



# Nimbus Engineers

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(702) 689-8630 • Fax (702) 689-8614

December 11, 1995

Kris Klein  
Engineering Department  
Washoe County Public Works  
1001 E. Ninth Street  
Reno, NV 89512

RE: Addendum to Hydrologic and Hydraulic Analysis of Wedge Meadows Subdivision (Nimbus Job No. 9311)

Dear Ms. Klein:

This addendum is an addition to the Hydrologic and Hydraulic Analysis of Wedge Meadows Subdivision dated October 1995 and revised November 1995. No part of the revised report is to be replaced.

At the request of Washoe County, Nimbus has evaluated the effect on the Wedge Meadows Subdivision of 3000 cfs in Whites Creek Branch 1 arriving at La Guardia Lane. It is the opinion of Nimbus Engineers that it will have no effect on the development and that any portion of the flow arriving at the development will be contained within the curbed section of the proposed streets. The following is the method of analysis used in making this determination.

A rating curve was established for the existing double 8'X 5' RCB under La Guardia Lane, the existing dip section in La Guardia over the RCB and the La Guardia street section from record plans received from the County. A control elevation was established in the dip section such that the sum of the individual flow from each rating curve equals 3000 cfs. The RCB has the capacity to carry 964 cfs. At elevation 4632.98 the dip section in the road has the capacity to carry 1948 cfs and the La Guardia street section flowing to the east will contain 88 cfs.

The next step was to review the records plans and conduct a field review to determine how much of the 88 cfs arrives at Wedge Meadows by flowing down La Guardia Lane. For several hundred feet west of Valley Springs Road the existing ground north of La Guardia is lower than the top of curb and there is no parkway

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behind the curb. The longitudinal slope of La Guardia through this reach is 3.78%. The top of curb capacity of the street at this slope is 44 cfs. The difference weirs over the curb and sheet flows northerly to Zolezzi Lane leaving 44 cfs in La Guardia approaching Valley Springs Road.

Valley Springs Road is crowned through the intersection at La Guardia Lane. The centerline profile of La Guardia begins at the flowline of Valley Springs which is 0.4 ft below its crown. The profile grade of Valley Springs through the intersection is 0.7%. The curb and gutter on La Guardia ends at the end of returns just before Valley Springs. There are drainage ditches on both sides of Valley Springs which cross La Guardia in culverts. There is no curb and gutter on either side of La Guardia east of Valley Springs. The existing ground on the north side of La Guardia east of Valley Springs is substantially lower than the edge of pavement.

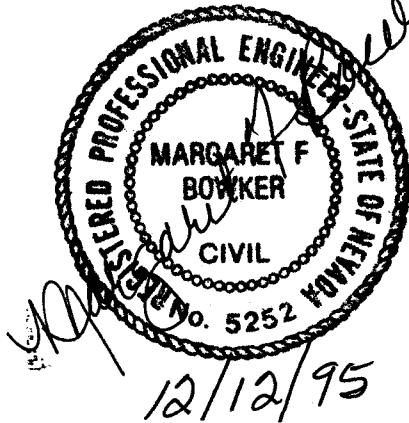
The flow on the northerly side of La Guardia will turn north on Valley Springs and end up in the west side ditch leaving 22 cfs on the south side. The flow on the south side arrives at the intersection of Valley Springs and can flow in as many as four directions. As the -2.0% cross slope on La Guardia is warped to meet the -0.7% grade on Valley Springs, a portion of the flow can sheet across the centerline of La Guardia and continue northerly in the west side ditch along Valley Springs or sheet flow across the intersection to the northeast and end up on the existing property east of Valley Springs and north of La Guardia. A portion can flow into the west side ditch of Valley Springs on the south side of La Guardia which will be carried through the culvert to the north side and a portion can sheet across the intersection to the side ditch on the south side of La Guardia. This is the only flow that could get to Wedge Meadows.

The amount of flow reaching the development will be substantially less than 22 cfs and can be contained within the proposed street section and will not have a significant impact on the development. Nimbus recommends that lots 4 and 5 in Unit 1 be raised one foot above the adjacent curb.

