

INPUT DATA LISTING

CD	L2	MAX Q	ADJ Q	LENGTH	FL 1	FL 2	CTL/TW	D	W	S	KJ	KE	KM	LC	L1	L3	L4	A1	A3	A4	J	N
8	1						187.40															
2	2	36.9	36.9	155.00	185.50	186.00	194.80	30.	0.	3	.00	.00	.00	1	3	0	0	79.	0.	0.	5.00	.024
2	3	36.9	36.9	53.10	186.10	186.30	194.52	30.	0.	3	.00	.00	.00	0	4	8	0	13.	75.	0.	10.00	.024
2	4	24.9	24.9	391.80	186.40	193.10	198.53	30.	0.	3	.00	.00	.00	0	5	9	0	53.	93.	0.	5.00	.024
2	5	19.3	19.3	198.30	193.60	196.50	201.42	24.	0.	3	.00	.00	.00	0	6	10	0	50.	40.	0.	5.00	.024
2	6	13.1	13.1	222.00	196.75	200.50	205.85	21.	0.	3	.00	.00	.00	0	7	11	0	45.	90.	0.	5.00	.024
2	7	6.0	6.0	80.00	200.75	202.20	205.65	18.	0.	1	.00	.00	.00	0	0	0	0	0.	0.	0.	5.00	.024
2	8	5.2	5.2	42.00	189.00	190.00	194.53	15.	0.	1	.00	.00	.00	4	0	0	0	0.	0.	0.	5.00	.024
2	9	1.7	1.7	42.00	193.85	194.40	198.53	15.	0.	1	.00	.00	.00	5	0	0	0	0.	0.	0.	5.00	.024
2	10	1.6	1.6	42.00	197.25	198.10	201.42	15.	0.	1	.00	.00	.00	6	0	0	0	0.	0.	0.	5.00	.024
2	11	2.5	2.5	42.00	201.00	201.80	205.85	15.	0.	1	.00	.00	.00	7	0	0	0	0.	0.	0.	5.00	.024

STORM DRAIN ANALYSIS RESULTS

Line No	Q (cfs)	D (in)	W (in)	Dn (ft)	Dc (ft)	Flow Tvoe	Sf-full (ft/ft)	V 1 (fps)	V 2 (fps)	FL 1 (ft)	FL 2 (ft)	HG 1 Calc	HG 2 Calc	D 1 (ft)	D 2 (ft)	TW Calc	TW LK	
1	Hydraulic grade line control = 187.40																	
2	36.9	30	0	2.50	2.05	Seal	.02758	8.5	7.5	185.50	186.00	187.55	192.07	2.05	6.07	.00	.00	
	X =	8.53	X(N) =	.00														
3	36.9	30	0	2.50	2.05	Full	.02758	7.5	7.5	186.10	186.30	193.49	194.95	7.39	8.65	.00	.00	
4	24.9	30	0	1.78	1.70	Full	.01256	5.1	5.1	186.40	193.10	196.09	201.01	9.69	7.91	.00	.00	
	X =	.00	X(N) =	6.21														
5	19.3	24	0	2.00	1.58	Full	.02481	6.1	6.1	193.60	196.50	201.53	206.45	7.93	9.95	.00	.00	
6	13.1	21	0	1.75	1.35	Full	.02330	5.4	5.4	196.75	200.50	207.37	212.54	10.62	12.04	.00	.00	
7	6.0	18	0	1.00	.94	Full	.01112	3.4	3.4	200.75	202.20	213.47	214.36	12.72	12.16	214.54	205.65	
	X =	.00	X(N) =	3.63														
4	Hydraulic grade line control = 195.52																	
8	5.2	15	0	.99	.92	Full	.02208	4.2	4.2	189.00	190.00	195.52	196.45	6.52	6.45	196.73	194.53	
5	Hydraulic grade line control = 201.27																	
9	1.7	15	0	.57	.52	Full	.00236	1.4	1.4	193.85	194.40	201.27	201.37	7.42	6.97	201.40	198.53	
6	Hydraulic grade line control = 206.91																	
10	1.6	15	0	.49	.50	Full	.00209	1.3	1.3	197.25	198.10	206.91	207.00	9.66	8.90	207.02	201.42	
7	Hydraulic grade line control = 213.01																	
11	2.5	15	0	.64	.63	Full	.00510	2.0	2.0	201.00	201.80	213.01	213.22	12.01	11.42	213.28	205.85	

LIST OF ABBREVIATIONS

- 0 V 1. FL 1. D 1 and HG 1 refer to downstream end
- 0 V 2. FL 2. D 2 and HG 2 refer to uostream end
- 0 X - Distance in feet from downstream end to point where HG intersects soffit in seal condition
- 0 X(N) - Distance in feet from downstream end to point where water surface reaches normal depth by either drawdown or backwater
- 0 X(J) - Distance in feet from downstream end to point where hvdraulic jump occurs in line
- 0 F(J) - The computed force at the hvdraulic jump
- 0 D(BJ) - Depth of water before the hvdraulic jump (uostream side)
- 0 D(AJ) - Depth of water after the hvdraulic jump (downstream side)
- 0 SEAL indicates flow changes from part to full or from full to part
- 0 HJ - indicates that flow changes from supercritical to subcritical through a hvdraulic jump
- 0 HJU indicates that hvdraulic jump occurs at the junction at the uostream end of the line
- 0 HJD indicates that hvdraulic jump occurs at the junction at the downstream end of the line