

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	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

*SECNO 19130.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .63

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6081.50 ELREA= 6081.50

19130.000	3.29	6077.39	.00	.00	6078.64	1.25	.03	.24	6080.10
1080.0	.0	1080.0	.0	.0	120.5	.0	5.8	1.3	6080.10
.07	.00	8.97	.00	.000	.013	.000	.000	6074.10	1133.42
.001642	20.	30.	30.	3	0	0	.00	43.17	1176.58

CCHV= .100 CEHV= .300

*SECNO 19131.000

3370 NORMAL BRIDGE. NRD= 8 MIN ELTRD= 6084.00 MAX ELLC= *****

OUTFALL PROPOSED GOLF CART BRIDGE

19131.000	3.29	6077.39	.00	.00	6078.64	1.25	.00	.00	6080.10
1080.0	.0	1080.0	.0	.0	120.5	.0	5.8	1.3	6080.10
.07	.00	8.97	.00	.000	.013	.000	.000	6074.10	1133.42
.001642	1.	1.	1.	0	0	0	.00	43.17	1176.58

*SECNO 19139.000

3370 NORMAL BRIDGE. NRD= 8 MIN ELTRD= 6084.00 MAX ELLC= *****

ENTRANCE PROPOSED GOLF CART BRIDGE

19139.000	3.47	6077.57	.00	.00	6078.67	1.10	.01	.02	6080.10
1080.0	.0	1080.0	.0	.0	128.5	.0	5.8	1.3	6080.10
.07	.00	8.40	.00	.000	.013	.000	.000	6074.10	1133.04
.001356	8.	9.	8.	3	0	0	.00	43.91	1176.96

*SECNO 19140.000

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6082.00 ELREA= 6082.00

19140.000	3.47	6077.57	.00	.00	6078.67	1.10	.00	.00	6080.10
1080.0	.0	1080.0	.0	.0	128.3	.0	5.8	1.3	6080.10
.07	.00	8.42	.00	.000	.013	.000	.000	6074.10	1133.05
.001362	1.	1.	1.	0	0	0	.00	43.89	1176.95

SECNO	DEPTH	CHSEL	CRWS	WSELX	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19285.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CHSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

END CHANNEL TRANSITION

19285.000	5.80	6084.40	6084.40	.00	6086.56	2.16	.24	.32	6084.60
1080.0	.0	1080.0	.0	.0	91.6	.0	6.2	1.4	6084.60
.07	.00	11.79	.00	.000	.013	.000	.000	6079.60	1209.20
.002023	140.	145.	150.	20	14	0	.00	21.60	1230.80

*SECNO 19315.000

3685 20 TRIALS ATTEMPTED WSEL,CHSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERRANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6086.50 ELREA= 6086.50

19315.000	5.82	6084.82	6084.82	.00	6086.96	2.14	.06	.00	6085.00
1080.0	.0	1080.0	.0	.0	92.1	.0	6.2	1.4	6085.00
.07	.00	11.73	.00	.000	.013	.000	.000	6079.00	1199.18
.001997	20.	30.	40.	20	5	0	.00	21.64	1220.82

*SECNO 19316.000

3370 NORMAL BRIDGE. NRD= 14 MIN ELTRD= 6087.00 MAX ELLC= 6086.80

OUTFALL GOLF CART BRIDGE

19316.000	5.84	6084.84	6084.83	.00	6086.96	2.12	.00	.00	6085.00
1080.0	.0	1080.0	.0	.0	92.1	.0	6.2	1.4	6085.00
.07	.00	11.69	.00	.000	.013	.000	.000	6079.00	1199.16
.001977	1.	1.	1.	0	9	0	.00	21.67	1220.84

*SECNO 19320.000

3370 NORMAL BRIDGE. NRD= 14 MIN ELTRD= 6087.00 MAX ELLC= 6086.80

ENTRANCE GOLF CART BRIDGE

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XL	XMCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
19320.000	6.17	6085.17	.00	.00	6087.00	1.83	.01	.03	6085.00
1080.0	.0	1080.0	.0	.0	99.5	.0	6.2	1.4	6085.00
.07	.01	10.86	.01	.040	.013	.040	.000	6079.00	1198.52
.001584	4.	4.	4.	6	0	0	.00	22.97	1221.48

*SECNO 19321.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6087.00 ELREA= 6087.00

19321.000	6.18	6085.18	.00	.00	6087.00	1.82	.00	.00	6085.00
1080.0	.0	1080.0	.0	.0	99.7	.0	6.3	1.4	6085.00
.07	.00	10.86	.00	.000	.013	.000	.000	6079.00	1199.00
.001572	1.	1.	1.	0	0	0	.00	22.00	1221.00

*SECNO 19480.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6089.50 ELREA= 6089.50

19480.000	5.72	6087.02	6087.02	.00	6089.14	2.12	.29	.09	6087.30
1050.0	.0	1050.0	.0	.0	90.0	.0	6.6	1.5	6087.30
.07	.00	11.67	.00	.000	.013	.000	.000	6081.30	1039.28
.002011	195.	159.	145.	20	11	0	.00	21.44	1060.72

*SECNO 19481.000

3370 NORMAL BRIDGE. NRD= 15 MIN ELTRD= 6090.00 MAX ELLC= 6089.80

OUTFALL GOLF CART BRIDGE

19481.000	5.73	6087.03	6087.02	.00	6089.14	2.11	.00	.00	6087.30
1050.0	.0	1050.0	.0	.0	90.0	.0	6.6	1.5	6087.30
.07	.00	11.67	.00	.000	.013	.000	.000	6081.30	1039.28
.002002	1.	1.	1.	0	16	0	.00	21.45	1060.72

*SECNO 19489.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3370 NORMAL BRIDGE. NRD= 15 MIN ELTRD= 6090.00 MAX ELIC= 6089.80

ENTRANCE GOLF CART BRIDGE

19489.000	6.16	6087.46	.00	.00	6089.19	1.73	.01	.04	6087.30
1050.0	.0	1049.9	.0	.2	99.4	.2	6.6	1.5	6087.30
.07	.26	10.56	.26	.040	.913	.040	.000	6081.30	1037.02
.001500	9.	9.	9.	6	0	0	.00	25.97	1062.98

*SECNO 19490.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6090.00 ELREA= 6090.00

19490.000	6.17	6087.47	.00	.00	6089.19	1.73	.00	.00	6087.30
1050.0	.0	1050.0	.0	.0	99.5	.0	6.6	1.5	6087.30
.07	.00	10.55	.00	.000	.913	.000	.000	6081.30	1039.00
.001493	1.	1.	1.	0	0	0	.00	22.90	1061.00

*SECNO 19745.000

3485 20 TRIALS ATTEMPTED WSEL,CWSEL

3493 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6091.50 ELREA= 6091.50

19745.000	5.73	6090.73	6090.73	.00	6092.84	2.11	.44	.11	6091.00
1050.0	.0	1050.0	.0	.0	90.1	.0	7.2	1.6	6091.00
.08	.00	11.65	.00	.000	.013	.000	.000	6085.00	1289.27
.002902	255.	255.	255.	20	12	0	.00	21.46	1310.73

*SECNO 19746.000

3370 NORMAL BRIDGE. NRD= 13 MIN ELTRD= 6092.00 MAX ELIC= 6091.00

OUTFALL GOLF CART BRIDGE

19746.000	5.84	6090.84	6090.83	.00	6092.85	2.01	.00	.01	6091.00
1050.0	.0	1050.0	.0	.0	92.3	.0	7.2	1.6	6091.00
.08	.00	11.37	.00	.000	.013	.000	.000	6085.00	1289.17
.001974	1.	1.	1.	0	9	0	.00	21.66	1310.87

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

*SECNO 19754.000

3370 NORMAL BRIDGE. NRD= 13 MIN ELTRD= 6092.00 MAX ELLC= 6091.00

ENTRANCE GOLF CART BRIDGE

19754.000	6.03	6091.03	.00	.00	6092.98	1.86	.02	.02	6091.00
1050.0	.0	1050.0	.0	.0	96.0	.0	7.2	1.6	6091.00
.08	.00	10.94	.00	.000	.013	.000	.000	6085.00	1288.75
.003732	8.	8.	8.	6	0	0	-.61	22.49	1311.25

*SECNO 19755.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.61

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6092.00 ELREA= 6092.00

19755.000	6.21	6091.21	.00	.00	6092.90	1.69	.00	.02	6091.00
1050.0	.0	1050.0	.0	.0	100.5	.0	7.2	1.6	6091.00
.08	.00	10.44	.00	.000	.013	.000	.000	6085.00	1289.00
.001444	1.	1.	1.	3	0	0	.00	22.00	1311.00

*SECNO 19845.000

3301 HV CHANGED MORE THAN HVINS

END CHANNEL LINING

19845.000	6.44	6092.94	.00	.00	6093.12	.19	.06	.15	6090.50
250.0	6.3	235.6	8.1	12.9	67.7	15.1	7.4	1.7	6090.50
.09	.49	3.48	.54	.040	.013	.040	.000	6086.50	1100.61
.000139	100.	90.	80.	3	0	0	.00	41.43	1142.04

*SECNO 19960.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .23

19960.000	5.20	6093.10	.00	.00	6093.17	.07	.04	.01	6092.00
250.0	3.9	220.5	25.6	3.0	99.0	19.7	7.7	1.2	6092.00
.10	1.29	2.23	1.30	.040	.075	.040	.000	6087.90	1034.50
.002735	160.	115.	20.	2	0	0	.00	71.25	1105.75

SECNO	DEPTH	CHSEL	CRWS	WSELX	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROP	ALOB	ACH	AROP	VDL	TWA	R-BANK ELEV
TIME	VLDB	VCH	VRDB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CEHV= .300 CEHV= .500

*SECNO 20010.000

OUTFALL GOLF CART PATH CULVERT

20010.000	4.48	6093.18	.00	.00	6093.33	.15	.12	.04	6088.70
250.0	96.8	56.3	96.8	30.0	22.4	30.0	7.8	1.9	6088.70
.11	3.23	2.52	3.23	.040	.075	.040	.000	6088.70	1107.06
.002183	60.	50.	40.	1	0	0	.00	30.89	1137.94

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	COFO	RDLEN	RISE	SPAN	CULVLN	CHRT	SDL	ELCHU	ELCHD
1		.027	.80	3.00	.00	3.30	4.90	15.00	8	3	6089.00	6088.70

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE 3 - WINGWALLS FLARED 0 DEGREES (SIDES EXTENDED STRAIGHT)

*SECNO 20025.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.08

SPECIAL CULVERT

ESIC	EBOD	HA	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6101.78	6101.07	1.47	111.	139.	1.430	16.2	6094.00	83.

ENTRANCE GOLF CART PATH CULVERT

20025.000	5.75	6094.75	.00	.00	6094.80	.04	1.47	.00	6089.00
250.0	105.0	41.1	103.8	61.2	28.8	58.4	7.8	1.9	6089.00
.11	1.72	1.43	1.78	.040	.075	.040	.000	6089.00	1078.65
.000505	15.	15.	15.	2	0	0	.00	80.18	1158.82

*SECNO 20050.000

20050.000	5.48	6094.78	.00	.00	6094.82	.04	.02	.00	6092.00
250.0	82.3	164.8	2.9	52.4	105.2	4.6	7.9	2.0	6094.00
.11	1.57	1.57	.63	.040	.075	.040	.000	6089.30	1070.75
.001008	25.	25.	25.	0	0	0	.00	81.45	1151.79

CEHV= .100 CEHV= .300

*SECNO 20095.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOP	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VRQB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6096.00 ELREA= 6096.00

20095.000	4.79	6094.79	.00	.00	6094.86	.07	.04	.01	6095.00
250.0	.0	250.0	.0	.0	119.0	.0	8.0	2.0	6095.00
.12	.00	2.10	.00	.000	.075	.000	.000	6090.00	1150.20
.002081	25.	25.	25.	0	0	0	.00	29.50	1179.20

1SECNO 20096.000

3370 NORMAL BRIDGE. NRD= 9 MIN ELTRD= 6097.00 MAX ELCD= 6095.00

OUTFALL GOLF CART BRIDGE

20096.000	4.79	6094.79	.00	.00	6094.86	.07	.00	.00	6095.00
250.0	.0	250.0	.0	.0	119.9	.0	8.0	2.0	6095.00
.12	.00	2.10	.00	.000	.075	.000	.000	6090.00	1150.21
.002086	1.	1.	1.	0	0	0	.00	29.59	1179.79

1SECNO 20104.000

3370 NORMAL BRIDGE. NRD= 9 MIN ELTRD= 6097.00 MAX ELCD= 6095.00

ENTRANCE GOLF CART BRIDGE

20104.000	4.81	6094.81	.00	.00	6094.88	.07	.02	.00	6095.00
250.0	.0	250.0	.0	.0	119.4	.0	8.0	2.0	6095.00
.12	.00	2.09	.00	.000	.075	.000	.000	6090.00	1150.19
.002062	8.	8.	8.	0	0	0	.00	29.62	1179.81

1SECNO 20105.000

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6097.00 ELREA= 6097.00

20105.000	4.81	6094.81	.00	.00	6094.88	.07	.00	.00	6095.00
250.0	.0	250.0	.0	.0	119.5	.0	8.0	2.0	6095.00
.12	.00	2.09	.00	.000	.075	.000	.000	6090.00	1150.19
.002057	1.	1.	1.	0	0	0	.00	29.63	1179.81

1SECNO 20150.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	GLOSS	L-BANK ELEV
0	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	ICDNT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .65

20150.000	3.62	6094.92	.00	.00	6095.03	.12	.14	.01	6094.00
250.0	6.2	242.3	1.5	4.1	88.0	1.0	8.1	2.0	6094.00
.12	1.52	2.75	1.45	.040	.075	.040	.000	6091.30	1180.93
.004820	45.	45.	45.	0	0	0	.00	41.33	1222.27

*SECNO 20500.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .66

20500.000	1.90	6097.20	.00	.00	6097.54	.34	2.44	.07	6098.00
250.0	.0	250.0	.0	.0	53.3	.0	8.7	2.4	6098.00
.14	.00	4.69	.00	.000	.040	.000	.000	6095.30	1073.96
.010998	345.	350.	350.	3	0	0	.00	40.10	1114.06

*SECNO 20850.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.41

20850.000	2.29	6099.99	.00	.00	6100.20	.21	2.65	.01	6100.00
250.0	.0	250.0	.0	.0	68.6	.0	9.2	2.7	6100.00
.17	.00	3.64	.00	.000	.040	.000	.000	6097.70	1015.05
.005513	355.	350.	345.	2	0	0	.00	44.90	1059.95

*SECNO 21200.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

21200.000	1.50	6104.00	6104.00	.00	6104.48	.48	3.61	.08	6104.00
250.0	.0	250.0	.0	.0	45.0	.0	9.7	3.1	6104.00
.19	.00	5.55	.00	.000	.040	.000	.000	6102.50	1049.99
.025792	335.	350.	370.	10	14	0	.00	50.02	1100.01

*SECNO 21490.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 2.10

21490.000	2.96	6107.35	.00	.00	6107.62	.27	3.12	.02	6111.00
250.0	.0	250.0	.0	.0	60.3	.0	10.0	3.4	6108.00
.21	.00	4.14	.00	.000	.040	.000	.000	6104.40	1053.22
.005872	265.	290.	315.	6	0	0	.00	33.56	1088.78

T1 SHOOKS RUN DRAINAGE BASIN PLANNING STUDY WILSON & COMPANY 90-809

T2 PATTY JEWETT GOLF COURSE TO DOWNSTREAM OF PASEO ROAD

T3 PROPOSED CONDITION 100-YEAR SRPD.DAT

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3	0	0	0	0	0	0	5051.7	0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	0	0	0	0

SECNO	DEPTH	CNSEL	CRWS	WSELX	ES	HV	HL	QLOSS	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

DCHV= .100 CEHV= .300

*SECNO 17625.000

PATTY JEWETT GOLF COURSE

17625.000	10.90	6061.70	6061.65	6061.70	6066.05	4.35	.00	.00	6054.00
3665.0	69.3	3471.3	124.4	25.7	202.0	42.4	.0	.0	6054.00
.00	2.70	17.18	2.94	.100	.035	.100	.000	6050.80	1077.45
.008453	0.	0.	0.	0	4	0	.00	38.55	1116.00

*SECNO 17800.000

3301 HV CHANGED MORE THAN HVINS

17800.000	12.38	6066.58	.00	.00	6067.46	.88	1.06	.35	6082.00
3665.0	.0	3665.0	.0	.0	486.0	.0	1.5	.2	6070.00
.01	.00	7.54	.00	.000	.050	.000	.000	6054.20	1039.87
.004560	175.	175.	185.	4	0	0	.00	58.54	1097.41

*SECNO 18020.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .69

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6073.50 ELREA= 6073.50

18020.000	12.13	6067.53	.00	.00	6069.00	1.47	1.36	.19	6072.00
3555.0	.0	3555.0	.0	.0	365.0	.0	3.7	.5	6072.00
.01	.00	9.74	.00	.000	.050	.000	.000	6055.40	1079.08
.009023	275.	220.	150.	2	0	0	.00	50.19	1128.27

*SECNO 18021.000

3370 NORMAL BRIDGE. NRD= 13 MIN ELTRD= 6074.00 MAX ELRD= 6075.00

OUTFALL GOLF CART BRIDGE

SECD	DEPTH	CHSEL	CRHS	WSELK	EG	HV	HL	CLOSS	L-BANK ELEV
0	QLOB	DCH	OROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTM	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST
18021.000	12.14	6067.54	.00	.00	6069.01	1.47	.01	.00	6072.00
3555.0	.0	3555.0	.0	.0	365.2	.0	3.7	.5	6072.00
.01	.00	9.73	.00	.000	.050	.000	.000	6055.40	1078.07
.009010	1.	1.	1.	0	0	0	.00	50.20	1128.27

*SECD 18029.000

3370 NORMAL BRIDGE. NRD= 13 MIN ELTRD= 6074.00 MAX ELLD= 6075.00

ENTRANCE GOLF CART BRIDGE

18029.000	12.27	6067.67	.00	.00	6069.08	1.42	.07	.01	6072.00
3555.0	.0	3555.0	.0	.0	371.9	.0	3.7	.5	6072.00
.01	.00	9.56	.00	.000	.050	.000	.000	6055.40	1077.93
.008584	8.	8.	8.	2	0	0	.00	50.64	1128.47

*SECD 18030.000

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6074.00 ELREA= 6074.00

18030.000	12.28	6067.68	.00	.00	6069.09	1.42	.01	.00	6072.00
3555.0	.0	3555.0	.0	.0	372.3	.0	3.8	.5	6072.00
.01	.00	9.55	.00	.000	.050	.000	.000	6055.40	1077.92
.008559	1.	1.	1.	0	0	0	.00	50.67	1128.49

*SECD 18310.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.61

18310.000	12.29	6069.89	.00	.00	6070.58	.69	1.41	.07	6075.20
3555.0	.0	3555.0	.0	.0	534.5	.0	6.7	.8	6075.20
.02	.00	6.65	.00	.000	.050	.000	.000	6057.60	1062.34
.003314	310.	280.	250.	2	0	0	.00	60.16	1122.49

*SECD 18311.000

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

3370 NORMAL BRIDGE, NRD= 14 MIN ELTRD= 6076.00 MAX ELLC= 6076.60

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 6075.50 ELREA= 6075.50

OUTFALL GOLF CART BRIDGE

18311.000	12.29	6069.89	.00	.00	6070.58	.69	.00	.00	6075.20
3555.0	.0	3555.0	.0	.0	534.9	.0	6.7	.8	6075.20
.02	.00	6.65	.00	.000	.050	.000	.000	6057.60	1062.33
.003308	1.	1.	1.	0	0	0	.00	60.17	1122.50

*SECNO 18319.000

3370 NORMAL BRIDGE, NRD= 14 MIN ELTRD= 6076.00 MAX ELLC= 6076.60

ENTRANCE GOLF CART BRIDGE

18319.000	12.32	6069.92	.00	.00	6070.61	.69	.03	.00	6075.20
3555.0	.0	3555.0	.0	.0	536.4	.0	6.8	.9	6075.20
.03	.00	6.63	.00	.000	.050	.000	.000	6057.60	1062.29
.003283	8.	8.	8.	0	0	0	.00	60.23	1122.51

*SECNO 18320.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 6076.00 ELREA= 6076.00

18320.000	12.33	6069.93	.00	.00	6070.61	.68	.00	.00	6075.20
3555.0	.0	3555.0	.0	.0	536.8	.0	6.8	.9	6075.20
.03	.00	6.62	.00	.000	.050	.000	.000	6057.60	1062.27
.003275	1.	1.	1.	0	0	0	.00	60.25	1122.52

*SECNO 18390.000

18390.000	11.21	6070.01	.00	.00	6070.98	.97	.29	.09	6074.00
3555.0	.0	3555.0	.0	.0	449.0	.0	7.6	.9	6076.00
.03	.00	7.92	.00	.000	.050	.000	.000	6058.90	1051.56
.005245	65.	70.	75.	2	0	0	.00	57.02	1108.58

QCHV= .300 QEHV= .500

SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	OLDS	L-BANK ELEV
D	OLDP	QCH	OROP	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	TDFWID	ENDST

*SECNO 18450.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

BOTTOM DROP STRUCTURE

18450.000	9.83	6069.83	6069.83	.00	6074.91	5.07	.69	2.05	6070.00
3555.0	.0	3555.0	.0	.0	196.7	.0	8.0	1.0	6070.00
.03	.00	18.07	.00	.000	.050	.000	.000	6060.00	1075.00
.043733	50.	60.	70.	20	13	0	.00	20.00	1095.00

