

PROJECT NAME : SYSTEM E
JOB NUMBER :
PROJECT DESCRIPTION :
ANALYSIS FREQUENCY : 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR ANALYSIS FREQUENCY of: 100 Years

Runoff Computation for Design Frequency.

Table with columns: ID, C Value, Area (acre), Tc (min), Tc Used (min), Intensity (in/hr), Supply Q (cfs), Total Q (cfs). Rows include E-3 through E-19 and OSE1 through OSE7.

Cumulative Junction Discharge Computations

Table with columns: 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). Rows include m1 through m19 and E-3 through E-19.

Table with columns: Node I.D., Flowline Elev. US (ft), Flowline Elev. DS (ft), Shape #, Span (ft), Rise (ft), Length (ft), Slope (%), n-value. Rows include m20, m21, bend1, bend2, and OUT.

Table with columns: Run#, Node I.D., Flowline Elev. US (ft), Flowline Elev. DS (ft), Shape #, Span (ft), Rise (ft), Length (ft), Slope (%), n-value. Rows include m1 through m19, E-3 through E-19, and OSE1 through OSE7.

Conveyance Hydraulic Computations. Tailwater = 512.000 (ft)

Table with columns: Run#, US Elev (ft), 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). Rows include 2 through 49 and 1\*.

\* Super critical flow.

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.

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

COMPUTATION SHEETS

- ALL COMPUTATIONS ARE BASED ON EXISTING WATERSHED CONDITIONS.

- TIME OF CONCENTRATION IS DETERMINED ACCORDING TO CITY OF ROCKWALL CRITERIA.

City of Rockwall, Texas
205 BYPASS PHASE 2
HYDRAULIC DATA
STORM SYSTEM E-100 YR FLOWS
TCB AECOM
Unit: PW-DAL-FW, Scale: Horiz AS SHOWN, Vert AS SHOWN, Date: 11/23/2009, Project No.: 60004153, Sheet: 55 of 142