WinStorm (STORM DRAIN DESIGN) Version 3.05, Jan. 25, 2002
Run @ 5/28/2008 10:58:13 AM

PROJECT NAME : SYSTEM LAT D6
JOB NUMBER :
PROJECT DESCRIPTION :
ANALYSYS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR ANALYSYS FREQUENCY of: 100 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
D-6	0.9	0.93	10.00	10.00	9.80	0.000	8.205

Cumulative Junction Discharge Computations

Node I.D.	Node Type	Weighted C-Value	Cumulat. Dr. Area (acres)	Cumulat. Tc (min)	Intens. (in/hr)	User Supply Q cfs)	Additional Q in Node (cfs)	Total Disch. (cfs)
D-6	Curb	0.900	0.93	10.00	9.80	0.000	0.00	8.205
OUT	Outlt	0.900	0.93	10.00	9.80	0.000	0.00	8.205

Conveyance Configuration Data

Run#	Node US	Node DS	Flowline Elev. US (ft)	Flowline Elev. DS (ft)	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n_value
1	D-6	OUT	500.70	494.07	Circ 1	0.00	1.50	56.50	11.82	0.013

Conveyance Hydraulic Computations. Tailwater = 496.820 (ft)

Run#	Hydraulic Gradeline US Elev (ft)	Hydraulic Gradeline DS Elev (ft)	Fr. Slope (%)	Depth Unif. (ft)	Depth Actual (ft)	Velocity Unif. (f/s)	Velocity Actual (f/s)	Q (cfs)	Cap (cfs)	Junc Loss (ft)
1*	502.20	496.82	0.610	0.49	1.50	16.56	4.64	8.21	36.11	0.390

END

* Super critical flow.

WinStorm (STORM DRAIN DESIGN) Version 3.05, Jan. 25, 2002
Run @ 5/28/2008 10:59:08 AM

PROJECT NAME : SYSTEM D LAT D12
JOB NUMBER :
PROJECT DESCRIPTION :
ANALYSYS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR ANALYSYS FREQUENCY of: 100 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
D-12	0.597	2.03	10.00	10.00	9.80	0.000	11.872
	0.9	0.91	Pavement				
	0.35	1.12	Undeveloped				

Cumulative Junction Discharge Computations

Node I.D.	Node Type	Weighted C-Value	Cumulat. Dr. Area (acres)	Cumulat. Tc (min)	Intens. (in/hr)	User Supply Q cfs)	Additional Q in Node (cfs)	Total Disch. (cfs)
D-12	Curb	0.597	2.03	10.00	9.80	0.000	0.00	11.872
OUT	Outlt	0.597	2.03	10.00	9.80	0.000	0.00	11.872

Conveyance Configuration Data

Run#	Node US	Node DS	Flowline Elev. US (ft)	Flowline Elev. DS (ft)	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n_value
1	D-12	OUT	498.00	494.00	Circ 1	0.00	1.50	28.89	13.98	0.013

Conveyance Hydraulic Computations. Tailwater = 496.820 (ft)

Run#	Hydraulic Gradeline US Elev (ft)	Hydraulic Gradeline DS Elev (ft)	Fr. Slope (%)	Depth Unif. (ft)	Depth Actual (ft)	Velocity Unif. (f/s)	Velocity Actual (f/s)	Q (cfs)	Cap (cfs)	Junc Loss (ft)
1*	500.15	496.82	1.277	0.57	1.50	19.44	6.72	11.87	39.28	0.840

END

* Super critical flow.

COMPUTATION SHEETS

- ALL COMPUTATIONS ARE BASED ON EXISTING WATERSHED CONDITIONS.
- TIME OF CONCENTRATION IS DETERMINED ACCORDING TO CITY OF ROCKWALL CRITERIA.

RECORD DRAWING

This drawing is a compilation of the original sealed engineering drawing and modifications by addenda, change orders and information furnished by the contractor. Information shown that was provided by the contractor and others not associated with the design engineer cannot be verified for accuracy or completeness. Original sealed drawing is on file at the office of AECOM USA Group, Inc., TBPE REG. NO. F-3082

ORIGINAL DRAWING SEALED & SIGNED BY
T.H. Gaertner, P.E.
TX NO. 37124

NO.	REVISION	BY	DATE

City of Rockwall, Texas

205 BYPASS
PHASE 2

HYDRAULIC DATA
SYSTEM D - 100-YR FLOWS

2 OF 2

TCB | AECOM
TCB INC.
WWW.TCB.AECOM.COM
17300 DALLAS PARKWAY, SUITE 1010
DALLAS, TEXAS 75248

Unit PW-DAL-FW	Scales Horiz AS SHOWN Vert: AS SHOWN	Date 11/23/2009	
Designed SDB	Checked TCB	Project No. 60004153	
Drawn EG	Approved TCB	Sheet 53 of 142	

P:\4328\60004153-205Bypass\CADD\Sheets\Phase 2- SH 66 To 120+00\Record Drawing 10_7_09\05I_05Hydraulicdata-01.dgn
11/23/2009