*SECNO 18455.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

CREST DROP STRUCTURE

18455.000	9.26	6075.26	6075.26	.00	6077.54	2.27	.12	.84	6070.00
3555.0	288.1	2395.0	871.9	34.6	185.3	81.3	8.1	1.0	6070.00
.03	8.32	12.93	10.73	.040	.050	.040	.000	6066.00	1061.84
.015222	5.	5.	5.	20	10	0	.00	62.65	1124.48

*SECNO 18475.000

3301 HV CHANGED MORE THAN HVINS

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

18475.000	10.91	6077.01	.00	.00	6078.07	1.06	.17	.34	6076.00
3555.0	9.8	3358.7	187.5	5.1	396.8	47.7	8.2	1.0	6074.00
.03	1.73	8.46	3.93	.040	.050	.040	.000	6066.10	1034.94
.005444	20.	20.	20.	4	0	0	.00	90.16	1125.10

*SECNO 18500.000

18500.000	11.16	6077.46	.00	.00	6078.31	.85	.17	.06	6078.00
3555.0	.0	3555.0	.0	.0	479.8	.0	8.5	1.1	6078.00
.03	.00	7.41	.00	.000	.050	.000	.000	6066.30	1030.43
.009377	30.	25.	20.	2	0	0	.00	110.98	1141.41

SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	CLOSE	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	IDCNT	CORAR	TOPNID	ENDST

*SECNO 18501.000

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE. NRD= 10 MIN ELTRD= 6076.00 MAX ELLC= 6078.00

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

OUTFALL GOLF CART BRIDGE

18501.000	10.78	6077.08	6077.08	.00	6078.82	1.74	.02	.45	6078.00
3555.0	.0	3555.0	.0	.0	335.4	.0	8.5	1.1	6078.00
.03	.00	10.60	.00	.000	.050	.000	.000	6066.30	1034.20
.060581	1.	1.	1.	3	9	0	-105.00	97.79	1131.99

*SECNO 18509.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.92

3370 NORMAL BRIDGE. NRD= 10 MIN ELTRD= 6076.00 MAX ELLC= 6078.00

ENTRANCE GOLF CART BRIDGE

18509.000	12.37	6078.67	.00	.00	6079.36	.70	.23	.31	6078.00
3555.0	6.3	3539.8	8.9	2.8	527.0	3.9	8.6	1.1	6078.00
.03	2.28	6.72	2.28	.040	.050	.040	.000	6066.30	1016.66
.016387	8.	8.	8.	5	0	0	-105.00	150.01	1166.67

*SECNO 18510.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 2.16

18510.000	12.74	6079.04	.00	.00	6079.46	.42	.01	.08	6078.00
3555.0	9.7	3531.6	13.6	6.8	681.0	9.5	8.6	1.1	6078.00
.03	1.43	5.19	1.43	.040	.050	.040	.000	6066.30	1011.94
.003526	1.	1.	1.	2	0	0	.00	161.33	1173.28

SECNO	DEPTH	CWSEL	CRWS	WSELX	ES	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	LNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

*SECNO 18550.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.52

18550.000	12.68	6079.28	.00	.00	6079.58	.30	.09	.03	6076.00
3555.0	78.4	3316.3	160.3	43.2	733.6	73.3	9.3	1.3	6076.00
.03	1.81	4.52	2.19	.040	.050	.040	.000	6066.60	1058.03
.001522	40.	40.	40.	2	0	0	.00	182.55	1240.58

CDHV= .100 CDHV= .300

*SECNO 18650.000

18650.000	11.95	6079.25	.00	.00	6079.98	.63	.20	.10	6078.00
3555.0	17.3	3281.0	256.6	11.8	500.0	83.3	10.9	1.6	6076.00
.04	1.47	6.56	3.08	.040	.050	.040	.000	6067.30	1036.19
.002931	120.	100.	80.	2	0	0	.00	128.89	1165.08

CDHV= .300 CDHV= .500

*SECNO 18710.000

18710.000	11.61	6079.31	.00	.00	6080.30	1.00	.24	.19	6078.00
3555.0	36.0	3442.9	76.1	17.1	423.6	22.2	11.7	1.8	6076.00
.04	2.11	8.13	3.43	.040	.050	.040	.000	6067.70	1043.88
.005689	55.	60.	60.	2	0	0	.00	102.45	1146.33

*SECNO 18711.000

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE. NRD= 12 MIN ELTRD= 6078.00 MAX ELLC= 6078.00

7195 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

OUTFALL GOLF CART BRIDGE

18711.000	11.50	6079.20	6079.20	.00	6080.93	1.73	.01	.37	6078.00
3555.0	87.5	3354.8	112.7	14.3	312.5	14.9	11.7	1.8	6076.00
.04	6.11	10.73	7.55	.040	.050	.040	.000	6067.70	1046.07
.053849	1.	1.	1.	3	6	0	-110.00	98.88	1144.95

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	DLOSS	L-BANK ELEV
0	QLOB	DCH	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	IDONT	CORAR	TDPWID	ENDST

*SECNO 18719.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.93

3370 NORMAL BRIDGE. NRD= 12 MIN ELTRD= 6078.00 MAX ELLC= 6078.00

ENTRANCE GOLF CART BRIDGE

18719.000	13.09	6080.79	.00	.00	6081.45	.66	.20	.32	6078.00
3555.0	184.8	2624.2	446.1	76.6	100.6	70.0	11.8	1.8	6076.00
.04	6.33	6.55	6.37	.040	.050	.040	.000	6067.70	1018.05
.014407	8.	8.	8.	5	0	0	-110.00	164.84	1182.89

*SECNO 18720.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 2.50

18720.000	13.32	6081.02	.00	.00	6081.51	.48	.00	.05	6078.00
3555.0	239.6	3064.3	251.2	88.8	518.0	89.0	11.8	1.8	6076.00
.04	2.70	5.92	2.82	.040	.050	.040	.000	6067.70	1014.66
.002304	1.	1.	1.	2	0	0	.00	176.15	1190.80

*SECNO 18755.000

END CHANNEL TRANSITION

18755.000	12.93	6081.03	.00	.00	6081.68	.65	.09	.08	6078.00
3555.0	177.7	3302.7	74.7	65.2	494.1	29.5	12.3	1.9	6078.00
.04	2.73	6.68	2.53	.040	.050	.040	.000	6068.10	1026.76
.002806	30.	35.	35.	2	0	0	.00	131.21	1157.97

*SECNO 18905.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .53

SECHD	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TDPWID	ENDST

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6083.00 ELREA= 6083.00

OUTFALL ESPANOLA STREET PROPOSED CULVERT

18905.000	10.74	6081.24	.00	.00	6082.90	1.56	.72	.50	6082.00
3555.0	.0	3555.0	.0	.0	343.7	.0	13.9	2.2	6082.00
.05	.00	10.34	.00	.000	.050	.000	.000	6070.50	1099.00
.010134	115.	150.	180.	2	0	0	.00	32.00	1131.00

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFO	RLEN	RISE	SPAN	CULVLN	CHRT	SDL	ELCHU	ELCHD
3		.013	.20	3.00	.00	10.00	10.00	180.00	8	1	6072.80	6070.50

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL

SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 19085.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 4.30

SPECIAL CULVERT

EGIC	EGOC	H4	GWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6086.00	6084.43	2.90	24.	3518.	9.607	300.0	6085.50	79.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6085.50 ELREA= 6085.50

ENTRANCE ESPANOLA STREET PROPOSED CULVERT

19085.000	11.56	6084.36	.00	.00	6085.80	1.43	2.90	.00	6084.00
3555.0	.0	3555.0	.0	.0	370.0	.0	15.3	2.3	6084.00
.05	.00	9.61	.00	.000	.013	.000	.000	6072.80	1190.00
.000548	185.	180.	170.	3	0	0	.00	32.00	1222.00

*SECNO 19130.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.90

19130.000	11.36	6085.46	.00	.00	6086.06	.60	.01	.25	6080.10
3555.0	67.5	3420.1	67.5	74.7	541.4	74.7	15.7	2.4	6080.10
.05	.90	6.32	.90	.040	.013	.040	.000	6074.10	1091.76
.000151	20.	30.	30.	3	0	0	.00	126.49	1218.24

SECNO	DEPTH	DWSEL	CRWS	WSELK	ES	HV	HL	DLOSS	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

QCHV= .100 QCHV= .300

*SECNO 19131.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .40

3370 NORMAL BRIDGE. NRD= 8 MIN ELTRD= 6084.00 MAX ELLC= *****

OUTFALL PROPOSED GOLF CART BRIDGE

19131.000	11.24	6085.34	.00	.00	6086.11	.77	.00	.05	6080.10
3555.0	58.2	3439.7	58.2	54.8	481.0	54.8	15.7	2.4	6080.10
.05	1.06	7.15	1.06	.040	.013	.040	.000	6074.10	1093.25
.000938	1.	1.	1.	2	0	0	-85.38	123.51	1216.75

*SECNO 19139.000

3370 NORMAL BRIDGE. NRD= 9 MIN ELTRD= 6084.00 MAX ELLC= *****

ENTRANCE PROPOSED GOLF CART BRIDGE

19139.000	11.25	6085.35	.00	.00	6086.12	.77	.01	.00	6080.10
3555.0	58.3	3438.3	58.3	54.9	481.2	54.9	15.8	2.4	6080.10
.05	1.06	7.15	1.06	.040	.013	.040	.000	6074.10	1093.19
.000938	8.	8.	8.	0	0	0	-85.38	123.62	1216.81

*SECNO 19140.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 2.53

19140.000	11.45	6085.55	.00	.00	6086.13	.58	.00	.02	6080.10
3555.0	70.0	3414.9	70.0	78.1	546.5	78.1	15.8	2.4	6080.10
.05	.90	6.25	.90	.040	.013	.040	.000	6074.10	1090.58
.000146	1.	1.	1.	2	0	0	.00	128.23	1219.42

*SECNO 19285.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.DWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

END CHANNEL TRANSITION

19295.000	11.20	6089.80	6089.80	.00	6091.61	1.81	.04	.37	6084.60
3555.0	261.1	2629.8	664.1	147.3	210.4	320.1	18.2	3.1	6084.60
.06	1.77	12.50	2.07	.040	.013	.040	.000	6078.60	1113.01
.000773	140.	145.	150.	20	5	0	.00	260.49	1373.49

*SECNO 19315.000

3301 HV CHANGED MORE THAN HVINS

19315.000	11.76	6090.76	6090.03	.00	6091.71	.95	.02	.09	6085.00
3555.0	240.7	2499.3	1115.0	163.8	222.8	686.7	18.9	3.3	6085.00
.06	1.47	9.87	1.62	.040	.013	.040	.000	6079.00	1089.78
.000447	20.	30.	40.	9	5	0	.00	391.17	1480.95

*SECNO 19316.000

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE. NRD= 14 MIN ELTRD= 6087.00 MAX ELLC= 6086.80

OUTFALL GOLF CART BRIDGE

19316.000	12.56	6091.56	.00	.00	6091.79	.23	.00	.07	6085.00
3555.0	411.5	1279.7	1863.9	265.9	218.1	893.6	18.9	3.3	6085.00
.06	1.55	5.87	2.09	.040	.013	.040	.000	6079.00	1032.64
.000590	1.	1.	1.	3	0	0	-35.00	469.98	1502.62

*SECNO 19320.000

3370 NORMAL BRIDGE. NRD= 14 MIN ELTRD= 6087.00 MAX ELLC= 6086.80

ENTRANCE GOLF CART BRIDGE

19320.000	12.56	6091.56	.00	.00	6091.79	.23	.00	.00	6085.00
3555.0	412.4	1277.6	1865.0	267.1	218.3	895.6	19.0	3.4	6085.00
.06	1.54	5.85	2.08	.040	.013	.040	.000	6079.00	1032.11
.000587	4.	4.	4.	0	0	0	-35.00	470.71	1502.82

*SECNO 19321.000

19321.000	12.24	6091.24	.00	.00	6091.93	.69	.00	.14	6085.00
3555.0	284.2	2037.0	1233.9	224.7	233.3	814.8	19.0	3.4	6085.00
.06	1.26	8.73	1.51	.040	.013	.040	.000	6079.00	1054.94
.000328	1.	1.	1.	2	0	0	.00	439.22	1494.16

SECD	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSE	L-BANK ELEV
B	QLOB	DCH	OROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECND 19480.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

19480.000	11.28	6092.58	6092.58	.00	6094.44	1.86	.07	.35	6087.30
3460.0	170.0	2646.5	643.5	84.3	212.2	349.9	22.5	4.6	6087.30
.06	2.02	12.47	1.84	.040	.013	.040	.000	6081.30	1003.55
.000761	195.	159.	145.	20	11	0	.00	248.66	1252.21

*SECND 19481.000

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE. NRD= 15 MIN ELTRD= 6090.00 MAX ELLC= 6089.80

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

OUTFALL GOLF CART BRIDGE

19481.000	12.92	6094.22	6092.58	.00	6094.59	.37	.00	.15	6087.30
3460.0	264.9	1562.9	1632.2	137.1	226.2	774.4	22.5	4.6	6087.30
.06	1.93	6.91	2.11	.040	.013	.040	.000	6081.30	995.64
.000779	1.	1.	1.	23	12	0	-40.00	100.69	1396.33

*SECND 19489.000

3370 NORMAL BRIDGE. NRD= 15 MIN ELTRD= 6090.00 MAX ELLC= 6089.80

ENTRANCE GOLF CART BRIDGE

19489.000	12.93	6094.23	.00	.00	6094.60	.37	.01	.00	6087.30
3460.0	265.1	1560.2	1634.6	137.5	226.4	777.0	22.7	4.7	6087.30
.06	1.93	6.89	2.10	.040	.013	.040	.000	6081.30	995.49
.000775	8.	8.	8.	0	0	0	-40.00	101.43	1396.92

*SECND 19490.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	QLOSS	L-BANK ELEV
D	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPNID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.46

19490.000	12.55	6093.85	.00	.00	6094.75	.91	.00	.16	6087.30
3460.0	222.0	2258.3	979.7	131.7	240.3	667.9	22.7	4.7	6087.30
.06	1.69	9.40	1.47	.040	.013	.040	.000	6081.30	1000.35
.000366	1.	1.	1.	2	0	0	.00	366.90	1367.26

1SECNO 19745.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

19745.000	10.08	6095.08	6095.08	.00	6095.05	.98	.12	.02	6091.00
3460.0	957.0	1945.5	557.4	558.6	185.7	425.8	29.2	7.5	6091.00
.07	1.71	10.48	1.31	.040	.013	.040	.000	6085.00	1032.32
.000641	255.	255.	255.	20	14	0	.00	598.05	1630.37

1SECNO 19746.000

3280 CROSS SECTION 19746.00 EXTENDED .01 FEET

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE. NRD= 13 MIN ELTRD= 6092.00 MAX ELLC= 6091.00

OUTFALL GOLF CART BRIDGE

19746.000	11.01	6096.01	.00	.00	6096.14	.13	.00	.08	6091.00
3460.0	1471.5	901.3	1087.2	808.3	184.2	749.0	29.2	7.6	6091.00
.07	1.82	4.89	1.45	.040	.013	.040	.000	6085.00	1000.00
.000514	1.	1.	1.	4	0	0	-31.00	695.90	1695.90

1SECNO 19754.000

3290 CROSS SECTION 19754.00 EXTENDED .01 FEET

3370 NORMAL BRIDGE. NRD= 13 MIN ELTRD= 6092.00 MAX ELLC= 6091.00

ENTRANCE GOLF CART BRIDGE

19754.000	11.01	6096.01	.00	.00	6096.14	.13	.00	.00	6091.00
3460.0	1471.6	899.8	1088.6	809.8	184.3	751.1	29.5	7.7	6091.00
.08	1.82	4.88	1.45	.040	.013	.040	.000	6085.00	1000.00
.000511	8.	8.	8.	0	0	0	-31.00	696.52	1696.52

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	IDONT	CORAR	TOPWID	ENDST

*SECNO 19755.000

19755.000	10.75	6095.75	.00	.00	6096.25	.50	.00	.11	6091.00
3460.0	1072.4	1632.4	755.2	742.1	200.7	660.3	29.6	7.7	6091.00
.08	1.45	8.13	1.14	.040	.013	.040	.000	6085.00	1008.41
.000348	1.	1.	1.	2	0	0	.00	669.78	1678.18

*SECNO 19845.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .55

END CHANNEL LINING

19845.000	9.68	6096.18	.00	.00	6096.31	.14	.02	.04	6090.50
1110.0	198.1	483.9	428.0	279.5	109.8	670.4	32.3	9.0	6090.50
.09	.71	4.41	.64	.040	.013	.040	.000	6086.50	910.58
.000117	100.	90.	80.	3	0	0	.00	600.61	1511.19

*SECNO 19960.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .53

19960.000	8.42	6096.32	.00	.00	6096.34	.03	.02	.01	6092.00
1110.0	73.4	268.0	768.6	53.3	195.5	591.1	34.5	10.1	6092.00
.11	1.38	1.37	1.30	.040	.075	.040	.000	6087.90	1012.62
.000418	160.	115.	80.	2	0	0	.00	404.51	1417.13

CCHV= .300 CEHV= .500

*SECNO 20010.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .51

OUTFALL SOLE DART PATH CULVERT

20010.000	7.60	6096.30	.00	.00	6096.43	.13	.03	.05	6088.70
1110.0	495.4	116.9	497.7	167.6	38.0	173.1	35.1	10.5	6088.70
.11	2.96	3.08	2.88	.040	.075	.040	.000	6088.70	1029.78
.001615	60.	50.	40.	2	0	0	.00	221.99	1251.77

SECNO	DEPTH	CHSEL	CRIMS	WSELK	EG	HV	HL	DLOSE	L-BANK ELEV
0	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

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFO	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
1		.027	.80	3.00	.00	3.30	4.90	15.00	8	3	6089.00	6088.70

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL

SCALE 3 - WINGWALLS FLARED 0 DEGREES (SIDES EXTENDED STRAIGHT)

5130. EGIC= 6291.00..MAY BE TOO LARGE IF INLET CONTROLS.

5135. EGOC= 6251.78 ..MAY BE TOO LARGE IF OUTLET CONTROLS.

*SECNO 20025.000

3840	SECTION NOT HIGH ENOUGH	6291.000	6147.000	6089.000	6148.000	6096.315	8
3840	SECTION NOT HIGH ENOUGH	6291.000	6197.000	6089.000	6198.000	6096.315	8
3840	SECTION NOT HIGH ENOUGH	6291.000	6247.000	6089.000	6248.000	6096.315	8

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6291.00	6251.78	.03	947.	172.	3.219	16.2	6094.00	188.

