Time of Concentration Calculations

3/22/2006

Time of Concentration Calculations

Regency Park Addition

Soil Group **D**

Area Name	C 2-yr	C 5-yr	C 10-yr	C 100-yr	Land Use	Maximum Elevation	Minimum Elevation	Flow Length (L)	T_c 2-yr	T_c 5-yr	T_c 10-yr	T_c 100-yr
Pre-Developed												
Jabara	0.32	0.37	0.47	0.67	Agricultural - Pasture - Slopes 1-4%	225.0	190.0	3779	88.5	82.9	71.5	48.8
K-96	0.46	0.50	0.59	0.73	Residential - 1/3 Acre	225.0	190.0	3500	68.2	63.9	54.3	39.4
West Soccer	0.32	0.37	0.47	0.67	Agricultural - Pasture - Slopes 1-4%	199.0	194.0	1175	64.0	59.9	51.7	35.3
West Reg Park	0.32	0.37	0.47	0.67	Agricultural - Pasture - Slopes 1-4%	193.0	182.6	1380	57.3	53.6	46.3	31.6
East Soccer	0.32	0.37	0.47	0.67	Agricultural - Pasture - Slopes 1-4%	199.0	191.0	1210	56.1	52.5	45.3	30.9
Ne Reg Park	0.32	0.37	0.47	0.67	Agricultural - Pasture - Slopes 1-4%	197.0	189.0	1210	56.1	52.5	45.3	30.9
Se Reg Park	0.32	0.37	0.47	0.67	Agricultural - Pasture - Slopes 1-4%	195.0	179.0	1600	56.2	52.6	45.4	31.0
Proposed												
Jabara	0.41	0.45	0.54	0.71	Residential - 1 Acre	225.0	190.0	3779	78.3	73.8	63.6	44.3
K-96	0.46	0.50	0.59	0.73	Residential - 1/3 Acre	225.0	190.0	3500	68.2	63.9	54.3	39.4
West Soccer	0.30	0.35	0.45	0.65	Urban Lawn - Slopes 1-4%	199.0	194.0	1175	65.6	61.5	53.3	36.9
West Reg Park	0.68	0.69	0.73	0.80	Industrial - Light	193.0	182.6	1380	30.9	30.1	27.2	22.0
East Soccer	0.30	0.35	0.45	0.65	Urban Lawn - Slopes 1-4%	199.0	191.0	1210	57.5	53.9	46.7	32.3
Ne Reg Park	0.68	0.69	0.73	0.80	Industrial - Light	197.0	189.0	1210	30.2	29.5	26.6	21.6
Se Reg Park	0.68	0.69	0.73	0.80	Industrial - Light	195.0	179.0	1600	30.2	29.5	26.6	21.6

HY-8 OUTPUT
6' x 3' RCB

CURRENT DATE: 01-17-2006 FILE DATE: 01-17-2006
CURRENT TIME: 12:29:51 FILE NAME: K96443

FHWA CULVERT ANALYSIS
HY-8, VERSION 6.1

C	SITE DATA			CULVERT SHAPE, MATERIAL, INLET				
U								
L	INLET	OUTLET	CULVERT	BARRELS				
V	ELEV.	ELEV.	LENGTH	SHAPE	SPAN	RISE	MANNING	INLET
NO.	(ft)	(ft)	(ft)	MATERIAL	(ft)	(ft)	n	TYPE
1	182.70	182.20	162.25	1 RCB	6.00	3.00	.012	CONVENTIONAL
2								
3								
4								
5								
6								

SUMMARY OF CULVERT FLOWS (cfs) FILE: K96443 DATE: 01-17-2006

ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR
182.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1
183.51	13.0	13.0	0.0	0.0	0.0	0.0	0.0	0.00	1
183.98	26.0	26.0	0.0	0.0	0.0	0.0	0.0	0.00	1
184.38	39.0	39.0	0.0	0.0	0.0	0.0	0.0	0.00	1
184.75	52.0	52.0	0.0	0.0	0.0	0.0	0.0	0.00	1
185.32	65.0	65.0	0.0	0.0	0.0	0.0	0.0	0.00	1
185.64	78.0	78.0	0.0	0.0	0.0	0.0	0.0	0.00	1
185.95	91.0	91.0	0.0	0.0	0.0	0.0	0.0	0.00	1
186.25	104.0	104.0	0.0	0.0	0.0	0.0	0.0	0.00	1
186.54	117.0	117.0	0.0	0.0	0.0	0.0	0.0	0.00	1
186.80	130.0	130.0	0.0	0.0	0.0	0.0	0.0	0.00	1
199.00	342.7	342.7	0.0	0.0	0.0	0.0	0.0	OVERTOPPING	

SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: K96443 DATE: 01-17-2006

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
182.70	0.000	0.00	0.00	0.00
183.51	0.000	13.00	0.00	0.00
183.98	0.000	26.00	0.00	0.00
184.38	0.000	39.00	0.00	0.00
184.75	0.000	52.00	0.00	0.00
185.32	0.000	65.00	0.00	0.00
185.64	0.000	78.00	0.00	0.00
185.95	0.000	91.00	0.00	0.00
186.25	0.000	104.00	0.00	0.00
186.54	0.000	117.00	0.00	0.00
186.80	0.000	130.00	0.00	0.00

<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000

CURRENT DATE: 01-17-2006 FILE DATE: 01-17-2006
CURRENT TIME: 12:29:51 FILE NAME: K96443

PERFORMANCE CURVE FOR CULVERT 1 - 1(6.00 (ft) BY 3.00 (ft)) RCB

DIS-CHARGE FLOW (cfs)	HEAD-WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	182.70	0.00	0.00	0-NF	0.00	0.00	0.00	0.01	0.00	0.00
13.00	183.51	0.81	0.81	1-S2n	0.52	0.53	0.43	0.80	5.07	0.00
26.00	183.98	1.28	1.28	1-S2n	0.83	0.84	0.74	1.18	5.88	0.00
39.00	184.38	1.68	1.68	1-S2n	1.09	1.10	1.00	1.47	6.52	0.00
52.00	184.75	2.05	2.05	1-S2n	1.32	1.33	1.23	1.71	7.05	0.00
65.00	185.32	2.38	2.62	3-M1t	1.55	1.54	1.93	1.93	5.61	0.00
78.00	185.64	2.69	2.94	3-M1t	1.76	1.74	2.12	2.12	6.13	0.00
91.00	185.95	3.00	3.25	3-M1t	1.96	1.93	2.29	2.29	6.62	0.00
104.00	186.25	3.33	3.55	3-M1t	2.16	2.11	2.45	2.45	7.07	0.00
117.00	186.54	3.67	3.84	3-M1t	2.35	2.28	2.60	2.60	7.50	0.00
130.00	186.80	4.04	4.10	3-M1t	2.54	2.45	2.74	2.74	7.91	0.00

El. inlet face invert 182.70 ft El. outlet invert 182.20 ft
El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT **********

INLET STATION	0.00 ft
INLET ELEVATION	182.70 ft
OUTLET STATION	162.25 ft
OUTLET ELEVATION	182.20 ft
NUMBER OF BARRELS	1
SLOPE (V/H)	0.0031
CULVERT LENGTH ALONG SLOPE	162.25 ft

***** CULVERT DATA SUMMARY **********

BARREL SHAPE	BOX
BARREL SPAN	6.00 ft
BARREL RISE	3.00 ft
BARREL MATERIAL	CONCRETE
BARREL MANNING'S n	0.012
INLET TYPE	CONVENTIONAL
INLET EDGE AND WALL	SQUARE EDGE (30-75 DEG. FLARE)
INLET DEPRESSION	NONE

CURRENT DATE: 01-17-2006 FILE DATE: 01-17-2006
CURRENT TIME: 12:29:51 FILE NAME: K96443

ÄÄ
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ TAILWATER ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ
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TAILWATER RATING CURVE

FLOW (cfs)	W.S.E.(ft)	DEPTH (ft)
0	182.21	0.01
13	183.00	0.80
26	183.38	1.18
39	183.67	1.47
52	183.91	1.71
65	184.13	1.93
78	184.32	2.12
91	184.49	2.29
104	184.65	2.45
117	184.80	2.60
130	184.94	2.74

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ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ ROADWAY OVERTOPPING DATA ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ
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ROADWAY SURFACE	PAVED
EMBANKMENT TOP WIDTH	50.00 ft
CREST LENGTH	199.00 ft
OVERTOPPING CREST ELEVATION	199.00 ft

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West Regency Park Detention Pond
HY-8 Output

CURRENT DATE: 03-06-2006 FILE DATE: 03-06-2006
CURRENT TIME: 11:33:26 FILE NAME: BEAUTY1R

FHWA CULVERT ANALYSIS
HY-8, VERSION 6.1

CULVERT NO.	SITE DATA: INLET ELEV. (ft)	SITE DATA: OUTLET ELEV. (ft)	SITE DATA: CULVERT LENGTH (ft)	CULVERT SHAPE, MATERIAL, INLET: BARRELS	SHAPE	SPAN (ft)	RISE (ft)	MANNING n	INLET TYPE
1	182.90	182.80	30.00	1	RCP	3.00	3.00	.012	CONVENTIONAL
2									
3									
4									
5									
6									

SUMMARY OF CULVERT FLOWS (cfs) FILE: BEAUTY1R DATE: 03-06-2006

ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR
182.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1
185.17	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.00	1
185.94	40.0	33.5	0.0	0.0	0.0	0.0	0.0	6.42	5
186.22	60.0	38.2	0.0	0.0	0.0	0.0	0.0	21.36	4
186.48	80.0	37.9	0.0	0.0	0.0	0.0	0.0	41.83	5
186.73	100.0	32.7	0.0	0.0	0.0	0.0	0.0	66.77	6
186.90	115.0	27.2	0.0	0.0	0.0	0.0	0.0	86.69	6
187.42	140.0	10.5	0.0	0.0	0.0	0.0	0.0	129.52	7
188.54	160.0	7.7	0.0	0.0	0.0	0.0	0.0	153.83	4
189.69	180.0	7.5	0.0	0.0	0.0	0.0	0.0	172.55	4
190.84	200.0	7.4	0.0	0.0	0.0	0.0	0.0	192.72	4
185.70	29.3	29.3	0.0	0.0	0.0	0.0	0.0	OVERTOPPING	

SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: BEAUTY1R DATE: 03-06-2006

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
182.90	0.000	0.00	0.00	0.00
185.17	0.000	20.00	0.00	0.00
185.94	-0.006	40.00	0.07	0.17
186.22	-0.004	60.00	0.47	0.78
186.48	-0.006	80.00	0.27	0.34
186.73	-0.006	100.00	0.55	0.55
186.90	-0.007	115.00	1.08	0.94
187.42	0.001	140.00	-0.03	-0.02
188.54	0.000	160.00	-1.57	-0.98
189.69	0.000	180.00	-0.08	-0.04
190.84	0.000	200.00	-0.18	-0.09

<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000

CURRENT DATE: 03-06-2006 FILE DATE: 03-06-2006
CURRENT TIME: 11:33:26 FILE NAME: BEAUTY1R

PERFORMANCE CURVE FOR CULVERT 1 - 1(3.00 (ft) BY 3.00 (ft)) RCP

DIS-CHARGE FLOW (cfs)	HEAD-WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	182.90	0.00	0.00	0-NF	0.00	0.00	0.00	-0.10	0.00	0.00
20.00	185.17	2.10	2.27	2-M2c	1.46	1.43	1.43	0.96	6.01	0.00
33.51	185.95	2.90	3.05	2-M2c	2.04	1.87	1.87	1.61	7.22	0.00
38.17	186.21	3.18	3.31	3-M1t	2.27	2.00	2.30	2.30	6.58	0.00
37.90	186.47	3.17	3.57	3-M1t	2.26	2.00	2.89	2.89	5.47	0.00
32.68	186.72	2.85	3.82	4-FFt	2.01	1.85	3.00	3.36	4.62	0.00
27.23	186.89	2.54	3.99	4-FFt	1.77	1.68	3.00	3.70	3.85	0.00
10.51	187.43	1.40	4.53	4-FFt	1.02	1.02	3.00	4.57	1.49	0.00
7.74	188.55	1.15	5.65	4-FFt	0.87	0.87	3.00	5.72	1.10	0.00
7.52	189.70	1.12	6.80	4-FFt	0.86	0.86	3.00	6.87	1.06	0.00
7.45	190.85	1.12	7.95	4-FFt	0.85	0.85	3.00	8.02	1.05	0.00

El. inlet face invert 182.90 ft El. outlet invert 182.80 ft
El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT **********

INLET STATION	0.00 ft
INLET ELEVATION	182.90 ft
OUTLET STATION	30.00 ft
OUTLET ELEVATION	182.80 ft
NUMBER OF BARRELS	1
SLOPE (V/H)	0.0033
CULVERT LENGTH ALONG SLOPE	30.00 ft

***** CULVERT DATA SUMMARY **********

BARREL SHAPE	CIRCULAR
BARREL DIAMETER	3.00 ft
BARREL MATERIAL	CONCRETE
BARREL MANNING'S n	0.012
INLET TYPE	CONVENTIONAL
INLET EDGE AND WALL	SQUARE EDGE WITH HEADWALL
INLET DEPRESSION	NONE

CURRENT DATE: 03-06-2006 FILE DATE: 03-06-2006
CURRENT TIME: 11:33:26 FILE NAME: BEAUTY1R

TAILWATER

TAILWATER RATING CURVE

FLOW (cfs)	W.S.E.(ft)	DEPTH (ft)
0	182.70	-0.10
20	183.76	0.96
40	184.41	1.61
60	185.10	2.30
80	185.69	2.89
100	186.16	3.36
115	186.50	3.70
140	187.37	4.57
160	188.52	5.72
180	189.67	6.87
200	190.82	8.02

ROADWAY OVERTOPPING DATA

ROADWAY SURFACE GRAVEL
EMBANKMENT TOP WIDTH 20.00 ft
***** USER DEFINED ROADWAY PROFILE

CROSS-SECTION COORD. NO.	X ft	Y ft
1	0.00	187.10
2	50.00	187.00
3	55.20	185.70
4	75.20	185.70
5	80.40	187.00
6	100.00	187.10

HY-8 OUTPUT
48" RCP under K-96 Highway

CURRENT DATE: 01-11-2006 FILE DATE: 01-11-2006
CURRENT TIME: 08:38:29 FILE NAME: K9648IN

FHWA CULVERT ANALYSIS
HY-8, VERSION 6.1

CULVERT NO.	INLET ELEV. (ft)	OUTLET ELEV. (ft)	CULVERT LENGTH (ft)	BARRELS SHAPE	MATERIAL	SPAN (ft)	RISE (ft)	MANNING n	INLET TYPE
1	1366.30	1362.00	266.03	1	RCP	4.00	4.00	.012	CONVENTIONAL
2									
3									
4									
5									
6									

SUMMARY OF CULVERT FLOWS (cfs) FILE: K9648IN DATE: 01-11-2006

ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR
1366.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1368.05	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1369.03	40.0	40.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1369.81	60.0	60.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1370.55	80.0	79.1	0.0	0.0	0.0	0.0	0.0	0.74	3
1371.04	100.0	90.8	0.0	0.0	0.0	0.0	0.0	8.85	4
1371.37	120.0	97.6	0.0	0.0	0.0	0.0	0.0	21.51	4
1371.61	140.0	102.8	0.0	0.0	0.0	0.0	0.0	36.67	4
1371.80	160.0	106.6	0.0	0.0	0.0	0.0	0.0	52.96	4
1371.97	180.0	109.7	0.0	0.0	0.0	0.0	0.0	69.70	4
1372.12	200.0	112.5	0.0	0.0	0.0	0.0	0.0	86.93	4
1370.25	71.4	71.4	0.0	0.0	0.0	0.0	0.0	OVERTOPPING	

SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: K9648IN DATE: 01-11-2006

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
1366.92	0.000	0.00	0.00	0.00
1368.05	0.000	20.00	0.00	0.00
1369.03	0.000	40.00	0.00	0.00
1369.81	0.000	60.00	0.00	0.00
1370.55	-0.005	80.00	0.17	0.21
1371.04	-0.006	100.00	0.37	0.37
1371.37	-0.008	120.00	0.87	0.73
1371.61	-0.004	140.00	0.51	0.36
1371.80	-0.003	160.00	0.49	0.31
1371.97	-0.003	180.00	0.57	0.32
1372.12	-0.003	200.00	0.58	0.29

<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000

CURRENT DATE: 01-11-2006 FILE DATE: 01-11-2006
CURRENT TIME: 08:38:29 FILE NAME: K9648IN

PERFORMANCE CURVE FOR CULVERT 1 - 1(4.00 (ft) BY 4.00 (ft)) RCP

DIS-CHARGE FLOW (cfs)	HEAD-WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	1366.92	0.00	0.62	0-NF	0.00	0.00	0.00	4.92	0.00	0.00
20.00	1368.05	1.75	1.75	1-S1f	0.85	1.31	1.50	4.92	4.64	0.00
40.00	1369.03	2.73	2.73	1-S1f	1.22	1.88	2.00	4.92	6.37	0.00
60.00	1369.81	3.51	3.51	1-S1f	1.50	2.33	2.50	4.92	7.27	0.00
79.09	1370.55	4.25	4.25	1-S1f	1.75	2.69	2.80	4.92	8.42	0.00
90.78	1371.04	4.74	4.74	1-S1f	1.90	2.88	3.00	4.92	9.00	0.00
97.61	1371.36	5.06	5.06	1-S1f	1.98	2.98	3.10	4.92	9.36	0.00
102.82	1371.61	5.31	5.31	1-S1f	2.04	3.06	3.20	4.92	9.54	0.00
106.55	1371.80	5.50	5.50	1-S1f	2.09	3.12	3.30	4.92	9.63	0.00
109.73	1371.97	5.67	5.67	1-S1f	2.12	3.16	3.30	4.92	9.92	0.00
112.49	1372.12	5.82	5.82	1-S1f	2.16	3.20	3.40	4.92	9.92	0.00

El. inlet face invert 1366.30 ft El. outlet invert 1362.00 ft
El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT **********

INLET STATION	0.00 ft
INLET ELEVATION	1366.30 ft
OUTLET STATION	266.00 ft
OUTLET ELEVATION	1362.00 ft
NUMBER OF BARRELS	1
SLOPE (V/H)	0.0162
CULVERT LENGTH ALONG SLOPE	266.03 ft

***** CULVERT DATA SUMMARY **********

BARREL SHAPE	CIRCULAR
BARREL DIAMETER	4.00 ft
BARREL MATERIAL	CONCRETE
BARREL MANNING'S n	0.012
INLET TYPE	CONVENTIONAL
INLET EDGE AND WALL	SQUARE EDGE WITH HEADWALL
INLET DEPRESSION	NONE

CURRENT DATE: 01-11-2006 FILE DATE: 01-11-2006
CURRENT TIME: 08:38:29 FILE NAME: K9648IN

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ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ TAILWATER ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ
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CONSTANT WATER SURFACE ELEVATION
1366.92

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ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ ROADWAY OVERTOPPING DATA ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ
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ROADWAY SURFACE GRAVEL
EMBANKMENT TOP WIDTH 24.00 ft
***** USER DEFINED ROADWAY PROFILE

CROSS-SECTION COORD. NO.	X ft	Y ft
1	0.00	1386.72
2	45.00	1371.21
3	50.00	1370.25
4	65.00	1371.55
5	75.00	1372.24
6	87.00	1372.48

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HY-8 OUTPUT
48" RCP under K-96 Ramp

CURRENT DATE: 01-16-2006 FILE DATE: 01-11-2006
CURRENT TIME: 15:39:54 FILE NAME: K96RAMP

FHWA CULVERT ANALYSIS
HY-8, VERSION 6.1

C	SITE DATA			CULVERT SHAPE, MATERIAL, INLET				
L	INLET ELEV.	OUTLET ELEV.	CULVERT LENGTH	BARRELS SHAPE	SPAN	RISE	MANNING	INLET
V				MATERIAL	(ft)	(ft)	n	TYPE
NO.	(ft)	(ft)	(ft)					
1	1366.90	1366.63	100.00	1 RCP	4.00	4.00	.012	CONVENTIONAL
2								
3								
4								
5								
6								

SUMMARY OF CULVERT FLOWS (cfs) FILE: K96RAMP DATE: 01-11-2006

ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR
1366.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1368.91	20.0	20.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1369.87	40.0	40.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1370.74	60.0	60.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1371.77	80.0	80.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1372.93	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1374.08	120.0	120.0	0.0	0.0	0.0	0.0	0.0	0.00	1
1374.49	140.0	123.7	0.0	0.0	0.0	0.0	0.0	14.14	30
1374.54	150.0	120.6	0.0	0.0	0.0	0.0	0.0	28.17	15
1374.61	180.0	118.1	0.0	0.0	0.0	0.0	0.0	60.41	12
1374.64	200.0	115.6	0.0	0.0	0.0	0.0	0.0	82.69	9
1374.26	122.9	122.9	0.0	0.0	0.0	0.0	0.0	OVERTOPPING	

SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: K96RAMP DATE: 01-11-2006

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
1366.92	0.000	0.00	0.00	0.00
1368.91	0.000	20.00	0.00	0.00
1369.87	0.000	40.00	0.00	0.00
1370.74	0.000	60.00	0.00	0.00
1371.77	0.000	80.00	0.00	0.00
1372.93	0.000	100.00	0.00	0.00
1374.08	0.000	120.00	0.00	0.00
1374.49	-0.002	140.00	2.18	1.56
1374.54	-0.001	150.00	1.25	0.83
1374.61	-0.001	180.00	1.45	0.81
1374.64	-0.001	200.00	1.67	0.83

<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000

CURRENT DATE: 01-16-2006 FILE DATE: 01-11-2006
CURRENT TIME: 15:39:54 FILE NAME: K96RAMP

PERFORMANCE CURVE FOR CULVERT 1 - 1(4.00 (ft) BY 4.00 (ft)) RCP

DIS-CHARGE FLOW (cfs)	HEAD-WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	1366.92	0.00	0.02	0-NF	0.00	0.00	0.00	0.29	0.00	0.00
20.00	1368.91	1.78	2.01	3-M1t	1.34	1.31	1.42	1.42	4.99	0.00
40.00	1369.87	2.75	2.97	3-M1t	1.98	1.88	2.40	2.40	5.08	0.00
60.00	1370.74	3.54	3.84	3-M1t	2.57	2.33	3.18	3.18	5.60	0.00
80.00	1371.77	4.31	4.87	3-M1t	3.24	2.70	3.92	3.92	6.43	0.00
100.00	1372.93	5.20	6.03	4-FFt	4.00	3.02	4.00	4.41	7.96	0.00
120.00	1374.09	6.27	7.19	4-FFt	4.00	3.28	4.00	4.74	9.55	0.00
123.68	1374.49	6.50	7.59	4-FFt	4.00	3.32	4.00	4.98	9.84	0.00
120.58	1374.54	6.31	7.64	4-FFt	4.00	3.29	4.00	5.17	9.60	0.00
118.14	1374.60	6.17	7.70	4-FFt	4.00	3.26	4.00	5.34	9.40	0.00
115.64	1374.64	6.02	7.74	4-FFt	4.00	3.24	4.00	5.49	9.20	0.00

El. inlet face invert 1366.90 ft El. outlet invert 1366.63 ft
El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT **********

INLET STATION	0.00 ft
INLET ELEVATION	1366.90 ft
OUTLET STATION	100.00 ft
OUTLET ELEVATION	1366.63 ft
NUMBER OF BARRELS	1
SLOPE (V/H)	0.0027
CULVERT LENGTH ALONG SLOPE	100.00 ft

