

INLET CALCULATIONS

INLET NO.	LOCATION	DESIGN STORM FREQ. (YRS.)	TIME OF CONC. (MIN.)	INTENSITY "1-100" (INCHES/HOUR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	"Q-100" FOR AREA (CFS)	CARRY-OVER FROM UPSTREAM (CFS)	TOTAL GUTTER FLOW (CFS)	GUTTER CAPACITY ONE DRY LANE (CFS)	GUTTER SLOPE (FT/FT)	STREET CROSS SLOPE (FT/FT)	ACTUAL GUTTER FLOW DEPTH (FT)	CAPACITY PER FOOT OF INLET (FT)	REQUIRED LENGTH OF INLET (FT)	SELECTED LENGTH OF INLET (FT)	TYPE	CARRY-OVER TO DOWNSTREAM (CFS)	
LINE "A" - QUORUM DRIVE & ADDISON CIRCLE																			
A-3	BLDG. "A"	100	10.00	8.74	0.90	0.65	5.11	0.00	5.11	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
A-4	BLDG. "A"	100	10.00	8.74	0.90	0.69	5.43	0.00	5.43	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
A-5	QUORUM DRIVE	100	10.00	8.74	0.90	0.71	5.58	0.00	5.58	9.32	0.0070	0.0208	0.30	0.51	11	12'	STD	0.00	
A-6	ROUNDABOUT	100	10.00	8.74	0.90	0.21	1.65	0.00	1.65	9.32	0.0070	0.0208	0.19	0.50	3	3 GRATE	COMB	0.00	
A-7	PARK	100	10.00	8.74	0.50	0.96	4.20	0.00	4.20	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
A-8	BLDG. "C"	100	10.00	8.74	0.90	0.64	5.03	0.00	5.03	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
A-9	QUORUM DRIVE	100	10.00	8.74	0.90	0.38	2.99	0.00	2.99	12.45	0.0125	0.0208	0.22	0.52	6	10'	REC	0.00	
A-10	SWALE	100	10.00	8.74	0.90	1.15	9.05	0.00	9.05	NA	NA	NA	NA	NA	NA	21" STUB	NA	NA	
A-11	FUTURE	100	10.00	8.74	0.90	6.30	49.56	0.00	49.56	NA	NA	NA	NA	NA	NA	FUT. PIPE	NA	NA	
LINE "B" - ADDISON CIRCLE																			
B-1	ADDISON CIRCLE	100	10.00	8.74	0.90	0.40	3.15	0.00	3.15	5.76	0.0242	PAR.	NA	NA	4	10'	REC	0.00	
B-2	BLDG. "B"	100	10.00	8.74	0.90	0.16	1.26	0.00	1.26	NA	NA	NA	NA	NA	NA	18" STUB	NA	0.00	
B-3	ADDISON CIRCLE	100	10.00	8.74	0.90	0.34	2.67	0.00	2.67	5.76	0.0242	PAR.	NA	NA	5	10'	REC	0.00	
B-4	ADDISON CIRCLE	100	10.00	8.74	0.90	0.33	2.60	0.00	2.60	2.62	0.0050	PAR.	NA	NA	NA	EX. 10'	STD	0.00	
B-5	ADDISON CIRCLE	100	10.00	8.74	0.90	0.32	2.52	0.00	2.52	2.62	0.0050	PAR.	NA	NA	5	EX. 10'	STD	0.00	
B-6	ADDISON CIRCLE	100	10.00	8.74	0.90	0.50	3.93	0.00	3.93	NA	NA	NA	NA	NA	5	EX. 18" ST	STD	0.00	
B-7	ADDISON CIRCLE	100	10.00	8.74	0.90	0.14	1.10	0.00	1.10	2.62	0.0050	PAR.	NA	NA	NA	EX. 10'	NA	0.00	
B-8	ADDISON CIRCLE	100	10.00	8.74	0.90	0.14	1.10	0.00	1.10	2.62	0.0050	PAR.	NA	NA	4	EX. 10'	STD	0.00	
B-9	ADDISON CIRCLE	100	10.00	8.74	0.90	1.29	10.15	0.00	10.15	NA	NA	NA	NA	NA	4	EX. 21" ST	STD	0.00	
B-10	ROUNDABOUT	100	10.00	8.74	0.90	0.21	1.65	0.00	1.65	7.88	0.0050	0.0208	0.21	0.51	3	3 GRATE	COMB.	0.00	
B-11	ROUNDABOUT	100	10.00	8.74	0.90	0.30	2.36	0.00	2.36	7.88	0.0050	0.0208	0.24	0.53	4	3 GRATE	COMB.	0.00	
B-12.1	ROUNDABOUT	100	10.00	8.74	0.90	0.31	2.44	0.00	2.44	7.88	0.0050	0.0208	0.24	0.54	5	3 GRATE	COMB.	0.00	
LINE "C" - QUORUM DRIVE																			