ENTRANCE GOLF CART PATH CULVERT

20025.000	7.30	6096.30	.00	.00	6096.46	.16	.03	.00	6089.00
1110.0	520.7	117.4	471.9	166.0	36.5	141.7	35.2	10.5	6089.00
.11	3.14	3.22	3.33	.040	.075	.040	.000	6089.00	1029.81
.001864	15.	15.	15.	2	0	0	.00	176.49	1206.30

*SECNO 20050.000

20050.000	7.05	6096.35	.00	.00	6096.52	.17	.06	.00	6092.00
1110.0	535.5	471.8	102.7	151.6	144.0	42.8	35.4	10.6	6094.00
.12	3.53	3.28	2.11	.040	.075	.040	.000	6089.30	1033.22
.002899	25.	25.	25.	0	0	0	.00	187.61	1220.83

QCHV= .100 QCHV= .300

*SECNO 20095.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .42

20095.000	6.08	6096.08	.00	.00	6096.84	.75	.14	.17	6095.00
1110.0	4.4	1101.2	4.4	1.5	157.6	1.5	35.6	10.7	6095.00
.12	2.99	6.99	2.99	.040	.075	.040	.000	6090.00	1147.29
.016192	25.	25.	25.	2	0	0	.00	35.43	1132.71

SECNO	DEPTH	CNSEL	CRIMS	WSELX	ES	HV	HL	DLOSS	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

#SECNO 20096.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .44

3370 NORMAL BRIDGE. NRD= 9 MIN ELTRD= 6097.00 MAX ELLC= 6095.00

OUTFALL GOLF CART BRIDGE

20096.000	5.79	6095.79	.00	.00	6097.01	1.22	.03	.14	6095.00
1110.0	.0	1110.0	.0	.0	125.0	.0	35.6	10.7	6095.00
.12	.00	8.88	.00	.000	.075	.000	.000	6090.00	1148.04
.082515	1.	1.	1.	2	0	0	-25.10	33.93	1181.96

#SECNO 20104.000

3370 NORMAL BRIDGE. NRD= 9 MIN ELTRD= 6097.00 MAX ELLC= 6095.00

ENTRANCE GOLF CART BRIDGE

20104.000	6.45	6096.45	.00	.00	6097.67	1.22	.58	.00	6095.00
1110.0	.0	1110.0	.0	.0	125.0	.0	35.6	10.7	6095.00
.12	.00	8.88	.00	.000	.075	.000	.000	6090.00	1148.39
.082515	8.	8.	8.	2	0	0	-48.58	37.23	1183.61

#SECNO 20105.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 3.43

20105.000	7.35	6097.35	.00	.00	6097.77	.41	.02	.08	6095.00
1110.0	32.2	1038.3	39.5	14.6	195.6	22.1	35.6	10.7	6095.00
.12	2.20	5.31	1.79	.040	.075	.040	.000	6090.00	1100.75
.006998	1.	1.	1.	3	0	0	.00	170.98	1271.73

#SECNO 20150.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 2.13

20150.000	6.57	6097.87	.00	.00	6097.93	.07	.13	.03	6094.00
1110.0	298.1	438.5	371.4	148.7	176.7	253.6	36.0	11.0	6094.00
.12	1.99	2.49	1.48	.040	.075	.040	.000	6091.30	1072.05
.001550	45.	45.	45.	3	0	0	.00	408.48	1481.54

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	OLDS	L-BANK ELEV
Q	QLOB	QCH	QROF	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROF	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAP	TOPWID	ENDST

*SECNO 20500.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

20500.000	3.44	6098.74	6098.74	.00	6099.92	1.18	1.27	.33	6098.00
1110.0	3.5	1100.5	6.0	1.4	125.9	2.5	38.9	12.9	6098.00
.13	2.41	8.74	2.43	.040	.040	.040	.000	6095.30	1066.11
.016326	345.	350.	350.	20	11	0	.00	60.60	1126.72

*SECNO 20850.000

3280 CROSS SECTION 20850.00 EXTENDED .60 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. XCRATIO = 1.88

20850.000	4.50	6102.20	.00	.00	6102.73	.53	2.75	.06	6100.00
1110.0	50.8	1016.3	42.4	18.1	163.2	14.0	40.2	13.4	6100.00
.15	2.81	6.05	3.02	.040	.040	.040	.000	6097.70	1000.00
.004616	355.	350.	345.	4	0	0	.00	70.00	1070.00

*SECNO 21200.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

21200.000	3.06	6105.56	6105.56	.00	6106.40	.84	2.56	.09	6104.00
1110.0	87.8	956.4	65.8	24.2	122.9	18.2	41.7	14.1	6104.00
.16	3.62	7.78	3.62	.040	.040	.040	.000	6102.50	1018.86
.013294	335.	350.	370.	4	20	0	.00	104.50	1123.36

*SECNO 21490.000

21490.000	4.63	6109.08	.00	.00	6110.17	1.09	3.70	.07	6111.00
1110.0	.0	1088.5	21.5	.0	129.0	7.9	42.7	14.7	6109.00
.17	.00	8.44	2.73	.000	.040	.040	.000	6104.40	1047.28
.012241	265.	290.	315.	2	0	0	.00	57.21	1104.49

THIS RUN EXECUTED 13JUL93 14:49:03

HEC-2 WATER SURFACE PROFILES

Version 4.6.0: February 1991

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

DESIGN CONDITION 10-YE

SUMMARY PRINTOUT TABLE 100

SECNO	EGLWC	ELLC	EGPRS	ELTRD	QPR	QWEIR	CLASS	H3	DEPTH	CNSEL	VCH	EG
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DESIGN CONDITION 10-YE

SUMMARY PRINTOUT TABLE 101

	SECND	EBDC	ELLC	EBIC	ELTRD	BCULV	QWEIR	CLASS	H4	DEPTH	CHSEL	VCH	EG
†	19085.000	6078.37	6082.80	6078.17	6085.50	1080.00	.00	7.00	2.18	4.80	6077.60	7.02	6078.37
†	19085.000	6084.43	6082.80	6085.00	6085.50	3518.09	23.62	16.00	2.90	11.56	6084.36	9.41	6085.80
†	20025.000	6101.07	6092.30	6101.78	6094.00	138.97	110.89	16.00	1.47	5.75	6094.75	1.43	6094.80
	20025.000	6251.78	6092.30	6291.00	6094.00	171.97	916.82	16.00	.03	7.30	6096.30	3.22	6096.46

USED CONDITION 10-YE

SUMMARY PRINTOUT TABLE 105

SECNO	CWSEL	HL	QLOSS	TOPWID	QLOB	QCH	QROB
18755.000	6074.57	.24	.06	40.34	.00	1080.00	.00
18755.000	6081.03	.09	.08	131.21	177.66	3302.65	74.69
18905.000	6075.47	1.01	.11	32.00	.00	1080.00	.00
* 18905.000	6081.24	.72	.50	32.00	.00	3555.00	.00
* 19085.000	6077.60	2.18	.00	32.00	.00	1080.00	.00
* 19085.000	6084.36	2.90	.00	32.00	.00	3555.00	.00
* 19130.000	6077.39	.03	.24	43.17	.00	1080.00	.00
* 19130.000	6085.46	.01	.25	126.49	67.46	3420.07	67.46
* 19960.000	6093.10	.04	.01	71.25	3.89	220.46	25.64
* 19960.000	6096.32	.02	.01	404.51	73.36	268.02	768.62
20010.000	6093.18	.12	.04	30.89	96.84	56.31	96.84
* 20010.000	6096.30	.03	.05	221.99	495.39	116.93	497.68
* 20025.000	6094.75	1.47	.00	80.18	105.05	41.14	103.81
20025.000	6096.30	.03	.00	176.49	520.65	117.42	471.93
20050.000	6094.78	.02	.00	81.45	82.27	164.80	2.93
20050.000	6096.35	.06	.00	187.61	535.51	471.76	102.73

OSPD CONDITION 10-YE

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	D	CNSEL	CRIMS	EG	10*KS	VCH	AREA	.01K
17625.000	.00	.00	.00	6050.80	1105.00	6056.70	.00	6058.47	81.85	10.72	110.25	122.14
17625.000	.00	.00	.00	6050.80	3555.00	6061.70	6061.65	6066.05	84.53	17.18	270.03	398.63
17800.000	175.00	.00	.00	6054.20	1105.00	6059.35	.00	6060.26	118.00	7.66	144.19	101.72
17800.000	175.00	.00	.00	6054.20	3555.00	6066.58	.00	6067.46	45.60	7.54	485.95	542.71
18020.000	220.00	.00	.00	6055.40	1080.00	6061.91	.00	6062.90	119.89	7.98	135.28	98.63
* 18020.000	220.00	.00	.00	6055.40	3555.00	6067.53	.00	6069.00	90.23	9.74	365.04	374.25
18021.000	1.00	6074.00	6075.00	6055.40	1080.00	6061.93	.00	6062.91	119.01	7.96	135.65	99.00
18021.000	1.00	6074.00	6075.00	6055.40	3555.00	6067.54	.00	6069.01	90.10	9.73	365.24	374.52
18029.000	8.00	6074.00	6075.00	6055.40	1080.00	6062.11	.00	6063.01	106.00	7.63	141.59	104.90
18029.000	8.00	6074.00	6075.00	6055.40	3555.00	6067.67	.00	6069.08	85.84	9.56	371.91	383.69
18030.000	1.00	.00	.00	6055.40	1080.00	6062.12	.00	6063.02	105.33	7.61	141.92	105.23
18030.000	1.00	.00	.00	6055.40	3555.00	6067.68	.00	6069.09	85.59	9.55	372.33	384.27
* 18310.000	280.00	.00	.00	6057.60	1080.00	6064.25	.00	6064.58	32.47	4.63	233.24	189.53
* 18310.000	280.00	.00	.00	6057.60	3555.00	6069.89	.00	6070.58	33.14	6.65	534.54	617.55
18311.000	1.00	6076.00	6076.60	6057.60	1080.00	6064.25	.00	6064.58	32.34	4.62	233.56	189.91
18311.000	1.00	6076.00	6076.60	6057.60	3555.00	6069.89	.00	6070.58	33.08	6.65	534.96	618.07
18319.000	8.00	6076.00	6076.60	6057.60	1080.00	6064.28	.00	6064.61	31.90	4.60	234.66	191.21
18319.000	8.00	6076.00	6076.60	6057.60	3555.00	6069.92	.00	6070.61	32.83	6.63	536.36	620.49
18320.000	1.00	.00	.00	6057.60	1080.00	6064.29	.00	6064.61	31.79	4.60	234.95	191.56
18320.000	1.00	.00	.00	6057.60	3555.00	6069.93	.00	6070.61	32.75	6.62	536.83	621.24
* 18390.000	70.00	.00	.00	6058.80	1080.00	6064.41	.00	6065.02	73.45	6.27	172.37	126.02
18390.000	70.00	.00	.00	6058.80	3555.00	6070.01	.00	6070.98	52.45	7.92	449.03	490.88
* 18450.000	60.00	.00	.00	6060.00	1080.00	6064.47	6064.47	6066.74	367.28	12.08	89.39	56.35
* 18450.000	60.00	.00	.00	6060.00	3555.00	6069.83	6069.83	6074.91	437.33	18.07	196.70	169.99
* 18455.000	5.00	.00	.00	6066.00	1080.00	6070.69	6070.69	6072.71	295.79	11.44	96.13	62.80
* 18455.000	5.00	.00	.00	6066.00	3555.00	6075.26	6075.26	6077.54	152.22	12.93	301.23	288.14
* 18475.000	20.00	.00	.00	6066.10	1080.00	6072.98	.00	6073.35	32.09	4.85	222.85	190.66
* 18475.000	20.00	.00	.00	6066.10	3555.00	6077.01	.00	6078.07	54.44	8.46	449.57	481.81
18500.000	25.00	.00	.00	6066.30	1080.00	6073.05	.00	6073.46	40.04	5.17	209.90	170.67
18500.000	25.00	.00	.00	6066.30	3555.00	6077.46	.00	6078.31	93.77	7.41	479.78	367.11
18501.000	1.00	6076.00	6078.00	6066.30	1080.00	6073.05	.00	6073.47	39.85	5.17	209.09	170.88
* 18501.000	1.00	6076.00	6078.00	6066.30	3555.00	6077.08	6077.08	6078.82	605.81	10.60	335.43	144.43

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRINS	EG	10*KS	VCH	AREA	.01K
18509.000	8.00	6076.00	6078.00	6066.30	1080.00	6073.09	.00	6073.50	39.19	5.13	210.52	172.51
* 18509.000	8.00	6076.00	6078.00	6066.30	3555.00	6078.67	.00	6079.36	163.87	6.72	533.64	277.71
18510.000	1.00	.00	.00	6066.30	1080.00	6073.10	.00	6073.51	38.97	5.12	210.95	173.00
* 18510.000	1.00	.00	.00	6066.30	3555.00	6079.04	.00	6079.46	35.26	5.19	697.40	599.72
18550.000	10.00	.00	.00	6066.60	1080.00	6073.40	.00	6073.69	35.74	4.35	248.27	180.66
* 18550.000	10.00	.00	.00	6066.60	3555.00	6079.28	.00	6079.58	15.22	4.52	850.14	911.13
18650.000	100.00	.00	.00	6067.30	1080.00	6073.71	.00	6074.11	43.00	5.12	211.12	164.70
18650.000	100.00	.00	.00	6067.30	3555.00	6079.25	.00	6079.88	29.31	6.56	595.10	656.62
* 18710.000	60.00	.00	.00	6067.70	1080.00	6073.91	.00	6074.67	100.31	7.00	154.39	107.83
18710.000	60.00	.00	.00	6067.70	3555.00	6079.31	.00	6080.30	56.89	8.13	462.84	471.32
18711.000	1.00	6078.00	6078.00	6067.70	1080.00	6073.92	.00	6074.68	99.82	6.98	154.69	108.10
* 18711.000	1.00	6078.00	6078.00	6067.70	3555.00	6079.20	6079.20	6080.93	538.49	10.73	341.78	153.20
18719.000	8.00	6078.00	6078.00	6067.70	1080.00	6074.07	.00	6074.77	90.61	6.72	160.67	113.46
* 18719.000	8.00	6078.00	6078.00	6067.70	3555.00	6080.79	.00	6081.45	144.07	6.55	547.23	296.18
18720.000	1.00	.00	.00	6067.70	1080.00	6074.08	.00	6074.78	90.09	6.71	161.04	113.78
* 18720.000	1.00	.00	.00	6067.70	3555.00	6081.02	.00	6081.51	23.04	5.92	695.77	740.60
18755.000	35.00	.00	.00	6068.10	1080.00	6074.57	.00	6075.08	52.72	5.69	189.82	148.74
18755.000	35.00	.00	.00	6068.10	3555.00	6081.03	.00	6081.68	28.06	6.68	588.76	671.08
18905.000	150.00	.00	.00	6070.50	1080.00	6075.47	.00	6076.19	88.09	6.79	159.16	115.07
* 18905.000	150.00	.00	.00	6070.50	3555.00	6081.24	.00	6082.90	101.34	10.34	343.72	353.13
* 19085.000	180.00	6085.50	6082.80	6072.80	1080.00	6077.60	.00	6078.37	6.61	7.03	153.73	420.01
* 19085.000	180.00	6085.50	6082.80	6072.80	3555.00	6084.36	.00	6085.80	5.48	9.61	370.05	1518.67
* 19130.000	30.00	.00	.00	6074.10	1080.00	6077.39	.00	6078.64	16.42	8.97	120.46	266.54
* 19130.000	30.00	.00	.00	6074.10	3555.00	6085.46	.00	6086.06	1.51	6.32	690.77	2891.03
19131.000	1.00	6084.00-999999.00		6074.10	1080.00	6077.39	.00	6078.64	16.42	8.97	120.46	266.54
* 19131.000	1.00	6084.00-999999.00		6074.10	3555.00	6085.34	.00	6086.11	9.38	7.15	590.49	1160.67
19139.000	8.00	6084.00-999999.00		6074.10	1080.00	6077.57	.00	6078.67	13.56	8.40	128.51	293.31
19139.000	8.00	6084.00-999999.00		6074.10	3555.00	6085.35	.00	6086.12	9.36	7.15	591.04	1161.75
19140.000	1.00	.00	.00	6074.10	1080.00	6077.57	.00	6078.67	13.62	8.42	128.30	292.59
* 19140.000	1.00	.00	.00	6074.10	3555.00	6085.55	.00	6086.13	1.46	6.25	702.74	2940.66
* 19285.000	145.00	.00	.00	6078.60	1080.00	6084.40	6084.40	6086.56	20.23	11.79	91.64	240.11
* 19285.000	145.00	.00	.00	6078.60	3555.00	6089.80	6089.80	6091.61	7.73	12.50	677.80	1278.25
* 19315.000	30.00	.00	.00	6079.00	1080.00	6084.82	6084.82	6086.96	19.97	11.73	92.07	241.66
19315.000	30.00	.00	.00	6079.00	3555.00	6090.76	6090.03	6091.71	4.47	9.87	1073.25	1681.89

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10*KS	VCH	AREA	.01K
19316.000	1.00	6087.00	6086.80	6079.00	1080.00	6084.84	6084.83	6086.96	19.77	11.69	92.41	242.87
19316.000	1.00	6087.00	6086.80	6079.00	3555.00	6091.56	.00	6091.79	5.90	5.87	1377.58	1463.55
19320.000	4.00	6087.00	6086.80	6079.00	1080.00	6085.17	.00	6087.00	15.84	10.86	99.54	271.38
19320.000	4.00	6087.00	6086.80	6079.00	3555.00	6091.56	.00	6091.79	5.87	5.85	1381.03	1467.69
19321.000	1.00	.00	.00	6079.00	1080.00	6085.18	.00	6087.00	15.72	10.84	99.67	272.36
19321.000	1.00	.00	.00	6079.00	3555.00	6091.24	.00	6091.93	3.28	5.73	1272.74	1961.75
* 19480.000	159.00	.00	.00	6081.30	1050.00	6087.02	6087.02	6089.14	20.11	11.67	89.96	234.16
* 19480.000	159.00	.00	.00	6081.30	3460.00	6092.58	6092.58	6094.44	7.61	12.47	646.38	1254.22
19481.000	1.00	6090.00	6089.80	6081.30	1050.00	6087.03	6087.02	6089.14	20.08	11.67	90.01	234.31
* 19481.000	1.00	6090.00	6089.80	6081.30	3460.00	6094.22	6092.58	6094.59	7.79	6.91	1137.71	1239.39
19489.000	8.00	6090.00	6089.80	6081.30	1050.00	6087.46	.00	6089.19	15.00	10.56	99.70	271.11
19489.000	8.00	6090.00	6089.80	6081.30	3460.00	6094.23	.00	6094.60	7.75	6.89	1140.85	1243.08
19490.000	1.00	.00	.00	6081.30	1050.00	6087.47	.00	6089.19	14.93	10.55	99.54	271.77
* 19490.000	1.00	.00	.00	6081.30	3460.00	6093.85	.00	6094.76	3.66	9.40	1039.82	1808.71
* 19745.000	255.00	.00	.00	6085.00	1050.00	6090.73	6090.73	6092.84	20.02	11.65	90.10	234.65
* 19745.000	255.00	.00	.00	6085.00	3460.00	6095.08	6095.08	6096.05	6.41	10.48	1170.04	1366.21
19746.000	1.00	6092.00	6091.00	6085.00	1050.00	6090.84	6090.83	6092.85	18.74	11.37	92.32	242.57
19746.000	1.00	6092.00	6091.00	6085.00	3460.00	6096.01	.00	6096.14	5.14	4.89	1741.43	1526.22
19754.000	8.00	6092.00	6091.00	6085.00	1050.00	6091.03	.00	6092.88	37.32	10.94	96.00	171.89
19754.000	8.00	6092.00	6091.00	6085.00	3460.00	6096.01	.00	6096.14	5.11	4.88	1745.17	1530.47
* 19755.000	1.00	.00	.00	6085.00	1050.00	6091.21	.00	6092.90	14.44	10.44	100.53	276.28
19755.000	1.00	.00	.00	6085.00	3460.00	6095.75	.00	6096.25	3.48	8.13	1603.07	1853.76
19845.000	90.00	.00	.00	6086.50	250.00	6092.94	.00	6093.12	1.39	3.48	95.69	212.07
* 19845.000	90.00	.00	.00	6086.50	1110.00	6096.13	.00	6096.31	1.17	4.41	1059.72	1026.26
* 19960.000	115.00	.00	.00	6087.90	250.00	6093.10	.00	6093.17	27.35	2.23	121.70	47.80
* 19960.000	115.00	.00	.00	6087.90	1110.00	6096.32	.00	6096.34	4.18	1.37	839.94	542.73
20010.000	50.00	.00	.00	6088.70	250.00	6093.19	.00	6093.33	21.83	2.52	82.41	53.50
* 20010.000	50.00	.00	.00	6088.70	1110.00	6096.30	.00	6096.43	16.15	3.08	379.72	276.20
* 20025.000	15.00	6094.00	6092.30	6089.00	250.00	6094.75	.00	6094.80	5.05	1.43	148.36	111.21
20025.000	15.00	6094.00	6092.30	6089.00	1110.00	6096.30	.00	6096.46	18.64	3.22	344.12	257.07
20050.000	25.00	.00	.00	6089.30	250.00	6094.78	.00	6094.82	10.08	1.57	162.17	78.73
20050.000	25.00	.00	.00	6089.30	1110.00	6096.35	.00	6096.52	28.99	3.28	344.32	266.15
* 20095.000	25.00	.00	.00	6090.00	250.00	6094.79	.00	6094.86	20.81	2.10	118.99	54.81
* 20095.000	25.00	.00	.00	6090.00	1110.00	6096.08	.00	6096.96	161.92	6.79	160.51	87.23

	SECND	XLCH	ELTRD	ELLC	ELMIN	Q	CHSEL	CRINS	EG	10*KG	VCH	AREA	.01K
	20095.000	1.00	6097.00	6095.00	6090.00	250.00	6094.79	.00	6094.86	20.86	2.10	119.88	54.73
*	20095.000	1.00	6097.00	6095.00	6090.00	1110.00	6095.79	.00	6097.01	825.15	8.88	125.00	38.64
	20104.000	8.00	6097.00	6095.00	6090.00	250.00	6094.81	.00	6094.88	20.62	2.09	119.37	55.06
	20104.000	8.00	6097.00	6095.00	6090.00	1110.00	6096.45	.00	6097.67	825.15	8.88	125.00	38.64
	20105.000	1.00	.00	.00	6090.00	250.00	6094.81	.00	6094.88	20.57	2.09	119.45	55.12
*	20105.000	1.00	.00	.00	6090.00	1110.00	6097.35	.00	6097.77	69.98	5.31	232.34	132.69
*	20150.000	45.00	.00	.00	6091.30	250.00	6094.92	.00	6095.03	48.20	2.75	93.10	36.01
*	20150.000	45.00	.00	.00	6091.30	1110.00	6097.87	.00	6097.93	15.50	2.49	579.06	291.97
*	20500.000	350.00	.00	.00	6095.30	250.00	6097.20	.00	6097.54	109.98	4.69	53.32	23.84
*	20500.000	350.00	.00	.00	6095.30	1110.00	6098.74	6098.74	6099.92	163.26	8.74	129.86	86.87
*	20850.000	350.00	.00	.00	6097.70	250.00	6099.99	.00	6100.20	55.13	3.64	68.64	33.67
*	20850.000	350.00	.00	.00	6097.70	1110.00	6102.20	.00	6102.73	46.16	6.05	200.25	163.38
*	21200.000	350.00	.00	.00	6102.50	250.00	6104.00	6104.00	6104.48	257.92	5.55	45.02	15.57
*	21200.000	350.00	.00	.00	6102.50	1110.00	6105.56	6105.56	6106.40	132.94	7.78	165.29	96.27
*	21490.000	290.00	.00	.00	6104.40	250.00	6107.35	.00	6107.62	58.72	4.14	60.31	32.63
	21490.000	290.00	.00	.00	6104.40	1110.00	6109.08	.00	6110.17	122.41	8.44	136.83	100.32

