STORM SEWER COMPUTATIONS

LINE	FROM	TO	DRAINAGE AREA NUMBERS	TOTAL DRAINAGE AREA (ac)	TOTAL CA	LGTH (ft)	TIME OF CONCENTRATION: ALONG SEWER LINE: PREV (min)	L (ft)	V (ft/s)	Tc (min)	INLET TIME (min)	USED IN DES (min)	FREQ (yr)	I (in/hr)	Q (cfs)	DESIGN: PIPE SLOPE (%)	DIA. (ft)	HG (%)	CAP. (cfs)	V (ft/s)	REMARKS
A	CI-2	CI-1	2	0.49	0.44	100.0				0.0	2.0	10.0	5	6.89	3.03	0.80%	18	0.071%	10.18	5.3	
A	CI-1	SET-1	1,2	0.98	0.88	94.0	2.0	100.0	5.3	2.3	2.2	10.0	5	6.89	6.06	4.87%	18	0.284%	25.11	12.2	
B	CI-3	CGI-4	3	0.59	0.48	406.3				0.0	3.7	10.0	5	6.89	3.30	0.91%	18	0.084%	10.86	7.2	
B	CGI-4	MH-1	3,4	1.85	1.52	504.7	3.7	406.3	7.2	4.6	3.5	10.0	5	6.89	10.47	0.55%	24	0.182%	18.18	6.7	
B	MH-1	JCT-1	3,4	1.85	1.52	514.0	4.6	504.7	6.7	5.9		10.0	5	6.89	10.47	0.55%	24	0.182%	18.18	6.7	GRADE BREAK
B	JCT-1	JCT-2	3,4	1.85	1.52	50.2	5.9	514.0	6.7	7.2		10.0	5	6.89	10.47	2.72%	24	0.182%	40.42	12.0	
B	DI-5	JCT-2	5	1.77	1.52	50.8				0.0	5.7	10.0	10	8.01	12.18	5.92%	18	1.146%	27.69	15.2	
B	JCT-2	JCT-3	3-5	3.62	3.04	240.9	7.2	50.2	12.0	7.3		10.0	10	8.01	24.36	2.72%	24	0.988%	40.42	14.2	
B	DI-6	JCT-3	6	0.76	0.66	50.5				0.0	1.8	10.0	10	8.01	5.29	3.56%	18	0.216%	21.47	10.1	
B	JCT-3	CGI-7	3-6	4.38	3.70	159.8	7.3	240.9	14.2	7.5		10.0	10	8.01	29.65	2.72%	24	1.464%	40.42	14.7	
B	CGI-7	JCT-4	3-7	5.42	4.59	558.9	7.5	159.8	14.7	7.7	4.3	10.0	10	8.01	36.79	3.11%	24	2.253%	43.22	16.0	GRADE BREAK
B	JCT-4	JCT-5	3-7	5.42	4.59	3.0	7.7	558.9	16.0	8.3		10.0	10	8.01	36.79	1.30%	36	0.259%	82.39	11.7	
B	CI-8	CGI-9	8	0.42	0.38	179.0				0.0	1.3	10.0	10	8.01	3.05	3.18%	18	0.072%	20.29	8.3	
B	CGI-9	CGI-10	8,9	0.83	0.75	163.0	1.3	179.0	8.3	1.7	1.2	10.0	10	8.01	6.01	1.65%	18	0.279%	14.62	7.9	
B	CGI-10	JCT-6	8-10	1.00	0.90	126.9	1.7	163.0	7.9	2.0	1.2	10.0	10	8.01	7.21	5.60%	18	0.402%	26.93	12.9	GRADE BREAK
B	CI-11	JCT-6	11	0.44	0.40	41.9				0.0	1.5	10.0	10	8.01	3.21	1.00%	18	0.079%	11.38	5.5	
B	JCT-6	JCT-5	8-11	1.44	1.30	65.0	2.0	126.9	12.9	2.2		10.0	10	8.01	10.42	1.66%	18	0.838%	14.66	9.0	
B	JCT-5	CGI-12	3-11	6.86	5.89	171.9	8.3	3.0	11.7	8.3		10.0	10	8.01	47.21	1.30%	36	0.427%	82.39	12.4	
B	CGI-12	CGI-13	3-12	8.40	7.11	269.0	8.3	171.9	12.4	8.5	3.5	10.0	10	8.01	56.98	5.26%	36	0.622%	165.72	21.7	
B	CGI-13	CGI-14	3-13	9.59	8.05	180.0	8.5	269.0	21.7	8.7	5.2	10.0	10	8.01	64.52	3.52%	36	0.797%	135.57	19.3	
B	CGI-14	JCT-7	3-14	10.58	8.79	53.6	8.7	180.0	19.3	8.9	6.0	10.0	10	8.01	70.45	5.13%	36	0.951%	163.66	22.7	
B	DI-15	JCT-7	15	1.70	1.19	23.6				0.0	7.8	10.0	5	6.89	8.19	4.59%	18	0.518%	24.38	12.4	
B	JCT-7	JCT-8	3-15	12.28	9.98	25.6	8.9	53.6	22.7	8.9		10.0	10	8.01	79.98	5.13%	36	1.225%	163.66	23.4	
B	CGI-17	CGI-16	17	0.30	0.27	31.6				0.0	2.5	10.0	5	6.89	1.86	1.58%	18	0.027%	14.30	5.6	
B	CGI-16	JCT-8	16,17	1.21	0.96	93.1	2.5	31.6	5.6	2.6	4.5	10.0	5	6.89	6.61	1.67%	18	0.337%	14.71	8.1	