***** CULVERT DATA SUMMARY **********

BARREL SHAPE	CIRCULAR
BARREL DIAMETER	4.00 ft
BARREL MATERIAL	CONCRETE
BARREL MANNING'S n	0.012
INLET TYPE	CONVENTIONAL
INLET EDGE AND WALL	SQUARE EDGE WITH HEADWALL
INLET DEPRESSION	NONE

CURRENT DATE: 01-16-2006 FILE DATE: 01-11-2006
CURRENT TIME: 15:39:54 FILE NAME: K96RAMP

TAILWATER RATING CURVE

FLOW (cfs)	W.S.E.(ft)	DEPTH (ft)
0	1366.92	0.29
20	1368.05	1.42
40	1369.03	2.40
60	1369.81	3.18
80	1370.55	3.92
100	1371.04	4.41
120	1371.37	4.74
140	1371.61	4.98
150	1371.80	5.17
180	1371.97	5.34
200	1372.12	5.49

TAILWATER

ROADWAY OVERTOPPING DATA

ROADWAY SURFACE PAVED
EMBANKMENT TOP WIDTH 50.00 ft
***** USER DEFINED ROADWAY PROFILE

CROSS-SECTION COORD. NO.	X ft	Y ft
1	44990.00	1375.00
2	45000.00	1374.50
3	45200.00	1374.50
4	45400.00	1375.00
5	45600.00	1374.26
6	45800.00	1375.10
7	46000.00	1375.60
8	46200.00	1376.00

HYDRAFLOW OUTPUT
Pre-developed Conditions

Hydrograph Return Period Recap

Hyd. No.	Hydrograph type (origin)	Inflow Hyd(s)	Peak Outflow (cfs)								Hydrograph description
			1-Yr	2-Yr	3-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	
1	SCS Runoff	-------	-------	96.54	-------	-------	187.60	244.78	288.87	327.64	Jabara
2	SCS Runoff	-------	-------	9.10	-------	-------	17.62	22.98	27.12	30.76	West Soccer Fld
3	SCS Runoff	-------	-------	21.67	-------	-------	41.97	54.73	64.59	73.26	West Regency Park
4	SCS Runoff	-------	-------	27.76	-------	-------	42.17	50.69	57.18	62.85	K-96
5	Combine	1, 2, 3, 4	-------	133.72	-------	-------	258.67	335.93	395.45	447.78	Flow to 3x6
6	Diversion1	5	-------	115.00	-------	-------	115.00	115.00	115.00	115.00	Through RCB
7	Diversion2	5	-------	18.72	-------	-------	143.67	220.93	280.45	332.78	Over Ditch Plug
8	SCS Runoff	-------	-------	40.11	-------	-------	77.68	101.29	119.54	135.59	East Soccer
9	SCS Runoff	-------	-------	46.57	-------	-------	90.20	117.62	138.81	157.45	NE Regency Park
10	SCS Runoff	-------	-------	36.87	-------	-------	71.42	93.13	109.91	124.66	SE Reg Park
11	Combine	7, 8, 9, 10	-------	142.26	-------	-------	382.98	531.60	646.03	746.58	To 48 inch RCP
12	Reservoir	11	-------	72.84	-------	-------	104.50	117.04	139.41	248.37	Pre-Proj Nat Pond

Proj. file: Pre-dev Cond wTW.gpw

Run date: 01-17-2006

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	96.54	6	744	12.587	----	------	------	Jabara
2	SCS Runoff	9.10	6	738	1.058	----	------	------	West Soccer Fld
3	SCS Runoff	21.67	6	738	2.521	----	------	------	West Regency Park
4	SCS Runoff	27.76	6	720	2.156	----	------	------	K-96
5	Combine	133.72	6	738	18.322	1, 2, 3, 4	------	------	Flow to 3x6
6	Diversion1	115.00	6	726	17.934	5	------	------	Through RCB
7	Diversion2	18.72	6	738	0.389	5	------	------	Over Ditch Plug
8	SCS Runoff	40.11	6	738	4.665	----	------	------	East Soccer
9	SCS Runoff	46.57	6	738	5.417	----	------	------	NE Regency Park
10	SCS Runoff	36.87	6	738	4.289	----	------	------	SE Reg Park
11	Combine	142.26	6	738	14.761	7, 8, 9, 10	------	------	To 48 inch RCP
12	Reservoir	72.84	6	756	14.761	11	184.00	3.092	Pre-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	187.60	6	738	24.173	----	------	------	Jabara
2	SCS Runoff	17.62	6	738	2.033	----	------	------	West Soccer Fld
3	SCS Runoff	41.97	6	738	4.841	----	------	------	West Regency Park
4	SCS Runoff	42.17	6	720	3.329	----	------	------	K-96
5	Combine	258.67	6	738	34.375	1, 2, 3, 4	------	------	Flow to 3x6
6	Diversion1	115.00	6	714	27.489	5	------	------	Through RCB
7	Diversion2	143.67	6	738	6.886	5	------	------	Over Ditch Plug
8	SCS Runoff	77.68	6	738	8.959	----	------	------	East Soccer
9	SCS Runoff	90.20	6	738	10.404	----	------	------	NE Regency Park
10	SCS Runoff	71.42	6	738	8.237	----	------	------	SE Reg Park
11	Combine	382.98	6	738	34.486	7, 8, 9, 10	------	------	To 48 inch RCP
12	Reservoir	104.50	6	768	34.486	11	185.79	14.164	Pre-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	244.78	6	738	31.482	----	------	------	Jabara
2	SCS Runoff	22.98	6	732	2.647	----	------	------	West Soccer Fld
3	SCS Runoff	54.73	6	732	6.304	----	------	------	West Regency Park
4	SCS Runoff	50.69	6	720	4.025	----	------	------	K-96
5	Combine	335.93	6	738	44.458	1, 2, 3, 4	------	------	Flow to 3x6
6	Diversion1	115.00	6	714	32.608	5	------	------	Through RCB
7	Diversion2	220.93	6	738	11.850	5	------	------	Over Ditch Plug
8	SCS Runoff	101.29	6	732	11.668	----	------	------	East Soccer
9	SCS Runoff	117.62	6	732	13.549	----	------	------	NE Regency Park
10	SCS Runoff	93.13	6	732	10.728	----	------	------	SE Reg Park
11	Combine	531.60	6	738	47.795	7, 8, 9, 10	------	------	To 48 inch RCP
12	Reservoir	117.04	6	774	47.796	11	186.52	22.414	Pre-Proj Nat Pond

Proj. file: Pre-dev Cond wTW.gpw | Return Period: 25 yr | Run date: 01-17-2006

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	288.87	6	738	37.182	----	------	------	Jabara
2	SCS Runoff	27.12	6	732	3.126	----	------	------	West Soccer Fld
3	SCS Runoff	64.59	6	732	7.446	----	------	------	West Regency Park
4	SCS Runoff	57.18	6	720	4.556	----	------	------	K-96
5	Combine	395.45	6	738	52.310	1, 2, 3, 4	------	------	Flow to 3x6
6	Diversion1	115.00	6	714	36.559	5	------	------	Through RCB
7	Diversion2	280.45	6	738	15.751	5	------	------	Over Ditch Plug
8	SCS Runoff	119.54	6	732	13.781	----	------	------	East Soccer
9	SCS Runoff	138.81	6	732	16.002	----	------	------	NE Regency Park
10	SCS Runoff	109.91	6	732	12.670	----	------	------	SE Reg Park
11	Combine	646.03	6	738	58.204	7, 8, 9, 10	------	------	To 48 inch RCP
12	Reservoir	139.41	6	774	58.205	11	187.01	28.968	Pre-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	327.64	6	738	42.238	----	------	------	Jabara
2	SCS Runoff	30.76	6	732	3.552	----	------	------	West Soccer Fld
3	SCS Runoff	73.26	6	732	8.458	----	------	------	West Regency Park
4	SCS Runoff	62.85	6	720	5.021	----	------	------	K-96
5	Combine	447.78	6	738	59.268	1, 2, 3, 4	------	------	Flow to 3x6
6	Diversion1	115.00	6	708	39.920	5	------	------	Through RCB
7	Diversion2	332.78	6	738	19.348	5	------	------	Over Ditch Plug
8	SCS Runoff	135.59	6	732	15.655	----	------	------	East Soccer
9	SCS Runoff	157.45	6	732	18.178	----	------	------	NE Regency Park
10	SCS Runoff	124.66	6	732	14.393	----	------	------	SE Reg Park
11	Combine	746.58	6	738	67.574	7, 8, 9, 10	------	------	To 48 inch RCP
12	Reservoir	248.37	6	768	67.575	11	187.20	32.784	Pre-Proj Nat Pond

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 1

Jabara

Hydrograph type	= SCS Runoff	Peak discharge	= 327.64 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 95.60 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 48.8 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 42.238 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.30	327.64 <<
12.40	324.15

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 2

West Soccer Fld

Hydrograph type	= SCS Runoff	Peak discharge	= 30.76 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 7.60 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 35.3 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 3.552 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.20	30.76 <<
12.30	30.47

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 3

West Regency Park

Hydrograph type	= SCS Runoff	Peak discharge	= 73.26 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 18.10 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 31.6 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 8.458 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.20	73.26 <<
12.30	72.58

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 4

K-96

Hydrograph type	= SCS Runoff	Peak discharge	= 62.85 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 8.50 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 18.1 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 5.021 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)	
12.00	62.85	<<

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 5

Flow to 3x6

Hydrograph type	= Combine	Peak discharge	= 447.78 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyds.	= 1, 2, 3, 4		

Hydrograph Volume = 59.268 acft

Hydrograph Discharge Table

Time (hrs)	Hyd. 1 + (cfs)	Hyd. 2 + (cfs)	Hyd. 3 + (cfs)	Hyd. 4 = (cfs)	Outflow (cfs)
12.20	292.98	30.76 <<	73.26 <<	34.14	431.14
12.30	327.64 <<	30.47	72.58	17.08	447.78 <<
12.40	324.15	26.96	64.21	9.49	424.81

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 6

Through RCB

Hydrograph type	= Diversion1	Peak discharge	= 115.00 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hydrograph	= 5	2nd diverted hyd.	= 7
Diversion method	= Constant Q	Constant Q	= 115.00 cfs

Hydrograph Volume = 39.920 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	2nd Diverted cfs	Outflow cfs
11.80	122.98	7.98	115.00 <<
11.90	207.73	92.73	115.00 <<
12.00	311.30	196.30	115.00 <<
12.10	385.80	270.80	115.00 <<
12.20	431.14	316.14	115.00 <<
12.30	447.78 <<	332.78 <<	115.00 <<
12.40	424.81	309.81	115.00 <<
12.50	379.26	264.26	115.00 <<
12.60	329.15	214.15	115.00 <<
12.70	276.14	161.14	115.00 <<
12.80	222.17	107.17	115.00 <<
12.90	170.57	55.57	115.00 <<
13.00	127.30	12.30	115.00 <<

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 7

Over Ditch Plug

Hydrograph type	= Diversion2	Peak discharge	= 332.78 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hydrograph	= 5	2nd diverted hyd.	= 6
Diversion method	= Constant Q	Constant Q	= 115.00 cfs

Hydrograph Volume = 19.348 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	2nd Diverted cfs	Outflow cfs
12.20	431.14	115.00 <<	316.14
12.30	447.78 <<	115.00 <<	332.78 <<
12.40	424.81	115.00 <<	309.81

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 8

East Soccer

Hydrograph type	= SCS Runoff	Peak discharge	= 135.59 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 33.50 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 30.9 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 15.655 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.20	135.59 <<
12.30	134.33

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 9

NE Regency Park

Hydrograph type	= SCS Runoff	Peak discharge	= 157.45 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 38.90 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 30.9 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 18.178 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.20	157.45 <<
12.30	155.98

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 10

SE Reg Park

Hydrograph type	= SCS Runoff	Peak discharge	= 124.66 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 30.80 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 31 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 14.393 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.20	124.66 <<
12.30	123.50

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 11

To 48 inch RCP

Hydrograph type	= Combine	Peak discharge	= 746.58 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyds.	= 7, 8, 9, 10		

Hydrograph Volume = 67.574 acft

Hydrograph Discharge Table

Time (hrs)	Hyd. 7 + (cfs)	Hyd. 8 + (cfs)	Hyd. 9 + (cfs)	Hyd. 10 = (cfs)	Outflow (cfs)
12.20	316.14	135.59 <<	157.45 <<	124.66 <<	733.85
12.30	332.78 <<	134.33	155.98	123.50	746.58 <<
12.40	309.81	118.84	137.99	109.26	675.90

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 12

Pre-Proj Nat Pond

Hydrograph type	= Reservoir	Peak discharge	= 248.37 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 11	Reservoir name	= Nat Pre Proj Pond
Max. Elevation	= 187.20 ft	Max. Storage	= 32.784 acft

Storage Indication method used.

Outflow hydrograph volume = 67.575 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.70	358.38	187.17	-----	-----	-----	-----	-----	-----	-----	-----	-----	233.56
12.80	249.08	187.20 <<	-----	-----	-----	-----	-----	-----	-----	-----	-----	248.37 <<
12.90	151.77	187.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	238.25

...End

Reservoir Report

Reservoir No. 1 - Nat Pre Proj Pond

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	179.50	00	0.000	0.000
0.50	180.00	217	0.001	0.001
1.50	181.00	5,221	0.062	0.064
2.50	182.00	14,671	0.228	0.292
3.50	183.00	49,972	0.742	1.034
4.50	184.00	128,790	2.052	3.086
5.50	185.00	269,773	4.575	7.661
6.50	186.00	449,340	8.254	15.915
7.36	186.86	644,422	10.797	26.712
7.50	187.00	676,180	2.122	28.834
8.50	188.00	1,066,646	20.005	48.839

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 48.0	0.0	0.0	0.0
Span in	= 48.0	0.0	0.0	0.0
No. Barrels	= 1	0	0	0
Invert El. ft	= 179.50	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 200.00	200.00	0.00	0.00
Crest El. ft	= 186.90	188.10	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Rect	Rect	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 185.15 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	179.50	0.00	---	---	---	0.00	0.00	---	---	---	0.00
0.05	0.000	179.55	0.00	---	---	---	0.00	0.00	---	---	---	0.48
0.10	0.000	179.60	0.00	---	---	---	0.00	0.00	---	---	---	0.96
0.15	0.000	179.65	0.00	---	---	---	0.00	0.00	---	---	---	1.45
0.20	0.000	179.70	0.00	---	---	---	0.00	0.00	---	---	---	1.93
0.25	0.001	179.75	0.00	---	---	---	0.00	0.00	---	---	---	2.41
0.30	0.001	179.80	0.00	---	---	---	0.00	0.00	---	---	---	2.89
0.35	0.001	179.85	0.00	---	---	---	0.00	0.00	---	---	---	3.37
0.40	0.001	179.90	0.00	---	---	---	0.00	0.00	---	---	---	3.86
0.45	0.001	179.95	0.00	---	---	---	0.00	0.00	---	---	---	4.34
0.50	0.001	180.00	0.00	---	---	---	0.00	0.00	---	---	---	4.82
0.60	0.007	180.10	0.00	---	---	---	0.00	0.00	---	---	---	5.83
0.70	0.014	180.20	0.00	---	---	---	0.00	0.00	---	---	---	6.83
0.80	0.020	180.30	0.00	---	---	---	0.00	0.00	---	---	---	7.84
0.90	0.026	180.40	0.00	---	---	---	0.00	0.00	---	---	---	8.84
1.00	0.032	180.50	0.00	---	---	---	0.00	0.00	---	---	---	9.85
1.10	0.039	180.60	0.00	---	---	---	0.00	0.00	---	---	---	10.85
1.20	0.045	180.70	0.00	---	---	---	0.00	0.00	---	---	---	11.86
1.30	0.051	180.80	0.00	---	---	---	0.00	0.00	---	---	---	12.86
1.40	0.057	180.90	0.00	---	---	---	0.00	0.00	---	---	---	13.87
1.50	0.064	181.00	0.00	---	---	---	0.00	0.00	---	---	---	14.87
1.60	0.086	181.10	0.00	---	---	---	0.00	0.00	---	---	---	16.40
1.70	0.109	181.20	0.00	---	---	---	0.00	0.00	---	---	---	17.94
1.80	0.132	181.30	0.00	---	---	---	0.00	0.00	---	---	---	19.47
1.90	0.155	181.40	0.00	---	---	---	0.00	0.00	---	---	---	21.01
2.00	0.178	181.50	0.00	---	---	---	0.00	0.00	---	---	---	22.54
2.10	0.201	181.60	0.00	---	---	---	0.00	0.00	---	---	---	24.07

Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
2.20	0.223	181.70	0.00	---	---	---	0.00	0.00	---	---	---	25.61
2.30	0.246	181.80	0.00	---	---	---	0.00	0.00	---	---	---	27.14
2.40	0.269	181.90	0.00	---	---	---	0.00	0.00	---	---	---	28.68
2.50	0.292	182.00	0.00	---	---	---	0.00	0.00	---	---	---	30.21
2.60	0.366	182.10	0.00	---	---	---	0.00	0.00	---	---	---	32.41
2.70	0.440	182.20	0.00	---	---	---	0.00	0.00	---	---	---	34.60
2.80	0.515	182.30	0.00	---	---	---	0.00	0.00	---	---	---	36.80
2.90	0.589	182.40	0.00	---	---	---	0.00	0.00	---	---	---	39.00
3.00	0.663	182.50	0.00	---	---	---	0.00	0.00	---	---	---	41.19
3.10	0.737	182.60	0.00	---	---	---	0.00	0.00	---	---	---	43.39
3.20	0.811	182.70	0.00	---	---	---	0.00	0.00	---	---	---	45.59
3.30	0.886	182.80	0.00	---	---	---	0.00	0.00	---	---	---	47.79
3.40	0.960	182.90	0.00	---	---	---	0.00	0.00	---	---	---	49.98
3.50	1.034	183.00	0.00	---	---	---	0.00	0.00	---	---	---	52.18
3.60	1.239	183.10	0.00	---	---	---	0.00	0.00	---	---	---	54.24
3.70	1.444	183.20	0.00	---	---	---	0.00	0.00	---	---	---	56.31
3.80	1.650	183.30	0.00	---	---	---	0.00	0.00	---	---	---	58.37
3.90	1.855	183.40	0.00	---	---	---	0.00	0.00	---	---	---	60.44
4.00	2.060	183.50	0.00	---	---	---	0.00	0.00	---	---	---	62.50
4.10	2.265	183.60	0.00	---	---	---	0.00	0.00	---	---	---	64.56
4.20	2.470	183.70	0.00	---	---	---	0.00	0.00	---	---	---	66.63
4.30	2.676	183.80	0.00	---	---	---	0.00	0.00	---	---	---	68.69
4.40	2.881	183.90	0.00	---	---	---	0.00	0.00	---	---	---	70.76
4.50	3.086	184.00	0.00	---	---	---	0.00	0.00	---	---	---	72.82
4.60	3.543	184.10	0.00	---	---	---	0.00	0.00	---	---	---	74.62
4.70	4.001	184.20	0.00	---	---	---	0.00	0.00	---	---	---	76.43
4.80	4.458	184.30	0.00	---	---	---	0.00	0.00	---	---	---	78.23
4.90	4.916	184.40	0.00	---	---	---	0.00	0.00	---	---	---	80.04
5.00	5.373	184.50	0.00	---	---	---	0.00	0.00	---	---	---	81.84
5.10	5.831	184.60	0.00	---	---	---	0.00	0.00	---	---	---	83.64
5.20	6.288	184.70	0.00	---	---	---	0.00	0.00	---	---	---	85.45
5.30	6.746	184.80	0.00	---	---	---	0.00	0.00	---	---	---	87.25
5.40	7.203	184.90	0.00	---	---	---	0.00	0.00	---	---	---	89.06
5.50	7.661	185.00	0.00	---	---	---	0.00	0.00	---	---	---	90.86
5.60	8.486	185.10	0.00	---	---	---	0.00	0.00	---	---	---	92.59
5.70	9.312	185.20	0.00	---	---	---	0.00	0.00	---	---	---	94.32
5.80	10.137	185.30	0.00	---	---	---	0.00	0.00	---	---	---	96.05
5.90	10.962	185.40	0.00	---	---	---	0.00	0.00	---	---	---	97.78
6.00	11.788	185.50	0.00	---	---	---	0.00	0.00	---	---	---	99.52
6.10	12.613	185.60	0.00	---	---	---	0.00	0.00	---	---	---	101.25
6.20	13.439	185.70	0.00	---	---	---	0.00	0.00	---	---	---	102.98
6.30	14.264	185.80	0.00	---	---	---	0.00	0.00	---	---	---	104.71
6.40	15.090	185.90	0.00	---	---	---	0.00	0.00	---	---	---	106.44
6.50	15.915	186.00	0.00	---	---	---	0.00	0.00	---	---	---	108.17
6.59	16.995	186.09	0.00	---	---	---	0.00	0.00	---	---	---	109.64
6.67	18.074	186.17	0.00	---	---	---	0.00	0.00	---	---	---	111.12
6.76	19.154	186.26	0.00	---	---	---	0.00	0.00	---	---	---	112.59
6.84	20.234	186.34	0.00	---	---	---	0.00	0.00	---	---	---	114.06
6.93	21.314	186.43	0.00	---	---	---	0.00	0.00	---	---	---	115.54
7.02	22.393	186.52	0.00	---	---	---	0.00	0.00	---	---	---	117.01
7.10	23.473	186.60	0.00	---	---	---	0.00	0.00	---	---	---	118.48
7.19	24.553	186.69	0.00	---	---	---	0.00	0.00	---	---	---	119.95
7.27	25.632	186.77	0.00	---	---	---	0.00	0.00	---	---	---	121.43
7.36	26.712	186.86	0.00	---	---	---	0.00	0.00	---	---	---	122.90
7.37	26.924	186.87	0.00	---	---	---	0.00	0.00	---	---	---	124.17
7.39	27.137	186.89	0.00	---	---	---	0.00	0.00	---	---	---	125.44
7.40	27.349	186.90	0.00	---	---	---	0.00	0.00	---	---	---	126.71
7.42	27.561	186.92	0.00	---	---	---	0.00	0.00	---	---	---	127.98
7.43	27.773	186.93	0.00	---	---	---	0.00	0.00	---	---	---	129.26
7.44	27.985	186.94	0.00	---	---	---	0.00	0.00	---	---	---	130.53
7.46	28.198	186.96	0.00	---	---	---	0.00	0.00	---	---	---	131.80
7.47	28.410	186.97	0.00	---	---	---	0.00	0.00	---	---	---	133.07
7.49	28.622	186.99	0.00	---	---	---	0.00	0.00	---	---	---	134.34
7.50	28.834	187.00	0.00	---	---	---	0.00	0.00	---	---	---	135.61
7.60	30.835	187.10	0.00	---	---	---	0.00	0.00	---	---	---	192.72
7.70	32.835	187.20	0.00	---	---	---	0.00	0.00	---	---	---	249.82
7.80	34.836	187.30	0.00	---	---	---	0.00	0.00	---	---	---	306.93
7.90	36.836	187.40	0.00	---	---	---	0.00	0.00	---	---	---	364.03
8.00	38.837	187.50	0.00	---	---	---	0.00	0.00	---	---	---	421.14
8.10	40.837	187.60	0.00	---	---	---	0.00	0.00	---	---	---	478.25