USED CONDITION 10-YE

SUMMARY PRINTOUT TABLE 150

SECD	Q	QWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
17625.000	1105.00	6056.70	.00	.00	.00	26.11	.00
17625.000	3665.00	6061.70	5.00	.00	.00	38.55	.00
17800.000	1105.00	6059.35	.00	2.65	.00	36.03	175.00
17800.000	3665.00	6066.58	7.23	4.88	.00	58.54	175.00
18020.000	1080.00	6061.91	.00	2.56	.00	31.57	220.00
* 18020.000	3555.00	6067.53	5.62	.95	.00	50.19	220.00
19021.000	1080.00	6061.93	.00	.02	.00	31.61	1.00
19021.000	3555.00	6067.54	5.61	.01	.00	50.20	1.00
19029.000	1080.00	6062.11	.00	.18	.00	32.22	8.00
19029.000	3555.00	6067.67	5.56	.13	.00	50.64	8.00
19030.000	1080.00	6062.12	.00	.02	.00	32.26	1.00
19030.000	3555.00	6067.68	5.56	.01	.00	50.67	1.00
* 18310.000	1080.00	6064.25	.00	2.13	.00	46.64	280.00
* 18310.000	3555.00	6069.89	5.64	2.21	.00	60.16	280.00
18311.000	1080.00	6064.25	.00	.00	.00	46.65	1.00
18311.000	3555.00	6069.89	5.64	.00	.00	60.17	1.00
18319.000	1080.00	6064.28	.00	.03	.00	46.71	8.00
18319.000	3555.00	6069.92	5.64	.03	.00	60.23	8.00
18320.000	1080.00	6064.29	.00	.00	.00	46.73	1.00
18320.000	3555.00	6069.93	5.64	.00	.00	60.25	1.00
* 18390.000	1080.00	6064.41	.00	.13	.00	41.81	70.00
18390.000	3555.00	6070.01	5.60	.08	.00	57.02	70.00
* 18450.000	1080.00	6064.47	.00	.06	.00	20.00	60.00
* 18450.000	3555.00	6069.83	5.37	-.18	.00	20.00	60.00
* 18455.000	1080.00	6070.69	.00	6.22	.00	26.88	5.00
* 18455.000	3555.00	6075.26	4.58	5.43	.00	62.65	5.00
* 18475.000	1080.00	6072.98	.00	2.30	.00	39.78	20.00
* 18475.000	3555.00	6077.01	4.02	1.74	.00	90.16	20.00
18500.000	1080.00	6073.05	.00	.06	.00	41.91	25.00
18500.000	3555.00	6077.46	4.41	.45	.00	110.98	25.00
18501.000	1080.00	6073.05	.00	.01	.00	41.92	1.00
* 18501.000	3555.00	6077.08	4.02	-.38	.00	97.79	1.00

	SECHD	Q	CWSEL	DIFWSP	DIFWEX	DIFKNS	TOPWID	XLCH
	18509.000	1080.00	6073.09	.00	.04	.00	42.04	8.00
†	18509.000	3555.00	6078.67	5.57	1.59	.00	150.01	8.00
	18510.000	1080.00	6073.10	.00	.01	.00	42.07	1.00
†	18510.000	3555.00	6079.04	5.94	.37	.00	161.33	1.00
	18550.000	1080.00	6073.40	.00	.30	.00	60.72	40.00
†	18550.000	3555.00	6079.28	5.88	.24	.00	182.55	40.00
	18650.000	1080.00	6073.71	.00	.31	.00	46.12	100.00
	18650.000	3555.00	6079.25	5.55	-.03	.00	129.89	100.00
†	18710.000	1080.00	6073.91	.00	.20	.00	38.28	60.00
	18710.000	3555.00	6079.31	5.40	.05	.00	102.45	60.00
	18711.000	1080.00	6073.92	.00	.01	.00	38.32	1.00
†	18711.000	3555.00	6079.20	5.27	-.11	.00	98.88	1.00
	18719.000	1080.00	6074.07	.00	.15	.00	39.19	8.00
†	18719.000	3555.00	6080.79	6.72	1.60	.00	164.84	8.00
	18720.000	1080.00	6074.08	.00	.01	.00	39.24	1.00
†	18720.000	3555.00	6081.02	6.94	.23	.00	176.15	1.00
	18755.000	1080.00	6074.57	.00	.49	.00	40.34	35.00
	18755.000	3555.00	6081.03	6.45	.00	.00	131.21	35.00
	18905.000	1080.00	6075.47	.00	.90	.00	32.00	150.00
†	18905.000	3555.00	6081.24	5.77	.22	.00	32.00	150.00
†	19085.000	1080.00	6077.60	.00	2.13	.00	32.00	180.00
†	19085.000	3555.00	6084.36	6.76	3.12	.00	32.00	180.00
†	19130.000	1080.00	6077.39	.00	-.21	.00	43.17	30.00
†	19130.000	3555.00	6085.46	8.07	1.10	.00	126.49	30.00
	19131.000	1080.00	6077.39	.00	.00	.00	43.17	1.00
†	19131.000	3555.00	6085.34	7.95	-.12	.00	123.51	1.00
	19139.000	1080.00	6077.57	.00	.18	.00	43.91	8.00
	19139.000	3555.00	6085.35	7.78	.01	.00	123.62	8.00
	19140.000	1080.00	6077.57	.00	.00	.00	43.89	1.00
†	19140.000	3555.00	6085.55	7.98	.20	.00	128.83	1.00
†	19285.000	1080.00	6084.40	.00	6.83	.00	21.60	145.00
†	19285.000	3555.00	6089.80	5.40	4.25	.00	260.49	145.00
†	19315.000	1080.00	6084.82	.00	.42	.00	21.64	30.00
	19315.000	3555.00	6090.76	5.94	.96	.00	391.17	30.00

SECD	Q	CWSEL	DIFWSP	DIFWSX	DIFKNS	TOPWID	XLCH
19316.000	1080.00	6084.84	.00	.02	.00	21.67	1.00
19316.000	3555.00	6091.56	6.72	.79	.00	469.98	1.00
19320.000	1080.00	6085.17	.00	.33	.00	22.97	4.00
19320.000	3555.00	6091.56	6.39	.00	.00	470.71	4.00
19321.000	1080.00	6085.18	.00	.01	.00	22.00	1.00
19321.000	3555.00	6091.24	6.06	-.32	.00	439.22	1.00
* 19480.000	1050.00	6087.02	.00	1.85	.00	21.44	159.00
* 19480.000	3460.00	6092.58	5.56	1.34	.00	248.66	159.00
19481.000	1050.00	6087.03	.00	.00	.00	21.45	1.00
* 19481.000	3460.00	6094.22	7.19	1.64	.00	400.69	1.00
19489.000	1050.00	6087.46	.00	.43	.00	25.97	8.00
19489.000	3460.00	6094.23	6.77	.01	.00	401.43	8.00
19490.000	1050.00	6087.47	.00	.01	.00	22.00	1.00
* 19490.000	3460.00	6093.85	6.39	-.38	.00	366.90	1.00
* 19745.000	1050.00	6090.73	.00	3.26	.00	21.46	255.00
* 19745.000	3460.00	6095.08	4.35	1.22	.00	598.05	255.00
19746.000	1050.00	6090.84	.00	.11	.00	21.66	1.00
19746.000	3460.00	6096.01	5.17	.93	.00	695.90	1.00
19754.000	1050.00	6091.03	.00	.19	.00	22.49	8.00
19754.000	3460.00	6096.01	4.99	.00	.00	696.52	8.00
* 19755.000	1050.00	6091.21	.00	.18	.00	22.00	1.00
19755.000	3460.00	6095.75	4.55	-.26	.00	669.78	1.00
19845.000	250.00	6092.94	.00	1.73	.00	41.43	90.00
* 19845.000	1110.00	6096.18	3.24	.42	.00	600.61	90.00
* 19960.000	250.00	6093.10	.00	.16	.00	71.25	115.00
* 19960.000	1110.00	6096.32	3.22	.14	.00	404.51	115.00
20010.000	250.00	6093.18	.00	.08	.00	30.89	50.00
* 20010.000	1110.00	6096.30	3.11	-.02	.00	221.99	50.00
* 20025.000	250.00	6094.75	.00	1.57	.00	80.12	15.00
20025.000	1110.00	6096.30	1.54	.00	.00	176.49	15.00
20050.000	250.00	6094.79	.00	.03	.00	81.45	25.00
20050.000	1110.00	6096.35	1.57	.05	.00	187.61	25.00
* 20095.000	250.00	6094.79	.00	.01	.00	29.60	25.00
* 20095.000	1110.00	6096.09	1.29	-.26	.00	35.43	25.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	20096.000	250.00	6094.79	.00	.00	.00	29.59	1.00
†	20096.000	1110.00	6095.79	.99	-.30	.00	33.93	1.00
	20104.000	250.00	6094.81	.00	.02	.00	29.62	8.00
	20104.000	1110.00	6096.45	1.63	.66	.00	37.23	8.00
	20105.000	250.00	6094.81	.00	.00	.00	29.63	1.00
†	20105.000	1110.00	6097.35	2.54	.91	.00	170.98	1.00
†	20150.000	250.00	6094.92	.00	.10	.00	41.33	45.00
†	20150.000	1110.00	6097.87	2.95	.51	.00	409.49	45.00
†	20500.000	250.00	6097.20	.00	2.28	.00	40.10	350.00
†	20500.000	1110.00	6098.74	1.54	.87	.00	60.50	350.00
†	20850.000	250.00	6095.99	.00	2.79	.00	44.90	350.00
†	20850.000	1110.00	6102.20	2.21	3.46	.00	70.00	350.00
†	21200.000	250.00	6104.00	.00	4.01	.00	50.02	350.00
†	21200.000	1110.00	6105.56	1.56	3.35	.00	104.50	350.00
†	21490.000	250.00	6107.35	.00	3.35	.00	33.56	290.00
	21490.000	1110.00	6109.08	1.73	3.52	.00	57.21	290.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 18020.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 18310.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 18310.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 18390.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 18450.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 18450.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 18450.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 18450.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 18450.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 18455.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 18455.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 18455.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 18455.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 18455.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 18455.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 18475.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 18475.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 18501.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 18501.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

WARNING SECNO= 18509.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 18510.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 18550.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 18710.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 18711.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 18711.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

WARNING SECNO= 18719.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 18720.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 18905.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 19085.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 19085.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 19130.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 19130.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 19131.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 19140.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 19285.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 19285.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 19285.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 19285.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 19285.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 19285.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 19315.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 19315.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 19315.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 19480.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 19480.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 19480.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 19480.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 19480.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 19480.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 19481.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 19490.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 19745.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 19745.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 19745.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 19745.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 19745.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 19745.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 19755.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 19845.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 19960.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 19960.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 20010.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 20025.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 20095.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 20095.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 20096.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 20105.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 20150.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 20150.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 20500.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO= 20500.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 20500.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 20500.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 20850.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 20850.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 21200.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 21200.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 21200.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 21200.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

WARNING SECNO= 21490.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

THIS RUN EXECUTED 14JUL93 08:32:25

 HEC-2 WATER SURFACE PROFILES

Version 4.6.0: February 1991

T1 SHOOKS RUN DRAINAGE BASIN PLANNING STUDY WILSON & COMPANY 96-809
 T2 DOWNSTREAM OF PASED ROAD TO VAN BUREN CHANNEL DIVERSION
 T3 PROPOSED CONDITION 10-YEAR SRPE.DAT

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	0	2	0	0	0	0	0	0	6107.4	0

J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1	0	0	0	0	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	100	101	105	150						
NC	0.040	0.040	0.040	0.3	0.5					
QT	2	250	1110							
END CHANNEL TRANSITION DOWNSTREAM OF PASED ROAD										
X1	21490	9	1050	1090	0	0	0			
GR	6111	1000	6110	1045	6108	1050	6106	1060	6104.4	1065
GR	6104.4	1075	6106	1080	6108	1090	6109.5	1110		
OUTFALL PASED ROAD PROPOSED CULVERT										
X1	21640	6	1014.5	1046.5	155	145	150			
X3	10	0	0	0	0	0	0	6111	6111	
GR	6112	1000	6111.8	1014.5	6105.5	1014.5	6105.5	1046.5	6111.8	1046.5
GR	6112	1060								
SC	3.013	0.20	3.0	0	5.0	10.0	55	9.1	6105.9	6105.5
ENTRANCE PASED ROAD PROPOSED CULVERT / END STRUCTURAL CHANNEL										
X1	21695	6	1059.5	1091.5	55	55	55			
X2	0	0	2	6110.9	6112.3					
X3	10	0	0	0	0	0	0	6112.3	6112.3	
BT	4	1000	6114		1059.5	6112.3		1091.5	6112.3	
BT	1200	6112.5								
GR	6114	1000	6112.2	1059.5	6105.9	1059.5	6105.9	1091.5	6112.2	1091.5
GR	6112.5	1200								
NC	0.100	0.100	0.030	0	0					
X1	21715	7	1060	1090	15	25	20			
GR	6115	1000	6114	1045	6113	1060	6106	1060	6106	1090
GR	6113	1090	6113	1135						

NC	0	0	0	0.1	0.3				
X1	21775	8	1015	1045	60	60	60		
GR	6115	1000	6114	1010	6113.5	1015	6106.5	1015	6106.5
SR	6113.5	1045	6114	1060	6114.5	1075			1045

NC	0	0	0	0.3	0.5				
OUTFALL JEFFERSON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL									
X1	21930	6	1074	1106	40	70	55		
X3	10	0	0	0	0	0	0	6113	6113
GR	6115	1030	6113.2	1074	6106.9	1074	6106.9	1106	6113.2
GR	6114.5	1120							1106

SC	3.013	0.20	3.0	0	5.0	10.0	80	9.1	6107.5
ENTRANCE JEFFERSON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL									
X1	21910	6	1109	1141	80	80	80		
X2	0	0	2	6112.5	6114				
X3	10	0	0	0	0	0	0	6114	6114
BT	4	1075	6114.5		1109	6114		1141	6114
BT	1170	6114.5							
GR	6114.5	1075	6113.8	1109	6107.5	1109	6107.5	1141	6113.8
GR	6114.5	1170							1141

X1	21930	6	1035	1065	20	20	20		
GR	6114.5	1000	6114.7	1035	6107.7	1035	6107.7	1065	6114.7
SR	6114.5	1095							1065

NC	0	0	0	0.1	0.3				
X1	22200	6	1015	1045	265	275	270		
GR	6118	1000	6117.8	1015	6110.8	1015	6110.8	1045	6117.8
GR	6117.5	1110							1045

NC	0	0	0	0.3	0.5				
OUTFALL MADISON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL									
X1	22250	6	1039	1071	45	55	50		
X3	10	0	0	0	0	0	0	6119	6119
GR	6119	1000	6117.7	1039	6111.4	1039	6111.4	1071	6117.7
GR	6118.5	1115							1071

SC	3.013	0.20	3.0	0	5.0	10.0	80	8.1	6112.4
ENTRANCE MADISON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL									
X1	22330	6	1054	1086	75	85	80		
X2	0	0	2	6117.4	6120				
X3	10	0	0	0	0	0	0	6120	6120
BT	4	1000	6120		1054	6120		1086	6120
BT	1100	6120							
GR	6120	1000	6118.7	1054	6112.4	1054	6112.4	1086	6118.7
GR	6120	1100							1086

QT	2	240	1070							
X1	23440	6	1010	1040	35	15	25			
GR	6133	1000	6132.5	1010	6125.5	1010	6125.5	1040	6132.5	1040
GR	6132.5	1050								

NC	0	0	0	0.1	0.3					
X1	23500	8	1015	1045	60	60	60			
GR	6134.5	1000	6134	1005	6133.7	1015	6125.7	1015	6125.7	1045
GR	6133.7	1045	6133.7	1055	6134	1090				

NC	0.040	0.040	0	0.3	0.5					
OUTFALL PEDESTRIAN PATH PROPOSED CULVERT / END STRUCTURAL CHANNEL										
X1	23540	8	1019	1051	40	40	40			
X3	10	0	0	0	0	0	0	6134.6	6134.6	
GR	6135	1000	6134	1005	6133.8	1019	6127.5	1019	6127.5	1051
GR	6133.8	1051	6134	1060	6135	1085				

SC	3.013	0.20	3.0	0	5.0	10.0	50	8.1	6128.6	6127.5
ENTRANCE PEDESTRIAN PATH PROPOSED CULVERT / END STRUCTURAL CHANNEL										
X1	23590	7	1024	1056	50	50	50			
X2	0	0	2	6133.6	6135.6					
X3	10	0	0	0	0	0	0	6135.6	6135.6	
BT	5	1000	6135.7		1024	6135.6		1056	6135.6	
BT	1070	6136		1085	6137					
GR	6135.7	1000	6134.9	1024	6128.6	1024	6128.6	1056	6134.9	1056
GR	6136	1070	6137	1085						

OUTFALL C.R.I.P. RAILROAD PROPOSED CULVERT / END STRUCTURAL CHANNEL										
X1	23620	6	1024.5	1045.5	15	45	30			
X3	10	0	0	0	0	0	0	6139	6139	
GR	6136	995	6135.7	1024.5	6129.4	1024.5	6129.4	1045.5	6135.7	1045.5
GR	6139	1080								

SC	2.013	0.20	2.6	0	5.0	10.0	55	8.1	6130.6	6129.4
ENTRANCE C.R.I.P. RAILROAD PROPOSED CULVERT / VAN BUREN CHANNEL										
X1	23675	6	1524.5	1545.5	55	55	55			
X2	0	0	2	6135.6	6140.1					
X3	10	0	0	0	0	0	0	6140.1	6140.1	
BT	4	1000	6143.5		1524.5	6140.4		1600	6140.1	
BT	1600	6145								
GR	6143.5	1000	6135.9	1524.5	6130.6	1524.5	6130.6	1545.5	6135.9	1545.5
GR	6140.1	1600								

SECD	DEPTH	CWSEL	CRWS	WSELX	EG	HV	HL	DLOSS	L-BANK ELEV
0	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= .300 CEHV= .500

#SECND 21490.000

END CHANNEL TRANSITION DOWNSTREAM OF PASED ROAD

21490.000	3.00	6107.40	.00	6107.40	6107.65	.25	.00	.00	6108.00
250.0	.0	250.0	.0	.0	61.8	.0	.0	.0	6108.00
.00	.00	4.05	.00	.000	.040	.000	.000	6104.40	1053.00
.005509	0.	0.	0.	0	0	0	.00	34.00	1087.00

#SECND 21640.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6111.00 ELREA= 6111.00

OUTFALL PASED ROAD PROPOSED CULVERT

21640.000	2.56	6108.06	.00	.00	6108.20	.14	.52	.03	6111.80
250.0	.0	250.0	.0	.0	91.8	.0	.2	.1	6111.80
.01	.00	3.06	.00	.000	.040	.000	.000	6105.50	1014.50
.002357	155.	150.	145.	2	0	0	.00	32.00	1046.50

SPECIAL CULVERT

SC	CUNG	CUNV	ENTLC	COFO	RLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.012	.20	3.00	.00	5.00	10.00	55.00	8	1	6105.90	6105.50

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS: NO INLET TOP EDGE BEVEL

SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

#SECND 21695.000

SPECIAL CULVERT OUTLET CONTROL

EGIC = 6107.917 EGOC = 6108.174 PCWSE= 6108.059 ELTRD= 6112.300

5150. EG OF 6108.17 LESS THAN XEG OF 6108.20

SPECIAL CULVERT

EGIC	EGOC	H4	DWEIR	OCULV	VCH	ACULV	ELTRD	WEIRLN
6107.92	6108.17	.00	0.	250.	3.745	150.0	6112.30	0.

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	L-BANK ELEV
0	QLOB	DCH	QRDB	ALOB	ACH	ARDB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6112.30 ELREA= 6112.30

ENTRANCE PASSED ROAD PROPOSED CULVERT / END STRUCTURAL CHANNEL

21695.000	2.09	6107.99	.00	.00	6108.20	.22	.00	.00	6112.20
250.0	.0	250.0	.0	.0	66.8	.0	.3	.2	6112.20
.02	.00	3.75	.00	.000	.040	.000	.000	6105.90	1059.50
.004490	55.	55.	55.	3	0	0	.00	32.00	1091.50

*SECNO 21715.000

21715.000	2.04	6108.04	.00	.00	6108.30	.26	.07	.02	6113.00
250.0	.0	250.0	.0	.0	61.4	.0	.4	.2	6113.00
.02	.00	4.07	.00	.000	.030	.000	.000	6106.00	1060.00
.003080	15.	20.	25.	1	0	0	.00	30.00	1090.00

DCHV= .100 DEHV= .300

*SECNO 21775.000

21775.000	1.70	6108.20	.00	.00	6108.57	.37	.24	.03	6113.50
250.0	.0	250.0	.0	.0	51.1	.0	.4	.2	6113.50
.02	.00	4.89	.00	.000	.030	.000	.000	6106.50	1015.00
.005542	60.	60.	60.	2	0	0	.00	30.00	1045.00

DCHV= .300 DEHV= .500

*SECNO 21830.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6113.00 ELREA= 6113.00

OUTFALL JEFFERSON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

21830.000	1.62	6108.52	.00	.00	6108.89	.36	.31	.00	6113.20
250.0	.0	250.0	.0	.0	51.7	.0	.5	.2	6113.20
.03	.00	4.84	.00	.000	.030	.000	.000	6106.90	1074.00
.005714	40.	55.	70.	2	0	0	.00	32.00	1106.00

SPECIAL CULVERT

SECNO	DEPTH	CWSEL	CRWS	WSELX	EE	HV	HL	CLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XMCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SC	CUND	CUNV	ENTLC	COFG	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	80.00	9	1	6107.50	6106.90

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
 SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 21910.000

SPECIAL CULVERT OUTLET CONTROL

EGIC = 6109.516 EGOC = 6109.566 PCWSE= 6109.522 ELTRD= 6114.000

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6109.52	6109.57	.68	0.	250.	4.435	150.0	6114.00	0.