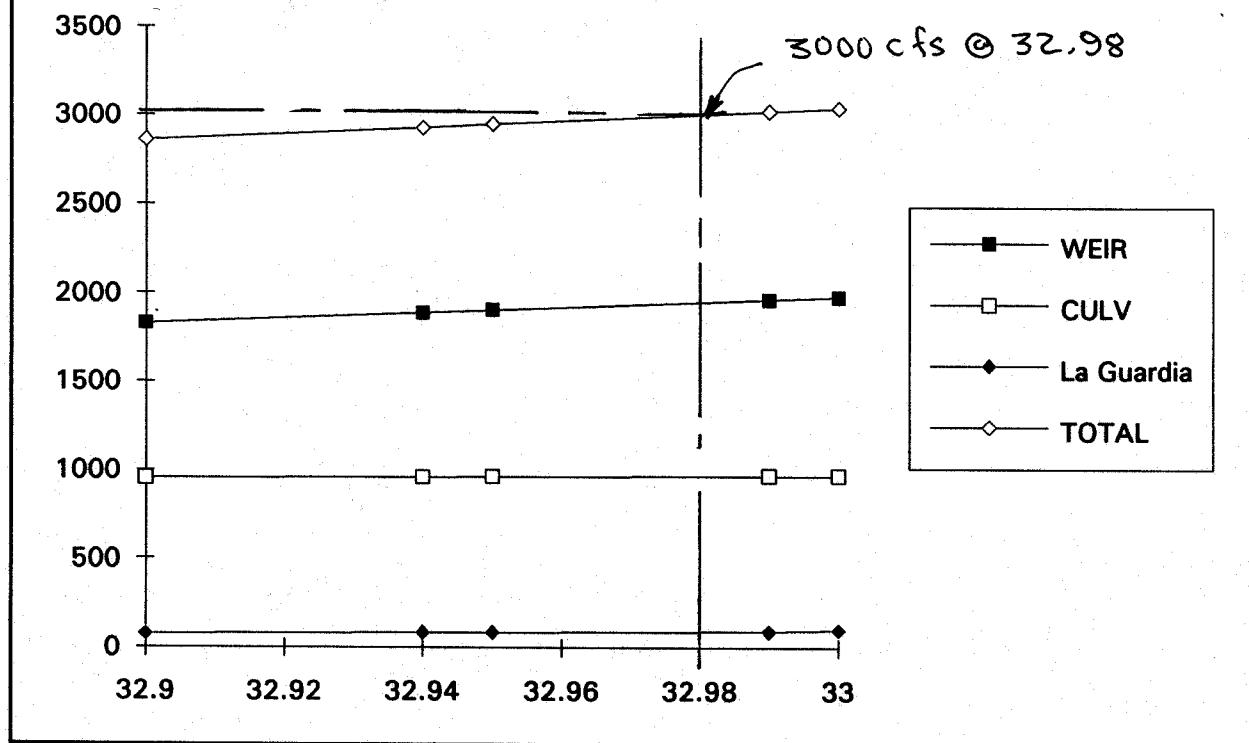
The results of this analysis provide the information necessary to determine the extent that the 3000 cfs from Whites Creek Branch 1 will have on the Wedge Meadows Subdivision. If you have any questions or concerns, please call.

Sincerely,  
NIMBUS ENGINEERS

*Peggy Bowker*  
Margaret (Peggy) F. Bowker, P.E.  
President



LAGUARDI.XLS



**BOX CULVERT ANALYSIS**  
**COMPUTATION OF CULVERT PERFORMANCE CURVE**

December 4, 1995  
La Guardia crossing of whitescreek br 1  
compute weir flow accross La Guardia  
Box Culvert from Record Plans dated Sept 1981

**PROGRAM INPUT DATA:**

DESCRIPTION	VALUE
Culvert Span (Width of Opening) (feet).....	8.00
Culvert Rise (Height of Opening) (feet).....	5.00
FHWA Chart Number (8,9,10,11,12 or 13).....	11
Scale Number on Chart (Type of Culvert Entrance).....	1
Manning's Roughness Coefficient (n-value).....	0.0120
Entrance Loss Coefficient of Culvert Opening.....	0.20
Culvert Length (feet).....	70.0
Culvert Slope (feet per foot).....	0.0070

**PROGRAM RESULTS:**

Rate (cfs)	Flow Depth (ft)	Tailwater Depth Inlet Control (ft)	Headwater Depth Outlet Control (ft)	Normal Depth (ft)	Critical Depth (ft)	Outlet Velocity (fps)	
475.0	0.00	9.32	7.39	3.71	4.78	3.71	16.02
480.0	0.00	9.44	7.47	3.73	4.82	3.73	16.07
485.0	0.00	9.56	7.55	3.76	4.85	3.76	16.11

