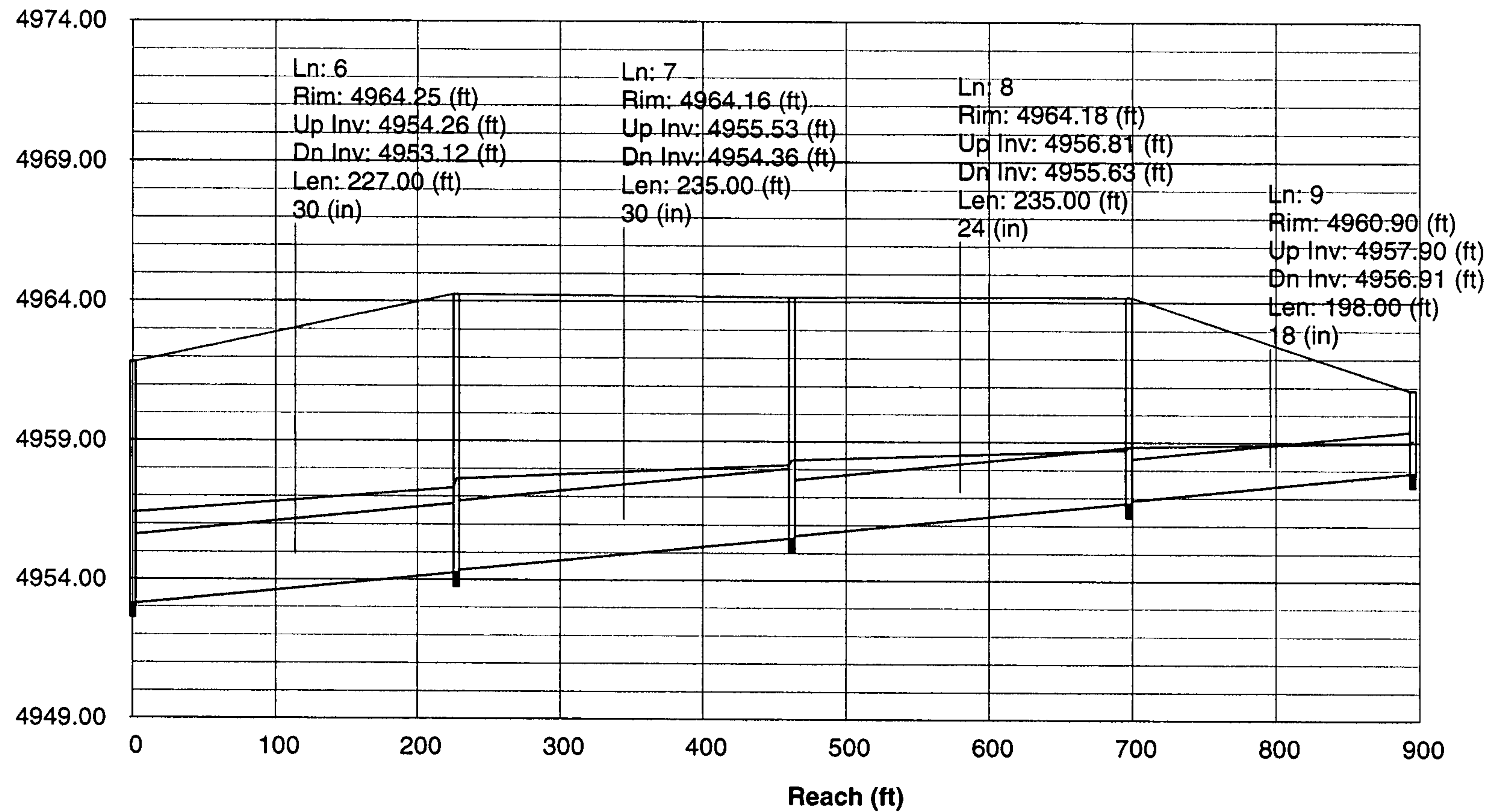
Elev. (ft)