3495 OVERRANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6114.00 ELREA= 6114.00

ENTRANCE JEFFERSON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

21910.000	1.76	6109.26	.00	.00	6109.57	.31	.68	.00	6113.80
250.0	.0	250.0	.0	.0	56.4	.0	.6	.3	6113.80
.03	.00	4.43	.00	.000	.030	.000	.000	6107.50	1109.00
.004330	80.	80.	80.	3	0	0	.00	32.00	1141.00

*SECNO 21930.000

21930.000	1.61	6109.31	.00	.00	6109.73	.41	.11	.05	6114.70
250.0	.0	250.0	.0	.0	48.4	.0	.6	.3	6114.70
.03	.00	5.16	.00	.000	.030	.000	.000	6107.70	1035.00
.004580	20.	20.	20.	2	0	0	.00	30.00	1065.00

CEHV= .100 CEHV= .300

*SECNO 22200.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22200.000	1.29	6112.09	6112.09	.00	6112.74	.65	2.47	.07	6117.80
250.0	.0	250.0	.0	.0	38.7	.0	.9	.5	6117.80
.04	.00	6.46	.00	.000	.030	.000	.000	6110.80	1015.00
.013535	265.	270.	275.	2	15	0	.00	30.00	1045.00

CEHV= .300 CEHV= .500

*SECNO 22250.000

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
0	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

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6119.00 ELREA= 6119.00

OUTFALL MADISON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22250.000	1.46	6112.86	.00	.00	6113.30	.44	.50	.06	6117.70
250.0	.0	250.0	.0	.0	46.9	.0	1.0	.5	6117.70
.05	.00	5.33	.00	.000	.030	.000	.000	6111.40	1039.00
.007815	45.	50.	55.	2	0	0	.00	32.00	1071.00

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	COFB	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	80.00	8	1	6112.40	6111.40

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 22330.000

SPECIAL CULVERT OUTLET CONTROL

EGIC = 6114.403 EGOC = 6114.459 PCWSE= 6112.864 ELTRD= 6120.000

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	QCULV	ELTRD	WEIRLN
6114.40	6114.46	1.15	0.	250.	4.462	150.0	6120.00	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6120.00 ELREA= 6120.00

ENTRANCE MADISON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22330.000	1.75	6114.15	.00	.00	6114.46	.31	1.15	.00	6118.70
250.0	.0	250.0	.0	.0	56.0	.0	1.0	.6	6118.70
.05	.00	4.46	.00	.000	.030	.000	.000	6112.40	1054.00
.004415	75.	80.	85.	3	0	0	.00	32.00	1086.00

*SECNO 22350.000

22350.000	1.60	6114.20	.00	.00	6114.62	.42	.11	.06	6119.60
250.0	.0	250.0	.0	.0	48.1	.0	1.1	.6	6119.60
.05	.00	5.20	.00	.000	.030	.000	.000	6112.60	1010.00
.006722	20.	20.	20.	2	0	0	.00	30.00	1040.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	YNL	YNCH	XMR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TDPWID	ENDST

CCHV= .100 CEHV= .300

*SECNO 22575.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22575.000	1.29	6116.39	6116.39	.00	6117.04	.65	2.08	.07	6122.00
250.0	.0	250.0	.0	.0	38.7	.0	1.3	.8	6122.00
.06	.00	6.46	.00	.000	.030	.000	.000	6115.10	1010.00
.013535	225.	225.	225.	8	15	0	.00	30.00	1040.00

CCHV= .300 CEHV= .500

*SECNO 22625.000

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6122.50 ELREA= 6122.50

OUTFALL MONROE STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22625.000	1.46	6117.16	.00	.00	6117.60	.44	.50	.06	6122.70
250.0	.0	250.0	.0	.0	16.9	.0	1.3	.8	6122.70
.06	.00	5.33	.00	.000	.030	.000	.000	6115.70	1034.00
.007815	50.	50.	50.	2	0	0	.00	32.00	1066.00

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFB	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	80.00	8	1	6116.70	6115.70

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL

SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 22705.000

SPECIAL CULVERT OUTLET CONTROL

EGIC = 6118.704 EGOC = 6118.760 PCWSE= 6117.164 ELTRD= 6123.500

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6118.70	6118.76	1.15	0.	250.	4.462	150.0	6123.50	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6123.50 ELREA= 6123.50

ENTRANCE MONROE STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22705.000	1.75	6118.45	.00	.00	6118.76	.31	1.15	.00	6123.00
250.0	.0	250.0	.0	.0	56.0	.0	1.4	.9	6123.00
.07	.00	4.46	.00	.000	.030	.000	.000	6115.70	1024.00
.004415	80.	80.	80.	3	0	0	.00	32.00	1056.00

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

*SECNO 22725.000

22725.000	1.60	6118.50	.00	.00	6118.92	.42	.11	.06	6123.90
250.0	.0	250.0	.0	.0	49.1	.0	1.5	.9	6123.90
.07	.00	5.20	.00	.000	.030	.000	.000	6116.90	1010.00
.006715	20.	20.	20.	2	0	0	.00	30.00	1040.00

CCHV= .100 CEHV= .300

*SECNO 22925.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22925.000	1.28	6120.48	6120.48	.00	6121.14	.66	1.86	.07	6126.20
250.0	.0	250.0	.0	.0	38.5	.0	1.7	1.0	6126.20
.08	.00	6.50	.00	.000	.030	.000	.000	6119.20	1010.00
.013786	200.	200.	200.	8	15	0	.00	30.00	1040.00

CCHV= .300 CEHV= .500

*SECNO 22970.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. X-RATIO = 1.43

3195 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6126.50 ELREA= 6126.50

OUTFALL JACKSON ST. / LA SALLE ST. PROPOSED CULVERT / END STRUC. CHANNEL

22970.000	1.53	6121.23	.00	.00	6121.63	.40	.42	.08	6126.00
250.0	.0	250.0	.0	.0	49.2	.0	1.7	1.0	6126.00
.08	.00	5.08	.00	.000	.030	.000	.000	6119.70	1034.00
.006715	45.	45.	45.	2	0	0	.00	32.00	1066.00

SPECIAL CULVERT

SC	SUND	CUNV	ENTLC	COFO	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3	.013	.20	3.00	.00	5.00	10.00	445.00	8	1	6125.00	6119.70	

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL

SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 23415.000

SECNO	DEPTH	CWSEL	CRIMS	WEELY	EE	HV	HL	CLOSS	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

SPECIAL CULVERT OUTLET CONTROL

EGIC = 6127.005 EGOC = 6127.061 PCWSE= 6121.232 ELTRD= 6131.500

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6127.00	6127.06	5.43	0.	250.	4.454	150.0	6131.50	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6131.50 ELREA= 6131.50

ENTRANCE JACKSON ST. / LA SALLE ST. PROPOSED CULVERT / END STRUC CHANNEL

23415.000	1.75	6126.75	.00	.00	6127.06	.31	5.43	.00	6131.30
250.0	.0	250.0	.0	.0	56.1	.0	2.2	1.4	6131.30
.11	.00	4.45	.00	.000	.030	.000	.000	6125.00	1064.00
.004392	450.	445.	440.	3	0	0	.00	32.00	1096.00

*SECNO 23440.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = .56

23440.000	1.28	6126.78	6126.75	.00	6127.38	.61	.17	.15	6132.50
240.0	.0	240.0	.0	.0	38.4	.0	2.3	1.4	6132.50
.11	.00	6.25	.00	.000	.030	.000	.000	6125.50	1010.00
.012784	35.	25.	15.	4	19	0	.00	30.00	1040.00

CCHV= .100 CEHV= .300

*SECNO 23500.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

23500.000	1.26	6127.96	6127.96	.00	6128.59	.63	.79	.01	6133.70
240.0	.0	240.0	.0	.0	37.7	.0	2.3	1.4	6133.70
.11	.00	6.36	.00	.000	.030	.000	.000	6125.70	1015.00
.013536	60.	60.	60.	5	8	0	.00	30.00	1045.00

CCHV= .300 CEHV= .500

*SECNO 23540.000

7185 MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CHSEL	CRWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6134.60 ELREA= 6134.60

OUTFALL PEDESTRIAN PATH PROPOSED CULVERT / END STRUCTURAL CHANNEL

23540.000	1.20	6128.70	6128.70	.00	6129.31	.60	.54	.01	6133.80
240.0	.0	240.0	.0	.0	38.5	.0	2.4	1.5	6133.80
.11	.00	6.23	.00	.000	.030	.000	.000	6127.50	1019.00
.013615	10.	10.	10.	2	8	0	.00	32.00	1051.00

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	DOFD	RDLEN	RISE	SPAN	CULVLN	CHRT	SEL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	50.00	8	1	6128.60	6127.50

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL

SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 23590.000

SPECIAL CULVERT OUTLET CONTROL

EGIC = 6130.524 EGOC = 6130.612 PCWSE= 6128.704 ELTRD= 6135.600

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.79

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6130.52	6130.61	1.31	0.	240.	4.337	150.0	6135.60	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6135.60 ELREA= 6135.60

ENTRANCE PEDESTRIAN PATH PROPOSED CULVERT / END STRUCTURAL CHANNEL

23590.000	1.72	6130.32	.00	.00	6130.61	.29	1.31	.00	6134.90
240.0	.0	240.0	.0	.0	55.3	.0	2.4	1.5	6134.90
.12	.00	4.34	.00	.000	.030	.000	.000	6128.60	1024.00
.004233	50.	50.	50.	2	0	0	.00	32.00	1056.00

*SECNO 23620.000

3301 HV CHANGED MORE THAN HVINE

SECNO	DEPTH	CWSEL	CRIMS	WSELX	EG	HV	HL	CLOSS	L-BANK ELEV
0	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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6139.00 ELREA= 6139.00

OUTFALL C.R.I.P. RAILROAD PROPOSED CULVERT / END STRUCTURAL CHANNEL

23620.000	1.58	6130.98	6130.98	.00	6131.79	.81	.21	.26	6135.70
240.0	.0	240.0	.0	.0	33.2	.0	2.4	1.5	6135.70
.12	.00	7.22	.00	.000	.030	.000	.000	6129.40	1024.50
.013885	15.	30.	45.	20	11	0	.00	21.00	1045.50

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	COFO	RLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
2		.013	.20	2.60	.00	5.00	10.00	55.00	8	1	6130.60	6129.40

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS: NO INLET TOP EDGE REVEL
 SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 23675.000

SPECIAL CULVERT OUTLET CONTROL

EBIC = 6133.156 EBOD = 6133.236 PCWSE= 6130.983 ELTRD= 6140.100

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.71

SPECIAL CULVERT

EBIC	EBOD	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6133.16	6133.24	1.44	0.	240.	5.126	100.0	6140.10	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6140.10 ELREA= 6140.10

ENTRANCE C.R.I.P. RAILROAD PROPOSED CULVERT / VAN BUREN CHANNEL

23675.000	2.23	6132.83	.00	.00	6133.24	.41	1.44	.00	6135.90
240.0	.0	240.0	.0	.0	45.8	.0	2.5	1.5	6135.90
.12	.00	5.13	.00	.000	.030	.000	.000	6130.60	1524.50
.004753	55.	55.	55.	3	0	0	.00	21.00	1545.50

T1 SHOOKS RUN DRAINAGE BASIN PLANNING STUDY WILSON & COMPANY 90-809

T2 DOWNSTREAM OF PASED ROAD TO VAN BUREN CHANNEL DIVERSION

T3 PROPOSED CONDITION 100-YEAR SRPE.DAT

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FD
	0	3	0	0	0	0	0	0	6109.1	0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	0	0	0	0

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
D	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	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

SCHV= .300 CEHV= .500

*SECNO 21490.000

END CHANNEL TRANSITION DOWNSTREAM OF PASED ROAD

21490.000	4.70	6109.10	.00	6109.10	6110.19	1.09	.00	.00	6108.00
1110.0	3.8	1084.8	21.4	1.5	128.0	8.1	.0	.0	6108.00
.00	2.53	8.47	2.65	.040	.040	.040	.000	6104.40	1047.25
.011364	0.	0.	0.	0	0	0	.00	57.42	1104.67

*SECNO 21640.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.49

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6111.00 ELREA= 6111.00

OUTFALL PASED ROAD PROPOSED CULVERT

21640.000	5.23	6110.73	.00	.00	6111.41	.68	1.10	.12	6111.80
1110.0	.0	1110.0	.0	.0	167.4	.0	.5	.2	6111.80
.01	.00	6.63	.00	.000	.040	.000	.000	6105.50	1014.50
.005114	155.	150.	145.	2	0	0	.00	32.00	1046.50

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	COFO	RDLEN	RISE	SPAN	CULVLN	CHRT	SDL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	55.00	8	1	6105.90	6105.50

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL

SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 21695.000

SPECIAL CULVERT OUTLET CONTROL

EBIC = 6111.547 EGOC = 6111.869 PCWSE= 6110.731 ELTRD= 6112.300

SPECIAL CULVERT

EBIC	EGOC	H4	SWEIR	BCULV	VCH	ACULV	ELTRD	WEIRLN
6111.55	6111.87	.45	0.	1110.	6.538	150.0	6112.30	0.

SECNO	DEPTH	CHSEL	CRIMS	WSELX	EG	HV	HL	QLOSS	L-BANK ELEV
Q	DLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6112.30 ELREA= 6112.30

ENTRANCE PASSED ROAD PROPOSED CULVERT / END STRUCTURAL CHANNEL

21695.000	5.30	6111.20	.00	.00	6111.87	.66	.45	.00	6112.20
1110.0	.0	1110.0	.0	.0	169.8	.0	.7	.2	6112.20
.01	.00	6.54	.00	.000	.040	.000	.000	6105.90	1059.50
.004904	55.	55.	55.	3	0	0	.00	32.00	1091.50

*SECNO 21715.000

21715.000	5.23	6111.23	.00	.00	6112.01	.78	.08	.06	6113.00
1110.0	.0	1110.0	.0	.0	156.9	.0	.8	.2	6113.00
.01	.00	7.08	.00	.000	.030	.000	.000	6106.00	1060.00
.003351	15.	20.	25.	2	0	0	.00	30.00	1090.00

COHV= .100 CEHV= .300

*SECNO 21775.000

21775.000	4.87	6111.37	.00	.00	6112.26	.90	.22	.04	6113.50
1110.0	.0	1110.0	.0	.0	146.1	.0	1.0	.2	6113.50
.01	.00	7.60	.00	.000	.030	.000	.000	6106.50	1015.00
.004149	60.	60.	60.	2	0	0	.00	30.00	1045.00

COHV= .300 CEHV= .500

*SECNO 21830.000

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6113.00 ELREA= 6113.00

OUTFALL JEFFERSON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

21830.000	4.79	6111.69	.00	.00	6112.51	.81	.22	.03	6113.20
1110.0	.0	1110.0	.0	.0	153.4	.0	1.2	.3	6113.20
.01	.00	7.24	.00	.000	.030	.000	.000	6106.90	1074.00
.003745	40.	55.	70.	2	0	0	.00	32.00	1106.00

SPECIAL CULVERT

SECNO	DEPTH	CWSEL	CRIMS	WSELX	EG	HV	HL	GLOSS	L-BANK ELEV
Q	GLOB	BCH	BROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLDB	VCH	VRDB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SC	CUNO	CUNV	ENTLC	COFG	RDLEN	RISE	SPAN	CULVLM	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	80.00	8	1	6107.50	6106.90

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
 SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 21910.000

SPECIAL CULVERT INLET CONTROL

EGIC = 6113.147 EGOC = 6113.129 PCWSE= 6111.693 ELTRD= 6114.000

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6113.15	6113.13	.64	0.	1110.	7.143	150.0	6114.00	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6114.00 ELREA= 6114.00

ENTRANCE JEFFERSON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

21910.000	4.85	6112.35	.00	.00	6113.15	.79	.64	.00	6113.80
1110.0	.0	1110.0	.0	.0	155.4	.0	1.5	.3	6113.80
.02	.00	7.14	.00	.000	.030	.000	.000	6107.50	1109.00
.003600	80.	80.	80.	3	0	0	.00	32.00	1141.00

*SECNO 21930.000

21930.000	4.64	6112.34	.00	.00	6113.33	.99	.08	.10	6114.70
1110.0	.0	1110.0	.0	.0	139.2	.0	1.6	.4	6114.70
.02	.00	7.97	.00	.000	.030	.000	.000	6107.70	1035.00
.004791	20.	20.	20.	2	0	0	.00	30.00	1065.00

CCHV= .100 CEHV= .300

*SECNO 22200.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22200.000	3.48	6114.28	6114.28	.00	6116.04	1.75	1.91	.23	6117.80
1110.0	.0	1110.0	.0	.0	104.5	.0	2.3	.5	6117.80
.02	.00	10.62	.00	.000	.030	.000	.000	6110.80	1015.00
.011513	265.	270.	275.	2	15	0	.00	30.00	1045.00

SECNO	DEPTH	CHSEL	CRHS	WSELK	EG	HV	HL	DLOSS	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

CEHV= .300 CEHV= .500
 *SECNO 22250.000

3301 HV CHANGED MORE THAN HVINE

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.41

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6119.00 ELREA= 6119.00

OUTFALL MADISON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22250.000	4.15	6115.55	.00	.00	6116.63	1.08	.40	.20	6117.70
1110.0	.0	1110.0	.0	.0	132.8	.0	2.5	.6	6117.70
.03	.00	8.36	.00	.000	.030	.000	.000	6111.40	1039.00
.005802	45.	50.	55.	5	0	0	.00	32.00	1071.00

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	COFB	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	80.00	P	1	6112.40	6111.40

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS: NO INLET TOP EDGE BEVEL
 SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 22330.000

SPECIAL CULVERT INLET CONTROL

EBIC = 6118.034 EBOC = 6117.968 PCWSE= 6115.548 ELTRD= 6120.000

SPECIAL CULVERT

EBIC	EBOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6118.03	6117.97	1.40	0.	1110.	7.171	150.0	6120.00	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6120.00 ELREA= 6120.00

ENTRANCE MADISON STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22330.000	4.84	6117.24	.00	.00	6118.03	.80	1.40	.00	6118.70
1110.0	.0	1110.0	.0	.0	154.8	.0	2.7	.6	6118.70
.03	.00	7.17	.00	.000	.030	.000	.000	6112.40	1054.00
.003643	75.	80.	85.	3	0	0	.00	32.00	1086.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLSS	L-BANK ELEV
0	QLOB	DCH	OROB	ALOB	ACH	AROB	VDL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

#SECNO 22350.000

22350.000	1.62	6117.22	.00	.00	6118.22	1.00	.08	.10	6119.60
1110.0	.0	1110.0	.0	.0	138.6	.0	2.8	.7	6119.60
.03	.00	8.01	.00	.000	.030	.000	.000	6112.60	1010.00
.004854	20.	20.	20.	2	0	0	.00	30.00	1040.00

DCHV= .100 DEHV= .300

#SECNO 22575.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22575.000	3.48	6118.58	6118.58	.00	6120.34	1.76	1.61	.23	6122.00
1110.0	.0	1110.0	.0	.0	104.3	.0	3.4	.8	6122.00
.04	.00	10.64	.00	.000	.030	.000	.000	6115.10	1010.00
.011558	225.	225.	225.	2	15	0	.00	30.00	1040.00

DCHV= .300 DEHV= .500

#SECNO 22625.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.41

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6122.50 ELREA= 6122.50

OUTFALL MONROE STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22625.000	4.15	6119.85	.00	.00	6120.93	1.08	.40	.20	6122.70
1110.0	.0	1110.0	.0	.0	133.0	.0	3.5	.8	6122.70
.04	.00	8.35	.00	.000	.030	.000	.000	6115.70	1034.00
.005780	50.	50.	50.	5	0	0	.00	32.00	1066.00

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

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFO	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	80.00	8	1	6116.70	6115.70

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS: NO INLET TOP EDGE BEVEL
 SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 22705.000

SPECIAL CULVERT INLET CONTROL

EGIC = 6122.334 EGOC = 6122.269 PCWSE= 6119.853 ELTRD= 6123.500

SPECIAL CULVERT

EGIC	EGOC	HA	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6122.33	6122.27	1.40	0.	1110.	7.170	150.0	6123.50	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6123.50 ELREA= 6123.50

ENTRANCE MONROE STREET PROPOSED CULVERT / END STRUCTURAL CHANNEL

22705.000	4.84	6121.54	.00	.00	6122.33	.80	1.40	.00	6123.00
1110.0	.0	1110.0	.0	.0	154.8	.0	3.8	.9	6123.00
.04	.00	7.17	.00	.000	.030	.000	.000	6116.70	1024.00
.003642	80.	80.	80.	3	0	0	.00	32.00	1056.00

*SECNO 22725.000

22725.000	4.62	6121.52	.00	.00	6122.52	1.00	.08	.10	6123.90
1110.0	.0	1110.0	.0	.0	138.7	.0	3.9	.9	6123.90
.04	.00	8.01	.00	.000	.030	.000	.000	6116.90	1010.00
.001853	20.	20.	20.	2	0	0	.00	30.00	1040.00

CEHV= .100 CEHV= .300

*SECNO 22925.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22925.000	3.48	6122.68	6122.68	.00	6124.44	1.76	1.43	.23	6126.20
1110.0	.0	1110.0	.0	.0	104.4	.0	4.4	1.1	6126.20
.05	.00	10.64	.00	.000	.030	.000	.000	6119.20	1010.00
.011553	200.	200.	200.	2	15	0	.00	30.00	1040.00

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	GLOSS	L-BANK ELEV
0	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

DCHV= .300 DEHV= .500
 #SECNO 22970.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.48

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6126.50 ELREA= 6126.50

OUTFALL JACKSON ST. / LA SALLE ST. PROPOSED CULVERT / END STRUC. CHANNEL									
22970.000	4.27	6123.97	.00	.00	6125.00	1.02	.34	.22	6126.00
1110.0	.0	1110.0	.0	.0	136.8	.0	4.6	1.1	6126.00
.05	.00	8.11	.00	.000	.030	.000	.000	6119.70	1034.00
.005301	45.	45.	45.	5	0	0	.00	32.00	1066.00

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	COFO	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	445.00	8	1	6125.00	6119.70

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
 SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

#SECNO 23415.000

SPECIAL CULVERT INLET CONTROL

EGIC = 6130.636 EGOC = 6130.575 PCWSE= 6123.973 ELTRD= 6131.500

SPECIAL CULVERT

EGIC	EGOC	H4	OWEIR	OCULV	VCH	ACULV	ELTRD	WEIRLN
6130.64	6130.57	5.64	0.	1110.	7.168	150.0	6131.50	0.