=====

BOX CULVERT ANALYSIS COMPUTER PROGRAM Version 1.6 Copyright (c) 1986  
Dodson & Associates, Inc., 7015 W. Tidwell, #107, Houston, TX 77092  
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Dbl 8x5 ∴ Double Flows Calculated

Project \_\_\_\_\_  
Project No. \_\_\_\_\_  
Sheet No. \_\_\_\_\_ of \_\_\_\_\_  
Calculated by \_\_\_\_\_ Date \_\_\_\_\_

WEIR FLOW COMPUTATIONS

LOCATION/DESCRIPTION:

Profile Grade of La Guardia  
Dip Section @ White's Creek Branch 1

CROSS SECTION PARAMETERS:

FILENAME: LAGUARD.SEC

No. of Cross Section Points: 12 Bed Slope: 0.00500 Max Elev.: 32.33  
Bank Stations.....Left: 686.7 Right....: 950.0 Min Elev.: 30.40  
Encroachment Stations..Left: Right....: Weir Coef: 2.900

CROSS SECTION POINTS - Elevations & Stations in feet:

No.	Elev.	Sta.	No.	Elev.	Sta.	No.	Elev.	Sta.
1)	32.33	686.70	2)	31.94	700.00	3)	31.29	725.00
4)	30.82	750.00	5)	30.52	775.00	6)	30.40	800.00
7)	30.45	825.00	8)	30.68	850.00	9)	31.09	875.00
10)	31.66	900.00	11)	32.16	925.00	12)	32.32	950.00

COMPUTED PARAMETERS:

WSEL(ft)	Q(cfs)	H:max(ft)	H:ave(ft)	TW(ft)	A(sf)
32.95	1903.5	2.55	1.78	263.3	468.3
32.96	1918.5	2.56	1.79	263.3	471.0
32.97	1933.6	2.57	1.80	263.3	473.6
32.98	1948.7	2.58	1.81	263.3	476.2
32.99	1963.8	2.59	1.82	263.3	478.9
33.00	1979.0	2.60	1.83	263.3	481.5

NOTES:

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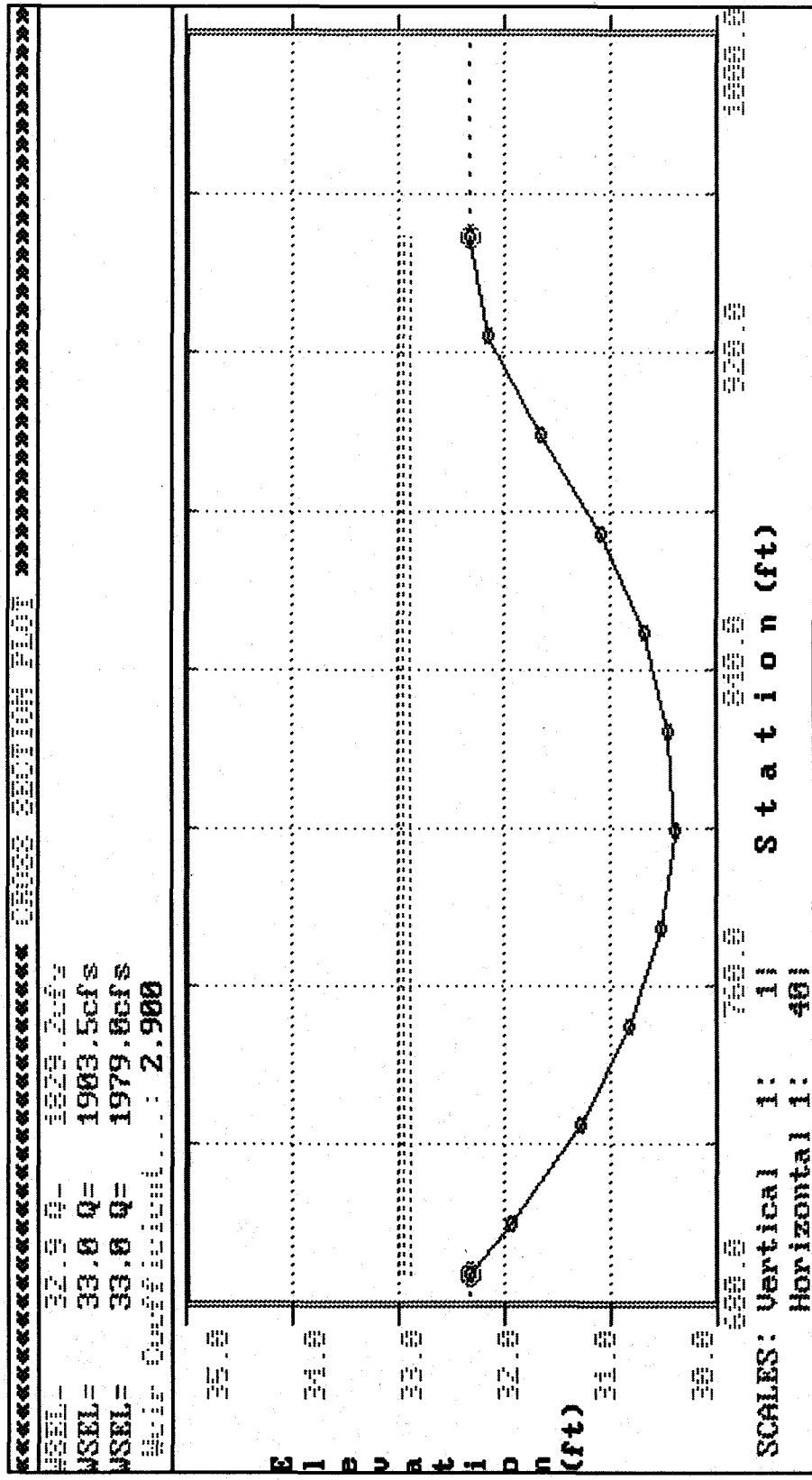
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Project Wedge  
Project No. 5311  
Sheet No. \_\_\_\_\_ of \_\_\_\_\_  
Calculated by Dong Date 12/95

