

DRAINAGE AREA DATA (Tc=10 MIN)

AREA #	AREA	C	TC	I100	Q100	COMMENTS
1	0.20 AC	0.90	10 MIN	8.74 IN/HR	1.6 CFS	TO EX INLET
2	1.22 AC	0.90	10 MIN	8.74 IN/HR	9.6 CFS	TO INLET A1
3	0.32 AC	0.90	10 MIN	8.74 IN/HR	2.5 CFS	TO INLET B2
4	0.31 AC	0.90	10 MIN	8.74 IN/HR	2.4 CFS	TO INLET B1
5	0.18 AC	0.90	10 MIN	8.74 IN/HR	1.4 CFS	TO INLET A2
6	0.69 AC	0.90	10 MIN	8.74 IN/HR	5.4 CFS	TO INLET A3
7	0.33 AC	0.90	10 MIN	8.74 IN/HR	2.6 CFS	TO INLET C1
8	0.12 AC	0.90	10 MIN	8.74 IN/HR	1.0 CFS	TO EX INLET

INLET DESIGN CHART

NO.	LOCATION	DESIGN STORM FREQ. (YRS.)	TIME OF CONC. (MIN.)	INTENSITY (IN/HR)	RUNOFF COEFF. ("C")	AREA RUNOFF Q = CIA		CARRY-OVER FROM UPSTREAM INLET (CFS)	TOTAL FLOW (CFS)	GUTTER CAPACITY (CFS)	STREET SLOPE (FT/100 FT)	CROWN TYPE	SELECTED INLET LENGTH "L" (FEET)	TYPE	CARRY-OVER TO DOWNSTREAM INLET (CFS)	INLET CAPACITY (CFS)
						AREA (AC)	"Q" (CFS)									
A1	4+25 MERIDIAN LANE	100	10	8.74	0.90	1.22	9.6	—	9.6	24.0	SAG	2% CROSS	10	Std	0	21.2
A2	0+84.35 WHISPER LANE	100	10	8.74	0.90	0.18	1.4	—	—	—	—	—	2'x2'	Drop	—	7.0
A3	4+88.82 WHISPER LANE	100	10	8.74	0.90	0.69	5.4	—	—	—	—	—	2'x2'	Drop	—	7.0
B1	0+76.47 ALLEY C-2	100	10	8.74	0.90	0.31	2.4	0.6	3.0	24.0	SAG	2% CROSS	10	Std	0	21.2
B2	0+43.02 ALLEY C-1	100	10	8.74	0.90	0.32	2.5	—	2.5	25.7	2.33%	6" INVERT	—	2 Grate	0.6	1.9
C1	1+72.32 MERIDIAN LANE	100	10	8.74	0.90	0.33	2.6	—	—	—	—	—	2'x2'	Drop	—	7.0