3495 OVBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6131.50 ELREA= 6131.50

ENTRANCE JACKSON ST. / LA SALLE ST. PROPOSED CULVERT / END STRUC CHANNEL									
23415.000	4.84	6129.84	.00	.00	6130.64	.80	5.64	.00	6131.30
1110.0	.0	1110.0	.0	.0	154.9	.0	6.1	1.4	6131.30
.07	.00	7.17	.00	.000	.030	.000	.000	6125.00	1066.00
.003632	450.	445.	440.	3	0	0	.00	32.00	1096.00

SECNO	DEPTH	CWSEL	CRWS	WSELX	EG	HV	HL	QLOSS	L-BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNDH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 23440.000

23440.000	1.32	6129.82	.00	.00	6130.88	1.06	.11	.13	6132.50
1070.0	.0	1070.0	.0	.0	129.6	.0	6.1	1.4	6132.50
.07	.00	8.25	.00	.000	.030	.000	.000	6125.50	1010.00
.005538	35.	25.	15.	2	0	0	.00	30.00	1040.00

CCHV= .100 CEHV= .300

*SECNO 23500.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

23500.000	3.39	6130.09	6130.09	.00	6131.81	1.72	.46	.20	6133.70
1070.0	.0	1070.0	.0	.0	101.8	.0	6.3	1.5	6133.70
.07	.00	10.51	.00	.000	.030	.000	.000	6129.70	1015.00
.011586	60.	60.	60.	20	15	0	.00	30.00	1045.00

CCHV= .300 CEHV= .500

*SECNO 23540.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6134.60 ELREA= 6134.60

OUTFALL PEDESTRIAN PATH PROPOSED CULVERT / END STRUCTURAL CHANNEL

23540.000	3.26	6130.76	6130.76	.00	6132.39	1.63	.46	.02	6133.80
1070.0	.0	1070.0	.0	.0	104.3	.0	6.4	1.5	6133.80
.07	.00	10.26	.00	.000	.030	.000	.000	6127.50	1019.00
.011366	40.	40.	40.	2	8	0	.00	32.00	1051.00

SPECIAL CULVERT

SC	CUND	CUNV	ENTLC	COFO	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
3		.013	.20	3.00	.00	5.00	10.00	50.00	8	1	6128.60	6127.50

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL

SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 23590.000

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

SPECIAL CULVERT INLET CONTROL

EGIC = 6134.068 EGOC = 6134.049 PCWSE= 6130.759 ELTRD= 6135.600

3301 HV CHANGED MORE THAN HVINS

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

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6134.07	6134.05	1.67	0.	1070.	7.150	150.0	6135.60	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6135.60 ELREA= 6135.60

ENTRANCE PEDESTRIAN PATH PROPOSED CULVERT / END STRUCTURAL CHANNEL

23590.000	4.67	6133.27	.00	.00	6134.07	.79	1.67	.00	6134.90
1070.0	.0	1070.0	.0	.0	149.6	.0	6.5	1.5	6134.90
.07	.00	7.15	.00	.000	.030	.000	.000	6128.60	1024.00
.003751	50.	50.	50.	3	0	0	.00	32.00	1056.00

*SECNO 23620.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6139.00 ELREA= 6139.00

OUTFALL C.R.I.P. RAILROAD PROPOSED CULVERT / END STRUCTURAL CHANNEL

23620.000	4.30	6133.70	6133.70	.00	6135.88	2.18	.19	.69	6135.70
1070.0	.0	1070.0	.0	.0	90.3	.0	6.6	1.6	6135.70
.07	.00	11.85	.00	.000	.030	.000	.000	6129.40	1024.50
.012926	15.	30.	45.	20	11	0	.00	21.00	1045.50

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSE	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

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFG	RDLN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
2		.013	.20	2.60	.00	5.00	10.00	55.00	8	1	6130.60	6129.40

CHART 9 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
 SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 23675.000

SPECIAL CULVERT INLET CONTROL

EBIC = 6139.003 EBDC = 6137.741 PCWSE= 6133.701 ELTRD= 6140.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 2.55

SPECIAL CULVERT

EBIC	EBDC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
6139.00	6137.74	3.12	0.	1070.	6.586	100.0	6140.10	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 6140.10 ELREA= 6140.10

ENTRANCE C.R.I.P. RAILROAD PROPOSED CULVERT / VAN BUREN CHANNEL

23675.000	7.73	6138.33	.00	.00	6139.00	.67	3.12	.00	6135.90
1070.0	.0	1070.0	.0	.0	162.5	.0	6.8	1.6	6135.90
.07	.00	6.59	.00	.000	.030	.000	.000	6130.60	1524.50
.001992	55.	55.	55.	2	0	0	.00	21.00	1545.50

THIS RUN EXECUTED 11JUL93 08:32:59

HEC-2 WATER SURFACE PROFILES

Version 4.5.0: February 1991

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

USED CONDITION 10-YE

SUMMARY PRINTOUT TABLE 100

SECNO	EGLWC	ELLC	ESPRS	ELTRD	QPR	QWEIR	CLASS	H3	DEPTH	CWSEL	VCH	EG
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DESIGN CONDITION 10-YE

SUMMARY PRINTOUT TABLE 101

SECNO	EGOC	ELLC	EGIC	ELTRD	OCULV	OWEIR	CLASS	HA	DEPTH	CHSEL	VCH	EB
21695.000	6109.17	6110.90	6107.92	6112.30	250.00	.00	7.00	.00	2.09	6107.99	3.75	6109.20
21695.000	6111.87	6110.90	6111.55	6112.30	1110.00	.00	7.00	.45	5.30	6111.20	6.54	6111.87
21910.000	6109.57	6112.50	6109.52	6114.00	250.00	.00	7.00	.68	1.76	6109.26	4.43	6109.57
21910.000	6113.13	6112.50	6113.15	6114.00	1110.00	.00	6.00	.64	4.85	6112.35	7.14	6113.15
22330.000	6114.46	6117.40	6114.40	6120.00	250.00	.00	7.00	1.15	1.75	6114.15	4.46	6114.46
22330.000	6117.97	6117.40	6118.03	6120.00	1110.00	.00	6.00	1.40	4.84	6117.24	7.17	6118.03
22705.000	6118.76	6121.70	6118.70	6123.50	250.00	.00	7.00	1.15	1.75	6118.45	4.46	6118.76
22705.000	6122.27	6121.70	6122.33	6123.50	1110.00	.00	6.00	1.40	4.84	6121.54	7.17	6122.33
23415.000	6127.06	6130.00	6127.00	6131.50	250.00	.00	7.00	5.43	1.75	6126.75	4.45	6127.06
23415.000	6130.57	6130.00	6130.64	6131.50	1110.00	.00	6.00	5.64	4.84	6129.84	7.17	6130.64
* 23590.000	6130.61	6133.60	6130.52	6135.60	240.00	.00	7.00	1.31	1.72	6130.32	4.34	6130.61
* 23590.000	6134.05	6133.60	6134.07	6135.60	1070.00	.00	6.00	1.67	4.67	6133.27	7.15	6134.07
* 23675.000	6133.24	6135.60	6133.16	6140.10	240.00	.00	7.00	1.44	2.23	6132.83	5.13	6133.24
* 23675.000	6137.74	6135.60	6139.00	6140.10	1070.00	.00	6.00	3.12	7.73	6139.33	6.59	6139.00

USED CONDITION 10-YE

SUMMARY PRINTOUT TABLE 105

SECNO	CWSEL	HL	GLOSS	TOPWID	GLOB	QCH	QROB
21490.000	6107.40	.00	.00	34.00	.00	250.00	.00
21490.000	6109.10	.00	.00	57.42	3.83	1084.76	21.41
* 21640.000	6108.06	.52	.03	32.00	.00	250.00	.00
* 21640.000	6110.73	1.10	.12	32.00	.00	1110.00	.00
21695.000	6107.99	.00	.00	32.00	.00	250.00	.00
21695.000	6111.20	.45	.00	32.00	.00	1110.00	.00
21715.000	6108.04	.07	.02	30.00	.00	250.00	.00
21715.000	6111.23	.08	.06	30.00	.00	1110.00	.00
21775.000	6108.20	.24	.03	30.00	.00	250.00	.00
21775.000	6111.37	.22	.04	30.00	.00	1110.00	.00
21830.000	6108.52	.31	.00	32.00	.00	250.00	.00
21830.000	6111.69	.22	.03	32.00	.00	1110.00	.00
21910.000	6109.26	.68	.00	32.00	.00	250.00	.00
21910.000	6112.35	.64	.00	32.00	.00	1110.00	.00
21930.000	6109.31	.11	.05	30.00	.00	250.00	.00
21930.000	6112.34	.08	.10	30.00	.00	1110.00	.00
* 22200.000	6112.09	2.47	.07	30.00	.00	250.00	.00
* 22200.000	6114.28	1.91	.23	30.00	.00	1110.00	.00
22250.000	6112.86	.50	.06	32.00	.00	250.00	.00
* 22250.000	6115.55	.40	.20	32.00	.00	1110.00	.00
22330.000	6114.15	1.15	.00	32.00	.00	250.00	.00
22330.000	6117.24	1.40	.00	32.00	.00	1110.00	.00
22350.000	6114.20	.11	.06	30.00	.00	250.00	.00
22350.000	6117.22	.08	.10	30.00	.00	1110.00	.00
* 22575.000	6116.39	2.08	.07	30.00	.00	250.00	.00
* 22575.000	6118.58	1.61	.23	30.00	.00	1110.00	.00
22625.000	6117.16	.50	.06	32.00	.00	250.00	.00
* 22625.000	6119.85	.40	.20	32.00	.00	1110.00	.00
22705.000	6118.45	1.15	.00	32.00	.00	250.00	.00
22705.000	6121.54	1.40	.00	32.00	.00	1110.00	.00

SECNO	CHSEL	HL	QLOSS	TOPWIE	QLOP	QCH	QROP
22725.000	6118.50	.11	.06	30.00	.00	250.00	.00
22725.000	6121.52	.08	.10	30.00	.00	1110.00	.00
* 22925.000	6120.48	1.86	.07	30.00	.00	250.00	.00
* 22925.000	6122.68	1.43	.23	30.00	.00	1110.00	.00
* 22970.000	6121.23	.42	.08	32.00	.00	250.00	.00
* 22970.000	6123.97	.34	.22	32.00	.00	1110.00	.00
23415.000	6126.75	5.43	.00	32.00	.00	250.00	.00
23415.000	6129.84	5.64	.00	32.00	.00	1110.00	.00
* 23440.000	6126.78	.17	.15	30.00	.00	240.00	.00
23440.000	6129.82	.11	.13	30.00	.00	1070.00	.00
* 23500.000	6127.96	.79	.01	30.00	.00	240.00	.00
* 23500.000	6130.09	.46	.20	30.00	.00	1070.00	.00
* 23540.000	6128.70	.54	.01	32.00	.00	240.00	.00
* 23540.000	6130.76	.46	.02	32.00	.00	1070.00	.00
* 23590.000	6130.32	1.31	.00	32.00	.00	240.00	.00
* 23590.000	6133.27	1.67	.00	32.00	.00	1070.00	.00
* 23620.000	6130.98	.21	.26	21.00	.00	240.00	.00
* 23620.000	6133.70	.19	.69	21.00	.00	1070.00	.00
* 23675.000	6132.83	1.44	.00	21.00	.00	240.00	.00
* 23675.000	6138.33	3.12	.00	21.00	.00	1070.00	.00

USED CONDITION 10-YE

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	D	CWSEL	CRINS	EB	10*KS	VCH	AREA	.01K
21490.000	.00	.00	.00	6104.40	250.00	6107.40	.00	6107.65	55.09	4.05	61.80	33.68
21490.000	.00	.00	.00	6104.40	1110.00	6109.10	.00	6110.19	113.64	8.47	137.59	104.13
* 21640.000	150.00	.00	.00	6105.50	250.00	6108.06	.00	6108.20	23.57	3.06	81.83	51.50
* 21640.000	150.00	.00	.00	6105.50	1110.00	6110.73	.00	6111.41	51.14	6.63	167.41	155.21
21695.000	55.00	6112.30	6110.90	6105.90	250.00	6107.99	.00	6108.20	44.90	3.75	66.75	37.31
21695.000	55.00	6112.30	6110.90	6105.90	1110.00	6111.20	.00	6111.87	49.04	6.54	169.77	158.51
21715.000	20.00	.00	.00	6106.00	250.00	6108.04	.00	6108.30	30.80	4.07	61.42	45.04
21715.000	20.00	.00	.00	6106.00	1110.00	6111.23	.00	6112.01	33.51	7.08	156.86	191.76
21775.000	60.00	.00	.00	6106.50	250.00	6108.20	.00	6108.57	55.42	4.89	51.08	33.58
21775.000	60.00	.00	.00	6106.50	1110.00	6111.37	.00	6112.26	41.49	7.60	146.06	172.32
21830.000	55.00	.00	.00	6106.90	250.00	6108.52	.00	6108.89	57.14	4.84	51.70	33.07
21830.000	55.00	.00	.00	6106.90	1110.00	6111.69	.00	6112.51	37.45	7.24	153.39	181.39
21910.000	80.00	6114.00	6112.50	6107.50	250.00	6109.26	.00	6109.57	43.30	4.43	56.38	37.99
21910.000	80.00	6114.00	6112.50	6107.50	1110.00	6112.35	.00	6113.15	36.00	7.14	155.41	185.01
21930.000	20.00	.00	.00	6107.70	250.00	6109.31	.00	6109.73	65.79	5.16	48.41	30.82
21930.000	20.00	.00	.00	6107.70	1110.00	6112.34	.00	6113.33	47.91	7.97	139.25	160.36
* 22200.000	270.00	.00	.00	6110.80	250.00	6112.09	6112.09	6112.74	135.35	6.46	38.69	21.49
* 22200.000	270.00	.00	.00	6110.80	1110.00	6114.28	6114.28	6116.04	115.13	10.62	104.47	103.45
22250.000	50.00	.00	.00	6111.40	250.00	6112.86	.00	6113.30	78.15	5.33	46.91	28.28
* 22250.000	50.00	.00	.00	6111.40	1110.00	6115.55	.00	6116.63	58.02	8.36	132.83	145.72
22330.000	80.00	6120.00	6117.40	6112.40	250.00	6114.15	.00	6114.46	44.15	4.46	56.03	37.62
22330.000	80.00	6120.00	6117.40	6112.40	1110.00	6117.24	.00	6118.03	36.43	7.17	154.80	183.91
22350.000	20.00	.00	.00	6112.60	250.00	6114.20	.00	6114.62	67.22	5.20	48.09	30.49
22350.000	20.00	.00	.00	6112.60	1110.00	6117.22	.00	6118.22	48.54	8.01	138.65	159.32
* 22575.000	225.00	.00	.00	6115.10	250.00	6116.39	6116.39	6117.04	135.35	6.46	38.69	21.49
* 22575.000	225.00	.00	.00	6115.10	1110.00	6118.58	6118.58	6120.34	115.58	10.64	104.34	103.25
22625.000	50.00	.00	.00	6115.70	250.00	6117.16	.00	6117.60	78.15	5.33	46.91	28.28
* 22625.000	50.00	.00	.00	6115.70	1110.00	6119.85	.00	6120.93	57.80	8.35	133.00	146.01
22705.000	80.00	6123.50	6121.70	6116.70	250.00	6118.45	.00	6118.76	44.15	4.46	56.03	37.62
22705.000	80.00	6123.50	6121.70	6116.70	1110.00	6121.54	.00	6122.33	36.42	7.17	154.81	183.91
22725.000	20.00	.00	.00	6116.90	250.00	6118.50	.00	6118.92	67.15	5.20	48.11	30.51
22725.000	20.00	.00	.00	6116.90	1110.00	6121.52	.00	6122.52	48.53	8.01	138.66	159.34

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRINS	EB	10*KS	VCH	AREA	.01K
* 22925.000	200.00	.00	.00	6119.20	250.00	6120.48	6120.48	6121.14	137.86	6.50	38.47	21.29
* 22925.000	200.00	.00	.00	6119.20	1110.00	6122.68	6122.68	6124.44	115.53	10.64	104.36	103.27
* 22970.000	45.00	.00	.00	6119.70	250.00	6121.23	.00	6121.63	67.14	5.08	49.17	30.51
* 22970.000	45.00	.00	.00	6119.70	1110.00	6123.97	.00	6125.00	53.01	8.11	136.91	152.45
23415.000	445.00	6131.50	6130.00	6125.00	250.00	6126.75	.00	6127.06	43.92	4.45	56.13	37.72
23415.000	445.00	6131.50	6130.00	6125.00	1110.00	6129.84	.00	6130.64	36.38	7.17	154.86	184.02
* 23440.000	25.00	.00	.00	6125.50	240.00	6126.78	6126.75	6127.38	127.84	6.25	38.39	21.23
23440.000	25.00	.00	.00	6125.50	1070.00	6129.82	.00	6130.98	55.38	8.26	129.57	143.79
* 23500.000	60.00	.00	.00	6126.70	240.00	6127.96	6127.96	6128.59	135.36	6.36	37.72	20.63
* 23500.000	60.00	.00	.00	6126.70	1070.00	6130.09	6130.09	6131.81	115.86	10.51	101.81	99.41
* 23540.000	40.00	.00	.00	6127.50	240.00	6128.70	6128.70	6129.31	136.15	6.23	38.52	20.57
* 23540.000	40.00	.00	.00	6127.50	1070.00	6130.76	6130.76	6132.39	113.66	10.26	104.30	100.37
* 23590.000	50.00	6135.60	6133.60	6128.60	240.00	6130.32	.00	6130.61	42.33	4.34	55.34	36.89
* 23590.000	50.00	6135.60	6133.60	6128.60	1070.00	6133.27	.00	6134.07	37.51	7.15	149.64	174.72
* 23620.000	30.00	.00	.00	6129.40	240.00	6130.98	6130.98	6131.79	138.85	7.22	33.24	20.37
* 23620.000	30.00	.00	.00	6129.40	1070.00	6133.70	6133.70	6135.98	129.26	11.85	90.32	94.11
* 23675.000	55.00	6140.10	6135.60	6130.60	240.00	6132.83	.00	6133.24	47.53	5.13	46.82	34.81
* 23675.000	55.00	6140.10	6135.60	6130.60	1070.00	6138.33	.00	6139.00	19.92	6.59	162.47	239.76