UNIFORM FLOW COMPUTATIONS

LOCATION/DESCRIPTION:

CROSS SECTION PARAMETERS:

FILENAME: LAGUARST.SEC

No. of Cross Section Points: 7 Bed Slope: 0.03800 Max Elev.: 0.50  
Bank Stations.....Left: 0.0 Right....: 36.0 Min Elev.: 0.00  
Encroachment Stations..Left: Right....:  
Manning-n Values.....LOB: 0.015 CHANNEL...: 0.015 ROB.....: 0.015

CROSS SECTION POINTS - Elevations & Stations in feet:

No.	Elev.	Sta. No.	Elev.	Sta. No.	Elev.	Sta.		
1)	0.50	0.00	2)	0.00	0.20	3)	0.17	2.00
4)	0.50	18.00	5)	0.17	34.00	6)	0.00	35.80
7)	0.50	36.00						

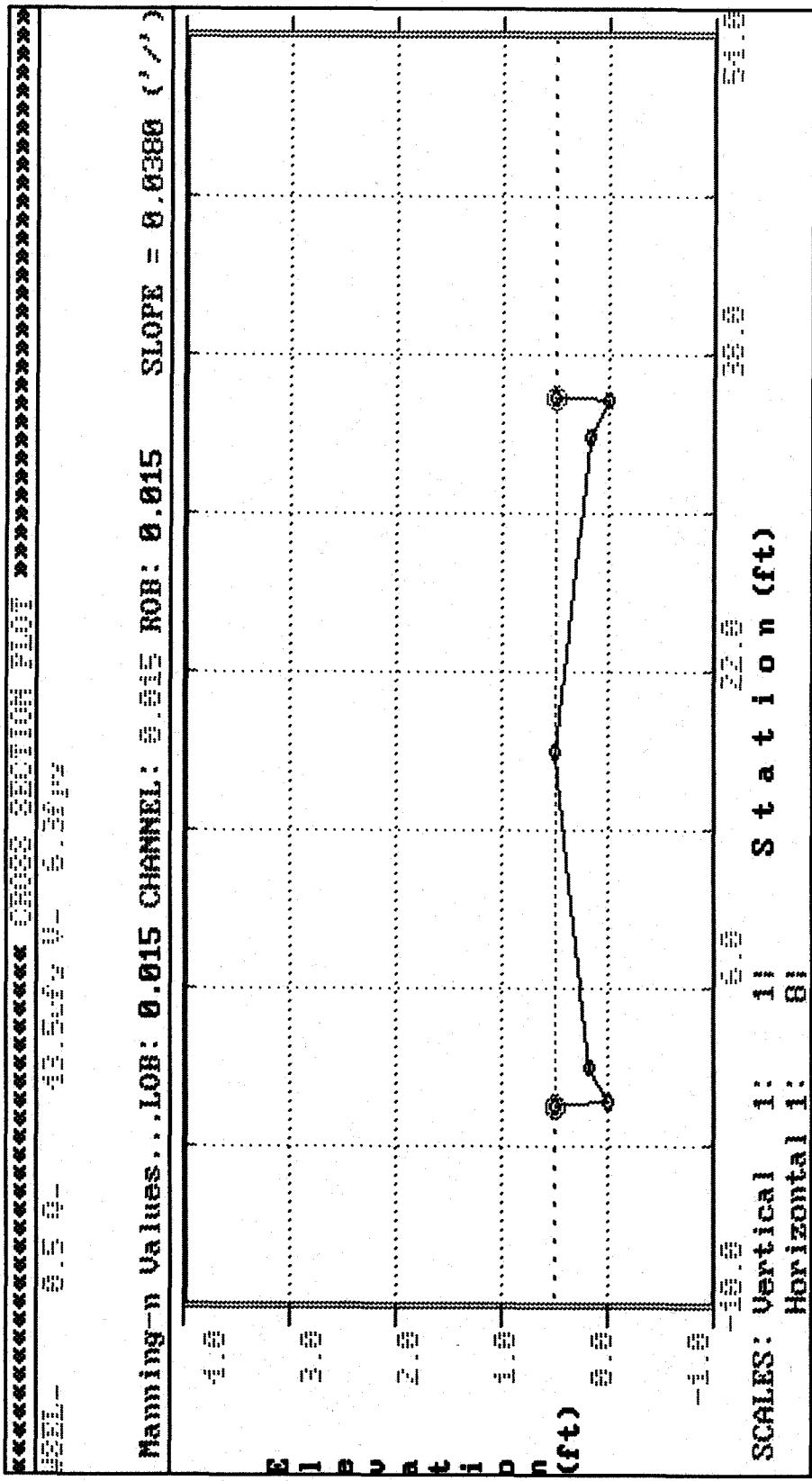
COMPUTED PARAMETERS:

WSEL(ft) Q(cfs) V(fps) Fr No. ne ALPHA TW(ft) A(sf) WP(ft) CRWS(ft)

0.50	43.5	6.3	2.55	0.015	1.0	36.0	6.9	36.7	0.66
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NOTES:

Capacity of La Guardia upstream  
of Valley View



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\* HEC-2 WATER SURFACE PROFILES \*  
\* \*  
\* Version 4.6.0; February 1991 \*  
\* \*  
\* RUN DATE 04DEC95 TIME 09:11:42 \*  
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\*\*\*\*\*  
\* U.S. ARMY CORPS OF ENGINEERS \*  
\* HYDROLOGIC ENGINEERING CENTER \*  
\* 609 SECOND STREET, SUITE D \*  
\* DAVIS, CALIFORNIA 95616-4687 \*  
\* (916) 756-1104 \*  
\*\*\*\*\*

X	X	XXXXXX	XXXX	XXXX