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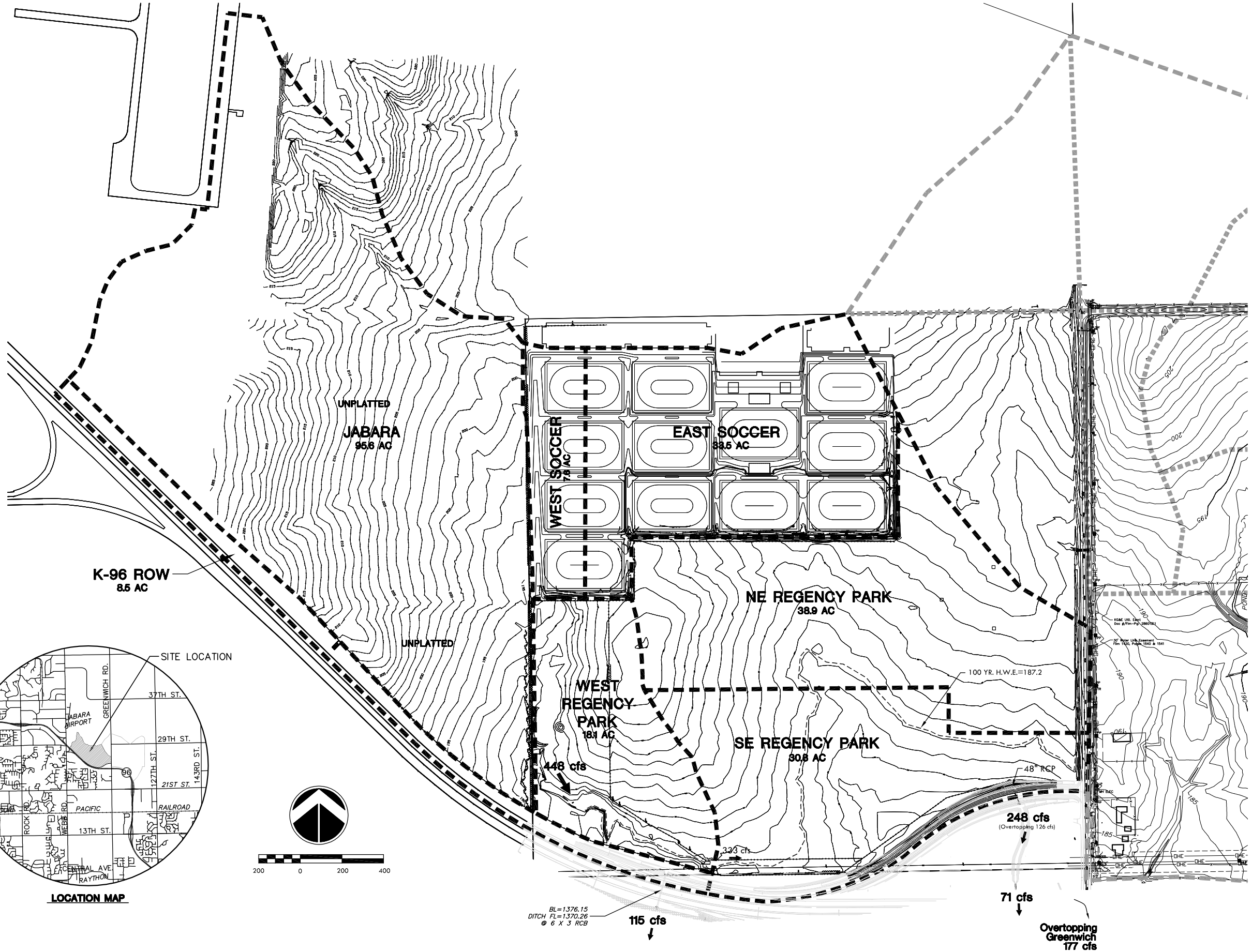
Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
8.20	42.838	187.70	0.00	---	---	---	0.00	0.00	---	---	---	535.35
8.30	44.838	187.80	0.00	---	---	---	0.00	0.00	---	---	---	592.46
8.40	46.839	187.90	0.00	---	---	---	0.00	0.00	---	---	---	649.56
8.50	48.839	188.00	0.00	---	---	---	0.00	0.00	---	---	---	706.67

...End

PREDEVELOPED DRAINAGE BOUNDARIES PLAN



PREDEVELOPED DRAINAGE BOUNDARIES PLAN

REGENCY PARK ADDITION

Date: January, 2006

MKEC ENGINEERING CONSULTANTS, INC.
411 N. WEBB RD.
WICHITA, KS 67206
www.mkec.com

G:\Projects\96104\Dwg\PRE-Developed Boundaries.dwg 1/06/2006 11:14:11 AM CST

HYDRAFLOW OUTPUT
Post Developed Conditions

Hydrograph Return Period Recap

Hyd. No.	Hydrograph type (origin)	Inflow Hyd(s)	Peak Outflow (cfs)								Hydrograph description
			1-Yr	2-Yr	3-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	
1	SCS Runoff	-------	-------	115.44	-------	172.80	211.27	269.46	313.94	352.86	Jabara
2	Reservoir	1	-------	8.56	-------	14.58	17.54	21.46	24.07	26.16	Jabara Pond
3	SCS Runoff	-------	-------	9.10	-------	14.18	17.62	22.98	27.12	30.76	West Soccer Fld
4	Reservoir	3	-------	1.79	-------	2.13	2.34	2.53	2.65	2.75	West Soccer Detention
5	SCS Runoff	-------	-------	50.16	-------	68.45	80.34	98.07	111.51	123.23	West Regency Park
6	Combine	2, 4, 5	-------	51.66	-------	71.44	84.67	104.79	120.56	134.15	Flow to Beauty Pond
7	Reservoir	6	-------	24.20	-------	42.07	58.64	79.94	96.79	110.75	Beauty 1st Pond
8	SCS Runoff	-------	-------	19.60	-------	28.62	34.58	43.54	50.35	56.29	K-96
9	Combine	7, 8	-------	31.99	-------	46.88	64.56	92.50	113.56	132.33	Flow to 6x3 RCB
10	Reservoir	9	-------	30.39	-------	45.97	60.67	86.03	104.14	119.45	K-96 Ditch
13	SCS Runoff	-------	-------	40.11	-------	62.51	77.68	101.29	119.54	135.59	East Soccer
14	Reservoir	13	-------	10.96	-------	12.56	12.97	13.29	13.54	13.77	F out of East Soccer
15	SCS Runoff	-------	-------	87.18	-------	118.98	139.64	170.45	193.81	214.18	NE Regency Park
16	Combine	14, 15	-------	97.56	-------	128.90	150.11	179.82	204.21	225.62	Flow to NE Reg Pond
17	Reservoir	16	-------	11.23	-------	13.43	14.69	16.19	17.16	17.94	NE Pond
18	SCS Runoff	-------	-------	72.37	-------	98.77	115.92	141.50	160.89	177.80	SE Reg Park
19	Combine	17, 18	-------	78.16	-------	107.05	125.49	152.50	172.88	190.57	To 48 inch RCP
20	Reservoir	19	-------	27.88	-------	38.55	45.79	55.91	62.94	69.07	Post-Proj Nat Pond

Proj. file: Post-dev Cond wTW3-06.gpw

Run date: 03-22-2006

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	115.44	6	744	14.909	----	------	------	Jabara
2	Reservoir	8.56	6	918	14.196	1	1.31	9.548	Jabara Pond
3	SCS Runoff	9.10	6	738	1.058	----	------	------	West Soccer Fld
4	Reservoir	1.79	6	780	1.058	3	195.07	0.472	West Soccer Detention
5	SCS Runoff	50.16	6	726	4.752	----	------	------	West Regency Park
6	Combine	51.66	6	726	20.007	2, 4, 5	------	------	Flow to Beauty Pond
7	Reservoir	24.20	6	750	20.003	6	185.37	1.629	Beauty 1st Pond
8	SCS Runoff	19.60	6	720	1.382	----	------	------	K-96
9	Combine	31.99	6	726	21.385	7, 8	------	------	Flow to 6x3 RCB
10	Reservoir	30.39	6	732	21.385	9	184.12	0.128	K-96 Ditch
13	SCS Runoff	40.11	6	738	4.665	----	------	------	East Soccer
14	Reservoir	10.96	6	732	4.656	13	192.67	1.558	F out of East Soccer
15	SCS Runoff	87.18	6	726	8.260	----	------	------	NE Regency Park
16	Combine	97.56	6	726	12.916	14, 15	------	------	Flow to NE Reg Pond
17	Reservoir	11.23	6	960	12.864	16	186.49	6.953	NE Pond
18	SCS Runoff	72.37	6	726	6.857	----	------	------	SE Reg Park
19	Combine	78.16	6	726	19.721	17, 18	------	------	To 48 inch RCP
20	Reservoir	27.88	6	756	19.721	19	181.85	2.567	Post-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	172.80	6	738	22.228	----	------	------	Jabara
2	Reservoir	14.58	6	870	21.492	1	1.91	14.096	Jabara Pond
3	SCS Runoff	14.18	6	738	1.636	----	------	------	West Soccer Fld
4	Reservoir	2.13	6	792	1.636	3	195.54	0.797	West Soccer Detention
5	SCS Runoff	68.45	6	726	6.574	----	------	------	West Regency Park
6	Combine	71.44	6	726	29.702	2, 4, 5	------	------	Flow to Beauty Pond
7	Reservoir	42.07	6	744	29.698	6	185.96	2.138	Beauty 1st Pond
8	SCS Runoff	28.62	6	720	2.025	----	------	------	K-96
9	Combine	46.88	6	744	31.723	7, 8	------	------	Flow to 6x3 RCB
10	Reservoir	45.97	6	750	31.723	9	184.58	0.237	K-96 Ditch
13	SCS Runoff	62.51	6	738	7.209	----	------	------	East Soccer
14	Reservoir	12.56	6	780	7.200	13	193.72	2.841	F out of East Soccer
15	SCS Runoff	118.98	6	726	11.427	----	------	------	NE Regency Park
16	Combine	128.90	6	726	18.627	14, 15	------	------	Flow to NE Reg Pond
17	Reservoir	13.43	6	966	18.571	16	187.24	9.564	NE Pond
18	SCS Runoff	98.77	6	726	9.486	----	------	------	SE Reg Park
19	Combine	107.05	6	726	28.056	17, 18	------	------	To 48 inch RCP
20	Reservoir	38.55	6	756	28.056	19	182.38	3.690	Post-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	211.27	6	738	27.185	----	------	------	Jabara
2	Reservoir	17.54	6	870	26.436	1	2.34	17.392	Jabara Pond
3	SCS Runoff	17.62	6	738	2.033	----	------	------	West Soccer Fld
4	Reservoir	2.34	6	798	2.033	3	195.88	1.029	West Soccer Detention
5	SCS Runoff	80.34	6	726	7.776	----	------	------	West Regency Park
6	Combine	84.67	6	726	36.245	2, 4, 5	------	------	Flow to Beauty Pond
7	Reservoir	58.64	6	744	36.240	6	186.19	2.367	Beauty 1st Pond
8	SCS Runoff	34.58	6	720	2.458	----	------	------	K-96
9	Combine	64.56	6	738	38.698	7, 8	------	------	Flow to 6x3 RCB
10	Reservoir	60.67	6	750	38.698	9	185.13	0.424	K-96 Ditch
13	SCS Runoff	77.68	6	738	8.959	----	------	------	East Soccer
14	Reservoir	12.97	6	786	8.950	13	194.02	3.767	F out of East Soccer
15	SCS Runoff	139.64	6	726	13.516	----	------	------	NE Regency Park
16	Combine	150.11	6	726	22.466	14, 15	------	------	Flow to NE Reg Pond
17	Reservoir	14.69	6	1014	22.407	16	187.73	11.426	NE Pond
18	SCS Runoff	115.92	6	726	11.220	----	------	------	SE Reg Park
19	Combine	125.49	6	726	33.627	17, 18	------	------	To 48 inch RCP
20	Reservoir	45.79	6	756	33.627	19	182.71	4.410	Post-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	269.46	6	738	34.783	----	------	------	Jabara
2	Reservoir	21.46	6	870	34.013	1	3.01	22.567	Jabara Pond
3	SCS Runoff	22.98	6	732	2.647	----	------	------	West Soccer Fld
4	Reservoir	2.53	6	816	2.647	3	196.21	1.404	West Soccer Detention
5	SCS Runoff	98.07	6	726	9.588	----	------	------	West Regency Park
6	Combine	104.79	6	726	46.248	2, 4, 5	------	------	Flow to Beauty Pond
7	Reservoir	79.94	6	738	46.244	6	186.47	2.647	Beauty 1st Pond
8	SCS Runoff	43.54	6	720	3.118	----	------	------	K-96
9	Combine	92.50	6	738	49.362	7, 8	------	------	Flow to 6x3 RCB
10	Reservoir	86.03	6	744	49.361	9	185.83	0.722	K-96 Ditch
13	SCS Runoff	101.29	6	732	11.668	----	------	------	East Soccer
14	Reservoir	13.29	6	798	11.659	13	194.26	5.296	F out of East Soccer
15	SCS Runoff	170.45	6	726	16.665	----	------	------	NE Regency Park
16	Combine	179.82	6	726	28.324	14, 15	------	------	Flow to NE Reg Pond
17	Reservoir	16.19	6	1116	28.261	16	188.37	14.020	NE Pond
18	SCS Runoff	141.50	6	726	13.834	----	------	------	SE Reg Park
19	Combine	152.50	6	726	42.095	17, 18	------	------	To 48 inch RCP
20	Reservoir	55.91	6	756	42.095	19	183.18	5.486	Post-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	313.94	6	738	40.663	----	------	------	Jabara
2	Reservoir	24.07	6	870	39.878	1	3.53	26.649	Jabara Pond
3	SCS Runoff	27.12	6	732	3.126	----	------	------	West Soccer Fld
4	Reservoir	2.65	6	828	3.126	3	196.42	1.708	West Soccer Detention
5	SCS Runoff	111.51	6	726	10.973	----	------	------	West Regency Park
6	Combine	120.56	6	726	53.978	2, 4, 5	------	------	Flow to Beauty Pond
7	Reservoir	96.79	6	738	53.973	6	186.70	2.868	Beauty 1st Pond
8	SCS Runoff	50.35	6	720	3.627	----	------	------	K-96
9	Combine	113.56	6	732	57.600	7, 8	------	------	Flow to 6x3 RCB
10	Reservoir	104.14	6	744	57.600	9	186.25	0.933	K-96 Ditch
13	SCS Runoff	119.54	6	732	13.781	----	------	------	East Soccer
14	Reservoir	13.54	6	810	13.771	13	194.45	6.523	F out of East Soccer
15	SCS Runoff	193.81	6	726	19.072	----	------	------	NE Regency Park
16	Combine	204.21	6	726	32.844	14, 15	------	------	Flow to NE Reg Pond
17	Reservoir	17.16	6	1134	32.777	16	188.82	15.903	NE Pond
18	SCS Runoff	160.89	6	726	15.833	----	------	------	SE Reg Park
19	Combine	172.88	6	726	48.610	17, 18	------	------	To 48 inch RCP
20	Reservoir	62.94	6	756	48.610	19	183.52	6.318	Post-Proj Nat Pond

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	SCS Runoff	352.86	6	738	45.855	----	------	------	Jabara
2	Reservoir	26.16	6	876	45.057	1	3.99	30.295	Jabara Pond
3	SCS Runoff	30.76	6	732	3.552	----	------	------	West Soccer Fld
4	Reservoir	2.75	6	834	3.552	3	196.62	1.983	West Soccer Detention
5	SCS Runoff	123.23	6	726	12.187	----	------	------	West Regency Park
6	Combine	134.15	6	726	60.796	2, 4, 5	------	------	Flow to Beauty Pond
7	Reservoir	110.75	6	738	60.791	6	186.88	3.051	Beauty 1st Pond
8	SCS Runoff	56.29	6	720	4.076	----	------	------	K-96
9	Combine	132.33	6	732	64.867	7, 8	------	------	Flow to 6x3 RCB
10	Reservoir	119.45	6	744	64.867	9	186.59	1.117	K-96 Ditch
13	SCS Runoff	135.59	6	732	15.655	----	------	------	East Soccer
14	Reservoir	13.77	6	822	15.645	13	194.63	7.659	F out of East Soccer
15	SCS Runoff	214.18	6	726	21.183	----	------	------	NE Regency Park
16	Combine	225.62	6	726	36.828	14, 15	------	------	Flow to NE Reg Pond
17	Reservoir	17.94	6	1128	36.759	16	189.20	17.536	NE Pond
18	SCS Runoff	177.80	6	726	17.585	----	------	------	SE Reg Park
19	Combine	190.57	6	726	54.343	17, 18	------	------	To 48 inch RCP
20	Reservoir	69.07	6	756	54.343	19	183.82	7.042	Post-Proj Nat Pond

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 1

Jabara

Hydrograph type	= SCS Runoff	Peak discharge	= 352.86 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 95.60 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 44.3 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 45.855 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.30	352.86 <<
12.40	347.58

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 2

Jabara Pond

Hydrograph type	= Reservoir	Peak discharge	= 26.16 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 1	Reservoir name	= Jabara pond
Max. Elevation	= 3.99 ft	Max. Storage	= 30.295 acft

Storage Indication method used.

Outflow hydrograph volume = 45.057 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.80	192.27	3.44	23.62	-----	-----	-----	-----	-----	-----	-----	-----	23.62
12.90	149.42	3.59	24.35	-----	-----	-----	-----	-----	-----	-----	-----	24.35
13.00	109.80	3.70	24.86	-----	-----	-----	-----	-----	-----	-----	-----	24.86
13.10	77.47	3.77	25.19	-----	-----	-----	-----	-----	-----	-----	-----	25.19
13.20	60.54	3.82	25.39	-----	-----	-----	-----	-----	-----	-----	-----	25.39
13.30	54.42	3.85	25.54	-----	-----	-----	-----	-----	-----	-----	-----	25.54
13.40	49.49	3.88	25.66	-----	-----	-----	-----	-----	-----	-----	-----	25.66
13.50	45.57	3.90	25.76	-----	-----	-----	-----	-----	-----	-----	-----	25.76
13.60	42.46	3.92	25.85	-----	-----	-----	-----	-----	-----	-----	-----	25.85
13.70	39.93	3.94	25.92	-----	-----	-----	-----	-----	-----	-----	-----	25.92
13.80	37.71	3.95	25.98	-----	-----	-----	-----	-----	-----	-----	-----	25.98
13.90	35.70	3.96	26.02	-----	-----	-----	-----	-----	-----	-----	-----	26.02
14.00	33.86	3.97	26.06	-----	-----	-----	-----	-----	-----	-----	-----	26.06
14.10	32.20	3.98	26.10	-----	-----	-----	-----	-----	-----	-----	-----	26.10
14.20	30.69	3.98	26.12	-----	-----	-----	-----	-----	-----	-----	-----	26.12
14.30	29.32	3.99	26.14	-----	-----	-----	-----	-----	-----	-----	-----	26.14
14.40	28.09	3.99	26.15	-----	-----	-----	-----	-----	-----	-----	-----	26.15
14.50	27.02	3.99	26.15	-----	-----	-----	-----	-----	-----	-----	-----	26.15
14.60	26.11	3.99 <<	26.16	-----	-----	-----	-----	-----	-----	-----	-----	26.16 <<
14.70	25.32	3.99	26.15	-----	-----	-----	-----	-----	-----	-----	-----	26.15
14.80	24.63	3.99	26.15	-----	-----	-----	-----	-----	-----	-----	-----	26.15
14.90	24.02	3.99	26.14	-----	-----	-----	-----	-----	-----	-----	-----	26.14
15.00	23.46	3.98	26.13	-----	-----	-----	-----	-----	-----	-----	-----	26.13
15.10	22.95	3.98	26.12	-----	-----	-----	-----	-----	-----	-----	-----	26.12
15.20	22.47	3.98	26.10	-----	-----	-----	-----	-----	-----	-----	-----	26.10
15.30	21.99	3.97	26.08	-----	-----	-----	-----	-----	-----	-----	-----	26.08
15.40	21.52	3.97	26.06	-----	-----	-----	-----	-----	-----	-----	-----	26.06
15.50	21.04	3.96	26.04	-----	-----	-----	-----	-----	-----	-----	-----	26.04
15.60	20.56	3.96	26.02	-----	-----	-----	-----	-----	-----	-----	-----	26.02
15.70	20.08	3.95	25.99	-----	-----	-----	-----	-----	-----	-----	-----	25.99
15.80	19.60	3.95	25.97	-----	-----	-----	-----	-----	-----	-----	-----	25.97
15.90	19.12	3.94	25.94	-----	-----	-----	-----	-----	-----	-----	-----	25.94
16.00	18.64	3.93	25.90	-----	-----	-----	-----	-----	-----	-----	-----	25.90
16.10	18.16	3.93	25.87	-----	-----	-----	-----	-----	-----	-----	-----	25.87
16.20	17.70	3.92	25.83	-----	-----	-----	-----	-----	-----	-----	-----	25.83
16.30	17.26	3.91	25.79	-----	-----	-----	-----	-----	-----	-----	-----	25.79
16.40	16.86	3.90	25.75	-----	-----	-----	-----	-----	-----	-----	-----	25.75
16.50	16.50	3.89	25.71	-----	-----	-----	-----	-----	-----	-----	-----	25.71

Continues on next page...