USED CONDITION 10-YE

SUMMARY PRINTOUT TABLE 150

SECD	B	CWSEL	DIFWSP	DIFWSX	DIFXWS	TOPWID	XLCH
21490.000	250.00	6107.60	.00	.00	.00	34.00	.00
21490.000	1110.00	6109.10	1.70	.00	.00	57.42	.00
* 21640.000	250.00	6108.06	.00	.66	.00	32.00	150.00
* 21640.000	1110.00	6110.73	2.67	1.63	.00	32.00	150.00
21695.000	250.00	6107.99	.00	-.07	.00	32.00	55.00
21695.000	1110.00	6111.20	3.22	.47	.00	32.00	55.00
21715.000	250.00	6108.04	.00	.05	.00	30.00	20.00
21715.000	1110.00	6111.23	3.19	.02	.00	30.00	20.00
21775.000	250.00	6108.20	.00	.16	.00	30.00	60.00
21775.000	1110.00	6111.37	3.17	.14	.00	30.00	60.00
21830.000	250.00	6108.52	.00	.32	.00	32.00	55.00
21830.000	1110.00	6111.69	3.17	.33	.00	32.00	55.00
21910.000	250.00	6109.26	.00	.74	.00	32.00	80.00
21910.000	1110.00	6112.35	3.09	.66	.00	32.00	80.00
21930.000	250.00	6109.31	.00	.05	.00	30.00	20.00
21930.000	1110.00	6112.34	3.03	-.02	.00	30.00	20.00
* 22200.000	250.00	6112.09	.00	2.78	.00	30.00	270.00
* 22200.000	1110.00	6114.28	2.19	1.94	.00	30.00	270.00
22250.000	250.00	6112.86	.00	.77	.00	32.00	50.00
* 22250.000	1110.00	6115.55	2.68	1.27	.00	32.00	50.00
22330.000	250.00	6114.15	.00	1.29	.00	32.00	80.00
22330.000	1110.00	6117.24	3.09	1.69	.00	32.00	80.00
22350.000	250.00	6114.20	.00	.05	.00	30.00	20.00
22350.000	1110.00	6117.22	3.02	-.01	.00	30.00	20.00
* 22575.000	250.00	6116.39	.00	2.19	.00	30.00	225.00
* 22575.000	1110.00	6118.58	2.19	1.36	.00	30.00	225.00
22625.000	250.00	6117.16	.00	.77	.00	32.00	50.00
* 22625.000	1110.00	6119.85	2.69	1.27	.00	32.00	50.00
22705.000	250.00	6118.45	.00	1.29	.00	32.00	80.00
22705.000	1110.00	6121.54	3.09	1.68	.00	32.00	80.00
22725.000	250.00	6118.50	.00	.05	.00	30.00	20.00
22725.000	1110.00	6121.52	3.02	-.01	.00	30.00	20.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
†	22925.000	250.00	6120.48	.00	1.98	.00	30.00	200.00
†	22925.000	1110.00	6122.68	2.20	1.16	.00	30.00	200.00
†	22970.000	250.00	6121.23	.00	.75	.00	32.00	45.00
†	22970.000	1110.00	6123.97	2.74	1.29	.00	32.00	45.00
	23415.000	250.00	6126.75	.00	5.52	.00	32.00	445.00
	23415.000	1110.00	6129.84	3.08	5.86	.00	32.00	445.00
†	23440.000	240.00	6126.78	.00	.02	.00	30.00	25.00
	23440.000	1070.00	6129.82	3.04	-1.02	.00	30.00	25.00
†	23500.000	240.00	6127.96	.00	1.18	.00	30.00	60.00
†	23500.000	1070.00	6130.09	2.14	.28	.00	30.00	60.00
†	23540.000	240.00	6128.70	.00	.75	.00	32.00	40.00
†	23540.000	1070.00	6130.76	2.06	.67	.00	32.00	40.00
†	23590.000	240.00	6130.32	.00	1.62	.00	32.00	50.00
†	23590.000	1070.00	6133.27	2.95	2.52	.00	32.00	50.00
†	23620.000	240.00	6130.98	.00	.66	.00	21.00	30.00
†	23620.000	1070.00	6133.70	2.72	.43	.00	21.00	30.00
†	23675.000	240.00	6132.93	.00	1.85	.00	21.00	55.00
†	23675.000	1070.00	6138.33	5.50	4.63	.00	21.00	55.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 21640.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 21640.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 22200.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 22200.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 22200.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 22200.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

WARNING SECNO= 22250.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 22575.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 22575.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 22575.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 22575.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

WARNING SECNO= 22625.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 22925.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 22925.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 22925.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 22925.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

WARNING SECNO= 22970.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 22970.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 23440.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 23500.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 23500.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 23500.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 23500.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 23500.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

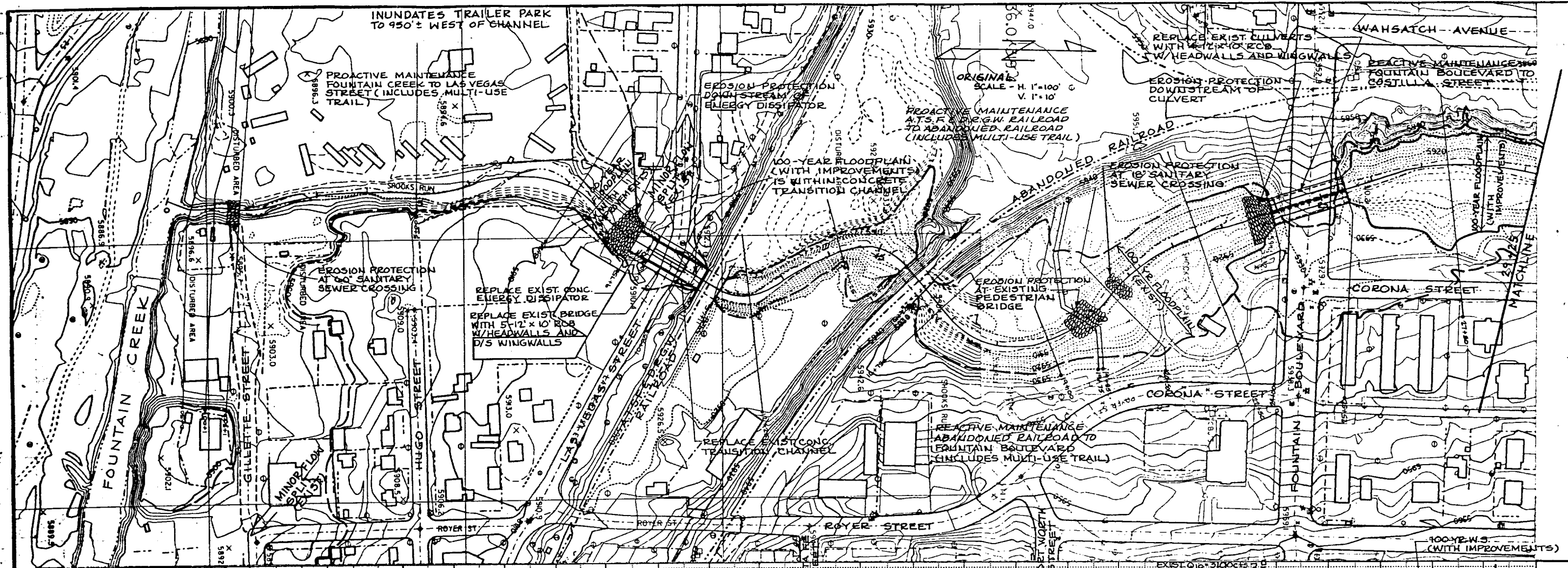
CAUTION SECNO= 23540.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 23540.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 23540.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 23540.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

WARNING SECNO= 23590.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 23590.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

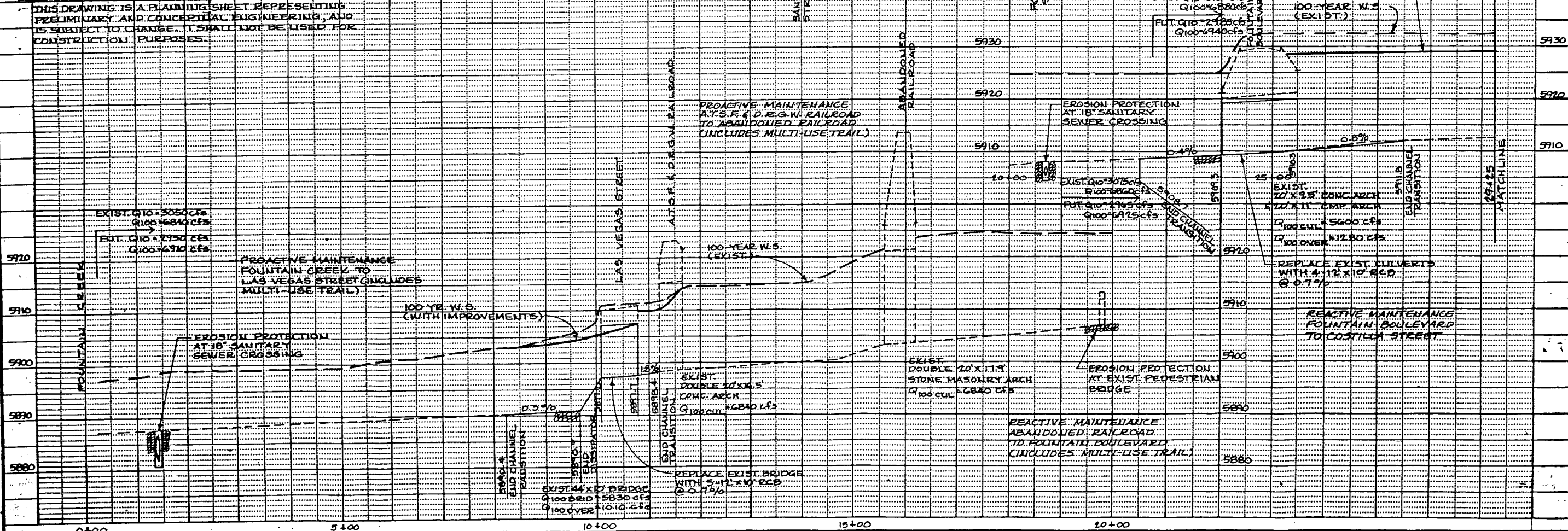
CAUTION SECNO= 23620.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 23620.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 23620.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 23620.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 23620.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 23620.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 23675.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 23675.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

F. PRELIMINARY DESIGN PLANS



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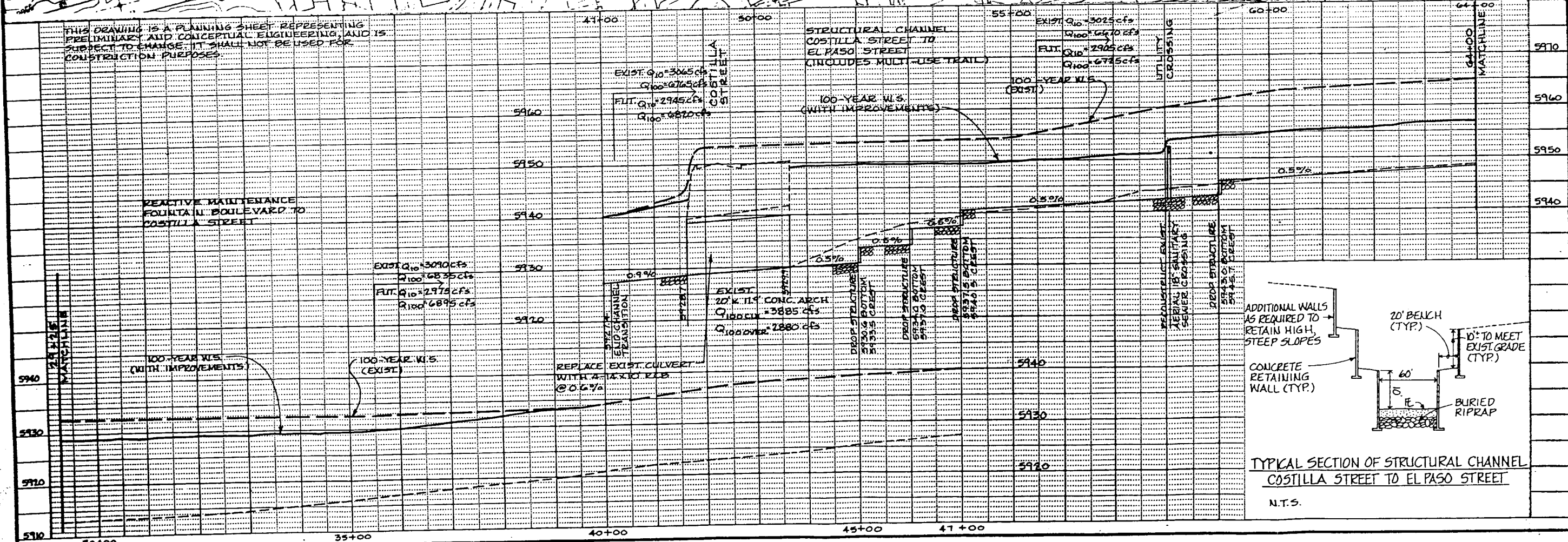
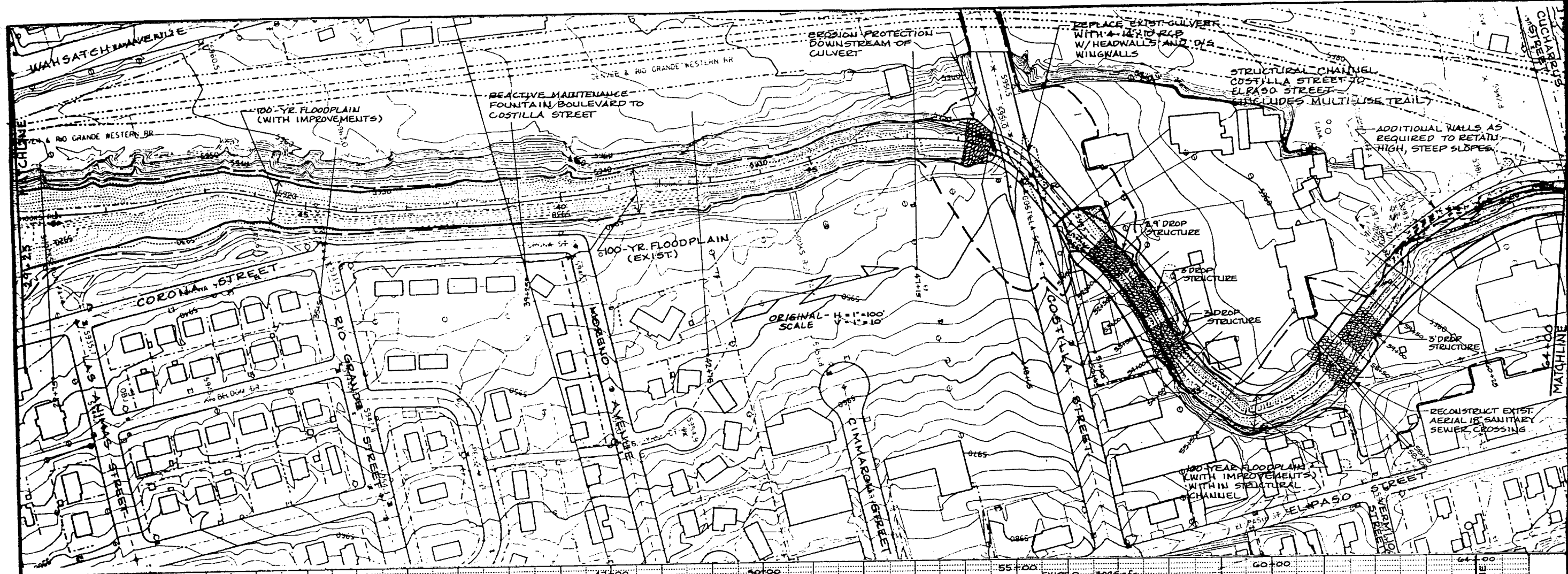


**WILSON
& COMPANY**

SHOOKS RUN
DRAINAGE BASIN PLANNING STUDY
PRELIMINARY DESIGN PLAN

DESIGN	W.D.
DRAWN	R.H.
DATE	7-93
FILE NO.	90-809
SHEET NO.	FIGURE 49

**WILSON
& COMPANY**
COLORADO SPRINGS,
COLORADO



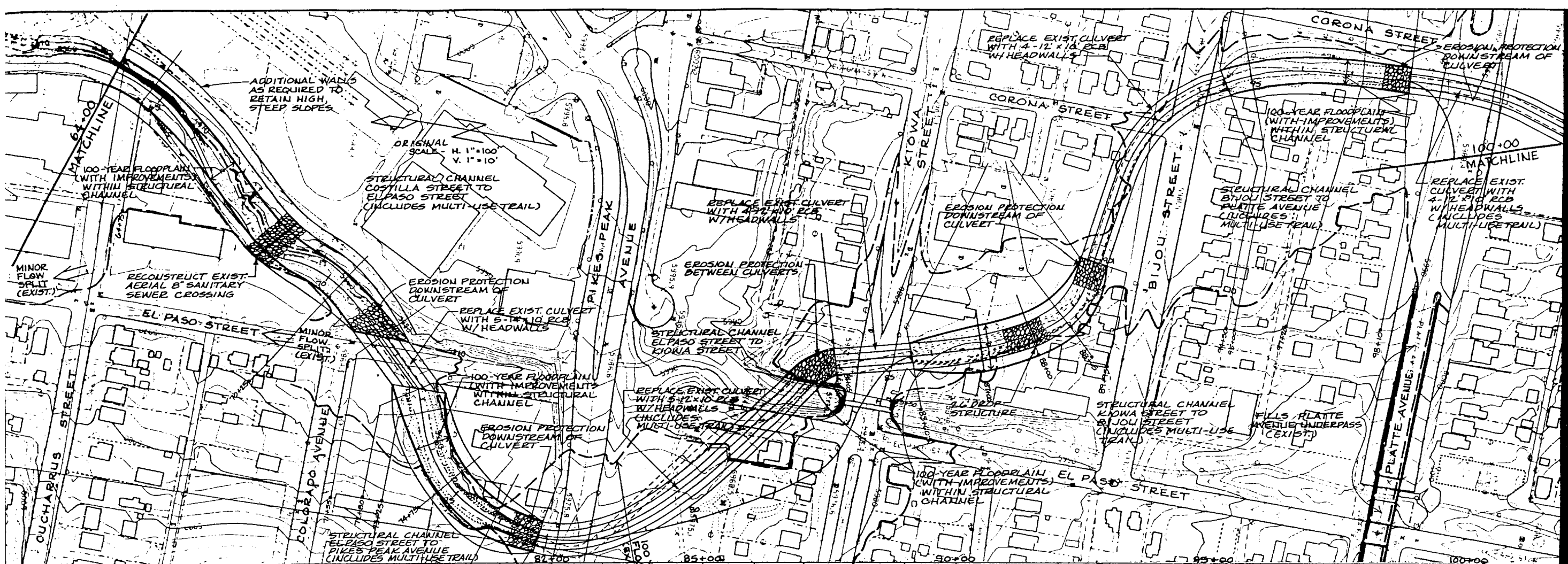
NO.	DATE	BY

WILSON
& COMPANY

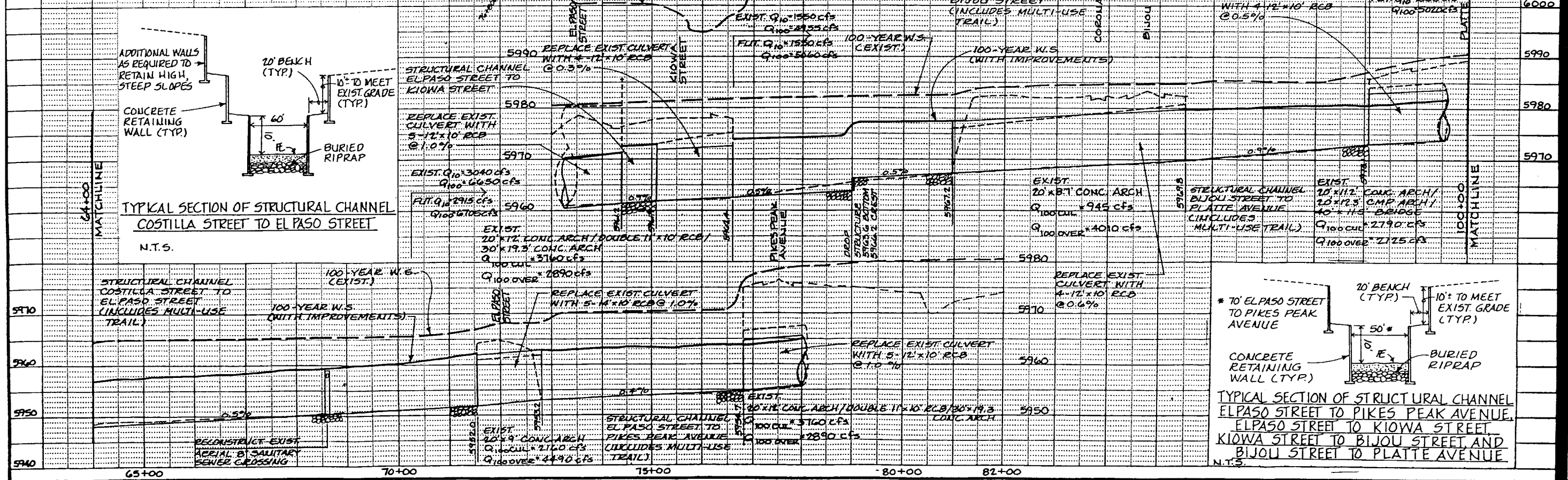
SHOOKS RUN
DRAINAGE BASIN PLANNING STUDY
PRELIMINARY DESIGN PLAN

DESIGN	W.D.
DRAWN	R.H.
DATE	7/93
FILE NO.	90-809
SHEET NO.	FIGURE 50

WILSON
& COMPANY
COLORADO SPRINGS,
COLORADO



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DRAINAGE BASIN PLANNING STUDY
PRELIMINARY DESIGN PLAN

DESIGN W.D.

DRAWN R.H.