X	X	X	X X	X X
X	X	X	X	X
XXXXXX	XXXX	X	XXXXX	XXXX
X	X	X	X	X
X	X	X	X X	X
X	X	XXXXXX	XXXX	XXXXXX

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PAGE 1

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HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991

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T1 LA GUARDIA LANE FLOW AWAY FROM BRANCH 1

T2 VARY FLOW TO ESTABLISH RATING CURVE

T3 La Guardia Lane Profile from Record Plans dated Sept. 1981

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ

0 2 0 0 -1 0 0 0 35 0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE

1 0 -1

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

150 38 43 13 14 15 26 1 53 54

4 25

QT 3 60 75 90

NC .035 .035 .015 .1 .3

X1 980 11 14.3 50.7 0 0 0

GR 35.25 0 32.25 6 32.08 14.3 31.58 14.5 31.75 16.5

GR 32.08 32.5 31.75 48.5 31.58 50.5 32.08 50.7 32.25 59

GR 35.25 65

X1 970 10 10 10 .14

X1 960 10 10 10 .08

X1 950 10 10 10 .03

X1 940 10 10 10 -.03

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*PROF 1

CCHV=.100 CEHV=.300

\*SECNO 980.000

3720 CRITICAL DEPTH ASSUMED

980.000	.74	32.32	32.32	35.00	32.52	.20	.00	.00	32.08
60.0	1.1	57.9	1.1	1.3	15.9	1.3	.0	.0	32.08
.00	.80	3.63	.80	.035	.015	.035	.000	31.58	5.85
.004149	0.	0.	0.	0	20	0	.00	53.30	59.15

