MERCED STORM DRAIN DESIGN

PROJECT _____

SHEET B

PAGE _____ OF _____

DATE _____

CALC. BY _____

CK'D. BY _____

CONDUIT							FLOW IN CONDUIT										
							FULL AT INVERT SLOPE		DESIGN CONDITION				HEAD LOSS			GRADE LINE EL.	
LOCATION	TYPE STRUCTURE	PIPE DIAM.	LENGTH	INVERT	INVERT ELEV.	APPROX SURFACE	CAPACITY Q_f	VELOCITY V_f Q/A	DEPTH of FLOW d	VELOCITY V = Q/A	VEL H $h_v = V^2/2g$	SLOPE OF ENERGY GRADIENT	FRICTION h_f	SHOCK OR FORM COEF. K	SHOCK OR FORM Δ h	ENERGY	WATER SURFACE
		(in.)	(ft.)	(S_0)	(ft.)	(ft.)	(c.f.s)	(f.p.s)	(ft.)	(f.p.s)	(ft.)	(S_e)	(ft)		(ft)	(ft)	(ft)

DEPARTMENT OF PUBLIC WORKS

CITY OF MERCED, CALIF.

STORM DRAIN DESIGN SHEET - B

DRAWN: K.E.

ENG.

REVISED 8-5-91

APPROVED BY: Steven M. Atwood

PUBLIC WORKS DIRECTOR

DATE 11-7-80

SHEET SD-29 OF