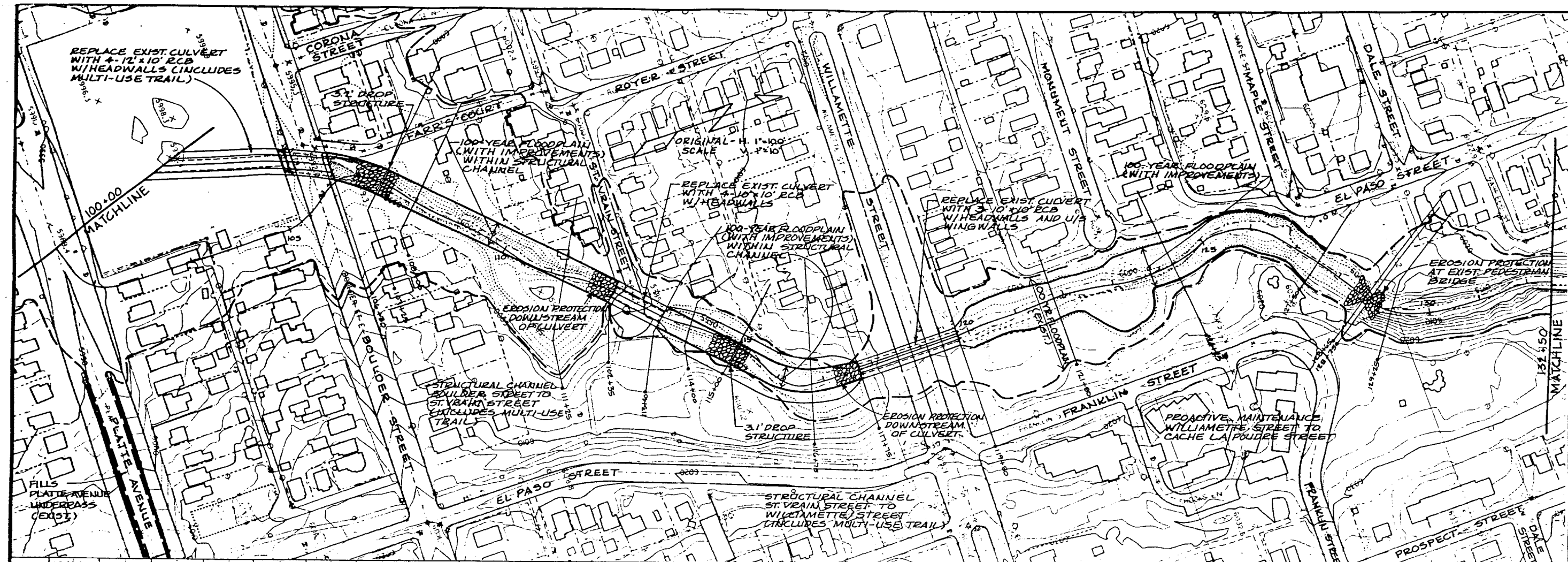
DATE 7-93

FILE NO. 90-809

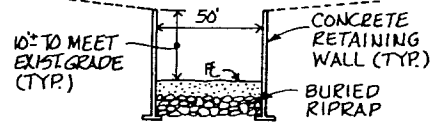
SHEET NO. FIGURE 51

WILSON & COMPANY

COLORADO SPRINGS, COLORADO



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TYPICAL SECTION OF STRUCTURAL CHANNEL
BOULDER STREET TO ST. VRAIN STREET

N.T.S.

REPLACE EXIST. CULVERT
WITH 4-12x10' RCB
0.0.5%

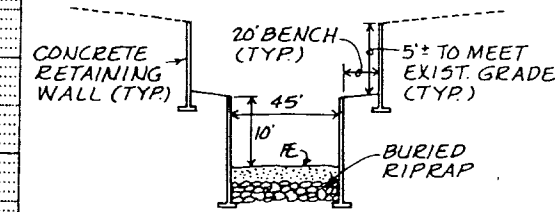
100-YEAR W.S.
(WITH IMPROVEMENTS)
100-YEAR W.S.
(EXIST.)

EXIST.
20x12' CONC. ARCH/20x12' CMP ARCH/
40x115' BRIDGE
Q100 CUL. 2,175 cfs
Q100 OVER 2,175 cfs

STRUCTURAL CHANNEL
BOULDER STREET TO
ST. VRAIN STREET
(INCLUDES MULTI-USE TRAIL)

EXIST.
20x11.9' CONC. ARCH
Q100 CUL. 2,960 cfs
Q100 OVER 2,960 cfs

STRUCTURAL CHANNEL
ST. VRAIN STREET TO
WILLAMETTE STREET
(INCLUDES MULTI-USE TRAIL)



TYPICAL SECTION OF STRUCTURAL CHANNEL
ST. VRAIN STREET TO WILLAMETTE STREET

N.T.S.

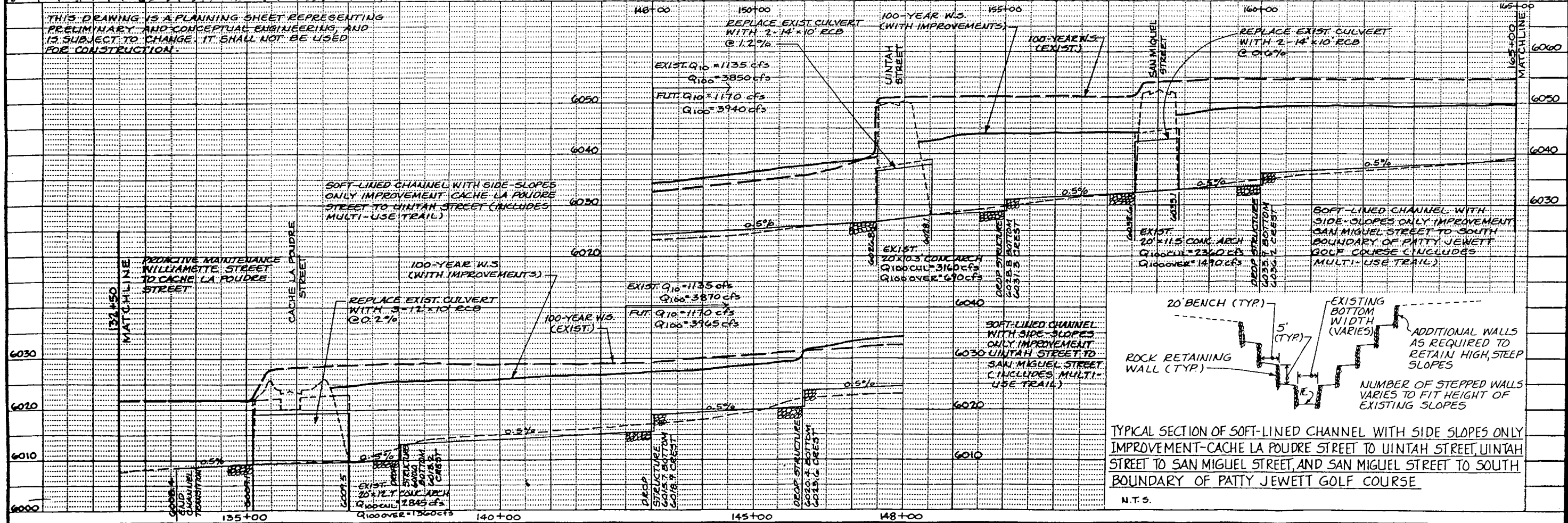
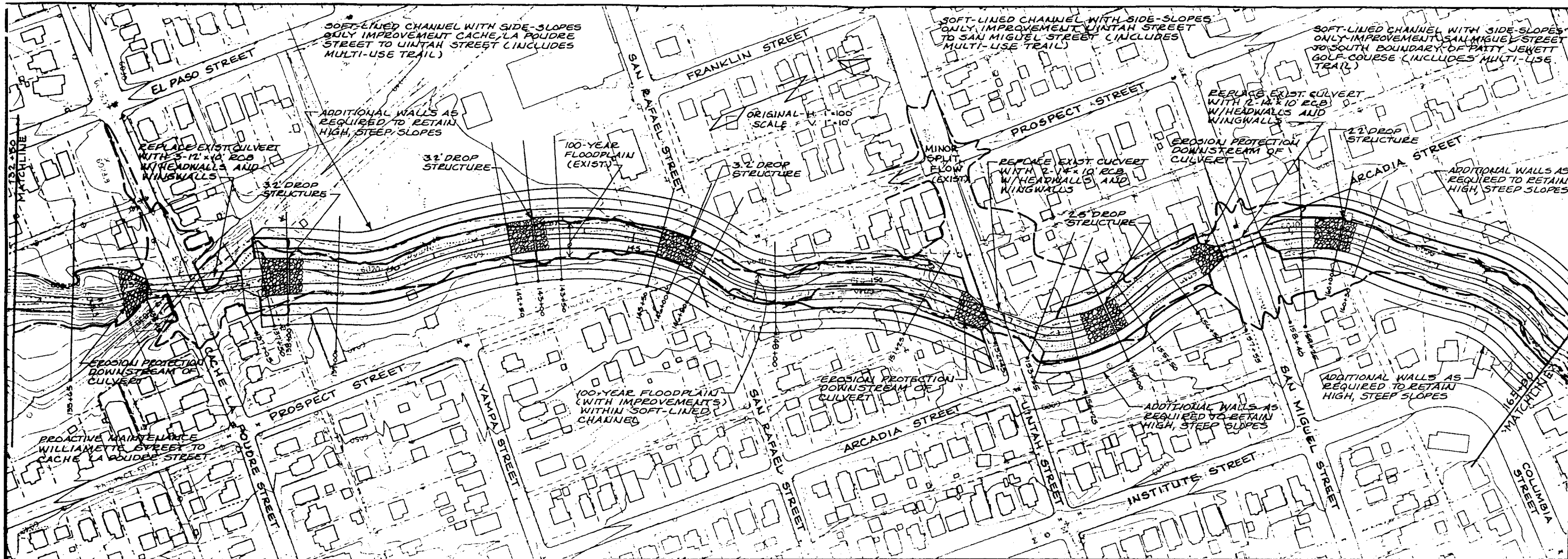
SHOOKS RUN
DRAINAGE BASIN PLANNING STUDY
PRELIMINARY DESIGN PLAN

DESIGN	W.D.
DRAWN	E.H.
DATE	7-93
FILE NO.	90-809
SHEET NO.	FIGURE 52

**WILSON
& COMPANY**
COLORADO SPRINGS,
COLORADO

REVISION	DATE	BY

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WILSON & COMPANY

REVISIONS

DATE

SHOOKS RUN

DRAINAGE BASIN PLANNING STUDY

PRELIMINARY DESIGN PLAN

DESIGN W.D.

DRAWN R.H.

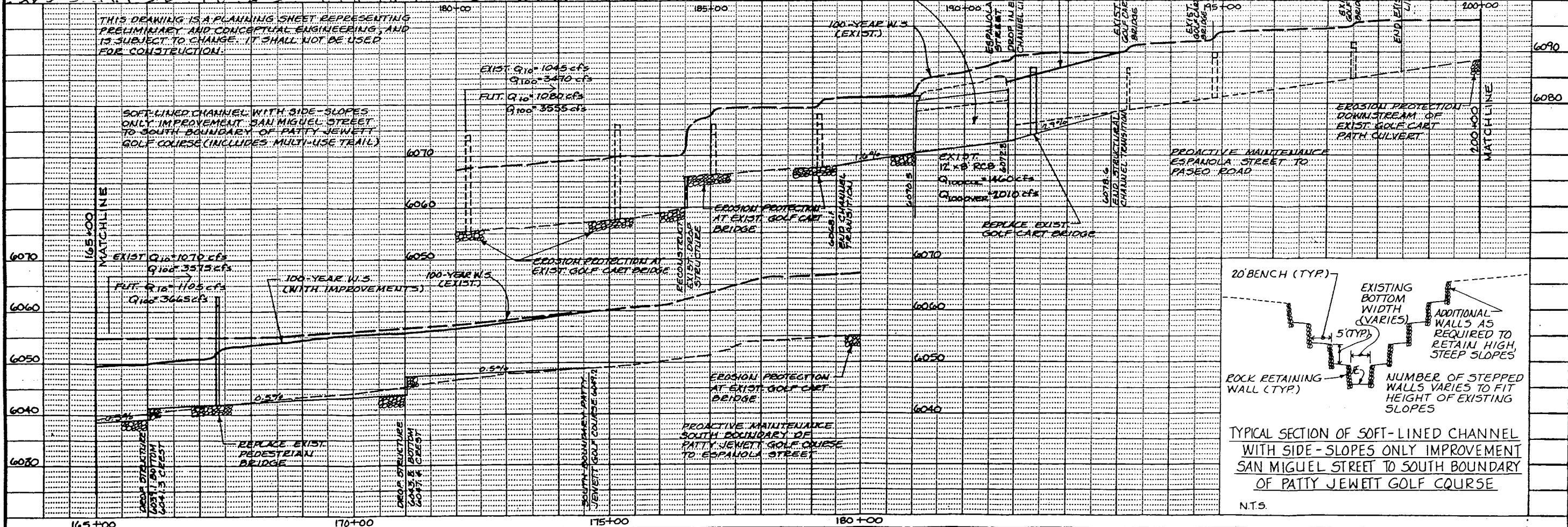
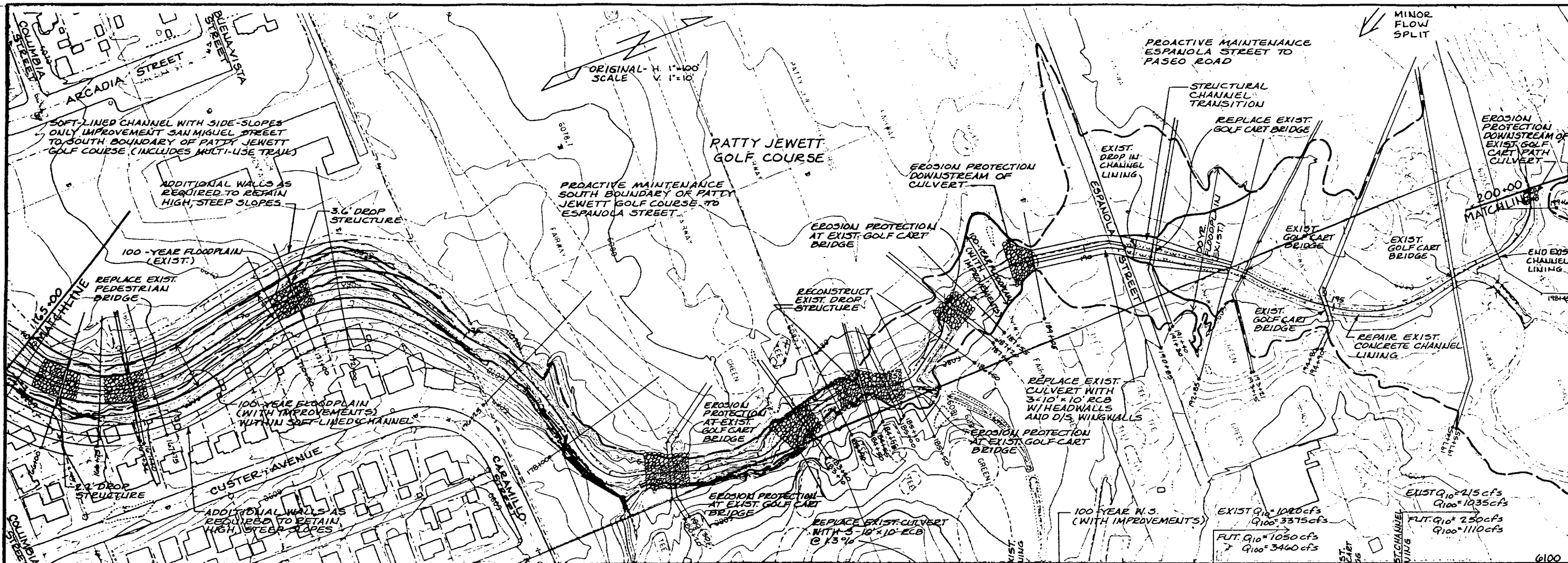
DATE 7-93

FILE NO. 90-809

SHEET NO. FIGURE 53

WILSON & COMPANY

COLORADO SPRINGS, COLORADO



WILSON & COMPANY

SHOOKS RUN DRAINAGE BASIN PLANNING STUDY PRELIMINARY DESIGN PLAN

DESIGN W.D.

DRAWN E.H.

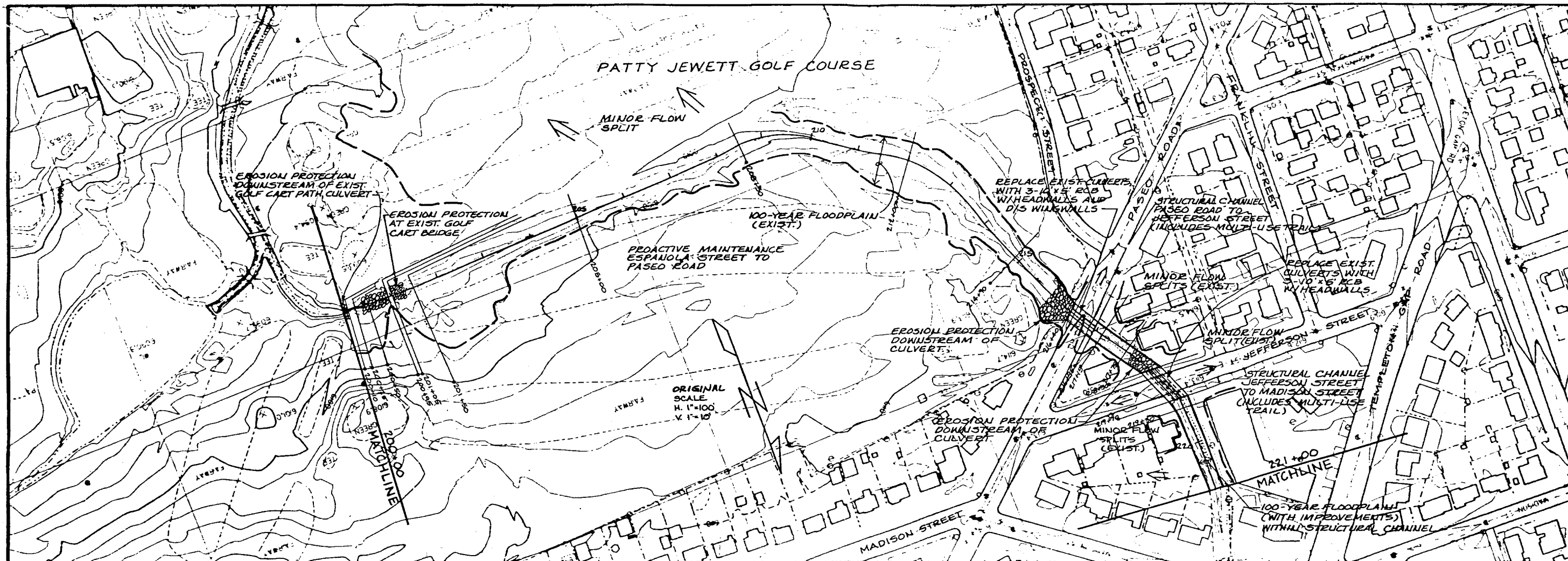
DATE 7/93

FILE NO. 90-809

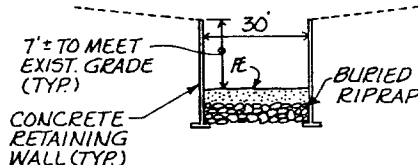
SHEET NO. 54

WILSON & COMPANY

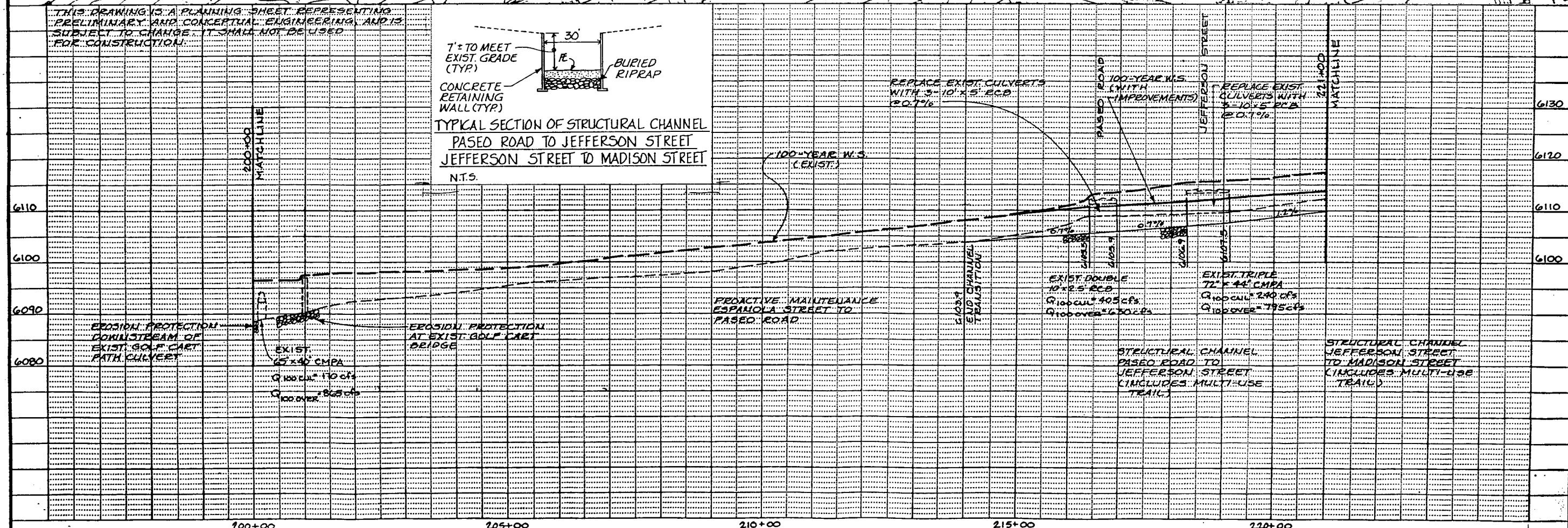
COLORADO SPRINGS, COLORADO



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TYPICAL SECTION OF STRUCTURAL CHANNEL
PASEO ROAD TO JEFFERSON STREET
JEFFERSON STREET TO MADISON STREET
N.T.S.



REVISION	DATE	BY

WILSON & COMPANY

SHOOKS RUN
DRAINAGE BASIN PLANNING STUDY
PRELIMINARY DESIGN PLAN

DESIGNER: W.D.
DRAWN: R.H.
DATE: 7-93
FILE NO.: 90-809
SHEET NO.: FIGURE 55

**WILSON
& COMPANY**
COLORADO SPRINGS,
COLORADO

