

EXISTING STORM SEWER CALCULATIONS

Storm Sewer/ Lateral Number	Runoff Collection Point		Distance Between Collection Points	Area. No.	Incremental Drainage Area				Time of Concentration (MIN.)			Design Storm Freq. (Yrs.)	Intensity (I) (In./Hr.)	Runoff (Q) (c.f.s.)	Actual Q from Inlet (c.f.s.)	Slope of Hydraulic Gradient (Ft./Ft.)	No of Pipes/ Boxes	Selected Storm Sewer Pipe Size	Box Width (Ft.)	Box Depth (Ft.)	Cor. Clip (In.)	Velocity Between Points (f.p.s.)	Upstream Minor Losses			Flow Time Distance/ (Vel ⁶⁰) (Min.)	Time at Downstream Station (Min.)	Remarks
	Upstream Station	Downstream Station			Drainage Area (Ac.)	Runoff Coeff. "C"	Increm- ental "CA"	Accum- ulated "CA"	Inlet Time (MIN.)	Along Sewer Line (MIN.)	Used in Design (MIN.)												Upstream Point of Turbulence	Head Loss Coeff. "K"	Velocity Head Loss (Feet)			
EXIST. BOYDSTUN	270.00	0.00	270.00	OS 1	5.96	0.70	4.17	4.17	15.00	0.00	15.00	100	9.00	37.55		0.0196	1	27.0				9.44			0.48	15.48	EXIST. BOYDSTON STORM SEW FROM POST OFFICE TO FANNIN	
ST. MARY POND	345.00	168.00	177.00	OS 2	9.77	0.50	4.89	4.89	20.00	0.00	20.00	100	8.20	40.06		0.0032	2	30.0				4.08	60 Degree Wye	0.60	0.26	0.72	20.72	
	168.00	0.00	168.00	A1-A11; B1-B7; OS 1 - OS 3	32.18	0.66	21.24	26.12	20.00	0.72	20.72	100	8.15	212.91		0.0055	2	48.0				8.47			0.33	21.05		

This record drawing is a compilation of the sealed engineering drawing for this project, modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer cannot be verified for accuracy or completeness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Conway, L.L.P.

BY MH DATE 4/25/09

THESE DOCUMENTS ARE FOR
BIDDING, CONSTRUCTION,
AND PERMIT PURPOSES.

DATE: 4/19/06



CITY OF ROCKWALL, TEXAS		
FANNIN STREET PROPOSED STORM SEWER CALCULATIONS		
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: <u>M.H.</u>	PROJECT: <u>2005-111</u>	SHEET NO. <u>47</u>
DRAWN BY: <u>J.M.</u>	DATE: <u>APRIL, 2006</u>	