Storm Sewer Profile

Proj. file: North SD.stm

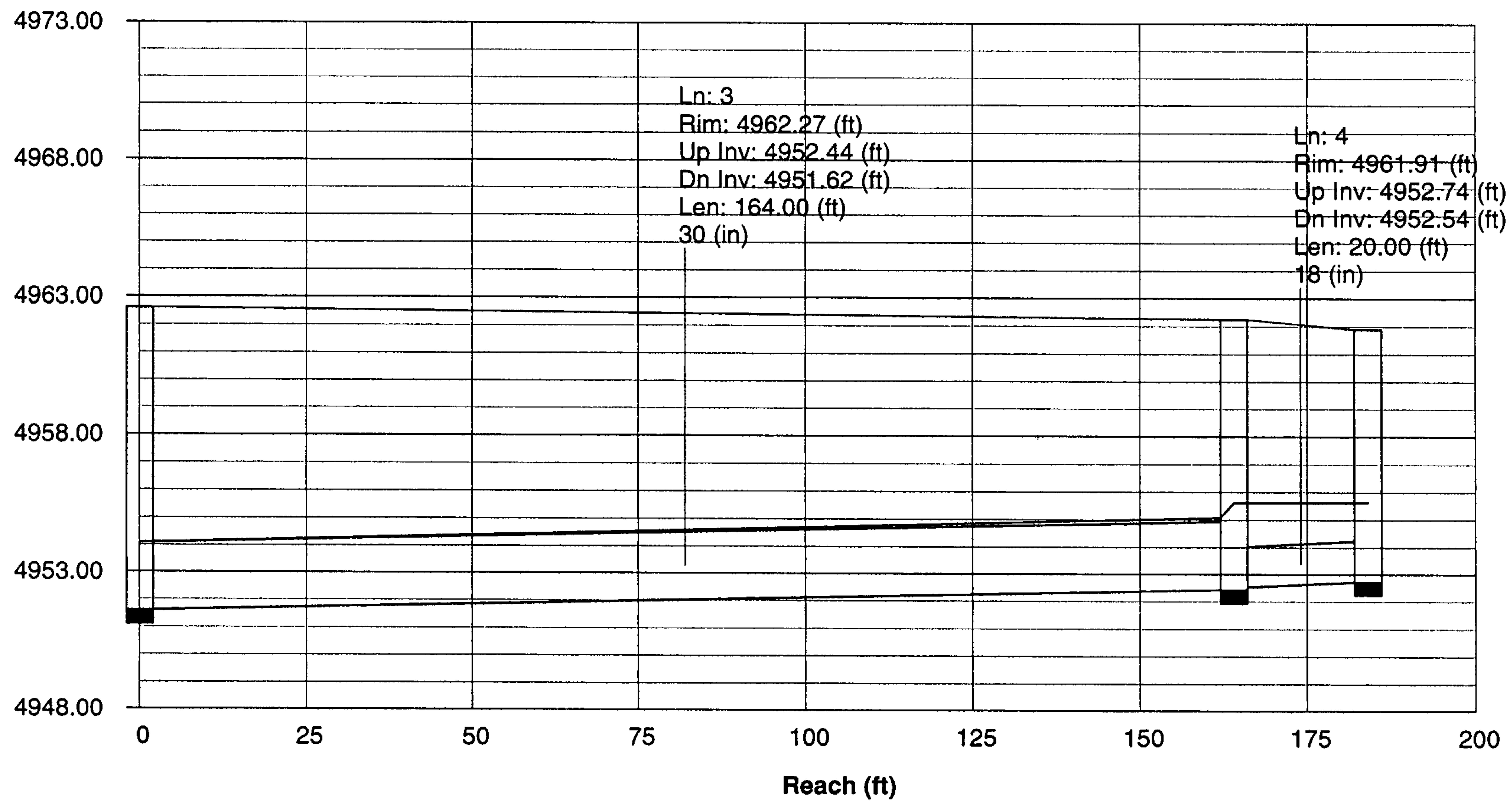
Elev. (ft)



Storm Sewer Profile

Proj. file: North SD.stm

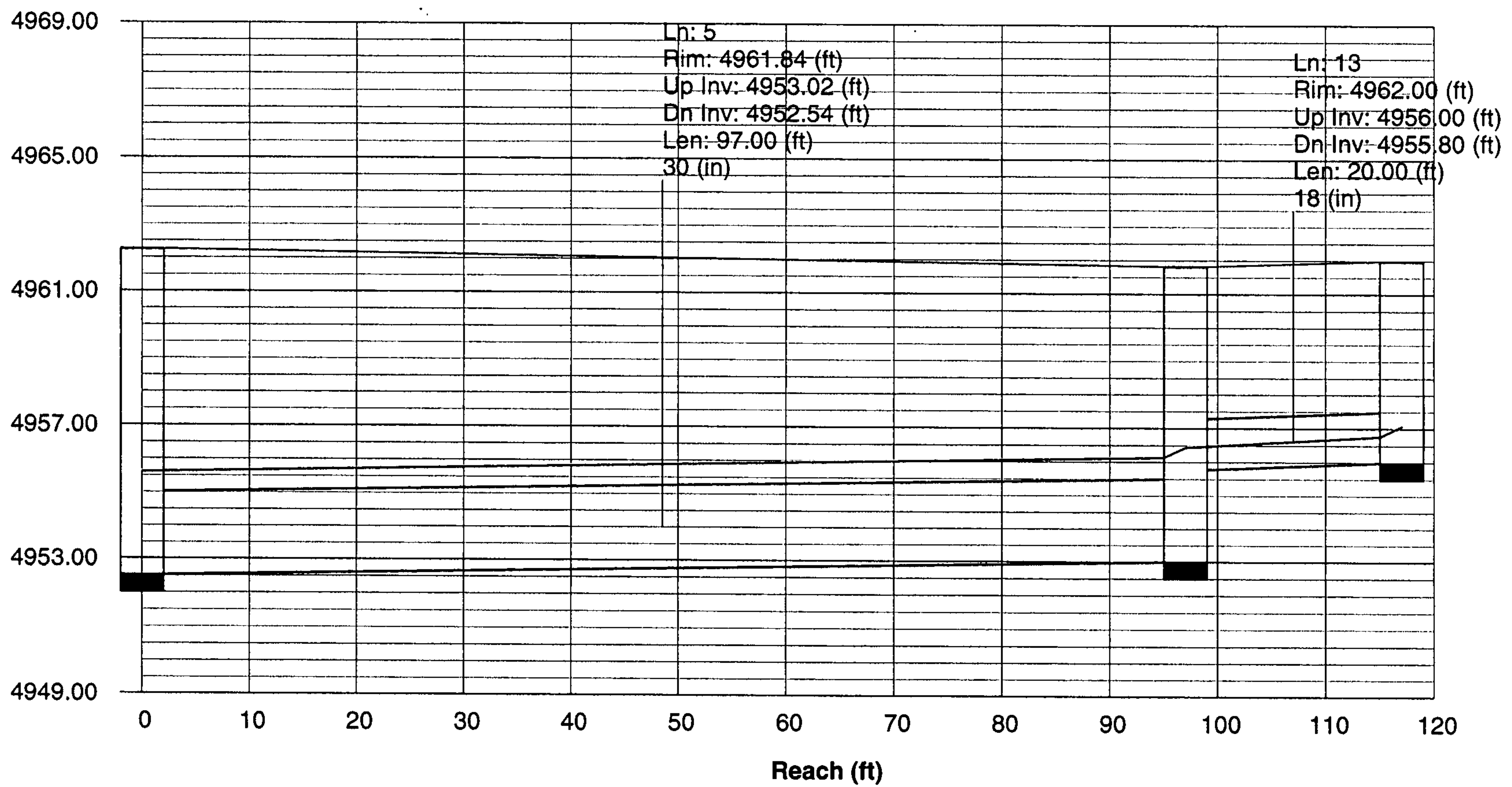
Elev. (ft)