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
16.60	16.18	3.88	25.67	-----	-----	-----	-----	-----	-----	-----	-----	25.67
16.70	15.90	3.87	25.63	-----	-----	-----	-----	-----	-----	-----	-----	25.63
16.80	15.66	3.86	25.58	-----	-----	-----	-----	-----	-----	-----	-----	25.58
16.90	15.44	3.85	25.53	-----	-----	-----	-----	-----	-----	-----	-----	25.53
17.00	15.24	3.84	25.49	-----	-----	-----	-----	-----	-----	-----	-----	25.49
17.10	15.06	3.83	25.44	-----	-----	-----	-----	-----	-----	-----	-----	25.44
17.20	14.88	3.82	25.39	-----	-----	-----	-----	-----	-----	-----	-----	25.39
17.30	14.71	3.81	25.34	-----	-----	-----	-----	-----	-----	-----	-----	25.34
17.40	14.54	3.80	25.29	-----	-----	-----	-----	-----	-----	-----	-----	25.29
17.50	14.37	3.78	25.24	-----	-----	-----	-----	-----	-----	-----	-----	25.24
17.60	14.20	3.77	25.19	-----	-----	-----	-----	-----	-----	-----	-----	25.19
17.70	14.03	3.76	25.14	-----	-----	-----	-----	-----	-----	-----	-----	25.14
17.80	13.85	3.75	25.08	-----	-----	-----	-----	-----	-----	-----	-----	25.08
17.90	13.68	3.74	25.03	-----	-----	-----	-----	-----	-----	-----	-----	25.03
18.00	13.51	3.73	24.98	-----	-----	-----	-----	-----	-----	-----	-----	24.98
18.10	13.34	3.71	24.92	-----	-----	-----	-----	-----	-----	-----	-----	24.92
18.20	13.17	3.70	24.87	-----	-----	-----	-----	-----	-----	-----	-----	24.87
18.30	12.99	3.69	24.81	-----	-----	-----	-----	-----	-----	-----	-----	24.81
18.40	12.82	3.68	24.75	-----	-----	-----	-----	-----	-----	-----	-----	24.75
18.50	12.65	3.67	24.69	-----	-----	-----	-----	-----	-----	-----	-----	24.69
18.60	12.48	3.65	24.64	-----	-----	-----	-----	-----	-----	-----	-----	24.64
18.70	12.31	3.64	24.58	-----	-----	-----	-----	-----	-----	-----	-----	24.58
18.80	12.13	3.63	24.52	-----	-----	-----	-----	-----	-----	-----	-----	24.52
18.90	11.96	3.61	24.46	-----	-----	-----	-----	-----	-----	-----	-----	24.46
19.00	11.79	3.60	24.40	-----	-----	-----	-----	-----	-----	-----	-----	24.40
19.10	11.61	3.59	24.33	-----	-----	-----	-----	-----	-----	-----	-----	24.33
19.20	11.44	3.58	24.27	-----	-----	-----	-----	-----	-----	-----	-----	24.27
19.30	11.27	3.56	24.21	-----	-----	-----	-----	-----	-----	-----	-----	24.21
19.40	11.09	3.55	24.14	-----	-----	-----	-----	-----	-----	-----	-----	24.14
19.50	10.92	3.53	24.08	-----	-----	-----	-----	-----	-----	-----	-----	24.08
19.60	10.75	3.52	24.01	-----	-----	-----	-----	-----	-----	-----	-----	24.01
19.70	10.57	3.51	23.95	-----	-----	-----	-----	-----	-----	-----	-----	23.95
19.80	10.40	3.49	23.88	-----	-----	-----	-----	-----	-----	-----	-----	23.88
19.90	10.23	3.48	23.81	-----	-----	-----	-----	-----	-----	-----	-----	23.81
20.00	10.05	3.46	23.74	-----	-----	-----	-----	-----	-----	-----	-----	23.74
20.10	9.88	3.45	23.67	-----	-----	-----	-----	-----	-----	-----	-----	23.67
20.20	9.72	3.44	23.60	-----	-----	-----	-----	-----	-----	-----	-----	23.60

...End

Reservoir Report

Hydraflow Hydrographs by Intelisolve

Reservoir No. 4 - Jabara pond

Pond Data

Bottom LxW = 559.0 x 559.0 ft Side slope = 4.0:1 Bottom elev. = 0.00 ft Depth = 4.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	0.00	312,481	0.000	0.000
0.20	0.20	314,272	1.439	1.439
0.40	0.40	316,069	1.447	2.886
0.60	0.60	317,870	1.455	4.341
0.80	0.80	319,677	1.464	5.805
1.00	1.00	321,489	1.472	7.277
1.20	1.20	323,306	1.480	8.757
1.40	1.40	325,128	1.489	10.246
1.60	1.60	326,955	1.497	11.743
1.80	1.80	328,788	1.505	13.248
2.00	2.00	330,625	1.514	14.762
2.20	2.20	332,468	1.522	16.284
2.40	2.40	334,315	1.531	17.815
2.60	2.60	336,168	1.539	19.354
2.80	2.80	338,026	1.548	20.902
3.00	3.00	339,889	1.556	22.458
3.20	3.20	341,757	1.565	24.023
3.40	3.40	343,631	1.573	25.596
3.60	3.60	345,509	1.582	27.178
3.80	3.80	347,392	1.591	28.769
4.00	4.00	349,281	1.599	30.368

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 24.0	0.0	0.0	0.0
Span in	= 24.0	0.0	0.0	0.0
No. Barrels	= 1	0	0	0
Invert El. ft	= 0.00	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 0.00	0.00	0.00	0.00
Crest El. ft	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	0.00	0.00	---	---	---	---	---	---	---	---	0.00
0.02	0.144	0.02	0.00	---	---	---	---	---	---	---	---	0.00
0.04	0.288	0.04	0.01	---	---	---	---	---	---	---	---	0.01
0.06	0.432	0.06	0.02	---	---	---	---	---	---	---	---	0.02
0.08	0.576	0.08	0.05	---	---	---	---	---	---	---	---	0.05
0.10	0.719	0.10	0.07	---	---	---	---	---	---	---	---	0.07
0.12	0.863	0.12	0.10	---	---	---	---	---	---	---	---	0.10
0.14	1.007	0.14	0.13	---	---	---	---	---	---	---	---	0.13
0.16	1.151	0.16	0.17	---	---	---	---	---	---	---	---	0.17
0.18	1.295	0.18	0.22	---	---	---	---	---	---	---	---	0.22
0.20	1.439	0.20	0.28	---	---	---	---	---	---	---	---	0.28
0.22	1.584	0.22	0.34	---	---	---	---	---	---	---	---	0.34
0.24	1.728	0.24	0.41	---	---	---	---	---	---	---	---	0.41
0.26	1.873	0.26	0.43	---	---	---	---	---	---	---	---	0.43
0.28	2.018	0.28	0.51	---	---	---	---	---	---	---	---	0.51
0.30	2.162	0.30	0.61	---	---	---	---	---	---	---	---	0.61
0.32	2.307	0.32	0.63	---	---	---	---	---	---	---	---	0.63

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Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.34	2.452	0.34	0.73	---	---	---	---	---	---	---	---	0.73
0.36	2.596	0.36	0.85	---	---	---	---	---	---	---	---	0.85
0.38	2.741	0.38	0.88	---	---	---	---	---	---	---	---	0.88
0.40	2.886	0.40	1.01	---	---	---	---	---	---	---	---	1.01
0.42	3.031	0.42	1.15	---	---	---	---	---	---	---	---	1.15
0.44	3.177	0.44	1.17	---	---	---	---	---	---	---	---	1.17
0.46	3.322	0.46	1.33	---	---	---	---	---	---	---	---	1.33
0.48	3.468	0.48	1.50	---	---	---	---	---	---	---	---	1.50
0.50	3.614	0.50	1.53	---	---	---	---	---	---	---	---	1.53
0.52	3.759	0.52	1.71	---	---	---	---	---	---	---	---	1.71
0.54	3.905	0.54	1.74	---	---	---	---	---	---	---	---	1.74
0.56	4.050	0.56	1.93	---	---	---	---	---	---	---	---	1.93
0.58	4.196	0.58	1.97	---	---	---	---	---	---	---	---	1.97
0.60	4.341	0.60	2.17	---	---	---	---	---	---	---	---	2.17
0.62	4.488	0.62	2.39	---	---	---	---	---	---	---	---	2.39
0.64	4.634	0.64	2.43	---	---	---	---	---	---	---	---	2.43
0.66	4.780	0.66	2.66	---	---	---	---	---	---	---	---	2.66
0.68	4.927	0.68	2.70	---	---	---	---	---	---	---	---	2.70
0.70	5.073	0.70	2.95	---	---	---	---	---	---	---	---	2.95
0.72	5.219	0.72	2.99	---	---	---	---	---	---	---	---	2.99
0.74	5.366	0.74	3.25	---	---	---	---	---	---	---	---	3.25
0.76	5.512	0.76	3.29	---	---	---	---	---	---	---	---	3.29
0.78	5.658	0.78	3.56	---	---	---	---	---	---	---	---	3.56
0.80	5.805	0.80	3.60	---	---	---	---	---	---	---	---	3.60
0.82	5.952	0.82	3.88	---	---	---	---	---	---	---	---	3.88
0.84	6.099	0.84	3.93	---	---	---	---	---	---	---	---	3.93
0.86	6.246	0.86	4.22	---	---	---	---	---	---	---	---	4.22
0.88	6.394	0.88	4.27	---	---	---	---	---	---	---	---	4.27
0.90	6.541	0.90	4.57	---	---	---	---	---	---	---	---	4.57
0.92	6.688	0.92	4.62	---	---	---	---	---	---	---	---	4.62
0.94	6.835	0.94	4.93	---	---	---	---	---	---	---	---	4.93
0.96	6.982	0.96	4.98	---	---	---	---	---	---	---	---	4.98
0.98	7.130	0.98	5.29	---	---	---	---	---	---	---	---	5.29
1.00	7.277	1.00	5.62	---	---	---	---	---	---	---	---	5.62
1.02	7.425	1.02	5.67	---	---	---	---	---	---	---	---	5.67
1.04	7.573	1.04	6.00	---	---	---	---	---	---	---	---	6.00
1.06	7.721	1.06	6.06	---	---	---	---	---	---	---	---	6.06
1.08	7.869	1.08	6.39	---	---	---	---	---	---	---	---	6.39
1.10	8.017	1.10	6.45	---	---	---	---	---	---	---	---	6.45
1.12	8.165	1.12	6.78	---	---	---	---	---	---	---	---	6.78
1.14	8.313	1.14	6.84	---	---	---	---	---	---	---	---	6.84
1.16	8.461	1.16	7.18	---	---	---	---	---	---	---	---	7.18
1.18	8.609	1.18	7.24	---	---	---	---	---	---	---	---	7.24
1.20	8.757	1.20	7.58	---	---	---	---	---	---	---	---	7.58
1.22	8.906	1.22	7.65	---	---	---	---	---	---	---	---	7.65
1.24	9.055	1.24	7.99	---	---	---	---	---	---	---	---	7.99
1.26	9.204	1.26	8.05	---	---	---	---	---	---	---	---	8.05
1.28	9.352	1.28	8.39	---	---	---	---	---	---	---	---	8.39
1.30	9.501	1.30	8.46	---	---	---	---	---	---	---	---	8.46
1.32	9.650	1.32	8.80	---	---	---	---	---	---	---	---	8.80
1.34	9.799	1.34	8.86	---	---	---	---	---	---	---	---	8.86
1.36	9.948	1.36	9.20	---	---	---	---	---	---	---	---	9.20
1.38	10.097	1.38	9.27	---	---	---	---	---	---	---	---	9.27
1.40	10.246	1.40	9.60	---	---	---	---	---	---	---	---	9.60
1.42	10.395	1.42	9.93	---	---	---	---	---	---	---	---	9.93
1.44	10.545	1.44	10.00	---	---	---	---	---	---	---	---	10.00
1.46	10.695	1.46	10.32	---	---	---	---	---	---	---	---	10.32
1.48	10.844	1.48	10.39	---	---	---	---	---	---	---	---	10.39
1.50	10.994	1.50	10.70	---	---	---	---	---	---	---	---	10.70
1.52	11.144	1.52	10.77	---	---	---	---	---	---	---	---	10.77
1.54	11.293	1.54	11.08	---	---	---	---	---	---	---	---	11.08
1.56	11.443	1.56	11.37	---	---	---	---	---	---	---	---	11.37
1.58	11.593	1.58	11.45	---	---	---	---	---	---	---	---	11.45
1.60	11.743	1.60	11.73	---	---	---	---	---	---	---	---	11.73
1.62	11.893	1.62	12.01	---	---	---	---	---	---	---	---	12.01
1.64	12.044	1.64	12.08	---	---	---	---	---	---	---	---	12.08
1.66	12.194	1.66	12.35	---	---	---	---	---	---	---	---	12.35
1.68	12.345	1.68	12.60	---	---	---	---	---	---	---	---	12.60
1.70	12.495	1.70	12.68	---	---	---	---	---	---	---	---	12.68
1.72	12.646	1.72	12.92	---	---	---	---	---	---	---	---	12.92

Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
1.74	12.796	1.74	13.15	---	---	---	---	---	---	---	---	13.15
1.76	12.947	1.76	13.23	---	---	---	---	---	---	---	---	13.23
1.78	13.097	1.78	13.45	---	---	---	---	---	---	---	---	13.45
1.80	13.248	1.80	13.65	---	---	---	---	---	---	---	---	13.65
1.82	13.399	1.82	13.85	---	---	---	---	---	---	---	---	13.85
1.84	13.551	1.84	14.03	---	---	---	---	---	---	---	---	14.03
1.86	13.702	1.86	14.20	---	---	---	---	---	---	---	---	14.20
1.88	13.853	1.88	14.35	---	---	---	---	---	---	---	---	14.35
1.90	14.005	1.90	14.50	---	---	---	---	---	---	---	---	14.50
1.92	14.156	1.92	14.64	---	---	---	---	---	---	---	---	14.64
1.94	14.308	1.94	14.80	---	---	---	---	---	---	---	---	14.80
1.96	14.459	1.96	14.91	---	---	---	---	---	---	---	---	14.91
1.98	14.610	1.98	15.03	---	---	---	---	---	---	---	---	15.03
2.00	14.762	2.00	15.12	---	---	---	---	---	---	---	---	15.12
2.02	14.914	2.02	15.28	---	---	---	---	---	---	---	---	15.28
2.04	15.066	2.04	15.42	---	---	---	---	---	---	---	---	15.42
2.06	15.218	2.06	15.57	---	---	---	---	---	---	---	---	15.57
2.08	15.371	2.08	15.72	---	---	---	---	---	---	---	---	15.72
2.10	15.523	2.10	15.86	---	---	---	---	---	---	---	---	15.86
2.12	15.675	2.12	16.01	---	---	---	---	---	---	---	---	16.01
2.14	15.827	2.14	16.15	---	---	---	---	---	---	---	---	16.15
2.16	15.980	2.16	16.29	---	---	---	---	---	---	---	---	16.29
2.18	16.132	2.18	16.43	---	---	---	---	---	---	---	---	16.43
2.20	16.284	2.20	16.57	---	---	---	---	---	---	---	---	16.57
2.22	16.437	2.22	16.71	---	---	---	---	---	---	---	---	16.71
2.24	16.590	2.24	16.84	---	---	---	---	---	---	---	---	16.84
2.26	16.743	2.26	16.98	---	---	---	---	---	---	---	---	16.98
2.28	16.896	2.28	17.11	---	---	---	---	---	---	---	---	17.11
2.30	17.049	2.30	17.24	---	---	---	---	---	---	---	---	17.24
2.32	17.202	2.32	17.38	---	---	---	---	---	---	---	---	17.38
2.34	17.355	2.34	17.51	---	---	---	---	---	---	---	---	17.51
2.36	17.509	2.36	17.64	---	---	---	---	---	---	---	---	17.64
2.38	17.662	2.38	17.77	---	---	---	---	---	---	---	---	17.77
2.40	17.815	2.40	17.90	---	---	---	---	---	---	---	---	17.90
2.42	17.969	2.42	18.02	---	---	---	---	---	---	---	---	18.02
2.44	18.123	2.44	18.15	---	---	---	---	---	---	---	---	18.15
2.46	18.276	2.46	18.28	---	---	---	---	---	---	---	---	18.28
2.48	18.430	2.48	18.40	---	---	---	---	---	---	---	---	18.40
2.50	18.584	2.50	18.52	---	---	---	---	---	---	---	---	18.52
2.52	18.738	2.52	18.65	---	---	---	---	---	---	---	---	18.65
2.54	18.892	2.54	18.77	---	---	---	---	---	---	---	---	18.77
2.56	19.046	2.56	18.89	---	---	---	---	---	---	---	---	18.89
2.58	19.200	2.58	19.01	---	---	---	---	---	---	---	---	19.01
2.60	19.354	2.60	19.13	---	---	---	---	---	---	---	---	19.13
2.62	19.509	2.62	19.25	---	---	---	---	---	---	---	---	19.25
2.64	19.663	2.64	19.37	---	---	---	---	---	---	---	---	19.37
2.66	19.818	2.66	19.49	---	---	---	---	---	---	---	---	19.49
2.68	19.973	2.68	19.60	---	---	---	---	---	---	---	---	19.60
2.70	20.128	2.70	19.72	---	---	---	---	---	---	---	---	19.72
2.72	20.283	2.72	19.84	---	---	---	---	---	---	---	---	19.84
2.74	20.437	2.74	19.95	---	---	---	---	---	---	---	---	19.95
2.76	20.592	2.76	20.07	---	---	---	---	---	---	---	---	20.07
2.78	20.747	2.78	20.18	---	---	---	---	---	---	---	---	20.18
2.80	20.902	2.80	20.29	---	---	---	---	---	---	---	---	20.29
2.82	21.057	2.82	20.40	---	---	---	---	---	---	---	---	20.40
2.84	21.213	2.84	20.52	---	---	---	---	---	---	---	---	20.52
2.86	21.369	2.86	20.63	---	---	---	---	---	---	---	---	20.63
2.88	21.524	2.88	20.74	---	---	---	---	---	---	---	---	20.74
2.90	21.680	2.90	20.85	---	---	---	---	---	---	---	---	20.85
2.92	21.835	2.92	20.96	---	---	---	---	---	---	---	---	20.96
2.94	21.991	2.94	21.07	---	---	---	---	---	---	---	---	21.07
2.96	22.147	2.96	21.17	---	---	---	---	---	---	---	---	21.17
2.98	22.302	2.98	21.28	---	---	---	---	---	---	---	---	21.28
3.00	22.458	3.00	21.39	---	---	---	---	---	---	---	---	21.39
3.02	22.614	3.02	21.50	---	---	---	---	---	---	---	---	21.50
3.04	22.771	3.04	21.60	---	---	---	---	---	---	---	---	21.60
3.06	22.927	3.06	21.71	---	---	---	---	---	---	---	---	21.71
3.08	23.084	3.08	21.81	---	---	---	---	---	---	---	---	21.81
3.10	23.240	3.10	21.92	---	---	---	---	---	---	---	---	21.92
3.12	23.397	3.12	22.02	---	---	---	---	---	---	---	---	22.02

Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
3.14	23.553	3.14	22.13	---	---	---	---	---	---	---	---	22.13
3.16	23.710	3.16	22.23	---	---	---	---	---	---	---	---	22.23
3.18	23.866	3.18	22.33	---	---	---	---	---	---	---	---	22.33
3.20	24.023	3.20	22.43	---	---	---	---	---	---	---	---	22.43
3.22	24.180	3.22	22.54	---	---	---	---	---	---	---	---	22.54
3.24	24.337	3.24	22.64	---	---	---	---	---	---	---	---	22.64
3.26	24.495	3.26	22.74	---	---	---	---	---	---	---	---	22.74
3.28	24.652	3.28	22.84	---	---	---	---	---	---	---	---	22.84
3.30	24.809	3.30	22.94	---	---	---	---	---	---	---	---	22.94
3.32	24.967	3.32	23.04	---	---	---	---	---	---	---	---	23.04
3.34	25.124	3.34	23.14	---	---	---	---	---	---	---	---	23.14
3.36	25.282	3.36	23.24	---	---	---	---	---	---	---	---	23.24
3.38	25.439	3.38	23.33	---	---	---	---	---	---	---	---	23.33
3.40	25.596	3.40	23.43	---	---	---	---	---	---	---	---	23.43
3.42	25.754	3.42	23.53	---	---	---	---	---	---	---	---	23.53
3.44	25.913	3.44	23.63	---	---	---	---	---	---	---	---	23.63
3.46	26.071	3.46	23.72	---	---	---	---	---	---	---	---	23.72
3.48	26.229	3.48	23.82	---	---	---	---	---	---	---	---	23.82
3.50	26.387	3.50	23.91	---	---	---	---	---	---	---	---	23.91
3.52	26.545	3.52	24.01	---	---	---	---	---	---	---	---	24.01
3.54	26.704	3.54	24.10	---	---	---	---	---	---	---	---	24.10
3.56	26.862	3.56	24.20	---	---	---	---	---	---	---	---	24.20
3.58	27.020	3.58	24.29	---	---	---	---	---	---	---	---	24.29
3.60	27.178	3.60	24.39	---	---	---	---	---	---	---	---	24.39
3.62	27.337	3.62	24.48	---	---	---	---	---	---	---	---	24.48
3.64	27.496	3.64	24.57	---	---	---	---	---	---	---	---	24.57
3.66	27.655	3.66	24.67	---	---	---	---	---	---	---	---	24.67
3.68	27.815	3.68	24.76	---	---	---	---	---	---	---	---	24.76
3.70	27.974	3.70	24.85	---	---	---	---	---	---	---	---	24.85
3.72	28.133	3.72	24.94	---	---	---	---	---	---	---	---	24.94
3.74	28.292	3.74	25.04	---	---	---	---	---	---	---	---	25.04
3.76	28.451	3.76	25.13	---	---	---	---	---	---	---	---	25.13
3.78	28.610	3.78	25.22	---	---	---	---	---	---	---	---	25.22
3.80	28.769	3.80	25.31	---	---	---	---	---	---	---	---	25.31
3.82	28.929	3.82	25.40	---	---	---	---	---	---	---	---	25.40
3.84	29.089	3.84	25.49	---	---	---	---	---	---	---	---	25.49
3.86	29.249	3.86	25.58	---	---	---	---	---	---	---	---	25.58
3.88	29.409	3.88	25.67	---	---	---	---	---	---	---	---	25.67
3.90	29.569	3.90	25.76	---	---	---	---	---	---	---	---	25.76
3.92	29.729	3.92	25.85	---	---	---	---	---	---	---	---	25.85
3.94	29.888	3.94	25.93	---	---	---	---	---	---	---	---	25.93
3.96	30.048	3.96	26.02	---	---	---	---	---	---	---	---	26.02
3.98	30.208	3.98	26.11	---	---	---	---	---	---	---	---	26.11
4.00	30.368	4.00	26.20	---	---	---	---	---	---	---	---	26.20

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 3

West Soccer Fld

Hydrograph type	= SCS Runoff	Peak discharge	= 30.76 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 7.60 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 36.9 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 3.552 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.20	30.76 <<
12.30	30.47

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 4

West Soccer Detention

Hydrograph type	= Reservoir	Peak discharge	= 2.75 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 3	Reservoir name	= West Soccer Deten
Max. Elevation	= 196.62 ft	Max. Storage	= 1.983 acft

Storage Indication method used.