C-1	QUORUM DRIVE	100	10.00	8.74	0.90	0.59	4.64	0.00	4.64	8.63	0.0060	0.0208	0.29	0.48	10	10'	REC	0.00	
C-3	FUTURE	100	10.00	8.74	0.90	4.71	37.05	0.00	37.05	NA	NA	NA	NA	NA	NA	30" STUB	NA	0.00	
LINE "D" - QUORUM DRIVE																			
D-1	QUORUM DRIVE	100	10.00	8.74	0.90	0.61	4.80	0.00	4.80	9.84	0.0078	0.0208	0.28	0.45	10	10'	REC	0.00	
D-2	QUORUM DRIVE	100	10.00	8.74	0.90	0.49	3.85	0.00	3.85	9.84	0.0078	0.0208	0.26	0.56	7	EX. 10'	REC	0.00	
D-3	QUORUM DRIVE	100	10.00	8.74	0.90	0.54	4.25	0.00	4.25	10.45	0.0088	0.0208	0.26	0.56	8	EX. 10'	REC	0.00	
LINE "E" - MORRIS AVENUE																			
E-1	MORRIS AVENUE	100	10.00	8.74	0.90	0.21	1.65	0.00	1.65	4.23	0.0100	PAR.	NA	NA	4	6'	REC	0.00	
E-2	MORRIS AVENUE	100	10.00	8.74	0.90	0.53	4.17	0.00	4.17	4.23	0.0100	PAR.	NA	NA	7	8'	REC	0.00	
E3 & E10	BLDG. "B"	100	10.00	8.74	0.90	1.40	11.01	0.00	11.01	NA	NA	NA	NA	NA	NA	21" STUB	NA	0.00	
E-4	MORRIS AVENUE	100	10.00	8.74	0.90	0.49	3.85	0.00	3.85	4.23	0.0100	PAR.	NA	NA	7	8'	REC	0.00	
E-5	MORRIS AVENUE	100	10.00	8.74	0.90	0.26	2.05	0.00	2.05	4.23	0.0100	PAR.	NA	NA	6	6'	REC	0.00	
E6 & F8	SWALE	100	10.00	8.74	0.90	1.18	9.28	0.00	9.28	NA	NA	NA	NA	NA	NA	21" STUB	NA	0.00	
E-7	FUTURE	100	10.00	8.74	0.90	0.53	4.17	0.00	4.17	NA	NA	NA	NA	NA	NA	5' X 5'	DROP	0.00	
E-8	PARKING LOT	100	10.00	8.74	0.90	3.24	25.49	0.00	25.49	NA	NA	NA	NA	NA	NA	14'	STD	0.00	
E-9	GARAGE "B"	100	10.00	8.74	0.90	0.57	4.48	0.00	4.48	NA	NA	NA	NA	NA	NA	18" STUB	NA	0.00	
E-11	OFFSITE	100	10.00	8.74	0.90	0.35	2.75	0.00	2.75	NA	NA	NA	NA	NA	NA	5' X 5'	DROP	0.00	
LINE "F" - GOODMAN AVENUE																			
F-1	GOODMAN AVENUE	100	10.00	8.74	0.90	0.11	0.87	0.00	0.87	4.23	0.0100	NA	NA	NA	2	6'	REC	0.00	
F-2	GOODMAN AVENUE	100	10.00	8.74	0.90	0.31	2.44	0.00	2.44	4.23	0.0100	NA	NA	NA	5	6'	REC	0.00	
F-3	BLDG. "C"	100	10.00	8.74	0.90	0.64	5.03	0.00	5.03	NA	NA	NA	NA	NA	NA	21" STUB	NA	0.00	
F-4	FUTURE	100	10.00	8.74	0.90	1.15	9.05	0.00	9.05	NA	NA	NA	NA	NA	NA	21" STUB	NA	0.00	
F-5	GOODMAN AVENUE	100	10.00	8.74	0.90	0.51	4.01	0.00	4.01	4.23	0.0100	NA	NA	NA	7	8'	REC	0.00	
F6 & K7	FUTURE	100	10.00	8.74	0.50	2.54	11.10	0.00	11.10	NA	NA	NA	NA	NA	NA	24" STUB	NA	0.00	
F-7	GOODMAN AVENUE	100	10.00	8.74	0.90	0.42	3.30	0.00	3.30	4.23	0.0100	NA	NA	NA	6.00	8'	REC	0.00	
F-8	FUTURE	100	10.00	8.74	0.90	0.59	4.64	0.00	4.64	NA	NA	NA	NA	NA	NA	21" STUB	NA	0.00	
F-9	PARK	100	10.00	8.74	0.50	0.79	3.45	0.00	3.45	NA	NA	NA	NA	NA	NA	21" STUB	NA	0.00	
F-10	FUTURE	100	10.00	8.74	0.90	0.29	2.28	0.00	2.28	4.23	0.0100	NA	NA	NA	4.00	FUT. 6'	REC	0.00	
F-11	GARAGE "C"	100	10.00	8.74	0.90	0.63	4.96	0.00	4.96	NA	NA	NA	NA	NA	NA	18" STUB	NA	0.00	
LINE "G" - QUORUM DRIVE																			
G-1	QUORUM DRIVE	100	10.00	8.74	0.90	0.74	5.82	0.00	5.82	7.04	0.0040	0.0208	0.34	0.61	10	EX. 2 - 10'	REC	0.00	