Storm Sewer Profile

Proj. file: North SD.stm

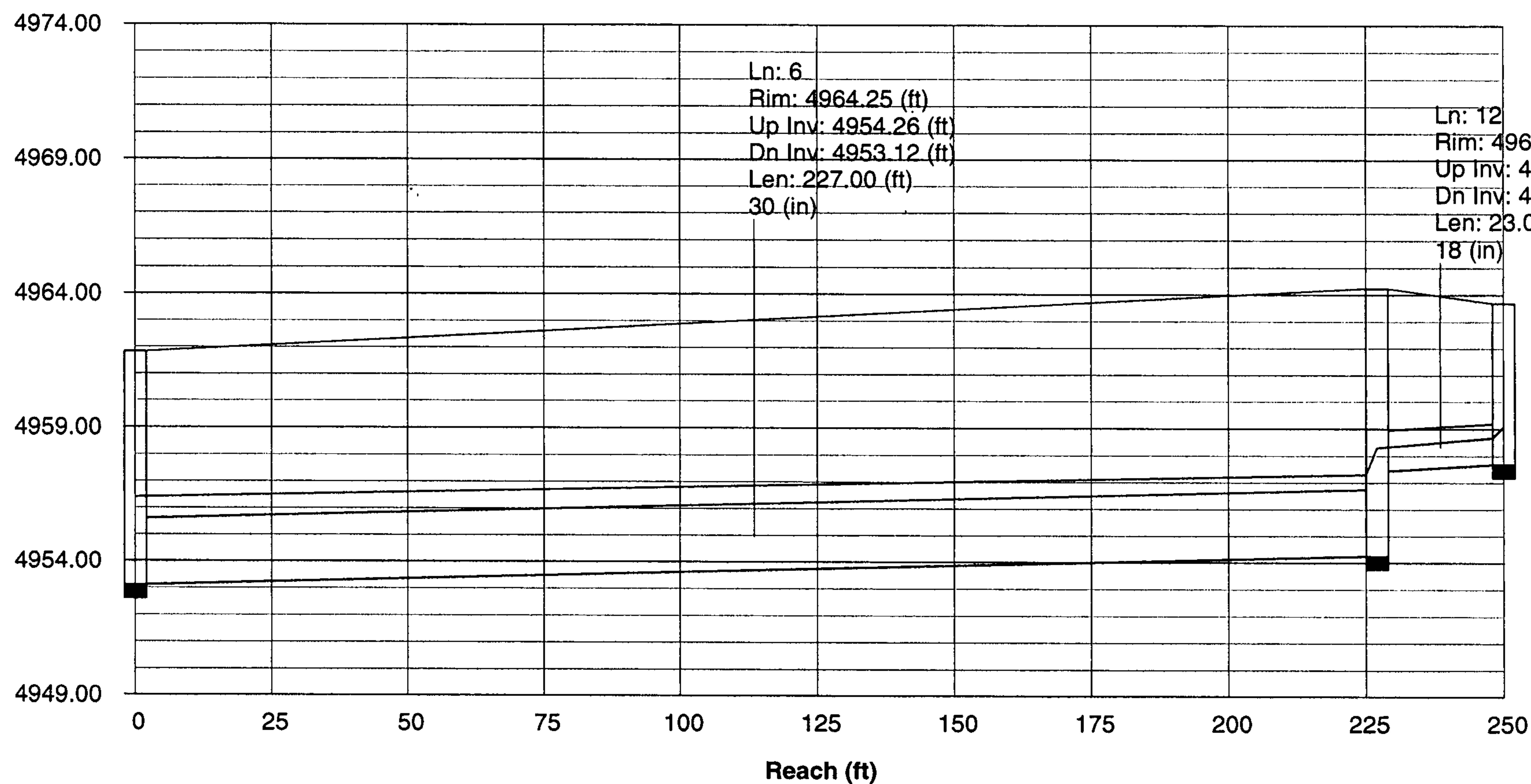
Elev. (ft)