Outflow hydrograph volume = 3.552 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.40	26.96	196.13	2.49	-----	-----	-----	-----	-----	-----	-----	-----	2.49
12.50	23.06	196.26	2.57	-----	-----	-----	-----	-----	-----	-----	-----	2.57
12.60	18.85	196.37	2.62	-----	-----	-----	-----	-----	-----	-----	-----	2.62
12.70	14.53	196.45	2.67	-----	-----	-----	-----	-----	-----	-----	-----	2.67
12.80	10.45	196.51	2.70	-----	-----	-----	-----	-----	-----	-----	-----	2.70
12.90	7.08	196.55	2.72	-----	-----	-----	-----	-----	-----	-----	-----	2.72
13.00	5.34	196.57	2.73	-----	-----	-----	-----	-----	-----	-----	-----	2.73
13.10	4.76	196.58	2.73	-----	-----	-----	-----	-----	-----	-----	-----	2.73
13.20	4.29	196.59	2.74	-----	-----	-----	-----	-----	-----	-----	-----	2.74
13.30	3.92	196.60	2.74	-----	-----	-----	-----	-----	-----	-----	-----	2.74
13.40	3.64	196.61	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
13.50	3.41	196.61	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
13.60	3.22	196.61	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
13.70	3.04	196.62	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
13.80	2.88	196.62	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
13.90	2.74	196.62 <<	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75 <<
14.00	2.61	196.62	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
14.10	2.48	196.62	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
14.20	2.37	196.61	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
14.30	2.27	196.61	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
14.40	2.18	196.61	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
14.50	2.11	196.60	2.75	-----	-----	-----	-----	-----	-----	-----	-----	2.75
14.60	2.05	196.60	2.74	-----	-----	-----	-----	-----	-----	-----	-----	2.74
14.70	2.00	196.60	2.74	-----	-----	-----	-----	-----	-----	-----	-----	2.74
14.80	1.95	196.59	2.74	-----	-----	-----	-----	-----	-----	-----	-----	2.74
14.90	1.91	196.59	2.74	-----	-----	-----	-----	-----	-----	-----	-----	2.74
15.00	1.87	196.58	2.73	-----	-----	-----	-----	-----	-----	-----	-----	2.73
15.10	1.83	196.58	2.73	-----	-----	-----	-----	-----	-----	-----	-----	2.73
15.20	1.79	196.57	2.73	-----	-----	-----	-----	-----	-----	-----	-----	2.73
15.30	1.75	196.57	2.73	-----	-----	-----	-----	-----	-----	-----	-----	2.73
15.40	1.71	196.56	2.72	-----	-----	-----	-----	-----	-----	-----	-----	2.72
15.50	1.68	196.55	2.72	-----	-----	-----	-----	-----	-----	-----	-----	2.72
15.60	1.64	196.55	2.72	-----	-----	-----	-----	-----	-----	-----	-----	2.72
15.70	1.60	196.54	2.71	-----	-----	-----	-----	-----	-----	-----	-----	2.71
15.80	1.56	196.53	2.71	-----	-----	-----	-----	-----	-----	-----	-----	2.71
15.90	1.52	196.53	2.71	-----	-----	-----	-----	-----	-----	-----	-----	2.71
16.00	1.48	196.52	2.70	-----	-----	-----	-----	-----	-----	-----	-----	2.70
16.10	1.44	196.51	2.70	-----	-----	-----	-----	-----	-----	-----	-----	2.70

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Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
16.20	1.41	196.51	2.70	-----	-----	-----	-----	-----	-----	-----	-----	2.70
16.30	1.37	196.50	2.69	-----	-----	-----	-----	-----	-----	-----	-----	2.69
16.40	1.34	196.49	2.69	-----	-----	-----	-----	-----	-----	-----	-----	2.69
16.50	1.32	196.48	2.68	-----	-----	-----	-----	-----	-----	-----	-----	2.68
16.60	1.29	196.47	2.68	-----	-----	-----	-----	-----	-----	-----	-----	2.68
16.70	1.28	196.47	2.67	-----	-----	-----	-----	-----	-----	-----	-----	2.67
16.80	1.26	196.46	2.67	-----	-----	-----	-----	-----	-----	-----	-----	2.67
16.90	1.24	196.45	2.67	-----	-----	-----	-----	-----	-----	-----	-----	2.67
17.00	1.23	196.44	2.66	-----	-----	-----	-----	-----	-----	-----	-----	2.66
17.10	1.22	196.43	2.66	-----	-----	-----	-----	-----	-----	-----	-----	2.66
17.20	1.20	196.42	2.65	-----	-----	-----	-----	-----	-----	-----	-----	2.65
17.30	1.19	196.42	2.65	-----	-----	-----	-----	-----	-----	-----	-----	2.65
17.40	1.17	196.41	2.64	-----	-----	-----	-----	-----	-----	-----	-----	2.64
17.50	1.16	196.40	2.64	-----	-----	-----	-----	-----	-----	-----	-----	2.64
17.60	1.15	196.39	2.63	-----	-----	-----	-----	-----	-----	-----	-----	2.63
17.70	1.13	196.38	2.63	-----	-----	-----	-----	-----	-----	-----	-----	2.63
17.80	1.12	196.37	2.62	-----	-----	-----	-----	-----	-----	-----	-----	2.62
17.90	1.10	196.36	2.62	-----	-----	-----	-----	-----	-----	-----	-----	2.62
18.00	1.09	196.35	2.61	-----	-----	-----	-----	-----	-----	-----	-----	2.61
18.10	1.08	196.35	2.61	-----	-----	-----	-----	-----	-----	-----	-----	2.61
18.20	1.06	196.34	2.61	-----	-----	-----	-----	-----	-----	-----	-----	2.61
18.30	1.05	196.33	2.60	-----	-----	-----	-----	-----	-----	-----	-----	2.60
18.40	1.03	196.32	2.60	-----	-----	-----	-----	-----	-----	-----	-----	2.60
18.50	1.02	196.31	2.59	-----	-----	-----	-----	-----	-----	-----	-----	2.59
18.60	1.01	196.30	2.59	-----	-----	-----	-----	-----	-----	-----	-----	2.59
18.70	0.99	196.29	2.58	-----	-----	-----	-----	-----	-----	-----	-----	2.58
18.80	0.98	196.28	2.58	-----	-----	-----	-----	-----	-----	-----	-----	2.58
18.90	0.96	196.27	2.57	-----	-----	-----	-----	-----	-----	-----	-----	2.57
19.00	0.95	196.26	2.56	-----	-----	-----	-----	-----	-----	-----	-----	2.56
19.10	0.94	196.25	2.56	-----	-----	-----	-----	-----	-----	-----	-----	2.56
19.20	0.92	196.24	2.55	-----	-----	-----	-----	-----	-----	-----	-----	2.55
19.30	0.91	196.23	2.55	-----	-----	-----	-----	-----	-----	-----	-----	2.55
19.40	0.89	196.22	2.54	-----	-----	-----	-----	-----	-----	-----	-----	2.54
19.50	0.88	196.21	2.54	-----	-----	-----	-----	-----	-----	-----	-----	2.54
19.60	0.87	196.21	2.53	-----	-----	-----	-----	-----	-----	-----	-----	2.53
19.70	0.85	196.20	2.53	-----	-----	-----	-----	-----	-----	-----	-----	2.53
19.80	0.84	196.19	2.52	-----	-----	-----	-----	-----	-----	-----	-----	2.52
19.90	0.82	196.18	2.52	-----	-----	-----	-----	-----	-----	-----	-----	2.52
20.00	0.81	196.17	2.51	-----	-----	-----	-----	-----	-----	-----	-----	2.51
20.10	0.79	196.16	2.51	-----	-----	-----	-----	-----	-----	-----	-----	2.51
20.20	0.78	196.15	2.50	-----	-----	-----	-----	-----	-----	-----	-----	2.50
20.30	0.77	196.14	2.49	-----	-----	-----	-----	-----	-----	-----	-----	2.49
20.40	0.76	196.13	2.49	-----	-----	-----	-----	-----	-----	-----	-----	2.49
20.50	0.75	196.12	2.48	-----	-----	-----	-----	-----	-----	-----	-----	2.48

...End

Reservoir Report

Reservoir No. 6 - West Soccer Detention

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	193.60	00	0.000	0.000
0.40	194.00	12,187	0.056	0.056
1.40	195.00	19,588	0.365	0.421
2.40	196.00	40,712	0.692	1.113
3.40	197.00	82,202	1.411	2.524

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 8.0	0.0	0.0	0.0
Span in	= 8.0	0.0	0.0	0.0
No. Barrels	= 1	0	0	0
Invert El. ft	= 193.60	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 0.00	0.00	0.00	0.00
Crest El. ft	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	193.60	0.00	---	---	---	---	---	---	---	---	0.00
0.04	0.006	193.64	0.01	---	---	---	---	---	---	---	---	0.01
0.08	0.011	193.68	0.03	---	---	---	---	---	---	---	---	0.03
0.12	0.017	193.72	0.05	---	---	---	---	---	---	---	---	0.05
0.16	0.022	193.76	0.10	---	---	---	---	---	---	---	---	0.10
0.20	0.028	193.80	0.14	---	---	---	---	---	---	---	---	0.14
0.24	0.034	193.84	0.19	---	---	---	---	---	---	---	---	0.19
0.28	0.039	193.88	0.25	---	---	---	---	---	---	---	---	0.25
0.32	0.045	193.92	0.32	---	---	---	---	---	---	---	---	0.32
0.36	0.050	193.96	0.41	---	---	---	---	---	---	---	---	0.41
0.40	0.056	194.00	0.49	---	---	---	---	---	---	---	---	0.49
0.50	0.092	194.10	0.69	---	---	---	---	---	---	---	---	0.69
0.60	0.129	194.20	0.88	---	---	---	---	---	---	---	---	0.88
0.70	0.165	194.30	1.02	---	---	---	---	---	---	---	---	1.02
0.80	0.202	194.40	1.15	---	---	---	---	---	---	---	---	1.15
0.90	0.238	194.50	1.27	---	---	---	---	---	---	---	---	1.27
1.00	0.275	194.60	1.37	---	---	---	---	---	---	---	---	1.37
1.10	0.311	194.70	1.47	---	---	---	---	---	---	---	---	1.47
1.20	0.348	194.80	1.56	---	---	---	---	---	---	---	---	1.56
1.30	0.384	194.90	1.65	---	---	---	---	---	---	---	---	1.65
1.40	0.421	195.00	1.74	---	---	---	---	---	---	---	---	1.74
1.50	0.490	195.10	1.82	---	---	---	---	---	---	---	---	1.82
1.60	0.559	195.20	1.89	---	---	---	---	---	---	---	---	1.89
1.70	0.628	195.30	1.96	---	---	---	---	---	---	---	---	1.96
1.80	0.698	195.40	2.04	---	---	---	---	---	---	---	---	2.04
1.90	0.767	195.50	2.10	---	---	---	---	---	---	---	---	2.10
2.00	0.836	195.60	2.17	---	---	---	---	---	---	---	---	2.17
2.10	0.905	195.70	2.23	---	---	---	---	---	---	---	---	2.23
2.20	0.974	195.80	2.30	---	---	---	---	---	---	---	---	2.30
2.30	1.044	195.90	2.36	---	---	---	---	---	---	---	---	2.36
2.40	1.113	196.00	2.42	---	---	---	---	---	---	---	---	2.42
2.50	1.254	196.10	2.47	---	---	---	---	---	---	---	---	2.47
2.60	1.395	196.20	2.53	---	---	---	---	---	---	---	---	2.53

Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
2.70	1.536	196.30	2.59	---	---	---	---	---	---	---	---	2.59
2.80	1.677	196.40	2.64	---	---	---	---	---	---	---	---	2.64
2.90	1.818	196.50	2.69	---	---	---	---	---	---	---	---	2.69
3.00	1.959	196.60	2.74	---	---	---	---	---	---	---	---	2.74
3.10	2.100	196.70	2.80	---	---	---	---	---	---	---	---	2.80
3.20	2.242	196.80	2.85	---	---	---	---	---	---	---	---	2.85
3.30	2.383	196.90	2.89	---	---	---	---	---	---	---	---	2.89
3.40	2.524	197.00	2.94	---	---	---	---	---	---	---	---	2.94

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 5

West Regency Park

Hydrograph type	= SCS Runoff	Peak discharge	= 123.23 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 21.00 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 22 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 12.187 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.10	123.23 <<
12.20	117.36

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 6

Flow to Beauty Pond

Hydrograph type	= Combine	Peak discharge	= 134.15 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyds.	= 2, 4, 5		

Hydrograph Volume = 60.796 acft

Hydrograph Discharge Table

Time (hrs)	Hyd. 2 + (cfs)	Hyd. 4 + (cfs)	Hyd. 5 = (cfs)	Outflow (cfs)
12.10	8.96	1.96	123.23 <<	134.15 <<
12.20	12.27	2.18	117.36	131.81

...End

Hydrograph Report

Hyd. No. 7

Beauty 1st Pond

Hydrograph type	= Reservoir	Peak discharge	= 110.75 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 6	Reservoir name	= Beauty First Pond
Max. Elevation	= 186.88 ft	Max. Storage	= 3.051 acft

Storage Indication method used.

Outflow hydrograph volume = 60.791 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.20	131.81	186.75	-----	-----	-----	-----	-----	-----	-----	-----	-----	100.81
12.30	111.34	186.88 <<	-----	-----	-----	-----	-----	-----	-----	-----	-----	110.75 <<
12.40	89.82	186.82	-----	-----	-----	-----	-----	-----	-----	-----	-----	105.88

...End

Reservoir Report

Reservoir No. 5 - Beauty First Pond

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	182.90	21,420	0.000	0.000
0.10	183.00	21,952	0.050	0.050
1.10	184.00	27,386	0.566	0.616
2.10	185.00	34,000	0.705	1.321
2.80	185.70	38,700	0.584	1.905
3.10	186.00	40,712	0.273	2.178
4.10	187.00	45,712	0.992	3.170

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 36.0	0.0	0.0	0.0
Span in	= 84.0	0.0	0.0	0.0
No. Barrels	= 1	0	0	0
Invert El. ft	= 182.90	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 10.00	0.00	0.00	0.00
Crest El. ft	= 185.80	0.00	0.00	0.00
Weir Coeff.	= 3.33	0.00	0.00	0.00
Weir Type	= Rect	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	182.90	0.00	---	---	---	0.00	---	---	---	---	0.00
0.01	0.005	182.91	0.00	---	---	---	0.00	---	---	---	---	0.09
0.02	0.010	182.92	0.00	---	---	---	0.00	---	---	---	---	0.18
0.03	0.015	182.93	0.00	---	---	---	0.00	---	---	---	---	0.26
0.04	0.020	182.94	0.00	---	---	---	0.00	---	---	---	---	0.35
0.05	0.025	182.95	0.00	---	---	---	0.00	---	---	---	---	0.44
0.06	0.030	182.96	0.00	---	---	---	0.00	---	---	---	---	0.53
0.07	0.035	182.97	0.00	---	---	---	0.00	---	---	---	---	0.62
0.08	0.040	182.98	0.00	---	---	---	0.00	---	---	---	---	0.70
0.09	0.045	182.99	0.00	---	---	---	0.00	---	---	---	---	0.79
0.10	0.050	183.00	0.00	---	---	---	0.00	---	---	---	---	0.88
0.20	0.106	183.10	0.00	---	---	---	0.00	---	---	---	---	1.76
0.30	0.163	183.20	0.00	---	---	---	0.00	---	---	---	---	2.64
0.40	0.220	183.30	0.00	---	---	---	0.00	---	---	---	---	3.52
0.50	0.276	183.40	0.00	---	---	---	0.00	---	---	---	---	4.40
0.60	0.333	183.50	0.00	---	---	---	0.00	---	---	---	---	5.29
0.70	0.390	183.60	0.00	---	---	---	0.00	---	---	---	---	6.17
0.80	0.446	183.70	0.00	---	---	---	0.00	---	---	---	---	7.05
0.90	0.503	183.80	0.00	---	---	---	0.00	---	---	---	---	7.93
1.00	0.559	183.90	0.00	---	---	---	0.00	---	---	---	---	8.81
1.10	0.616	184.00	0.00	---	---	---	0.00	---	---	---	---	9.69
1.20	0.687	184.10	0.00	---	---	---	0.00	---	---	---	---	10.57
1.30	0.757	184.20	0.00	---	---	---	0.00	---	---	---	---	11.45
1.40	0.827	184.30	0.00	---	---	---	0.00	---	---	---	---	12.33
1.50	0.898	184.40	0.00	---	---	---	0.00	---	---	---	---	13.21
1.60	0.968	184.50	0.00	---	---	---	0.00	---	---	---	---	14.10
1.70	1.039	184.60	0.00	---	---	---	0.00	---	---	---	---	14.98
1.80	1.109	184.70	0.00	---	---	---	0.00	---	---	---	---	15.86
1.90	1.180	184.80	0.00	---	---	---	0.00	---	---	---	---	16.74
2.00	1.250	184.90	0.00	---	---	---	0.00	---	---	---	---	17.62
2.10	1.321	185.00	0.00	---	---	---	0.00	---	---	---	---	18.50

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Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
2.17	1.379	185.07	0.00	---	---	---	0.00	---	---	---	---	19.58
2.24	1.438	185.14	0.00	---	---	---	0.00	---	---	---	---	20.66
2.31	1.496	185.21	0.00	---	---	---	0.00	---	---	---	---	21.74
2.38	1.554	185.28	0.00	---	---	---	0.00	---	---	---	---	22.82
2.45	1.613	185.35	0.00	---	---	---	0.00	---	---	---	---	23.90
2.52	1.671	185.42	0.00	---	---	---	0.00	---	---	---	---	24.98
2.59	1.730	185.49	0.00	---	---	---	0.00	---	---	---	---	26.06
2.66	1.788	185.56	0.00	---	---	---	0.00	---	---	---	---	27.14
2.73	1.846	185.63	0.00	---	---	---	0.00	---	---	---	---	28.22
2.80	1.905	185.70	0.00	---	---	---	0.00	---	---	---	---	29.30
2.83	1.932	185.73	0.00	---	---	---	0.00	---	---	---	---	30.80
2.86	1.960	185.76	0.00	---	---	---	0.00	---	---	---	---	32.30
2.89	1.987	185.79	0.00	---	---	---	0.00	---	---	---	---	33.80
2.92	2.014	185.82	0.00	---	---	---	0.00	---	---	---	---	35.30
2.95	2.042	185.85	0.00	---	---	---	0.00	---	---	---	---	36.80
2.98	2.069	185.88	0.00	---	---	---	0.00	---	---	---	---	38.29
3.01	2.096	185.91	0.00	---	---	---	0.00	---	---	---	---	39.79
3.04	2.124	185.94	0.00	---	---	---	0.00	---	---	---	---	41.29
3.07	2.151	185.97	0.00	---	---	---	0.00	---	---	---	---	42.79
3.10	2.178	186.00	0.00	---	---	---	0.00	---	---	---	---	44.29
3.20	2.278	186.10	0.00	---	---	---	0.00	---	---	---	---	51.84
3.30	2.377	186.20	0.00	---	---	---	0.00	---	---	---	---	59.39
3.40	2.476	186.30	0.00	---	---	---	0.00	---	---	---	---	66.95
3.50	2.575	186.40	0.00	---	---	---	0.00	---	---	---	---	74.50
3.60	2.674	186.50	0.00	---	---	---	0.00	---	---	---	---	82.05
3.70	2.774	186.60	0.00	---	---	---	0.00	---	---	---	---	89.60
3.80	2.873	186.70	0.00	---	---	---	0.00	---	---	---	---	97.15
3.90	2.972	186.80	0.00	---	---	---	0.00	---	---	---	---	104.71
4.00	3.071	186.90	0.00	---	---	---	0.00	---	---	---	---	112.26
4.10	3.170	187.00	0.00	---	---	---	0.00	---	---	---	---	119.81

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 8

K-96

Hydrograph type	= SCS Runoff	Peak discharge	= 56.29 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 8.50 ac	Curve number	= 86
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 18.1 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 4.076 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)	
12.00	56.29	<<

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 9

Flow to 6x3 RCB

Hydrograph type	= Combine	Peak discharge	= 132.33 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyds.	= 7, 8		

Hydrograph Volume = 64.867 acft

Hydrograph Discharge Table

Time (hrs)	Hyd. 7 + (cfs)	Hyd. 8 = (cfs)	Outflow (cfs)
12.10	71.28	50.52	121.80
12.20	100.81	31.52	132.33 <<
12.30	110.75 <<	15.99	126.74

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 10

K-96 Ditch

Hydrograph type	= Reservoir	Peak discharge	= 119.45 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 9	Reservoir name	= K-96 ROW 6x3
Max. Elevation	= 186.59 ft	Max. Storage	= 1.117 acft

Storage Indication method used.

Outflow hydrograph volume = 64.867 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.30	126.74	186.56	-----	-----	-----	-----	-----	-----	-----	-----	-----	117.96
12.40	114.83	186.59 <<	-----	-----	-----	-----	-----	-----	-----	-----	-----	119.45 <<
12.50	100.88	186.46	-----	-----	-----	-----	-----	-----	-----	-----	-----	113.46

...End

Reservoir Report

Hydraflow Hydrographs by Intelisolve

Reservoir No. 7 - K-96 ROW 6x3

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	182.70	00	0.000	0.000
0.81	183.51	4,275	0.040	0.040
1.28	183.98	7,035	0.061	0.101
1.68	184.38	10,503	0.081	0.181
2.05	184.75	13,880	0.104	0.285
2.62	185.32	17,947	0.208	0.493
2.94	185.64	19,732	0.138	0.631
3.25	185.95	21,462	0.147	0.778
3.55	186.25	22,955	0.153	0.931
3.84	186.54	24,362	0.158	1.089
4.10	186.80	25,624	0.149	1.238

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 0.0	0.0	0.0	0.0
Span in	= 0.0	0.0	0.0	0.0
No. Barrels	= 0	0	0	0
Invert El. ft	= 0.00	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .000	.000	.000	.000
Orif. Coeff.	= 0.00	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 0.00	0.00	0.00	0.00
Crest El. ft	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	182.70	---	---	---	---	---	---	---	---	---	0.00
0.08	0.004	182.78	---	---	---	---	---	---	---	---	---	1.30
0.16	0.008	182.86	---	---	---	---	---	---	---	---	---	2.60
0.24	0.012	182.94	---	---	---	---	---	---	---	---	---	3.90
0.32	0.016	183.02	---	---	---	---	---	---	---	---	---	5.20
0.41	0.020	183.11	---	---	---	---	---	---	---	---	---	6.50
0.49	0.024	183.19	---	---	---	---	---	---	---	---	---	7.80
0.57	0.028	183.27	---	---	---	---	---	---	---	---	---	9.10
0.65	0.032	183.35	---	---	---	---	---	---	---	---	---	10.40
0.73	0.036	183.43	---	---	---	---	---	---	---	---	---	11.70
0.81	0.040	183.51	---	---	---	---	---	---	---	---	---	13.00
0.86	0.046	183.56	---	---	---	---	---	---	---	---	---	14.30
0.90	0.052	183.60	---	---	---	---	---	---	---	---	---	15.60
0.95	0.058	183.65	---	---	---	---	---	---	---	---	---	16.90
1.00	0.064	183.70	---	---	---	---	---	---	---	---	---	18.20
1.05	0.070	183.75	---	---	---	---	---	---	---	---	---	19.50
1.09	0.076	183.79	---	---	---	---	---	---	---	---	---	20.80
1.14	0.082	183.84	---	---	---	---	---	---	---	---	---	22.10
1.19	0.089	183.89	---	---	---	---	---	---	---	---	---	23.40
1.23	0.095	183.93	---	---	---	---	---	---	---	---	---	24.70
1.28	0.101	183.98	---	---	---	---	---	---	---	---	---	26.00
1.32	0.109	184.02	---	---	---	---	---	---	---	---	---	27.30
1.36	0.117	184.06	---	---	---	---	---	---	---	---	---	28.60
1.40	0.125	184.10	---	---	---	---	---	---	---	---	---	29.90
1.44	0.133	184.14	---	---	---	---	---	---	---	---	---	31.20
1.48	0.141	184.18	---	---	---	---	---	---	---	---	---	32.50
1.52	0.149	184.22	---	---	---	---	---	---	---	---	---	33.80