\*SECNO 970.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

970.000	.75	32.47	32.47	.00	32.66	.20	.04	.00	32.22
60.0	1.1	57.8	1.1	1.3	16.0	1.3	.0	.0	32.22
.00	.80	3.61	.80	.035	.015	.035	.000	31.72	5.85
.004062	10.	10.	10.	20	5	0	.00	53.31	59.15

\*SECNO 960.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

960.000	.75	32.55	32.55	.00	32.74	.20	.04	.00	32.30
60.0	1.1	57.9	1.1	1.3	16.0	1.3	.0	.0	32.30
.00	.80	3.62	.80	.035	.015	.035	.000	31.80	5.85
.004092	10.	10.	10.	20	5	0	.00	53.30	59.15

\*SECNO 950.000

950.000	.77	32.60	32.58	.00	32.78	.18	.04	.00	32.33
60.0	1.2	57.6	1.2	1.5	16.6	1.5	.0	.0	32.33
.00	.80	3.48	.80	.035	.015	.035	.000	31.83	5.82
.003607	10.	10.	10.	2	5	0	.00	53.37	59.18

\*SECNO 940.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.74

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PAGE 3

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
940.000	.92	32.72	.00	.00	32.81	.09	.02	.01	32.30
60.0	2.1	55.9	2.1	2.9	22.7	2.9	.0	.0	32.30
.00	.70	2.47	.70	.035	.015	.035	.000	31.80	5.48
.001195	10.	10.	10.	2	0	0	.00	54.04	59.52

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T1 LA GUARDIA LANE FLOW AWAY FROM BRANCH 1  
T2 VARY FLOW TO ESTABLISH RATING CURVE  
T3 La Guardia Lane Profile from Record Plans dated Sept. 1981

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3	0	0	-1	0	0	0	35	0
J2	NPROF	IPILOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2	0		-1						

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*PROF 2

CCHV= .100 CEHV= .300

\*SECNO 980.000

3720 CRITICAL DEPTH ASSUMED

980.000	.81	32.39	32.39	35.00	32.61	.23	.00	.00	32.08
75.0	1.8	71.3	1.8	1.9	18.2	1.9	.0	.0	32.08
.00	.98	3.91	.98	.035	.015	.035	.000	31.58	5.72
.004020	0.	0.	0.	0	16	0	.00	53.55	59.28

\*SECNO 970.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

970.000	.81	32.53	32.53	.00	32.75	.22	.04	.00	32.22
75.0	1.8	71.3	1.8	1.9	18.3	1.9	.0	.0	32.22
.00	.98	3.89	.98	.035	.015	.035	.000	31.72	5.72
.003941	10.	10.	10.	20	5	0	.00	53.56	59.28

\*SECNO 960.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

960.000	.81	32.61	32.61	.00	32.83	.22	.04	.00	32.30
75.0	1.8	71.3	1.8	1.9	18.3	1.9	.0	.0	32.30
.00	.98	3.90	.98	.035	.015	.035	.000	31.80	5.72
.003968	10.	10.	10.	20	5	0	.00	53.56	59.28

\*SECNO 950.000

950.000	.83	32.66	32.64	.00	32.87	.22	.04	.00	32.33
75.0	1.9	71.2	1.9	2.0	18.7	2.0	.0	.0	32.33
.00	.97	3.82	.97	.035	.015	.035	.000	31.83	5.70
.003709	10.	10.	10.	0	5	0	.00	53.60	59.30

\*SECNO 940.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.67

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
940.000	.99	32.79	.00	.00	32.90	.11	.02	.01	32.30
75.0	2.9	69.2	2.9	3.5	25.0	3.5	.0	.0	32.30
.00	.84	2.77	.84	.035	.015	.035	.000	31.80	5.35
.001323	10.	10.	10.	3	0	0	.00	54.29	59.65

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PAGE 7

T1 LA GUARDIA LANE FLOW AWAY FROM BRANCH 1  
T2 VARY FLOW TO ESTABLISH RATING CURVE  
T3 La Guardia Lane Profile from Record Plans dated Sept. 1981

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	4	0	0	-1	0	0	0	35	0
J2	NPROF	IPILOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1							