Storm Sewer Profile

Proj. file: North SD.stm

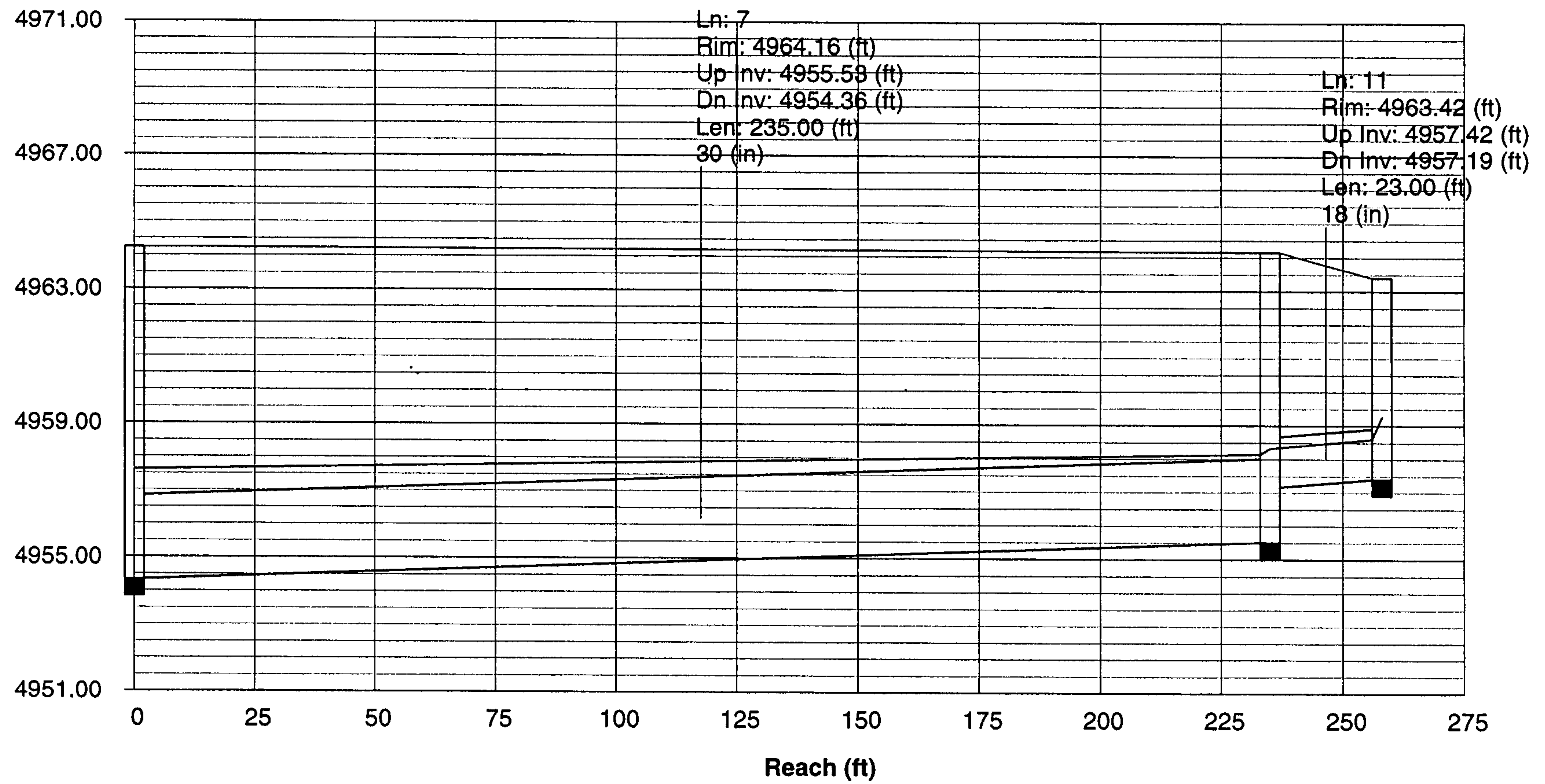
Elev. (ft)