B	JCT-8	JCT-9	3-17	13.49	10.94	35.4	8.9	25.6	23.4	9.0		10.0	10	8.01	87.68	5.13%	36	1.473%	163.66	23.9	CONNECT TO S-1
C	CI-19	CI-18	19	0.48	0.43	93.3				0.0	2.2	10.0	5	6.89	2.96	0.64%	18	0.068%	9.10	4.8	
C	CI-18	SET-2	19,18	0.97	0.87	62.8	2.2	93.3	4.8	2.5	2.1	10.0	5	6.89	5.99	0.81%	18	0.277%	10.24	6.3	
D	CGI-20	CGI-21	20	0.95	0.86	654.0				0.0	1.3	10.0	5	6.89	5.92	0.29%	24	0.058%	13.20	4.1	
D	CGI-21	CGI-22	20,21	1.29	1.15	649.0	1.3	654.0	4.1	4.0	1.2	10.0	5	6.89	7.92	1.83%	24	0.104%	33.15	8.7	
D	CGI-22	CGI-23	20-22	2.07	1.85	499.0	4.0	649.0	8.7	5.2	3.9	10.0	5	6.89	12.74	3.55%	24	0.270%	46.18	12.6	
D	CGI-23	CGI-24	20-23	2.69	2.39	466.9	5.2	499.0	12.6	5.9	2.5	10.0	5	6.89	16.46	2.53%	24	0.451%	38.98	11.9	
D	CGI-24	JCT-10	20-24	3.26	2.89	68.0	5.9	466.9	11.9	6.5	4.7	10.0	5	6.89	19.90	5.46%	24	0.659%	57.27	16.6	GRADE BREAK
D	JCT-10	JCT-11	20-24	3.26	2.89	3.0	6.5	68.0	16.6	6.6		10.0	5	6.89	19.90	4.52%	30	0.201%	94.47	15.2	
D2	CGI-25	CGI-26	25	0.48	0.43	773.0				0.0	3.6	10.0	10	8.01	3.45	0.43%	18	0.092%	7.46	4.1	
D2	CGI-26	BWI-27	25,26	1.55	1.39	145.0	3.6	773.0	4.1	6.7	5.6	10.0	10	8.01	11.14	1.62%	18	0.958%	14.48	9.0	
D2	BWI-27	BWI-28	25-27	1.81	1.62	104.0	6.7	145.0	9.0	7.0	1.3	10.0	10	8.01	12.98	1.95%	18	1.302%	15.89	10.0	
D2	BWI-28	BWI-29	25-28	2.02	1.81	114.0	7.0	104.0	10.0	7.2	1.3	10.0	10	8.01	14.51	2.24%	18	1.625%	17.03	10.8	
D2	BWI-29	BWI-30	25-29	2.23	2.00	123.0	7.2	114.0	10.8	7.3	1.2	10.0	10	8.01	16.03	2.55%	18	1.984%	18.17	11.6	
D2	BWI-30	BWI-31	25-30	2.44	2.19	114.0	7.3	123.0	11.6	7.5	1.2	10.0	10	8.01	17.55	2.87%	18	2.379%	19.28	12.4	
D2	BWI-31	BWI-32	25-31	2.65	2.38	101.0	7.5	114.0	12.4	7.7	1.3	10.0	10	8.01	19.07	3.15%	18	2.810%	20.20	13.0	
D2	BWI-32	BWI-33	25-32	2.86	2.57	104.0	7.7	101.0	13.0	7.8	1.3	10.0	10	8.01	20.60	3.42%	24	0.706%	45.32	14.1	
D2	BWI-33	BWI-34	25-33	3.08	2.77	104.0	7.8	104.0	14.1	7.9	1.2	10.0	10	8.01	22.20	3.53%	24	0.821%	46.05	14.5	
D2	BWI-34	BWI-35	25-34	3.29	2.96	112.0	7.9	104.0	14.5	8.0	1.2	10.0	10	8.01	23.72	3.54%	24	0.937%	46.11	14.8	
D2	BWI-35	BWI-36	25-35	3.52	3.17	124.0	8.0	112.0	14.8	8.2	1.3	10.0	10	8.01	25.41	3.52%	24	1.075%	45.98	15.0	
D2	BWI-36	BWI-37	25-36	3.78	3.40	114.5	8.2	124.0	15.0	8.3	1.3	10.0	10	8.01	27.25	3.57%	24	1.236%	46.31	15.3	
D2	BWI-37	BWI-38	25-37	4.00	3.60	92.0	8.3	114.5	15.3	8.4	1.5	10.0	10	8.01	28.85	3.24%	24	1.386%	44.11	15.0	
D2	BWI-38	CGI-39	25-38	4.18	3.76	87.0	8.4	92.0	15.0	8.5	1.5	10.0	10	8.01	30.13	2.75%	24	1.512%	40.64	14.2	
D2	CGI-39	JCT-11	25-39	4.41	3.97	63.3	8.5	87.0	14.2	8.6	1.6	10.0	10	8.01	31.82	5.64%	24	1.686%	58.20	18.9	
D	JCT-11	JCT-12	20-39	7.67	6.86	252.0	8.6	63.3	18.9	8.7		10.0	10	8.01	54.98	4.52%	30	1.531%	94.47	20.0	CONNECT TO S-1

STORM SEWER COMPUTATIONS

SHEET 1 OF 4

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6		

STATE	STATE DIST. NO.	COUNTY
TEXAS	DAL	DALLAS

CONTROL	SECTION	JOB	HIGHWAY NO.
			IH-30