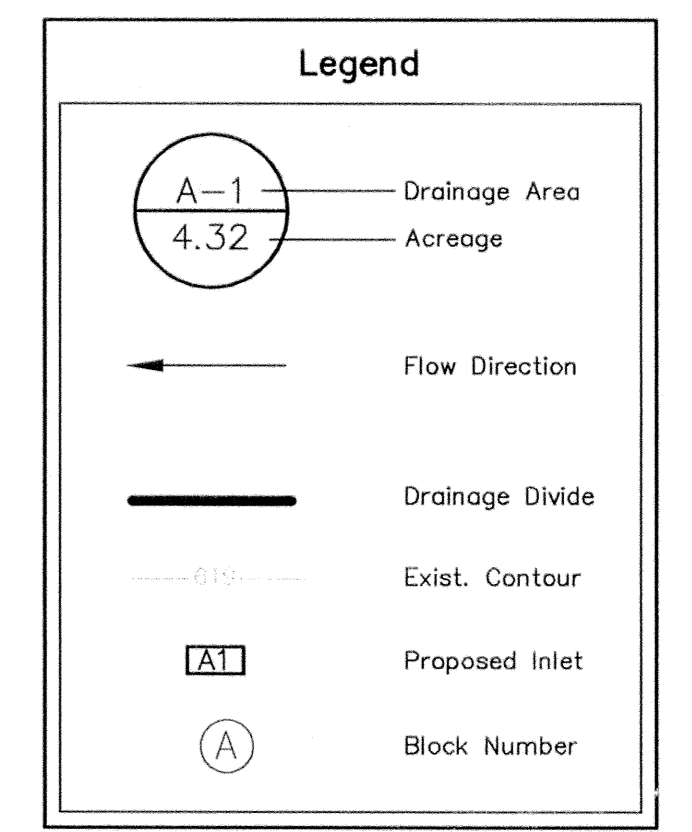
STREET CAPACITY CALCULATIONS

C = 0.90
 I₁₀₀ = 8.74 IN/HR
 23" B-B PVMT (2% CROSS)
 Q = 170*√S

ALLEY CAPACITY CALCULATIONS

C = 0.90
 I₁₀₀ = 8.74 IN/HR
 24" B-B PVMT (8" INVERT)
 Q = 180*√S

C = 0.90
 I₁₀₀ = 8.74 IN/HR
 20" B-B PVMT (6" INVERT)
 Q = 168.4*√S

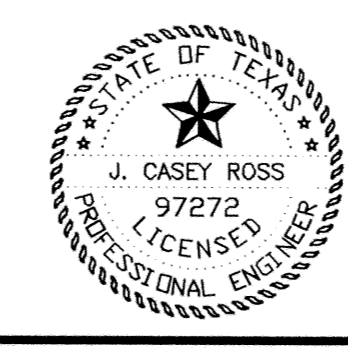


COMPARISON OF FLOW

PROPOSED STORM LINE	CALCULATED "Q" (CFS) IN PROPOSED PIPE DESIGN	EXISTING STORM LINE	CALCULATED CAPACITY OF "Q" (CFS) FOR THE EXIST. PIPE BEING CONNECTED TO
A	16.4	LAT 1	17.6
B	4.9	LAT 2	6.0
C	2.6	LAT 3	4.0

RECORD DRAWINGS Sept. 30, 2009
 NOTE: THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE IMPROVEMENTS ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE LINES AND GRADES WERE SET ON THE GROUND FOR CONSTRUCTION ACCORDING TO SAID PLANS. WE ARE NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED ON THE PLANS.

THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF J. CASEY ROSS, LICENSED PROFESSIONAL ENGINEER NO. 97272.
J. Casey Ross 9/30/09



REVISION

NO.	DATE	BY	REVISION
1	4/08/08	JCR	REVISED ALL TOWNHOME LOT LINES

DRAINAGE AREA MAP
MERIDIAN SQUARE
 TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

DOWDEY, ANDERSON & ASSOCIATES, INC.
 5225 Village Creek Drive, Suite 200 Plano, Texas 75093 972-931-0694

DESIGN	DRAWN	CHECKED	DATE	SCALE	JOB	SHEET
CH	CH	JCR	11/20/2008	1"=40'	07031B	1

BENCHMARKS:
 1. SQUARE CUT AT THE BACK OF CURB ON THE CENTER OF A CONCRETE INLET LOCATED ON THE EAST SIDE OF QUORUM PARKWAY APPROXIMATELY ±65' SOUTH OF THE CENTERLINE INTERSECTION OF QUORUM PARKWAY AND AIRPORT PARKWAY.
 ELEVATION = 630.71'

2. SQUARE CUT ON THE NORTHWEST CORNER OF A CONCRETE INLET LOCATED ON THE NORTH SIDE OF AIRPORT PARKWAY AT THE CENTERLINE INTERSECTION OF AIRPORT PARKWAY AND SPECTRUM DRIVE.
 ELEVATION = 619.31'