Storm Sewer Profile

Proj. file: North SD.stm

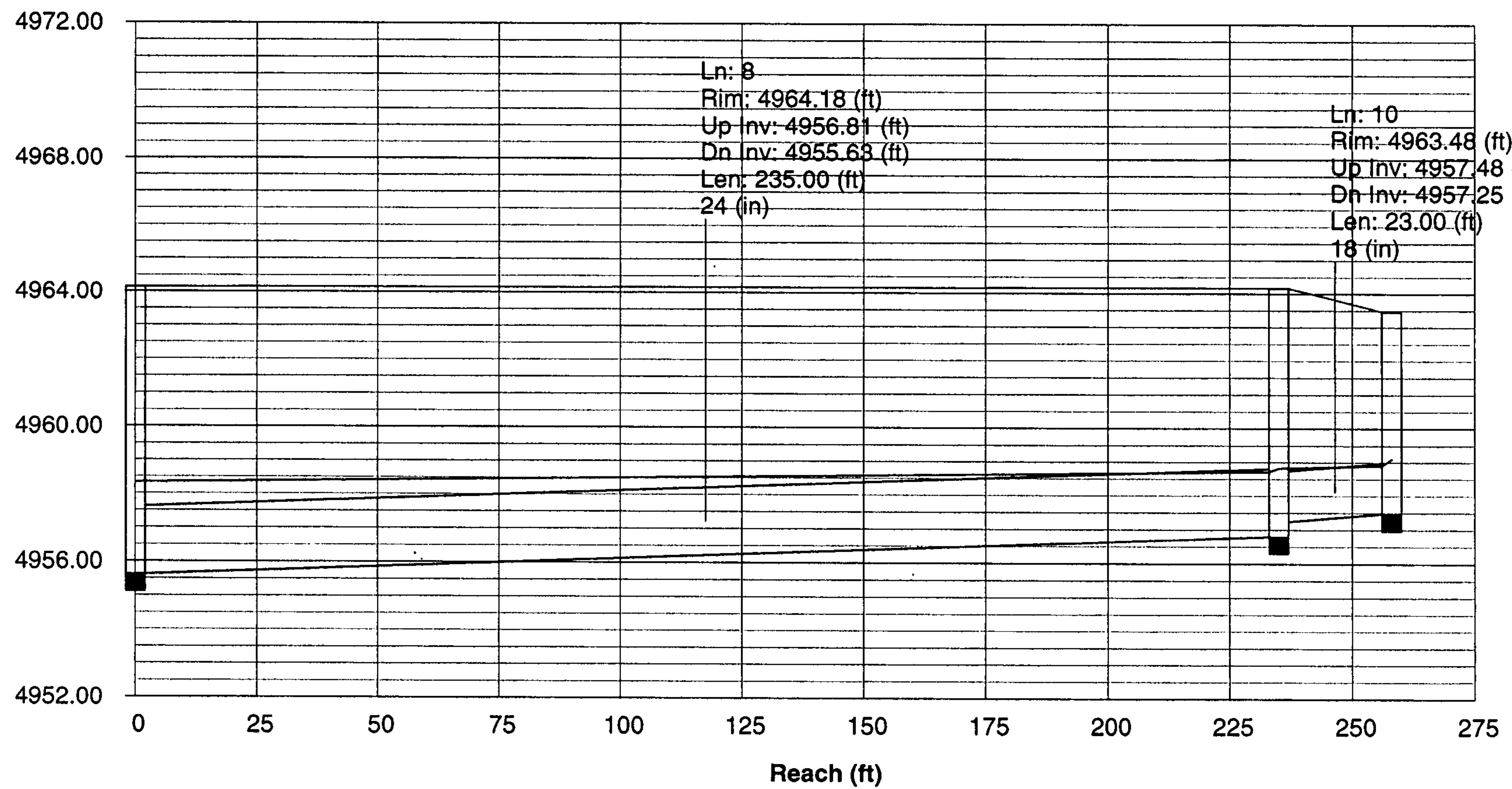
Elev. (ft)