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Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
1.56	0.157	184.26	---	---	---	---	---	---	---	---	---	35.10
1.60	0.165	184.30	---	---	---	---	---	---	---	---	---	36.40
1.64	0.173	184.34	---	---	---	---	---	---	---	---	---	37.70
1.68	0.181	184.38	---	---	---	---	---	---	---	---	---	39.00
1.72	0.192	184.42	---	---	---	---	---	---	---	---	---	40.30
1.75	0.202	184.45	---	---	---	---	---	---	---	---	---	41.60
1.79	0.212	184.49	---	---	---	---	---	---	---	---	---	42.90
1.83	0.223	184.53	---	---	---	---	---	---	---	---	---	44.20
1.87	0.233	184.57	---	---	---	---	---	---	---	---	---	45.50
1.90	0.243	184.60	---	---	---	---	---	---	---	---	---	46.80
1.94	0.254	184.64	---	---	---	---	---	---	---	---	---	48.10
1.98	0.264	184.68	---	---	---	---	---	---	---	---	---	49.40
2.01	0.274	184.71	---	---	---	---	---	---	---	---	---	50.70
2.05	0.285	184.75	---	---	---	---	---	---	---	---	---	52.00
2.11	0.306	184.81	---	---	---	---	---	---	---	---	---	53.30
2.16	0.326	184.86	---	---	---	---	---	---	---	---	---	54.60
2.22	0.347	184.92	---	---	---	---	---	---	---	---	---	55.90
2.28	0.368	184.98	---	---	---	---	---	---	---	---	---	57.20
2.34	0.389	185.04	---	---	---	---	---	---	---	---	---	58.50
2.39	0.410	185.09	---	---	---	---	---	---	---	---	---	59.80
2.45	0.431	185.15	---	---	---	---	---	---	---	---	---	61.10
2.51	0.451	185.21	---	---	---	---	---	---	---	---	---	62.40
2.56	0.472	185.26	---	---	---	---	---	---	---	---	---	63.70
2.62	0.493	185.32	---	---	---	---	---	---	---	---	---	65.00
2.65	0.507	185.35	---	---	---	---	---	---	---	---	---	66.30
2.68	0.521	185.38	---	---	---	---	---	---	---	---	---	67.60
2.72	0.535	185.42	---	---	---	---	---	---	---	---	---	68.90
2.75	0.548	185.45	---	---	---	---	---	---	---	---	---	70.20
2.78	0.562	185.48	---	---	---	---	---	---	---	---	---	71.50
2.81	0.576	185.51	---	---	---	---	---	---	---	---	---	72.80
2.84	0.590	185.54	---	---	---	---	---	---	---	---	---	74.10
2.88	0.604	185.58	---	---	---	---	---	---	---	---	---	75.40
2.91	0.618	185.61	---	---	---	---	---	---	---	---	---	76.70
2.94	0.631	185.64	---	---	---	---	---	---	---	---	---	78.00
2.97	0.646	185.67	---	---	---	---	---	---	---	---	---	79.30
3.00	0.661	185.70	---	---	---	---	---	---	---	---	---	80.60
3.03	0.675	185.73	---	---	---	---	---	---	---	---	---	81.90
3.06	0.690	185.76	---	---	---	---	---	---	---	---	---	83.20
3.10	0.705	185.80	---	---	---	---	---	---	---	---	---	84.50
3.13	0.719	185.83	---	---	---	---	---	---	---	---	---	85.80
3.16	0.734	185.86	---	---	---	---	---	---	---	---	---	87.10
3.19	0.749	185.89	---	---	---	---	---	---	---	---	---	88.40
3.22	0.763	185.92	---	---	---	---	---	---	---	---	---	89.70
3.25	0.778	185.95	---	---	---	---	---	---	---	---	---	91.00
3.28	0.793	185.98	---	---	---	---	---	---	---	---	---	92.30
3.31	0.809	186.01	---	---	---	---	---	---	---	---	---	93.60
3.34	0.824	186.04	---	---	---	---	---	---	---	---	---	94.90
3.37	0.839	186.07	---	---	---	---	---	---	---	---	---	96.20
3.40	0.855	186.10	---	---	---	---	---	---	---	---	---	97.50
3.43	0.870	186.13	---	---	---	---	---	---	---	---	---	98.80
3.46	0.885	186.16	---	---	---	---	---	---	---	---	---	100.10
3.49	0.900	186.19	---	---	---	---	---	---	---	---	---	101.40
3.52	0.916	186.22	---	---	---	---	---	---	---	---	---	102.70
3.55	0.931	186.25	---	---	---	---	---	---	---	---	---	104.00
3.58	0.947	186.28	---	---	---	---	---	---	---	---	---	105.30
3.61	0.963	186.31	---	---	---	---	---	---	---	---	---	106.60
3.64	0.978	186.34	---	---	---	---	---	---	---	---	---	107.90
3.67	0.994	186.37	---	---	---	---	---	---	---	---	---	109.20
3.70	1.010	186.40	---	---	---	---	---	---	---	---	---	110.50
3.72	1.026	186.42	---	---	---	---	---	---	---	---	---	111.80
3.75	1.041	186.45	---	---	---	---	---	---	---	---	---	113.10
3.78	1.057	186.48	---	---	---	---	---	---	---	---	---	114.40
3.81	1.073	186.51	---	---	---	---	---	---	---	---	---	115.70
3.84	1.089	186.54	---	---	---	---	---	---	---	---	---	117.00
3.87	1.103	186.57	---	---	---	---	---	---	---	---	---	118.30
3.89	1.118	186.59	---	---	---	---	---	---	---	---	---	119.60
3.92	1.133	186.62	---	---	---	---	---	---	---	---	---	120.90
3.94	1.148	186.64	---	---	---	---	---	---	---	---	---	122.20
3.97	1.163	186.67	---	---	---	---	---	---	---	---	---	123.50
4.00	1.178	186.70	---	---	---	---	---	---	---	---	---	124.80

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Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
4.02	1.193	186.72	---	---	---	---	---	---	---	---	---	126.10
4.05	1.208	186.75	---	---	---	---	---	---	---	---	---	127.40
4.07	1.223	186.77	---	---	---	---	---	---	---	---	---	128.70
4.10	1.238	186.80	---	---	---	---	---	---	---	---	---	130.00

...End

Hydrograph Report

Hyd. No. 13

East Soccer

Hydrograph type	= SCS Runoff	Peak discharge	= 135.59 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 33.50 ac	Curve number	= 80
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 32.3 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 15.655 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.20	135.59 <<
12.30	134.33

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 14

F out of East Soccer

Hydrograph type	= Reservoir	Peak discharge	= 13.77 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 13	Reservoir name	= East Soccer Deten
Max. Elevation	= 194.63 ft	Max. Storage	= 7.659 acft

Storage Indication method used.

Outflow hydrograph volume = 15.645 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.20	135.59 <<	193.74	12.58	-----	-----	-----	-----	-----	-----	-----	-----	12.58
12.30	134.33	194.04	13.00	-----	-----	-----	-----	-----	-----	-----	-----	13.00
12.40	118.84	194.19	13.19	-----	-----	-----	-----	-----	-----	-----	-----	13.19
12.50	101.66	194.31	13.36	-----	-----	-----	-----	-----	-----	-----	-----	13.36
12.60	83.07	194.42	13.49	-----	-----	-----	-----	-----	-----	-----	-----	13.49
12.70	64.03	194.49	13.59	-----	-----	-----	-----	-----	-----	-----	-----	13.59
12.80	46.07	194.55	13.66	-----	-----	-----	-----	-----	-----	-----	-----	13.66
12.90	31.23	194.58	13.71	-----	-----	-----	-----	-----	-----	-----	-----	13.71
13.00	23.56	194.60	13.73	-----	-----	-----	-----	-----	-----	-----	-----	13.73
13.10	20.97	194.61	13.74	-----	-----	-----	-----	-----	-----	-----	-----	13.74
13.20	18.91	194.62	13.75	-----	-----	-----	-----	-----	-----	-----	-----	13.75
13.30	17.29	194.62	13.76	-----	-----	-----	-----	-----	-----	-----	-----	13.76
13.40	16.04	194.63	13.76	-----	-----	-----	-----	-----	-----	-----	-----	13.76
13.50	15.04	194.63	13.77	-----	-----	-----	-----	-----	-----	-----	-----	13.77
13.60	14.19	194.63	13.77	-----	-----	-----	-----	-----	-----	-----	-----	13.77
13.70	13.41	194.63 <<	13.77	-----	-----	-----	-----	-----	-----	-----	-----	13.77 <<
13.80	12.71	194.63	13.77	-----	-----	-----	-----	-----	-----	-----	-----	13.77
13.90	12.07	194.63	13.77	-----	-----	-----	-----	-----	-----	-----	-----	13.77
14.00	11.49	194.63	13.76	-----	-----	-----	-----	-----	-----	-----	-----	13.76
14.10	10.95	194.62	13.76	-----	-----	-----	-----	-----	-----	-----	-----	13.76
14.20	10.45	194.62	13.75	-----	-----	-----	-----	-----	-----	-----	-----	13.75
14.30	10.01	194.61	13.75	-----	-----	-----	-----	-----	-----	-----	-----	13.75
14.40	9.63	194.61	13.74	-----	-----	-----	-----	-----	-----	-----	-----	13.74
14.50	9.31	194.60	13.73	-----	-----	-----	-----	-----	-----	-----	-----	13.73
14.60	9.03	194.60	13.73	-----	-----	-----	-----	-----	-----	-----	-----	13.73
14.70	8.80	194.59	13.72	-----	-----	-----	-----	-----	-----	-----	-----	13.72
14.80	8.59	194.58	13.71	-----	-----	-----	-----	-----	-----	-----	-----	13.71
14.90	8.41	194.58	13.70	-----	-----	-----	-----	-----	-----	-----	-----	13.70
15.00	8.24	194.57	13.69	-----	-----	-----	-----	-----	-----	-----	-----	13.69
15.10	8.07	194.56	13.68	-----	-----	-----	-----	-----	-----	-----	-----	13.68
15.20	7.90	194.56	13.67	-----	-----	-----	-----	-----	-----	-----	-----	13.67
15.30	7.73	194.55	13.66	-----	-----	-----	-----	-----	-----	-----	-----	13.66
15.40	7.56	194.54	13.65	-----	-----	-----	-----	-----	-----	-----	-----	13.65
15.50	7.39	194.53	13.64	-----	-----	-----	-----	-----	-----	-----	-----	13.64
15.60	7.21	194.52	13.63	-----	-----	-----	-----	-----	-----	-----	-----	13.63
15.70	7.04	194.52	13.62	-----	-----	-----	-----	-----	-----	-----	-----	13.62
15.80	6.87	194.51	13.61	-----	-----	-----	-----	-----	-----	-----	-----	13.61
15.90	6.70	194.50	13.60	-----	-----	-----	-----	-----	-----	-----	-----	13.60

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Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
16.00	6.53	194.49	13.59	-----	-----	-----	-----	-----	-----	-----	-----	13.59
16.10	6.36	194.48	13.58	-----	-----	-----	-----	-----	-----	-----	-----	13.58
16.20	6.20	194.47	13.56	-----	-----	-----	-----	-----	-----	-----	-----	13.56
16.30	6.05	194.46	13.55	-----	-----	-----	-----	-----	-----	-----	-----	13.55
16.40	5.92	194.45	13.54	-----	-----	-----	-----	-----	-----	-----	-----	13.54
16.50	5.80	194.44	13.53	-----	-----	-----	-----	-----	-----	-----	-----	13.53
16.60	5.70	194.43	13.51	-----	-----	-----	-----	-----	-----	-----	-----	13.51
16.70	5.62	194.42	13.50	-----	-----	-----	-----	-----	-----	-----	-----	13.50
16.80	5.55	194.41	13.49	-----	-----	-----	-----	-----	-----	-----	-----	13.49
16.90	5.48	194.40	13.47	-----	-----	-----	-----	-----	-----	-----	-----	13.47
17.00	5.42	194.39	13.46	-----	-----	-----	-----	-----	-----	-----	-----	13.46
17.10	5.36	194.38	13.45	-----	-----	-----	-----	-----	-----	-----	-----	13.45
17.20	5.30	194.37	13.43	-----	-----	-----	-----	-----	-----	-----	-----	13.43
17.30	5.24	194.36	13.42	-----	-----	-----	-----	-----	-----	-----	-----	13.42
17.40	5.17	194.35	13.40	-----	-----	-----	-----	-----	-----	-----	-----	13.40
17.50	5.11	194.34	13.39	-----	-----	-----	-----	-----	-----	-----	-----	13.39
17.60	5.05	194.33	13.38	-----	-----	-----	-----	-----	-----	-----	-----	13.38
17.70	4.99	194.31	13.36	-----	-----	-----	-----	-----	-----	-----	-----	13.36
17.80	4.93	194.30	13.35	-----	-----	-----	-----	-----	-----	-----	-----	13.35
17.90	4.87	194.29	13.33	-----	-----	-----	-----	-----	-----	-----	-----	13.33
18.00	4.81	194.28	13.32	-----	-----	-----	-----	-----	-----	-----	-----	13.32
18.10	4.74	194.27	13.30	-----	-----	-----	-----	-----	-----	-----	-----	13.30
18.20	4.68	194.26	13.29	-----	-----	-----	-----	-----	-----	-----	-----	13.29
18.30	4.62	194.25	13.27	-----	-----	-----	-----	-----	-----	-----	-----	13.27
18.40	4.56	194.24	13.26	-----	-----	-----	-----	-----	-----	-----	-----	13.26
18.50	4.50	194.23	13.24	-----	-----	-----	-----	-----	-----	-----	-----	13.24
18.60	4.44	194.21	13.23	-----	-----	-----	-----	-----	-----	-----	-----	13.23
18.70	4.37	194.20	13.21	-----	-----	-----	-----	-----	-----	-----	-----	13.21
18.80	4.31	194.19	13.20	-----	-----	-----	-----	-----	-----	-----	-----	13.20
18.90	4.25	194.18	13.18	-----	-----	-----	-----	-----	-----	-----	-----	13.18
19.00	4.19	194.17	13.17	-----	-----	-----	-----	-----	-----	-----	-----	13.17
19.10	4.13	194.16	13.15	-----	-----	-----	-----	-----	-----	-----	-----	13.15
19.20	4.06	194.14	13.14	-----	-----	-----	-----	-----	-----	-----	-----	13.14
19.30	4.00	194.13	13.12	-----	-----	-----	-----	-----	-----	-----	-----	13.12
19.40	3.94	194.12	13.11	-----	-----	-----	-----	-----	-----	-----	-----	13.11
19.50	3.88	194.11	13.09	-----	-----	-----	-----	-----	-----	-----	-----	13.09
19.60	3.81	194.10	13.07	-----	-----	-----	-----	-----	-----	-----	-----	13.07
19.70	3.75	194.08	13.06	-----	-----	-----	-----	-----	-----	-----	-----	13.06
19.80	3.69	194.07	13.04	-----	-----	-----	-----	-----	-----	-----	-----	13.04
19.90	3.63	194.06	13.02	-----	-----	-----	-----	-----	-----	-----	-----	13.02
20.00	3.57	194.05	13.01	-----	-----	-----	-----	-----	-----	-----	-----	13.01
20.10	3.50	194.04	12.99	-----	-----	-----	-----	-----	-----	-----	-----	12.99
20.20	3.45	194.02	12.98	-----	-----	-----	-----	-----	-----	-----	-----	12.98
20.30	3.39	194.01	12.96	-----	-----	-----	-----	-----	-----	-----	-----	12.96
20.40	3.35	194.00	12.94	-----	-----	-----	-----	-----	-----	-----	-----	12.94
20.50	3.31	193.97	12.90	-----	-----	-----	-----	-----	-----	-----	-----	12.90
20.60	3.29	193.94	12.86	-----	-----	-----	-----	-----	-----	-----	-----	12.86
20.70	3.26	193.91	12.83	-----	-----	-----	-----	-----	-----	-----	-----	12.83
20.80	3.24	193.89	12.79	-----	-----	-----	-----	-----	-----	-----	-----	12.79
20.90	3.23	193.86	12.75	-----	-----	-----	-----	-----	-----	-----	-----	12.75
21.00	3.22	193.83	12.71	-----	-----	-----	-----	-----	-----	-----	-----	12.71

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Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
21.10	3.20	193.80	12.68	-----	-----	-----	-----	-----	-----	-----	-----	12.68
21.20	3.19	193.78	12.64	-----	-----	-----	-----	-----	-----	-----	-----	12.64
21.30	3.18	193.75	12.60	-----	-----	-----	-----	-----	-----	-----	-----	12.60
21.40	3.17	193.72	12.56	-----	-----	-----	-----	-----	-----	-----	-----	12.56
21.50	3.16	193.70	12.53	-----	-----	-----	-----	-----	-----	-----	-----	12.53
21.60	3.14	193.67	12.49	-----	-----	-----	-----	-----	-----	-----	-----	12.49
21.70	3.13	193.64	12.45	-----	-----	-----	-----	-----	-----	-----	-----	12.45
21.80	3.12	193.62	12.41	-----	-----	-----	-----	-----	-----	-----	-----	12.41

...End

Reservoir Report

Reservoir No. 1 - East Soccer Detention

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	185.60	00	0.000	0.000
6.30	191.90	02	0.000	0.000
6.40	192.00	8,048	0.009	0.009
7.40	193.00	59,042	0.770	0.779
8.40	194.00	191,362	2.874	3.654
9.40	195.00	361,688	6.348	10.002

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 15.0	0.0	0.0	0.0
Span in	= 15.0	0.0	0.0	0.0
No. Barrels	= 1	0	0	0
Invert El. ft	= 185.60	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 84.00	0.00	0.00	0.00
Crest El. ft	= 192.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	0.00	0.00	0.00
Weir Type	= Riser	---	---	---
Multi-Stage	= Yes	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 189.20 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	185.60	0.00	---	---	---	0.00	---	---	---	---	0.00
0.63	0.000	186.23	0.00	---	---	---	0.00	---	---	---	---	0.00
1.26	0.000	186.86	0.00	---	---	---	0.00	---	---	---	---	0.00
1.89	0.000	187.49	0.00	---	---	---	0.00	---	---	---	---	0.00
2.52	0.000	188.12	0.00	---	---	---	0.00	---	---	---	---	0.00
3.15	0.000	188.75	0.00	---	---	---	0.00	---	---	---	---	0.00
3.78	0.000	189.38	0.00	---	---	---	0.00	---	---	---	---	0.00
4.41	0.000	190.01	0.00	---	---	---	0.00	---	---	---	---	0.00
5.04	0.000	190.64	0.00	---	---	---	0.00	---	---	---	---	0.00
5.67	0.000	191.27	0.00	---	---	---	0.00	---	---	---	---	0.00
6.30	0.000	191.90	0.00	---	---	---	0.00	---	---	---	---	0.00
6.31	0.001	191.91	0.00	---	---	---	0.00	---	---	---	---	0.00
6.32	0.002	191.92	0.00	---	---	---	0.00	---	---	---	---	0.00
6.33	0.003	191.93	0.00	---	---	---	0.00	---	---	---	---	0.00
6.34	0.004	191.94	0.00	---	---	---	0.00	---	---	---	---	0.00
6.35	0.005	191.95	0.00	---	---	---	0.00	---	---	---	---	0.00
6.36	0.006	191.96	0.00	---	---	---	0.00	---	---	---	---	0.00
6.37	0.007	191.97	0.00	---	---	---	0.00	---	---	---	---	0.00
6.38	0.008	191.98	0.00	---	---	---	0.00	---	---	---	---	0.00
6.39	0.008	191.99	0.00	---	---	---	0.00	---	---	---	---	0.00
6.40	0.009	192.00	0.00	---	---	---	0.00	---	---	---	---	0.00
6.50	0.086	192.10	8.85	---	---	---	8.85	---	---	---	---	8.85
6.60	0.163	192.20	10.21	---	---	---	10.19	---	---	---	---	10.19
6.70	0.240	192.30	10.40	---	---	---	10.31	---	---	---	---	10.31
6.80	0.317	192.40	10.57	---	---	---	10.39	---	---	---	---	10.39
6.90	0.394	192.50	10.73	---	---	---	10.68	---	---	---	---	10.68
7.00	0.471	192.60	10.89	---	---	---	10.79	---	---	---	---	10.79
7.10	0.548	192.70	11.05	---	---	---	11.03	---	---	---	---	11.03
7.20	0.625	192.80	11.21	---	---	---	10.00	---	---	---	---	10.00
7.30	0.702	192.90	11.36	---	---	---	9.06	---	---	---	---	9.06
7.40	0.779	193.00	11.52	---	---	---	11.34	---	---	---	---	11.34
7.50	1.067	193.10	11.67	---	---	---	8.69	---	---	---	---	8.69

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Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
7.60	1.354	193.20	11.82	---	---	---	9.57	---	---	---	---	9.57
7.70	1.642	193.30	11.96	---	---	---	10.46	---	---	---	---	10.46
7.80	1.929	193.40	12.11	---	---	---	11.36	---	---	---	---	11.36
7.90	2.217	193.50	12.25	---	---	---	0.00	---	---	---	---	12.25
8.00	2.504	193.60	12.39	---	---	---	0.00	---	---	---	---	12.39
8.10	2.791	193.70	12.53	---	---	---	0.00	---	---	---	---	12.53
8.20	3.079	193.80	12.67	---	---	---	0.00	---	---	---	---	12.67
8.30	3.366	193.90	12.81	---	---	---	0.00	---	---	---	---	12.81
8.40	3.654	194.00	12.94	---	---	---	0.00	---	---	---	---	12.94
8.50	4.289	194.10	13.08	---	---	---	0.00	---	---	---	---	13.08
8.60	4.923	194.20	13.21	---	---	---	0.00	---	---	---	---	13.21
8.70	5.558	194.30	13.34	---	---	---	0.00	---	---	---	---	13.34
8.80	6.193	194.40	13.47	---	---	---	0.00	---	---	---	---	13.47
8.90	6.828	194.50	13.60	---	---	---	0.00	---	---	---	---	13.60
9.00	7.463	194.60	13.73	---	---	---	0.00	---	---	---	---	13.73
9.10	8.097	194.70	13.86	---	---	---	0.00	---	---	---	---	13.86
9.20	8.732	194.80	13.98	---	---	---	0.00	---	---	---	---	13.98
9.30	9.367	194.90	14.11	---	---	---	0.00	---	---	---	---	14.11
9.40	10.002	195.00	14.23	---	---	---	0.00	---	---	---	---	14.23

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 15

NE Regency Park

Hydrograph type	= SCS Runoff	Peak discharge	= 214.18 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 36.50 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 21.6 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 21.183 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.10	214.18 <<
12.20	203.99

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 16

Flow to NE Reg Pond

Hydrograph type	= Combine	Peak discharge	= 225.62 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyds.	= 14, 15		

Hydrograph Volume = 36.828 acft

Hydrograph Discharge Table

Time (hrs)	Hyd. 14 + (cfs)	Hyd. 15 = (cfs)	Outflow (cfs)
12.10	11.44	214.18 <<	225.62 <<
12.20	12.58	203.99	216.57

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 17

NE Pond

Hydrograph type	= Reservoir	Peak discharge	= 17.94 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 16	Reservoir name	= NE Pond
Max. Elevation	= 189.20 ft	Max. Storage	= 17.536 acft

Storage Indication method used.