STORM WATER RUNOFF CALCULATIONS

AREA NO.	Tc (MIN.)	INTENSITY "1-100" (IN./HR)	RUNOFF COEFF. "C"	AREA "A" (ACRES)	STORM RUNOFF "Q-100"
A-3	10.00	8.74	0.90	0.65	5.11
A-4	10.00	8.74	0.90	0.69	5.43
A-5	10.00	8.74	0.90	0.71	5.58
A-6	10.00	8.74	0.90	0.21	1.65
A-7	10.00	8.74	0.50	0.96	4.20
A-8	10.00	8.74	0.90	0.64	5.03
A-9	10.00	8.74	0.90	0.38	2.99
A-10	10.00	8.74	0.90	1.15	9.05
A-11	10.00	8.74	0.90	6.30	49.56
B-1	10.00	8.74	0.90	0.40	3.15
B-2	10.00	8.74	0.90	0.16	1.26
B-3	10.00	8.74	0.90	0.34	2.67
B-4	10.00	8.74	0.90	0.33	2.60
B-5	10.00	8.74	0.90	0.32	2.52
B-6	10.00	8.74	0.90	0.50	3.93
B-7	10.00	8.74	0.90	0.14	1.10
B-8	10.00	8.74	0.90	0.14	1.10
B-9	10.00	8.74	0.90	1.29	10.15
B-10	10.00	8.74	0.90	0.21	1.65
B-11	10.00	8.74	0.90	0.30	2.36
B-12.1	10.00	8.74	0.90	0.31	2.44
C-1	10.00	8.74	0.90	0.59	4.64
C-3	10.00	8.74	0.90	4.71	37.05
D-1	10.00	8.74	0.90	0.61	4.80
D-2	10.00	8.74	0.90	0.49	3.85
D-3	10.00	8.74	0.90	0.54	4.25
E-1	10.00	8.74	0.90	0.21	1.65
E-2	10.00	8.74	0.90	0.53	4.17
E-3	10.00	8.74	0.90	1.40	11.01
E-4	10.00	8.74	0.90	0.49	3.85
E-5	10.00	8.74	0.90	0.26	2.05
E-6	10.00	8.74	0.90	1.18	9.28
E-7	10.00	8.74	0.90	0.53	4.17
E-8	10.00	8.74	0.90	3.24	25.49
E-9	10.00	8.74	0.90	0.57	4.48
E-11	10.00	8.74	0.90	0.35	2.75
F-1	10.00	8.74	0.90	0.11	0.87
F-2	10.00	8.74	0.90	0.31	2.44
F-3	10.00	8.74	0.90	0.64	5.03
F-4	10.00	8.74	0.90	1.15	9.05
F-5	10.00	8.74	0.90	0.51	4.01
F-6	10.00	8.74	0.90	2.54	11.10
F-7	10.00	8.74	0.90	0.42	3.30
F-8	10.00	8.74	0.90	0.59	4.64
F-9	10.00	8.74	0.50	0.79	3.45
F-10	10.00	8.74	0.90	0.29	2.28
F-11	10.00	8.74	0.90	0.63	4.96
G-1	10.00	8.74	0.90	0.74	5.82

ISSUED FOR CONSTRUCTION
MARCH 28, 1996

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY
KENNETH A. ROBERTS, P.E. 55446
ON MARCH 28, 1996.

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STORM WATER CALCULATIONS
INLET & RUNOFF CALCULATIONS
ADDISON CIRCLE
PHASE I PUBLIC INFRASTRUCTURE
TOWN OF ADDISON, TEXAS

Huitt-Zollars, Inc./Engineering/Architecture
Dallas, Fort Worth, Houston, El Paso, Phoenix, Tulsa, Ontario, San Clemente

DESIGN	DRAWN	APPR.	SCALE	DATE	PROJECT NO.	NO.
HZI	HZI	KAR	N.T.S.	JAN 96	1822-04	61

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