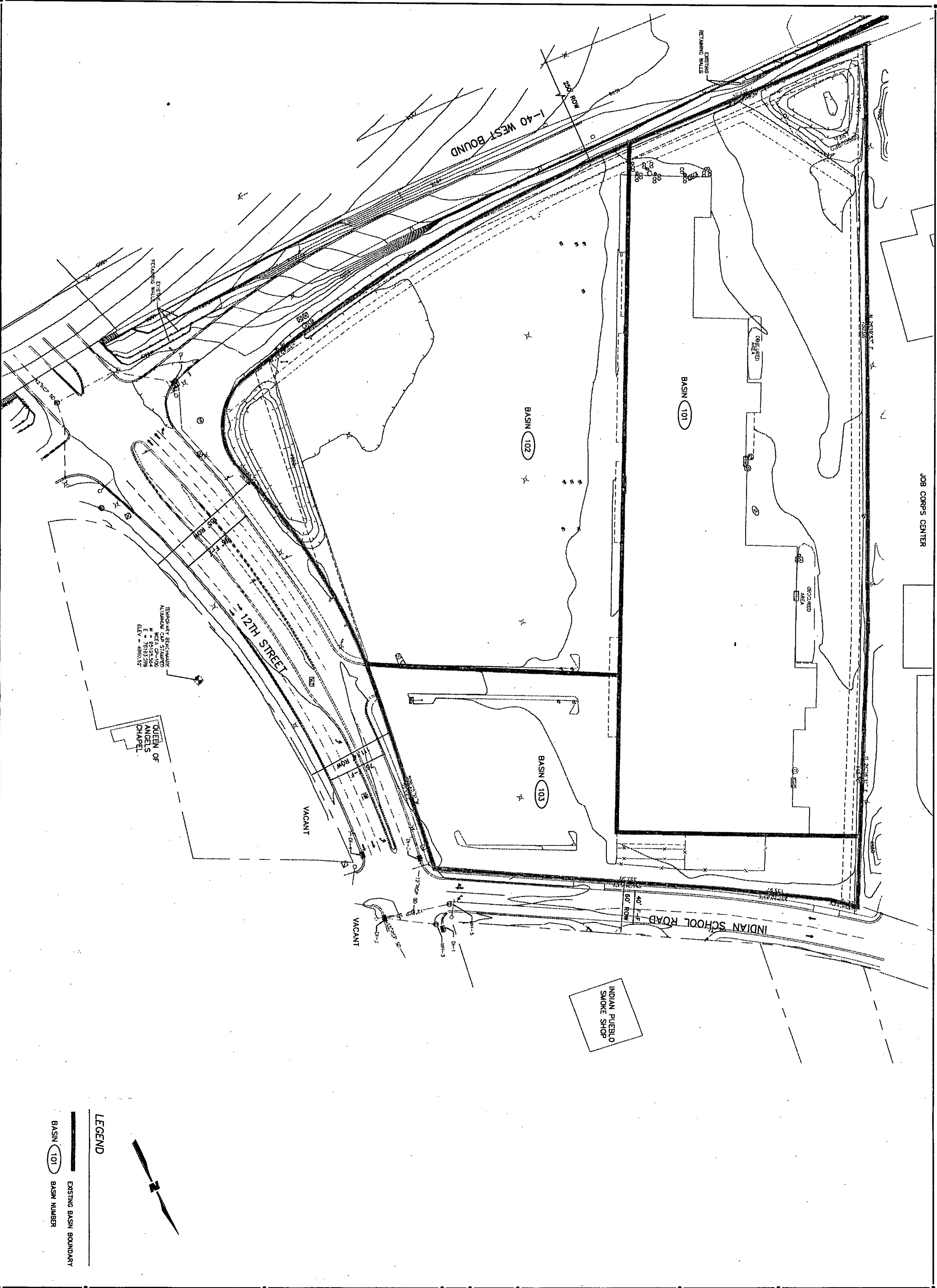
Storm Sewer Profile

Proj. file: North SD.stm

Elev. (ft)



Appendix B

[illegible]

**WILSON
& COMPANY**
2800 THE AMERICAN ROAD SE
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

LOWE'S HOME CENTERS, INC.
HWY. 268 EAST, EAST DOCK
N. WILKESBORO, NC 28659
336.658.4000 (V) 336.658.3257 (F)

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EXISTING BASIN BOUNDARY PLAN

LOWE'S OF
CENTRAL ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

PROJECT No: X3218004 DRAWN BY: MDG CHECKED BY: BMF

BASIN	EXISTING BASIN BOUNDARY	BASIN NUMBER
101		

[illegible]

LOWE'S HOME CENTERS, INC.
HWY. 208 EAST, EAST DOCK
N. WILKESBORO, NC 22659
336.656.4000 (V) 336.656.3257 (F)

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PROPOSED BASIN BOUNDARY PLAN

LOWE'S OF
CENTRAL ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

PROJECT No: X3218004 DRAWN BY: MDG CHECKED BY: BMF

ORIGINAL
ISSUE DATE:
PERMIT SET
ISSUE DATE:
CONSTRUCTION SET
ISSUE DATE:
DRAWING NUMBER:

PROPOSED BASIN BOUNDARY	BASIN NUMBER
	201

WILSON & COMPANY

2600 THE AMERICAN ROAD SE, SUITE 100
RIO RANCHO, NEW MEXICO 87124
(505) 898-8021
FAX (505) 898-8501

#13/0001

TRANSMITTAL File

To: Land Development Coordination Div.
Plaza del Sol
600 2nd Street NW
Albuquerque, NM 87102

Attn: **Brad Bingham**

WE ARE SENDING YOU ☒ Attached ☐ Under Separate Cover

via _____ the following items:

☐ Shop Drawings

☐ Prints

☐ Plans

☐ Samples

☐ Specifications

☐ Copy of letter

☐ Change order

☒ addendum to Drainage Report

Copies	Date	Pages/Sheets	Description
1	11/20/01	4	NW Albuquerque Lowe's Store Drainage Report addendum