Outflow hydrograph volume = 36.759 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.60	62.65	188.45	16.37	-----	-----	-----	-----	-----	-----	-----	-----	16.37
12.70	46.76	188.53	16.54	-----	-----	-----	-----	-----	-----	-----	-----	16.54
12.80	42.26	188.58	16.66	-----	-----	-----	-----	-----	-----	-----	-----	16.66
12.90	38.85	188.63	16.76	-----	-----	-----	-----	-----	-----	-----	-----	16.76
13.00	36.28	188.67	16.85	-----	-----	-----	-----	-----	-----	-----	-----	16.85
13.10	34.36	188.71	16.93	-----	-----	-----	-----	-----	-----	-----	-----	16.93
13.20	32.89	188.74	17.00	-----	-----	-----	-----	-----	-----	-----	-----	17.00
13.30	31.69	188.77	17.06	-----	-----	-----	-----	-----	-----	-----	-----	17.06
13.40	30.63	188.80	17.12	-----	-----	-----	-----	-----	-----	-----	-----	17.12
13.50	29.69	188.82	17.17	-----	-----	-----	-----	-----	-----	-----	-----	17.17
13.60	28.84	188.85	17.22	-----	-----	-----	-----	-----	-----	-----	-----	17.22
13.70	28.07	188.87	17.27	-----	-----	-----	-----	-----	-----	-----	-----	17.27
13.80	27.36	188.89	17.31	-----	-----	-----	-----	-----	-----	-----	-----	17.31
13.90	26.70	188.91	17.35	-----	-----	-----	-----	-----	-----	-----	-----	17.35
14.00	26.08	188.93	17.39	-----	-----	-----	-----	-----	-----	-----	-----	17.39
14.10	25.50	188.94	17.42	-----	-----	-----	-----	-----	-----	-----	-----	17.42
14.20	24.99	188.96	17.45	-----	-----	-----	-----	-----	-----	-----	-----	17.45
14.30	24.56	188.97	17.48	-----	-----	-----	-----	-----	-----	-----	-----	17.48
14.40	24.20	188.99	17.51	-----	-----	-----	-----	-----	-----	-----	-----	17.51
14.50	23.92	189.00	17.54	-----	-----	-----	-----	-----	-----	-----	-----	17.54
14.60	23.67	189.01	17.56	-----	-----	-----	-----	-----	-----	-----	-----	17.56
14.70	23.46	189.02	17.58	-----	-----	-----	-----	-----	-----	-----	-----	17.58
14.80	23.25	189.03	17.61	-----	-----	-----	-----	-----	-----	-----	-----	17.61
14.90	23.05	189.04	17.63	-----	-----	-----	-----	-----	-----	-----	-----	17.63
15.00	22.84	189.05	17.65	-----	-----	-----	-----	-----	-----	-----	-----	17.65
15.10	22.63	189.06	17.67	-----	-----	-----	-----	-----	-----	-----	-----	17.67
15.20	22.42	189.07	17.69	-----	-----	-----	-----	-----	-----	-----	-----	17.69
15.30	22.22	189.08	17.70	-----	-----	-----	-----	-----	-----	-----	-----	17.70
15.40	22.01	189.09	17.72	-----	-----	-----	-----	-----	-----	-----	-----	17.72
15.50	21.80	189.10	17.74	-----	-----	-----	-----	-----	-----	-----	-----	17.74
15.60	21.59	189.10	17.75	-----	-----	-----	-----	-----	-----	-----	-----	17.75
15.70	21.38	189.11	17.77	-----	-----	-----	-----	-----	-----	-----	-----	17.77
15.80	21.17	189.12	17.78	-----	-----	-----	-----	-----	-----	-----	-----	17.78
15.90	20.96	189.12	17.79	-----	-----	-----	-----	-----	-----	-----	-----	17.79
16.00	20.75	189.13	17.80	-----	-----	-----	-----	-----	-----	-----	-----	17.80
16.10	20.55	189.13	17.81	-----	-----	-----	-----	-----	-----	-----	-----	17.81
16.20	20.36	189.14	17.82	-----	-----	-----	-----	-----	-----	-----	-----	17.82
16.30	20.19	189.14	17.83	-----	-----	-----	-----	-----	-----	-----	-----	17.83

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Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
16.40	20.06	189.15	17.84	-----	-----	-----	-----	-----	-----	-----	-----	17.84
16.50	19.95	189.15	17.85	-----	-----	-----	-----	-----	-----	-----	-----	17.85
16.60	19.85	189.16	17.86	-----	-----	-----	-----	-----	-----	-----	-----	17.86
16.70	19.76	189.16	17.86	-----	-----	-----	-----	-----	-----	-----	-----	17.86
16.80	19.68	189.16	17.87	-----	-----	-----	-----	-----	-----	-----	-----	17.87
16.90	19.60	189.17	17.88	-----	-----	-----	-----	-----	-----	-----	-----	17.88
17.00	19.51	189.17	17.88	-----	-----	-----	-----	-----	-----	-----	-----	17.88
17.10	19.43	189.17	17.89	-----	-----	-----	-----	-----	-----	-----	-----	17.89
17.20	19.34	189.17	17.90	-----	-----	-----	-----	-----	-----	-----	-----	17.90
17.30	19.26	189.18	17.90	-----	-----	-----	-----	-----	-----	-----	-----	17.90
17.40	19.17	189.18	17.91	-----	-----	-----	-----	-----	-----	-----	-----	17.91
17.50	19.09	189.18	17.91	-----	-----	-----	-----	-----	-----	-----	-----	17.91
17.60	19.00	189.18	17.91	-----	-----	-----	-----	-----	-----	-----	-----	17.91
17.70	18.92	189.19	17.92	-----	-----	-----	-----	-----	-----	-----	-----	17.92
17.80	18.83	189.19	17.92	-----	-----	-----	-----	-----	-----	-----	-----	17.92
17.90	18.75	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
18.00	18.66	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
18.10	18.58	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
18.20	18.49	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
18.30	18.41	189.19	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
18.40	18.32	189.19	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
18.50	18.23	189.20	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
18.60	18.15	189.20	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
18.70	18.06	189.20	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
18.80	17.98	189.20 <<	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94 <<
18.90	17.89	189.20	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
19.00	17.80	189.20	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
19.10	17.72	189.20	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
19.20	17.63	189.20	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
19.30	17.54	189.19	17.94	-----	-----	-----	-----	-----	-----	-----	-----	17.94
19.40	17.46	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
19.50	17.37	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
19.60	17.28	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
19.70	17.19	189.19	17.93	-----	-----	-----	-----	-----	-----	-----	-----	17.93
19.80	17.11	189.19	17.92	-----	-----	-----	-----	-----	-----	-----	-----	17.92
19.90	17.02	189.19	17.92	-----	-----	-----	-----	-----	-----	-----	-----	17.92
20.00	16.93	189.19	17.92	-----	-----	-----	-----	-----	-----	-----	-----	17.92
20.10	16.85	189.18	17.91	-----	-----	-----	-----	-----	-----	-----	-----	17.91
20.20	16.77	189.18	17.91	-----	-----	-----	-----	-----	-----	-----	-----	17.91
20.30	16.70	189.18	17.91	-----	-----	-----	-----	-----	-----	-----	-----	17.91
20.40	16.65	189.18	17.90	-----	-----	-----	-----	-----	-----	-----	-----	17.90
20.50	16.58	189.18	17.90	-----	-----	-----	-----	-----	-----	-----	-----	17.90
20.60	16.52	189.17	17.89	-----	-----	-----	-----	-----	-----	-----	-----	17.89
20.70	16.47	189.17	17.89	-----	-----	-----	-----	-----	-----	-----	-----	17.89
20.80	16.42	189.17	17.88	-----	-----	-----	-----	-----	-----	-----	-----	17.88
20.90	16.37	189.16	17.87	-----	-----	-----	-----	-----	-----	-----	-----	17.87
21.00	16.32	189.16	17.87	-----	-----	-----	-----	-----	-----	-----	-----	17.87
21.10	16.27	189.16	17.86	-----	-----	-----	-----	-----	-----	-----	-----	17.86
21.20	16.21	189.16	17.86	-----	-----	-----	-----	-----	-----	-----	-----	17.86
21.30	16.16	189.15	17.85	-----	-----	-----	-----	-----	-----	-----	-----	17.85
21.40	16.11	189.15	17.84	-----	-----	-----	-----	-----	-----	-----	-----	17.84

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Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
21.50	16.06	189.15	17.84	-----	-----	-----	-----	-----	-----	-----	-----	17.84
21.60	16.01	189.14	17.83	-----	-----	-----	-----	-----	-----	-----	-----	17.83
21.70	15.96	189.14	17.82	-----	-----	-----	-----	-----	-----	-----	-----	17.82
21.80	15.90	189.14	17.82	-----	-----	-----	-----	-----	-----	-----	-----	17.82
21.90	15.85	189.13	17.81	-----	-----	-----	-----	-----	-----	-----	-----	17.81
22.00	15.80	189.13	17.80	-----	-----	-----	-----	-----	-----	-----	-----	17.80
22.10	15.75	189.12	17.79	-----	-----	-----	-----	-----	-----	-----	-----	17.79
22.20	15.70	189.12	17.79	-----	-----	-----	-----	-----	-----	-----	-----	17.79
22.30	15.52	189.12	17.78	-----	-----	-----	-----	-----	-----	-----	-----	17.78
22.40	15.27	189.11	17.77	-----	-----	-----	-----	-----	-----	-----	-----	17.77
22.50	15.04	189.11	17.76	-----	-----	-----	-----	-----	-----	-----	-----	17.76
22.60	14.81	189.10	17.75	-----	-----	-----	-----	-----	-----	-----	-----	17.75
22.70	14.58	189.10	17.74	-----	-----	-----	-----	-----	-----	-----	-----	17.74
22.80	14.35	189.09	17.73	-----	-----	-----	-----	-----	-----	-----	-----	17.73
22.90	14.14	189.08	17.71	-----	-----	-----	-----	-----	-----	-----	-----	17.71
23.00	13.92	189.08	17.70	-----	-----	-----	-----	-----	-----	-----	-----	17.70
23.10	13.71	189.07	17.68	-----	-----	-----	-----	-----	-----	-----	-----	17.68
23.20	13.51	189.06	17.67	-----	-----	-----	-----	-----	-----	-----	-----	17.67
23.30	13.31	189.05	17.65	-----	-----	-----	-----	-----	-----	-----	-----	17.65
23.40	13.12	189.05	17.63	-----	-----	-----	-----	-----	-----	-----	-----	17.63
23.50	12.93	189.04	17.62	-----	-----	-----	-----	-----	-----	-----	-----	17.62
23.60	12.74	189.03	17.60	-----	-----	-----	-----	-----	-----	-----	-----	17.60
23.70	12.56	189.02	17.58	-----	-----	-----	-----	-----	-----	-----	-----	17.58
23.80	12.38	189.01	17.56	-----	-----	-----	-----	-----	-----	-----	-----	17.56
23.90	12.21	189.00	17.54	-----	-----	-----	-----	-----	-----	-----	-----	17.54
24.00	12.04	188.99	17.52	-----	-----	-----	-----	-----	-----	-----	-----	17.52
24.10	11.62	188.98	17.50	-----	-----	-----	-----	-----	-----	-----	-----	17.50
24.20	11.46	188.97	17.47	-----	-----	-----	-----	-----	-----	-----	-----	17.47
24.30	11.21	188.96	17.45	-----	-----	-----	-----	-----	-----	-----	-----	17.45
24.40	11.20	188.94	17.42	-----	-----	-----	-----	-----	-----	-----	-----	17.42
24.50	11.43	188.93	17.40	-----	-----	-----	-----	-----	-----	-----	-----	17.40
24.60	10.34	188.92	17.37	-----	-----	-----	-----	-----	-----	-----	-----	17.37
24.70	9.53	188.90	17.34	-----	-----	-----	-----	-----	-----	-----	-----	17.34
24.80	10.56	188.89	17.31	-----	-----	-----	-----	-----	-----	-----	-----	17.31
24.90	10.86	188.88	17.28	-----	-----	-----	-----	-----	-----	-----	-----	17.28
25.00	10.70	188.86	17.26	-----	-----	-----	-----	-----	-----	-----	-----	17.26
25.10	10.40	188.85	17.23	-----	-----	-----	-----	-----	-----	-----	-----	17.23
25.20	10.30	188.84	17.20	-----	-----	-----	-----	-----	-----	-----	-----	17.20
25.30	9.97	188.82	17.17	-----	-----	-----	-----	-----	-----	-----	-----	17.17
25.40	7.81	188.81	17.14	-----	-----	-----	-----	-----	-----	-----	-----	17.14
25.50	2.78	188.78	17.09	-----	-----	-----	-----	-----	-----	-----	-----	17.09
25.60	0.99	188.75	17.02	-----	-----	-----	-----	-----	-----	-----	-----	17.02
25.70	0.35	188.72	16.96	-----	-----	-----	-----	-----	-----	-----	-----	16.96
25.80	0.13	188.69	16.89	-----	-----	-----	-----	-----	-----	-----	-----	16.89
25.90	0.04	188.66	16.81	-----	-----	-----	-----	-----	-----	-----	-----	16.81
26.00	0.02	188.62	16.74	-----	-----	-----	-----	-----	-----	-----	-----	16.74
26.10	0.01	188.59	16.67	-----	-----	-----	-----	-----	-----	-----	-----	16.67
26.20	0.00	188.56	16.60	-----	-----	-----	-----	-----	-----	-----	-----	16.60
26.30	0.00	188.53	16.53	-----	-----	-----	-----	-----	-----	-----	-----	16.53
26.40	0.00	188.49	16.46	-----	-----	-----	-----	-----	-----	-----	-----	16.46
26.50	0.00	188.46	16.39	-----	-----	-----	-----	-----	-----	-----	-----	16.39

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Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
26.60	0.00	188.43	16.32	-----	-----	-----	-----	-----	-----	-----	-----	16.32
26.70	0.00	188.40	16.25	-----	-----	-----	-----	-----	-----	-----	-----	16.25
26.80	0.00	188.36	16.17	-----	-----	-----	-----	-----	-----	-----	-----	16.17

...End

Reservoir Report

Reservoir No. 2 - NE Pond

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	184.00	103,592	0.000	0.000
1.00	185.00	111,240	2.466	2.466
2.00	186.00	135,758	2.835	5.301
3.00	187.00	155,599	3.344	8.645
4.00	188.00	176,337	3.810	12.456
5.00	189.00	190,141	4.207	16.662
6.00	190.00	197,336	4.448	21.110
7.00	191.00	206,078	4.631	25.740

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 18.0	0.0	0.0	0.0
Span in	= 18.0	0.0	0.0	0.0
No. Barrels	= 1	0	0	0
Invert El. ft	= 184.00	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 0.00	0.00	0.00	0.00
Crest El. ft	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	184.00	0.00	---	---	---	---	---	---	---	---	0.00
0.10	0.247	184.10	0.06	---	---	---	---	---	---	---	---	0.06
0.20	0.493	184.20	0.24	---	---	---	---	---	---	---	---	0.24
0.30	0.740	184.30	0.49	---	---	---	---	---	---	---	---	0.49
0.40	0.986	184.40	0.84	---	---	---	---	---	---	---	---	0.84
0.50	1.233	184.50	1.30	---	---	---	---	---	---	---	---	1.30
0.60	1.480	184.60	1.76	---	---	---	---	---	---	---	---	1.76
0.70	1.726	184.70	2.39	---	---	---	---	---	---	---	---	2.39
0.80	1.973	184.80	2.96	---	---	---	---	---	---	---	---	2.96
0.90	2.219	184.90	3.69	---	---	---	---	---	---	---	---	3.69
1.00	2.466	185.00	4.31	---	---	---	---	---	---	---	---	4.31
1.10	2.749	185.10	5.04	---	---	---	---	---	---	---	---	5.04
1.20	3.033	185.20	5.72	---	---	---	---	---	---	---	---	5.72
1.30	3.316	185.30	6.32	---	---	---	---	---	---	---	---	6.32
1.40	3.600	185.40	6.93	---	---	---	---	---	---	---	---	6.93
1.50	3.884	185.50	7.37	---	---	---	---	---	---	---	---	7.37
1.60	4.167	185.60	7.84	---	---	---	---	---	---	---	---	7.84
1.70	4.451	185.70	8.29	---	---	---	---	---	---	---	---	8.29
1.80	4.734	185.80	8.72	---	---	---	---	---	---	---	---	8.72
1.90	5.018	185.90	9.12	---	---	---	---	---	---	---	---	9.12
2.00	5.301	186.00	9.51	---	---	---	---	---	---	---	---	9.51
2.10	5.636	186.10	9.89	---	---	---	---	---	---	---	---	9.89
2.20	5.970	186.20	10.24	---	---	---	---	---	---	---	---	10.24
2.30	6.304	186.30	10.59	---	---	---	---	---	---	---	---	10.59
2.40	6.639	186.40	10.93	---	---	---	---	---	---	---	---	10.93
2.50	6.973	186.50	11.25	---	---	---	---	---	---	---	---	11.25
2.60	7.308	186.60	11.57	---	---	---	---	---	---	---	---	11.57
2.70	7.642	186.70	11.88	---	---	---	---	---	---	---	---	11.88
2.80	7.977	186.80	12.18	---	---	---	---	---	---	---	---	12.18
2.90	8.311	186.90	12.47	---	---	---	---	---	---	---	---	12.47

Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
3.00	8.645	187.00	12.76	---	---	---	---	---	---	---	---	12.76
3.10	9.026	187.10	13.04	---	---	---	---	---	---	---	---	13.04
3.20	9.407	187.20	13.32	---	---	---	---	---	---	---	---	13.32
3.30	9.788	187.30	13.59	---	---	---	---	---	---	---	---	13.59
3.40	10.169	187.40	13.85	---	---	---	---	---	---	---	---	13.85
3.50	10.550	187.50	14.11	---	---	---	---	---	---	---	---	14.11
3.60	10.931	187.60	14.36	---	---	---	---	---	---	---	---	14.36
3.70	11.312	187.70	14.61	---	---	---	---	---	---	---	---	14.61
3.80	11.693	187.80	14.86	---	---	---	---	---	---	---	---	14.86
3.90	12.074	187.90	15.10	---	---	---	---	---	---	---	---	15.10
4.00	12.456	188.00	15.34	---	---	---	---	---	---	---	---	15.34
4.10	12.876	188.10	15.57	---	---	---	---	---	---	---	---	15.57
4.20	13.297	188.20	15.80	---	---	---	---	---	---	---	---	15.80
4.30	13.717	188.30	16.03	---	---	---	---	---	---	---	---	16.03
4.40	14.138	188.40	16.25	---	---	---	---	---	---	---	---	16.25
4.50	14.559	188.50	16.48	---	---	---	---	---	---	---	---	16.48
4.60	14.979	188.60	16.69	---	---	---	---	---	---	---	---	16.69
4.70	15.400	188.70	16.91	---	---	---	---	---	---	---	---	16.91
4.80	15.821	188.80	17.12	---	---	---	---	---	---	---	---	17.12
4.90	16.241	188.90	17.33	---	---	---	---	---	---	---	---	17.33
5.00	16.662	189.00	17.54	---	---	---	---	---	---	---	---	17.54
5.10	17.107	189.10	17.74	---	---	---	---	---	---	---	---	17.74
5.20	17.552	189.20	17.95	---	---	---	---	---	---	---	---	17.95
5.30	17.996	189.30	18.15	---	---	---	---	---	---	---	---	18.15
5.40	18.441	189.40	18.35	---	---	---	---	---	---	---	---	18.35
5.50	18.886	189.50	18.54	---	---	---	---	---	---	---	---	18.54
5.60	19.331	189.60	18.74	---	---	---	---	---	---	---	---	18.74
5.70	19.775	189.70	18.93	---	---	---	---	---	---	---	---	18.93
5.80	20.220	189.80	19.12	---	---	---	---	---	---	---	---	19.12
5.90	20.665	189.90	19.31	---	---	---	---	---	---	---	---	19.31
6.00	21.110	190.00	19.49	---	---	---	---	---	---	---	---	19.49
6.10	21.573	190.10	19.68	---	---	---	---	---	---	---	---	19.68
6.20	22.036	190.20	19.86	---	---	---	---	---	---	---	---	19.86
6.30	22.499	190.30	20.04	---	---	---	---	---	---	---	---	20.04
6.40	22.962	190.40	20.22	---	---	---	---	---	---	---	---	20.22
6.50	23.425	190.50	20.40	---	---	---	---	---	---	---	---	20.40
6.60	23.888	190.60	20.58	---	---	---	---	---	---	---	---	20.58
6.70	24.351	190.70	20.75	---	---	---	---	---	---	---	---	20.75
6.80	24.814	190.80	20.93	---	---	---	---	---	---	---	---	20.93
6.90	25.277	190.90	21.10	---	---	---	---	---	---	---	---	21.10
7.00	25.740	191.00	21.27	---	---	---	---	---	---	---	---	21.27

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 18

SE Reg Park

Hydrograph type	= SCS Runoff	Peak discharge	= 177.80 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Drainage area	= 30.30 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 21.6 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 17.585 acft

Hydrograph Discharge Table

Time (hrs)	Outflow (cfs)
12.10	177.80 <<
12.20	169.34

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 19

To 48 inch RCP

Hydrograph type	= Combine	Peak discharge	= 190.57 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyds.	= 17, 18		

Hydrograph Volume = 54.343 acft

Hydrograph Discharge Table

Time (hrs)	Hyd. 17 + (cfs)	Hyd. 18 = (cfs)	Outflow (cfs)
12.10	12.77	177.80 <<	190.57 <<
12.20	13.99	169.34	183.33

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve

Hyd. No. 20

Post-Proj Nat Pond

Hydrograph type	= Reservoir	Peak discharge	= 69.07 cfs
Storm frequency	= 100 yrs	Time interval	= 6 min
Inflow hyd. No.	= 19	Reservoir name	= SE Pond
Max. Elevation	= 183.82 ft	Max. Storage	= 7.042 acft

Storage Indication method used.

Outflow hydrograph volume = 54.343 acft

Hydrograph Discharge Table

Time (hrs)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
12.40	116.14	183.70	-----	-----	-----	-----	-----	-----	-----	-----	-----	66.72
12.50	83.82	183.81	-----	-----	-----	-----	-----	-----	-----	-----	-----	68.97
12.60	57.18	183.82 <<	-----	-----	-----	-----	-----	-----	-----	-----	-----	69.07 <<
12.70	44.07	183.76	-----	-----	-----	-----	-----	-----	-----	-----	-----	67.83
12.80	40.40	183.67	-----	-----	-----	-----	-----	-----	-----	-----	-----	66.10
12.90	37.63	183.59	-----	-----	-----	-----	-----	-----	-----	-----	-----	64.27
13.00	35.57	183.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	62.40

...End

Reservoir Report

Reservoir No. 3 - SE Pond

Pond Data

Pond storage is based on known contour areas. Average end area method used.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	179.50	00	0.000	0.000
0.50	180.00	923	0.005	0.005
1.50	181.00	79,109	0.919	0.924
2.50	182.00	89,645	1.937	2.861
3.50	183.00	100,659	2.184	5.045
4.50	184.00	111,940	2.440	7.486
5.50	185.00	123,437	2.702	10.187
6.50	186.00	320,249	5.093	15.280
7.36	186.86	609,425	9.177	24.457
7.50	187.00	656,501	2.034	26.492
8.50	188.00	839,316	17.170	43.661

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 48.0	0.0	0.0	0.0
Span in	= 48.0	0.0	0.0	0.0
No. Barrels	= 1	0	0	0
Invert El. ft	= 179.50	0.00	0.00	0.00
Length ft	= 0.0	0.0	0.0	0.0
Slope %	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 200.00	100.00	0.00	0.00
Crest El. ft	= 186.90	188.10	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Rect	Rect	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 185.15 ft

Note: All outflows have been analyzed under inlet and outlet control.