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PAGE 8

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*PROF 3

CCHV= .100 CEHV= .300

\*SECNO 980.000

3720 CRITICAL DEPTH ASSUMED

980.000	.87	32.45	32.45	35.00	32.70	.25	.00	.00	32.08
90.0	2.7	84.6	2.7	2.4	20.6	2.4	.0	.0	32.08
.00	1.12	4.11	1.12	.035	.015	.035	.000	31.58	5.60
.003788	0.	0.	0.	0	10	0	.00	53.81	59.40

\*SECNO 970.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

970.000	.87	32.59	32.59	.00	32.84	.25	.04	.00	32.22
90.0	2.7	84.7	2.7	2.4	20.4	2.4	.0	.0	32.22
.00	1.12	4.15	1.12	.035	.015	.035	.000	31.72	5.61
.003902	10.	10.	10.	20	5	0	.00	53.79	59.39

\*SECNO 960.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

960.000	.87	32.67	32.67	.00	32.92	.25	.04	.00	32.30
90.0	2.7	84.6	2.7	2.4	20.5	2.4	.0	.0	32.30
.00	1.12	4.14	1.12	.035	.015	.035	.000	31.80	5.60
.003862	10.	10.	10.	20	5	0	.00	53.79	59.40

\*SECNO 950.000

950.000	.89	32.72	32.70	.00	32.96	.24	.04	.00	32.33
90.0	2.7	84.5	2.7	2.5	20.8	2.5	.0	.0	32.33
.00	1.11	4.07	1.11	.035	.015	.035	.000	31.83	5.59
.003660	10.	10.	10.	0	5	0	.00	53.83	59.41

\*SECNO 940.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

04DEC95 09:11:42

PAGE 9

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
940.000	1.06	32.86	.00	.00	32.99	.13	.02	.01	32.30
90.0	3.8	82.3	3.8	4.1	27.4	4.1	.0	.0	32.30
.00	.94	3.00	.94	.035	.015	.035	.000	31.80	5.22
.001378	10.	10.	10.	3	0	0	.00	54.56	59.78

THIS RUN EXECUTED 04DEC95 09:11:43

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## HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991

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## La Guardia Lane Profile

## SUMMARY PRINTOUT

	SECNO	Q	QLOB	QCH	QROB	VCH	CWSEL	SSTA	ENDST	TOPWID	AREA
*	980.000	60.00	1.06	57.87	1.06	3.63	32.32	5.85	59.15	53.30	18.59
*	980.000	75.00	1.83	71.35	1.83	3.91	32.39	5.72	59.28	53.55	21.97
*	980.000	90.00	2.70	84.60	2.70	4.11	32.45	5.60	59.40	53.81	25.40
*	970.000	60.00	1.08	57.84	1.08	3.61	32.47	5.85	59.15	53.31	18.73
*	970.000	75.00	1.85	71.31	1.85	3.89	32.53	5.72	59.28	53.56	22.12
*	970.000	90.00	2.67	84.67	2.67	4.15	32.59	5.61	59.39	53.79	25.15
*	960.000	60.00	1.07	57.85	1.07	3.62	32.55	5.85	59.15	53.30	18.68
*	960.000	75.00	1.84	71.32	1.84	3.90	32.61	5.72	59.28	53.56	22.07
*	960.000	90.00	2.68	84.64	2.68	4.14	32.67	5.60	59.40	53.79	25.23
	950.000	60.00	1.18	57.64	1.18	3.48	32.60	5.82	59.18	53.37	19.53
	950.000	75.00	1.91	71.18	1.91	3.82	32.66	5.70	59.30	53.60	22.59
	950.000	90.00	2.74	84.52	2.74	4.07	32.72	5.59	59.41	53.83	25.70
*	940.000	60.00	2.06	55.88	2.06	2.47	32.72	5.48	59.52	54.04	28.51
*	940.000	75.00	2.92	69.16	2.92	2.77	32.79	5.35	59.65	54.29	31.97
*	940.000	90.00	3.85	82.31	3.85	3.00	32.86	5.22	59.78	54.56	35.57