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For approval/signature

☐ Approved as submitted

☐ Resubmit _____ copies for approval

☒ For your use

☐ Approved as noted

☐ Submit _____ copies for distribution

☐ As requested

☐ Return _____ copies

☐ Return _____ corrected prints

☐ For review and comment

☐ _____

☐ FOR BIDS DUE _____, 20__ ☐ PRINTS ON LOAN - RETURN TO WCEA AFTER BID

Remarks: _____

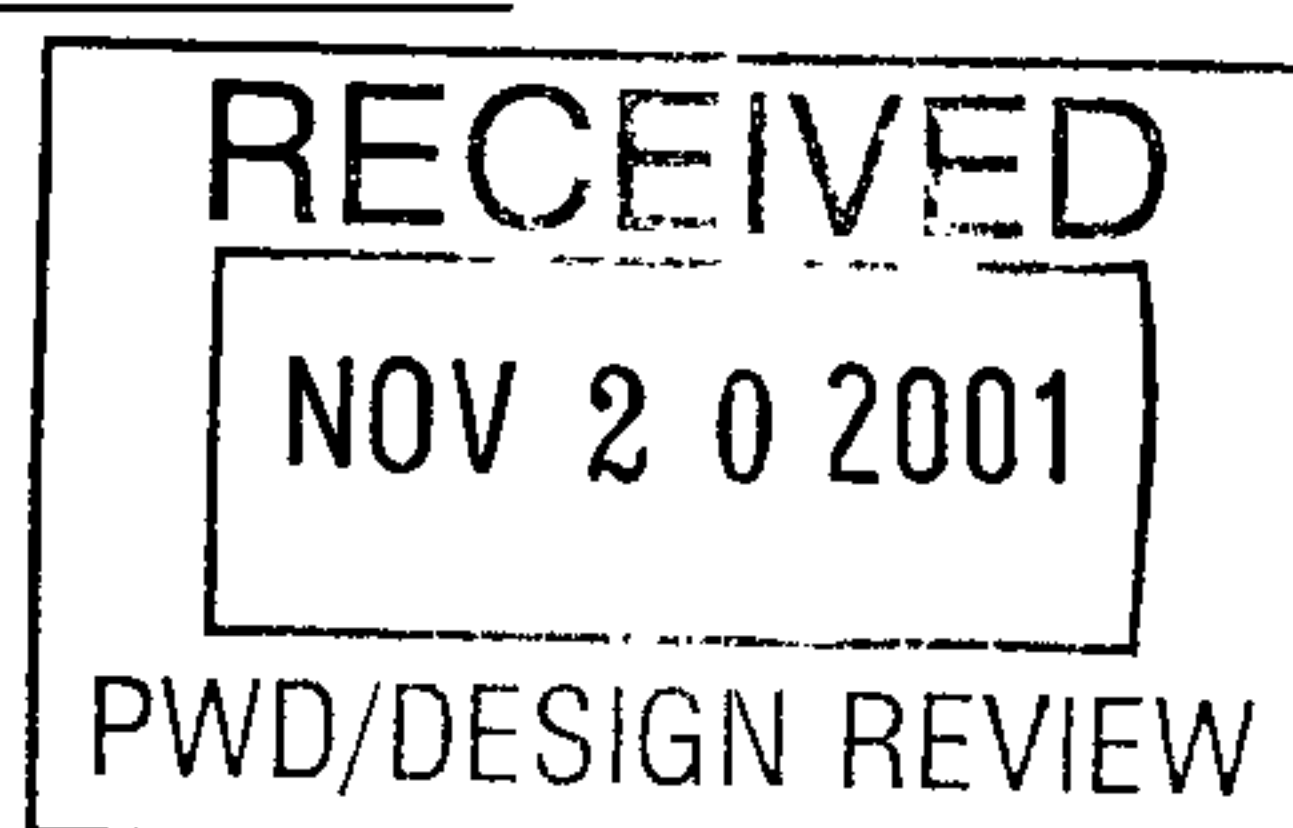
COPY TO: _____

SIGNED: _____

Jim Woodruff

RECEIVED BY: _____

DATE: _____



MEMORANDUM

To: Reza Afaghpour, PE
From: Jason Woodruff, EIT *ju*
Date: 11/20/01
Subject: Drainage Report Addendum for the Lowe's of NW Albuquerque

The following addendum will address concerns regarding the storm water discharge from pond 1 into the existing storm drain system within the Alameda Rd (NMSR 528) right of way.

As stated in the NW Albuquerque Lowe's Drainage report (Wilson & Company, Oct 2001), flows originating from Basin 2 currently drain towards Alameda Rd. These flows were accounted for in the design of the existing storm drain system within Alameda Rd. Also accounted for in the design of said storm drain are the street flows generated by Alameda road. Based off of this fact, the allowable discharge from pond 1 will be constrained to the existing peak runoff from Basin 2 minus any street runoff draining to the low point in Alameda adjacent to Basin 2. The attached AHYMO input printout (Figure 1) outlines how Basin 2 and the street flows were determined. The attached AHYMO summary sheet (Figure 2) shows the resulting flows from Basin 2 and Alameda road are 16.67 cfs and 2.74 cfs, respectively. The allowable discharge from pond 1 will therefore be 13.93 cfs.

Pond 1 was designed to have a water surface elevation of 5019, detention storage of 1.32 acft, and an allowable discharge of 13.93 cfs (See Figure 3).