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0.000	179.50	0.00	---	---	---	0.00	0.00	---	---	---	0.00
0.05	0.001	179.55	0.00	---	---	---	0.00	0.00	---	---	---	0.48
0.10	0.001	179.60	0.00	---	---	---	0.00	0.00	---	---	---	0.96
0.15	0.002	179.65	0.00	---	---	---	0.00	0.00	---	---	---	1.45
0.20	0.002	179.70	0.00	---	---	---	0.00	0.00	---	---	---	1.93
0.25	0.003	179.75	0.00	---	---	---	0.00	0.00	---	---	---	2.41
0.30	0.003	179.80	0.00	---	---	---	0.00	0.00	---	---	---	2.89
0.35	0.004	179.85	0.00	---	---	---	0.00	0.00	---	---	---	3.37
0.40	0.004	179.90	0.00	---	---	---	0.00	0.00	---	---	---	3.86
0.45	0.005	179.95	0.00	---	---	---	0.00	0.00	---	---	---	4.34
0.50	0.005	180.00	0.00	---	---	---	0.00	0.00	---	---	---	4.82
0.60	0.097	180.10	0.00	---	---	---	0.00	0.00	---	---	---	5.83
0.70	0.189	180.20	0.00	---	---	---	0.00	0.00	---	---	---	6.83
0.80	0.281	180.30	0.00	---	---	---	0.00	0.00	---	---	---	7.84
0.90	0.373	180.40	0.00	---	---	---	0.00	0.00	---	---	---	8.84
1.00	0.465	180.50	0.00	---	---	---	0.00	0.00	---	---	---	9.85
1.10	0.556	180.60	0.00	---	---	---	0.00	0.00	---	---	---	10.85
1.20	0.648	180.70	0.00	---	---	---	0.00	0.00	---	---	---	11.86
1.30	0.740	180.80	0.00	---	---	---	0.00	0.00	---	---	---	12.86
1.40	0.832	180.90	0.00	---	---	---	0.00	0.00	---	---	---	13.87
1.50	0.924	181.00	0.00	---	---	---	0.00	0.00	---	---	---	14.87
1.60	1.118	181.10	0.00	---	---	---	0.00	0.00	---	---	---	16.40
1.70	1.311	181.20	0.00	---	---	---	0.00	0.00	---	---	---	17.94
1.80	1.505	181.30	0.00	---	---	---	0.00	0.00	---	---	---	19.47
1.90	1.699	181.40	0.00	---	---	---	0.00	0.00	---	---	---	21.01
2.00	1.892	181.50	0.00	---	---	---	0.00	0.00	---	---	---	22.54
2.10	2.086	181.60	0.00	---	---	---	0.00	0.00	---	---	---	24.07

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Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
2.20	2.280	181.70	0.00	---	---	---	0.00	0.00	---	---	---	25.61
2.30	2.474	181.80	0.00	---	---	---	0.00	0.00	---	---	---	27.14
2.40	2.667	181.90	0.00	---	---	---	0.00	0.00	---	---	---	28.68
2.50	2.861	182.00	0.00	---	---	---	0.00	0.00	---	---	---	30.21
2.60	3.079	182.10	0.00	---	---	---	0.00	0.00	---	---	---	32.41
2.70	3.298	182.20	0.00	---	---	---	0.00	0.00	---	---	---	34.60
2.80	3.516	182.30	0.00	---	---	---	0.00	0.00	---	---	---	36.80
2.90	3.735	182.40	0.00	---	---	---	0.00	0.00	---	---	---	39.00
3.00	3.953	182.50	0.00	---	---	---	0.00	0.00	---	---	---	41.19
3.10	4.172	182.60	0.00	---	---	---	0.00	0.00	---	---	---	43.39
3.20	4.390	182.70	0.00	---	---	---	0.00	0.00	---	---	---	45.59
3.30	4.608	182.80	0.00	---	---	---	0.00	0.00	---	---	---	47.79
3.40	4.827	182.90	0.00	---	---	---	0.00	0.00	---	---	---	49.98
3.50	5.045	183.00	0.00	---	---	---	0.00	0.00	---	---	---	52.18
3.60	5.289	183.10	0.00	---	---	---	0.00	0.00	---	---	---	54.24
3.70	5.533	183.20	0.00	---	---	---	0.00	0.00	---	---	---	56.31
3.80	5.777	183.30	0.00	---	---	---	0.00	0.00	---	---	---	58.37
3.90	6.021	183.40	0.00	---	---	---	0.00	0.00	---	---	---	60.44
4.00	6.266	183.50	0.00	---	---	---	0.00	0.00	---	---	---	62.50
4.10	6.510	183.60	0.00	---	---	---	0.00	0.00	---	---	---	64.56
4.20	6.754	183.70	0.00	---	---	---	0.00	0.00	---	---	---	66.63
4.30	6.998	183.80	0.00	---	---	---	0.00	0.00	---	---	---	68.69
4.40	7.242	183.90	0.00	---	---	---	0.00	0.00	---	---	---	70.76
4.50	7.486	184.00	0.00	---	---	---	0.00	0.00	---	---	---	72.82
4.60	7.756	184.10	0.00	---	---	---	0.00	0.00	---	---	---	74.62
4.70	8.026	184.20	0.00	---	---	---	0.00	0.00	---	---	---	76.43
4.80	8.296	184.30	0.00	---	---	---	0.00	0.00	---	---	---	78.23
4.90	8.566	184.40	0.00	---	---	---	0.00	0.00	---	---	---	80.04
5.00	8.837	184.50	0.00	---	---	---	0.00	0.00	---	---	---	81.84
5.10	9.107	184.60	0.00	---	---	---	0.00	0.00	---	---	---	83.64
5.20	9.377	184.70	0.00	---	---	---	0.00	0.00	---	---	---	85.45
5.30	9.647	184.80	0.00	---	---	---	0.00	0.00	---	---	---	87.25
5.40	9.917	184.90	0.00	---	---	---	0.00	0.00	---	---	---	89.06
5.50	10.187	185.00	0.00	---	---	---	0.00	0.00	---	---	---	90.86
5.60	10.697	185.10	0.00	---	---	---	0.00	0.00	---	---	---	92.59
5.70	11.206	185.20	0.00	---	---	---	0.00	0.00	---	---	---	94.32
5.80	11.715	185.30	0.00	---	---	---	0.00	0.00	---	---	---	96.05
5.90	12.225	185.40	0.00	---	---	---	0.00	0.00	---	---	---	97.78
6.00	12.734	185.50	0.00	---	---	---	0.00	0.00	---	---	---	99.52
6.10	13.243	185.60	0.00	---	---	---	0.00	0.00	---	---	---	101.25
6.20	13.752	185.70	0.00	---	---	---	0.00	0.00	---	---	---	102.98
6.30	14.262	185.80	0.00	---	---	---	0.00	0.00	---	---	---	104.71
6.40	14.771	185.90	0.00	---	---	---	0.00	0.00	---	---	---	106.44
6.50	15.280	186.00	0.00	---	---	---	0.00	0.00	---	---	---	108.17
6.59	16.198	186.09	0.00	---	---	---	0.00	0.00	---	---	---	109.64
6.67	17.116	186.17	0.00	---	---	---	0.00	0.00	---	---	---	111.12
6.76	18.033	186.26	0.00	---	---	---	0.00	0.00	---	---	---	112.59
6.84	18.951	186.34	0.00	---	---	---	0.00	0.00	---	---	---	114.06
6.93	19.869	186.43	0.00	---	---	---	0.00	0.00	---	---	---	115.54
7.02	20.787	186.52	0.00	---	---	---	0.00	0.00	---	---	---	117.01
7.10	21.704	186.60	0.00	---	---	---	0.00	0.00	---	---	---	118.48
7.19	22.622	186.69	0.00	---	---	---	0.00	0.00	---	---	---	119.95
7.27	23.540	186.77	0.00	---	---	---	0.00	0.00	---	---	---	121.43
7.36	24.457	186.86	0.00	---	---	---	0.00	0.00	---	---	---	122.90
7.37	24.661	186.87	0.00	---	---	---	0.00	0.00	---	---	---	124.17
7.39	24.864	186.89	0.00	---	---	---	0.00	0.00	---	---	---	125.44
7.40	25.068	186.90	0.00	---	---	---	0.00	0.00	---	---	---	126.71
7.42	25.271	186.92	0.00	---	---	---	0.00	0.00	---	---	---	127.98
7.43	25.475	186.93	0.00	---	---	---	0.00	0.00	---	---	---	129.26
7.44	25.678	186.94	0.00	---	---	---	0.00	0.00	---	---	---	130.53
7.46	25.881	186.96	0.00	---	---	---	0.00	0.00	---	---	---	131.80
7.47	26.085	186.97	0.00	---	---	---	0.00	0.00	---	---	---	133.07
7.49	26.288	186.99	0.00	---	---	---	0.00	0.00	---	---	---	134.34
7.50	26.492	187.00	0.00	---	---	---	0.00	0.00	---	---	---	135.61
7.60	28.209	187.10	0.00	---	---	---	0.00	0.00	---	---	---	192.72
7.70	29.926	187.20	0.00	---	---	---	0.00	0.00	---	---	---	249.82
7.80	31.643	187.30	0.00	---	---	---	0.00	0.00	---	---	---	306.93
7.90	33.360	187.40	0.00	---	---	---	0.00	0.00	---	---	---	364.03
8.00	35.077	187.50	0.00	---	---	---	0.00	0.00	---	---	---	421.14
8.10	36.794	187.60	0.00	---	---	---	0.00	0.00	---	---	---	478.25

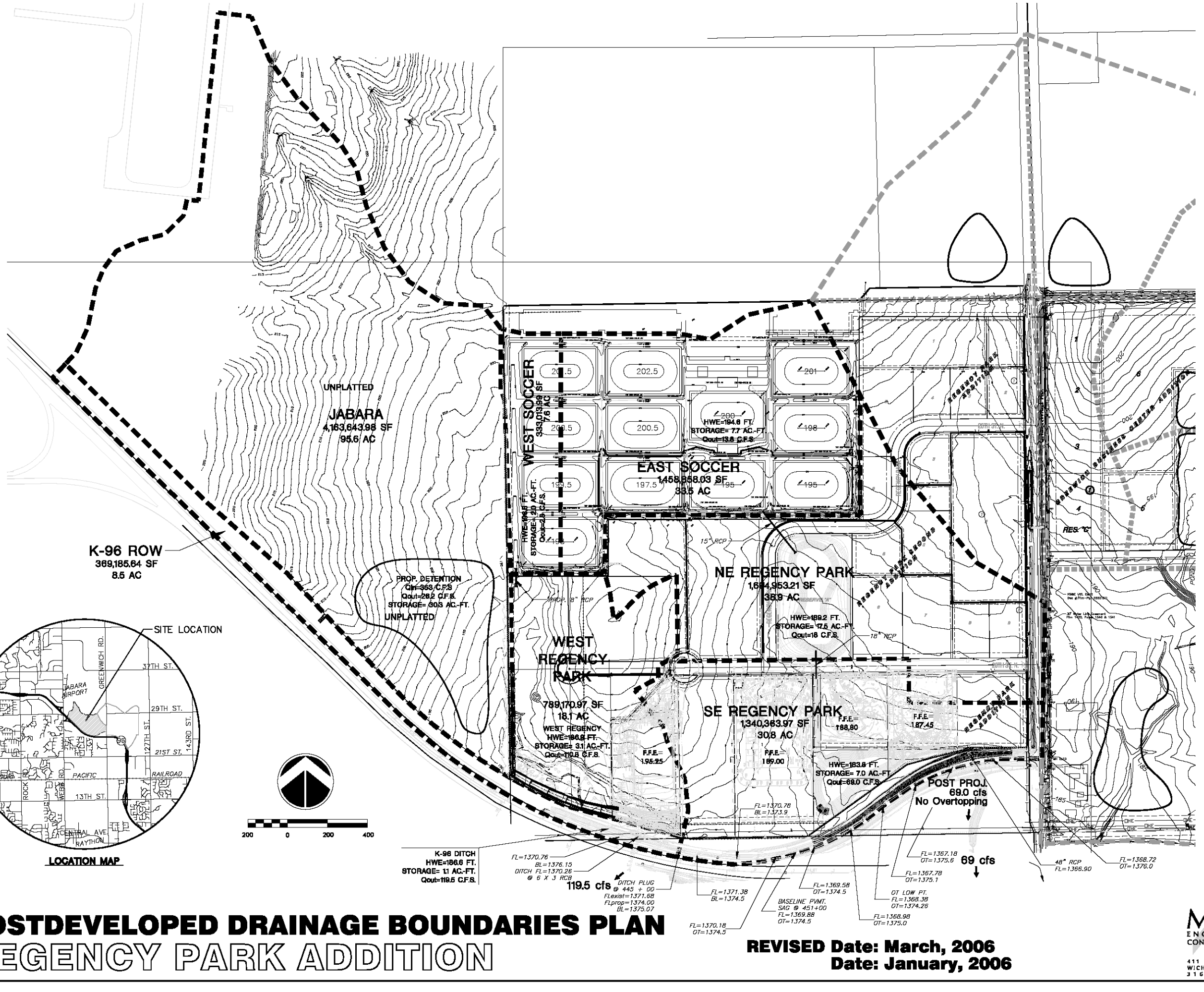
Continues on next page...

Stage / Storage / Discharge Table

Stage ft	Storage acft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	Clv D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
8.20	38.511	187.70	0.00	---	---	---	0.00	0.00	---	---	---	535.35
8.30	40.227	187.80	0.00	---	---	---	0.00	0.00	---	---	---	592.46
8.40	41.944	187.90	0.00	---	---	---	0.00	0.00	---	---	---	649.56
8.50	43.661	188.00	0.00	---	---	---	0.00	0.00	---	---	---	706.67

...End

POST DEVELOPED DRAINAGE BOUNDARIES PLAN



POSTDEVELOPED DRAINAGE BOUNDARIES PLAN

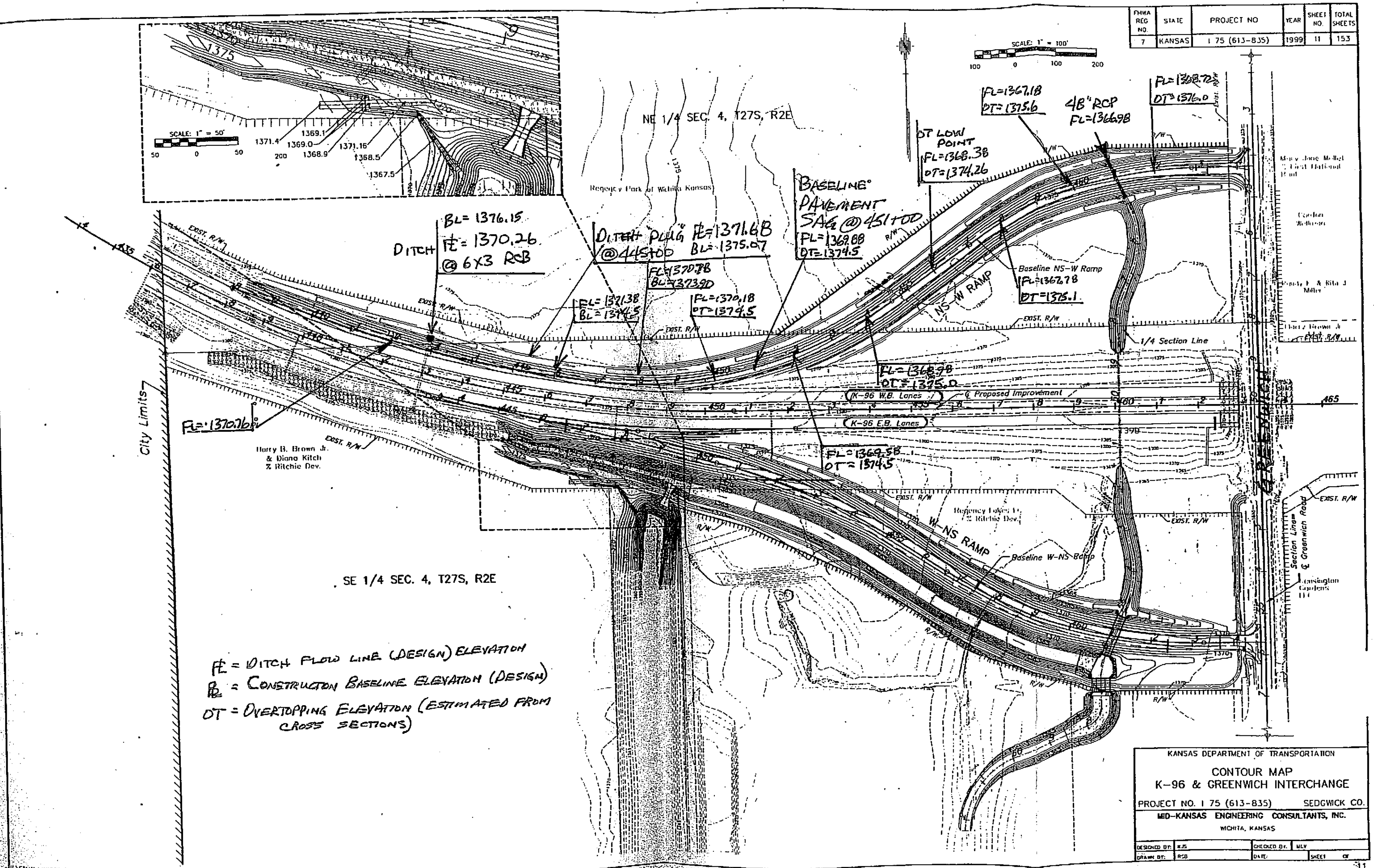
REGENCY PARK ADDITION

REVISED Date: March, 2006
Date: January, 2006

MKEC ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

D:\Civil\96104\DWG\Dmg\POST-Developed Boundaries_revised.dwg 1/06/2006 11:14:11 AM CST

K-96 & GREENWICH INTERCHANGE
Contours Map


FHWA REG NO. | STATE | PROJECT NO | YEAR | SHEET NO. | TOTAL SHEETS
7 | KANSAS | I 75 (613-835) | 1999 | 11 | 153
SCALE: 1" = 100'
SCALE: 1" = 50'
NE 1/4 SEC. 4, T27S, R2E
SE 1/4 SEC. 4, T27S, R2E
Regency Park of Wichita Kansas
City Limits
DITCH BL= 1376.15 FL= 1370.26 @ 6X3 RCB
DITCH PLUG FL=1371.6B @445+00 BL=1375.07
FL=1370.7B BL=1373.9D
FL=1371.3B BL=1374.5
FL=1370.1B DT=1374.5
BASELINE PAVEMENT SAG @ 451+00 FL=1369.8B DT=1374.5
DT LOW POINT FL=1368.3B DT=1374.26
FL=1367.1B DT=1375.6
48" RCP FL=1366.9B
FL=1368.72 DT=1376.0
Baseline NS-W Ramp FL=1367.7B DT=1375.1
FL=1368.9B DT=1375.0
FL=1369.5B DT=1374.5
FL=1370.2B
NS-W RAMP
W-NS RAMP
Baseline W-NS Ramp
1/4 Section Line
K-96 W.B. Lanes
K-96 E.B. Lanes
Proposed Improvement
EXST. R/W
Harry B. Brown Jr. & Diana Kitch % Ritchie Dev.
Regency Lakes % Ritchie Dev.
Section Line
Greenwich Road
Lexington Gardens
FL = DITCH FLOW LINE (DESIGN) ELEVATION
BL = CONSTRUCTION BASELINE ELEVATION (DESIGN)
DT = OVERTOPPING ELEVATION (ESTIMATED FROM CROSS SECTIONS)
KANSAS DEPARTMENT OF TRANSPORTATION
CONTOUR MAP
K-96 & GREENWICH INTERCHANGE
PROJECT NO. I 75 (613-835) SEDGWICK CO.
MID-KANSAS ENGINEERING CONSULTANTS, INC.
WICHITA, KANSAS

KDOT Plan Showing Proposed Ditch Plug Elevation

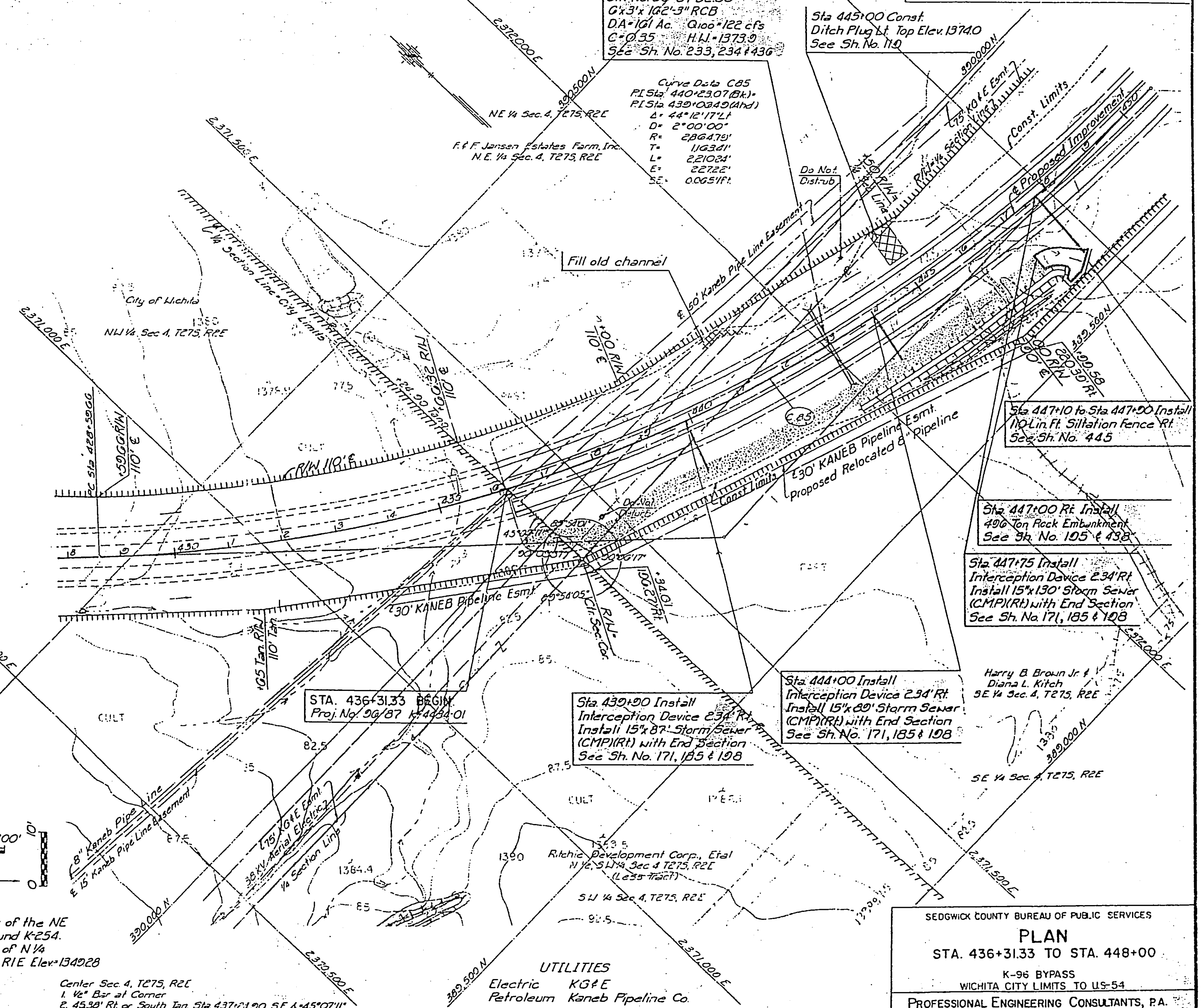
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	90-87 K-4434-01	19??	15	703

d_c		$d_c+\frac{D}{2}$	ELEV
24	.79	2.3	71.3
48	1.26	2.76	71.8
72	1.65	3.15	72.75
96	2.00	3.5	73.10
120	2.32	3.8	73.40
144	2.62	4.1	73.70
168	2.90	4.4	74.10
192	3.17		75.0
216			75.0
240			75.0

P.O.T. Sta 437+84.90 (Tangent)
1. 3/4" Iron Pipe at P.O.T.
2. 40d Nail S. Face HLP 85.18' ESE
3. Nail & Shiner NW Face 12" Elm 62.16' SW
4. 1/2" Rebar at Center Section 4 45.38' S

P.I. Sta 440+23.07
1 3/4" Iron Pipe Capped PEC, P.A. No Ties

P.T. Sta 450+65.90
1. 3/4" Iron Pipe Capped PEC, P.A. No Ties



See Sh. No. 14 for General Notes.

SCALE

PLAN: Lat. & Long. 100' 0 100' 200'
PROFILE: Horiz. same as above
Vert. ______

PROJECT SURVEY CONTROL

Datum Bench Mark: "□" Cut on NW Corner of the NE Abutment of Eastbound K-254. Approximately 500' E of N 1/4 Corner Sec. 27, T26S, R1E Elev=1349.28

Center Sec. 4, T27S, R2E
1. 1/2" Bar at Corner
2. 45.38' Rt. or South Tan. Sta 437+84.90 S.E. Δ=45°07'11"
3. 40d Nail in S Face 9" Elm 46.69' W
4. 60d Nail in Power Pole 86.21' NE
5. 40d Nail top fence post 35.08' S
6. I.P. (Mid Kansas Cap) 22.8' SW

UTILITIES
Electric KG&E
Petroleum Kaneb Pipeline Co.

BM #29A-60d Nail in HLP 84' NE of Center Section 4, T27S, R2E Elev=1381.018

BM #29 B Chis "□" on Concrete Footing of HLP 84' NE of Center Section 4, T27S, R2E, Elev=1379.028

B.M. #30-"U" Shaped Fence Post 10' S. of E-W Fence Line. Approx. 400' E. of ctr. Section 4, T27S, R2E Elev.=1374.60 10' Rt. Sta. 440+75

B.M. #30A-40d Nail in Third Power Pole W. of Greenwich Road. Elev. 1372.89 125' Lt. Sta. 444+00

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES

PLAN

STA. 436+31.33 TO STA. 448+00

K-96 BYPASS
WICHITA CITY LIMITS TO US-54

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by		Checked by	
Drawn by		Date	Job No. 88509

References	Noted	Checked	By	Date

PROFILE
K-96
STA.436+31.33 TO STA.448+00

STA 436+31.33 Begin Project
+31.33
+31.33
+31.33