## La Guardia Lane Profile

## SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	980.000	.00	.00	.00	31.58	60.00	32.32	32.32	32.52	41.49	3.63	18.59	9.32
*	980.000	.00	.00	.00	31.58	75.00	32.39	32.39	32.61	40.20	3.91	21.97	11.83
*	980.000	.00	.00	.00	31.58	90.00	32.45	32.45	32.70	37.88	4.11	25.40	14.62
*	970.000	10.00	.00	.00	31.72	60.00	32.47	32.47	32.66	40.62	3.61	18.73	9.41
*	970.000	10.00	.00	.00	31.72	75.00	32.53	32.53	32.75	39.41	3.89	22.12	11.95
*	970.000	10.00	.00	.00	31.72	90.00	32.59	32.59	32.84	39.02	4.15	25.15	14.41
*	960.000	10.00	.00	.00	31.80	60.00	32.55	32.55	32.74	40.92	3.62	18.68	9.38
*	960.000	10.00	.00	.00	31.80	75.00	32.61	32.61	32.83	39.68	3.90	22.07	11.91
*	960.000	10.00	.00	.00	31.80	90.00	32.67	32.67	32.92	38.62	4.14	25.23	14.48
	950.000	10.00	.00	.00	31.83	60.00	32.60	32.58	32.78	36.07	3.48	19.53	9.99
	950.000	10.00	.00	.00	31.83	75.00	32.66	32.64	32.87	37.09	3.82	22.59	12.31
	950.000	10.00	.00	.00	31.83	90.00	32.72	32.70	32.96	36.60	4.07	25.70	14.88
*	940.000	10.00	.00	.00	31.80	60.00	32.72	.00	32.81	11.95	2.47	28.51	17.36
*	940.000	10.00	.00	.00	31.80	75.00	32.79	.00	32.90	13.23	2.77	31.97	20.62
*	940.000	10.00	.00	.00	31.80	90.00	32.86	.00	32.99	13.78	3.00	35.57	24.25

## La Guardia Lane Profile

## SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	980.000	60.00	32.32	.00	.00	-2.68	53.30	.00
*	980.000	75.00	32.39	.06	.00	-2.61	53.55	.00
*	980.000	90.00	32.45	.06	.00	-2.55	53.81	.00
*	970.000	60.00	32.47	.00	.14	.00	53.31	10.00
*	970.000	75.00	32.53	.06	.14	.00	53.56	10.00
*	970.000	90.00	32.59	.06	.14	.00	53.79	10.00
*	960.000	60.00	32.55	.00	.08	.00	53.30	10.00
*	960.000	75.00	32.61	.06	.08	.00	53.56	10.00
*	960.000	90.00	32.67	.06	.08	.00	53.79	10.00
	950.000	60.00	32.60	.00	.06	.00	53.37	10.00
	950.000	75.00	32.66	.06	.05	.00	53.60	10.00
	950.000	90.00	32.72	.06	.05	.00	53.83	10.00
*	940.000	60.00	32.72	.00	.12	.00	54.04	10.00
*	940.000	75.00	32.79	.07	.14	.00	54.29	10.00
*	940.000	90.00	32.86	.07	.15	.00	54.56	10.00

## SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 980.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 980.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 980.000 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 970.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 970.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 970.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 970.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 970.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 970.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 970.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 970.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 970.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 960.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 960.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 960.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 960.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 960.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 960.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 960.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 960.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 960.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 940.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 940.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE  
WARNING SECNO= 940.000 PROFILE= 3 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

REVISIONS		
NO.	DESCRIPTION	DATE
1	Remove Dikes & Flood Lines	7-1-81
2	Regrade Contours	7-1-81
3	Asp. Land Deg. Fields	7-1-81

TO WEDGE MEADOWS  
SCALE: 1" = 100'  
CONTOUR INTERVAL = 2'  
BASIS OF TOPOGRAPHY:  
GREAT BASIN AERIAL SERVICES  
JOB NO. 101056

SPARKS, NEVADA  
LAS VEGAS, NEVADA  
SEATTLE, WASHINGTON  
SEI ENGINEERS/PLANNERS

Rec 12/12/95 Nintens. 12/11/95 Letter Addendum to Hydrologic and  
Hydraulic Analysis of Wedge Meadow

NEVADA

GRADING PLAN  
WHITES CREEK ESTATES UNIT NO. 1  
POR NW 1/4 SEC. 20, T18N, R60E, M.D.M.

WASHOE COUNTY  
WASHOE COUNTY

JOB NO. 462-005-811  
DESIGNED R.J.A.  
DRAWN BY V.W.  
COMP.  
CHECKED  
DATE SEPT. 1981  
SHEET NO.

G I

4 OF 11 SHEETS