If you have any questions or comments regarding this addendum, please feel free to contact Brigitte Stagner or myself at (505) 898-8021.

cc. Brigitte Stagner, PE, Brad Bingham, PE

```

                                pond1hyd
*S      THIS IS AN AHYMO HYDROLOGIC MODEL FOR:
*S      NW ALBUQUERQUE LOWE'S STORE
*S      NOVEMBER 13, 2001
*S
*S      MODEL DESCRIPTION -
*S      EXISTING CONDITIONS FOR BASIN 2
*S      USE PROCEDURES FROM COA DPM 22.2
*S      PREPARED BY WILSON & COMPANY
*S
START      TIME=0.0  PUNCH CODE=0  PRINT CODE=0
LOCATION     BERNALILLO COUNTY
*
* RAINFALL FROM NOAA ATLAS 2
*
RAINFALL   TYPE=2
           QUARTER=0.0  ONE= 1.87 IN
           SIX= 2.20 IN  DAY= 2.66 IN  DT= 0.05 HR
*
*
* The 100 series of Basins refer to Lowe's Avenue.
*****
*
**** BASIN 2 ****
*
COMPUTE LT TP      LCODE=1  UPLAND/LAG TIME METHOD
                   NK=0  ISLOPE=-1
                   LENGTH=500 FT SLOPE=0.0104  K=0.7
                   KN=0.033  CENTROID RATIO=0.50
COMPUTE NM HYD     ID=1  HYD NO=2  DA= .011046875 SQ MI
                   PER A=0 PER B=85 PER C=0 PER D=15
                   TP=0.0  MASSRAIN=-1
PRINT HYD          ID=1  CODE=1
*
*
*****
*
**** STREET RUNOFF ****
*
COMPUTE LT TP      LCODE=1  UPLAND/LAG TIME METHOD
                   NK=0  ISLOPE=-1
                   LENGTH=575 FT SLOPE=0.005  K=3
                   KN=0.021  CENTROID RATIO=0.50
COMPUTE NM HYD     ID=2  HYD NO=3  DA= .001109375 SQ MI
                   PER A=0 PER B=20 PER C=0 PER D=80
                   TP=0.0  MASSRAIN=-1
PRINT HYD          ID=2  CODE=1
*
*
*****
FINISH

```


AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
 INPUT FILE = pondlhyd.dat

- VERSION: 1997.02c

RUN DATE (MON/DAY/YR) =11/13/2001
 USER NO.= AHYMO-C-9803c01UNMLIB-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	
*S	THIS IS AN AHYMO HYDROLOGIC MODEL FOR:											
*S	NW ALBUQUERQUE LOWE'S STORE											
*S	NOVEMBER 13, 2001											
*S	MODEL DESCRIPTION -											
*S	EXISTING CONDITIONS FOR BASIN 2											
*S	USE PROCEDURES FROM COA DPM 22.2											
*S	PREPARED BY WILSON & COMPANY											
*S												
START											TIME=	.00
LOCATION	BERNALILLO COUNTY											
RAINFALL TYPE= 2											RAIN24=	2.660
COMPUTE NM HYD	2.00	-	1	.01105	16.67	.548	.93049	1.500	2.358	PER IMP=	15.00	
COMPUTE NM HYD	3.00	-	2	.00111	2.74	.123	2.07506	1.500	3.861	PER IMP=	80.00	
FINISH												

FIGURE 3

Lowe's of NW Albuquerque

X0218022

9/11/01

Lowe's Properties

Pond 1

Basin	Qpeak	tP	DurPEAK	tB	Qallowed	tp-all	Storage, cf	Storage, acft
1	38.02	9.93	12.75	66.21	9.50	30.17	36724.92	0.843
2	28.41	9.93	12.75	66.22	4.43	35.20	34494.16	0.792

Total Storage, acft 1.32 (Basin 1 Storage minus the parking lot storage of 0.315 acft.)

Pond 2

Basin	Qpeak	tP	DurPEAK	tB	Qallowed	tp-all	Storage, cf	Storage, acft
4	28.70	9.93	12.00	62.02	8.57	25.16	22437.11	0.515
5	4.82	9.93	12.75	66.21	1.44	27.57	4091.83	0.094
6	28.37	9.93	13.50	65.17	8.23	26.75	24320.91	0.558
7	6.25	9.93	3.75	64.28	2.87	22.82	2696.03	0.062
8	4.54	9.93	12.75	66.24	1.36	27.58	3852.51	0.088
9	2.94	9.93	12.75	66.21	0.88	27.57	2496.00	0.057

23.34

Total Storage, acft 1.37

Pond 3 (Offsite)

Basin	Qpeak	tP	DurPEAK	tB	Qallowed	tp-all	Storage, cf	Storage, acft
3	34.12	9.93	12.75	66.21	10.19	27.57	28948.63	0.665

Total Storage, acft 0.66

Note

Pond 3 will be a temporary pond that detains flows from Basin 3. The volume for this pond is based off a 1.20 cfs/acre allowable discharge.