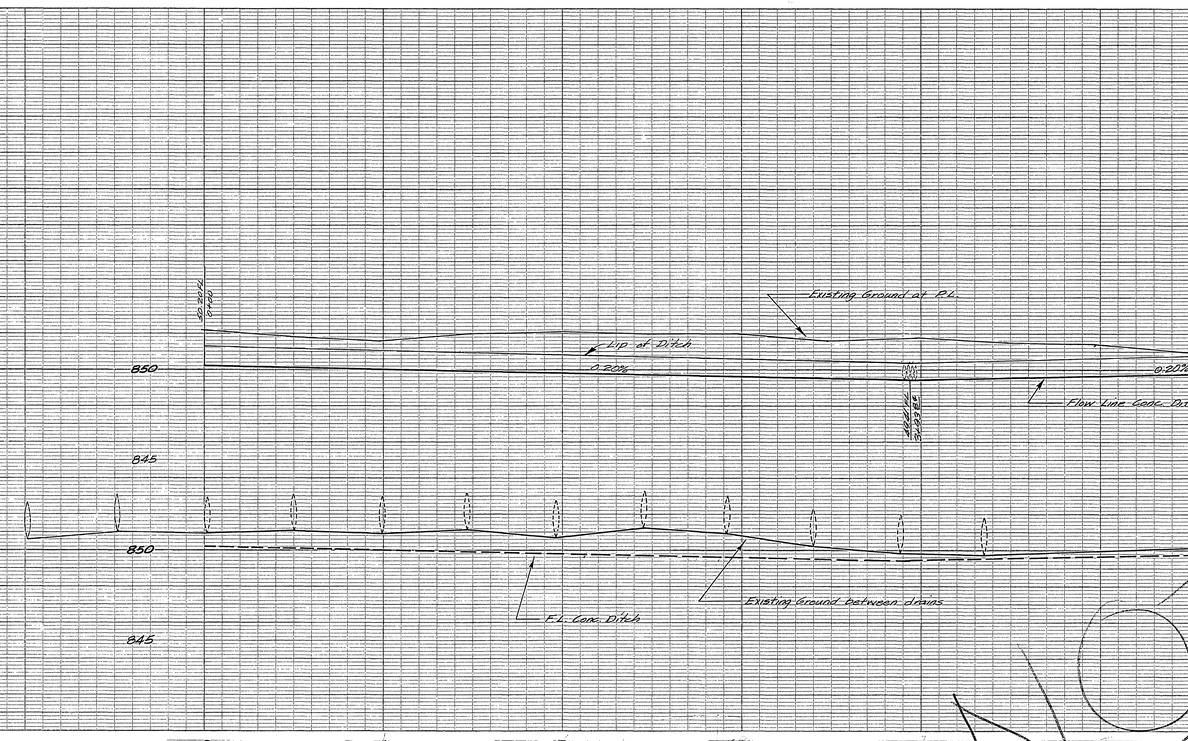
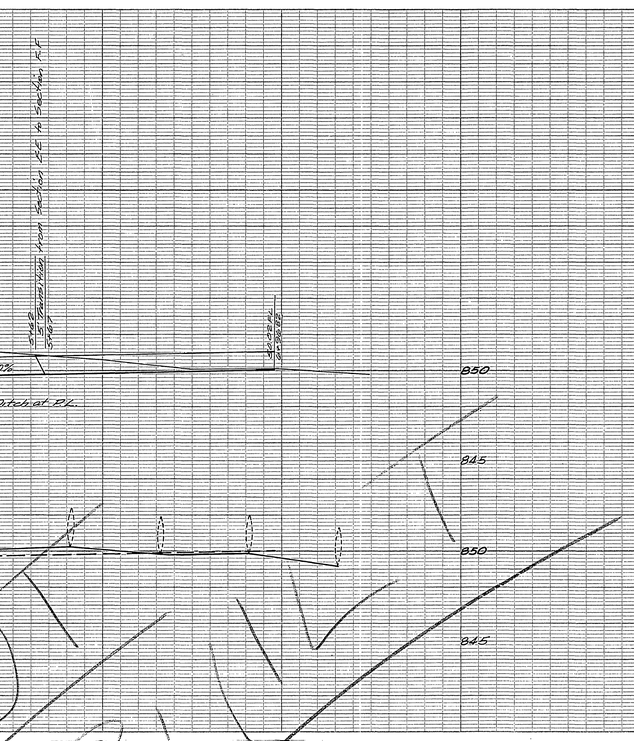
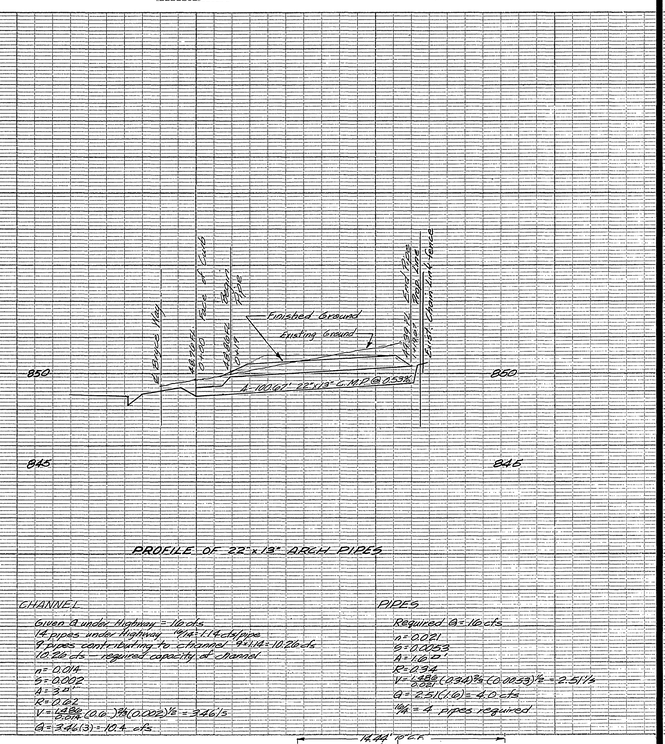
PRINTED IN U.S.A. ENGENE DIETZGEN CO. DIETZGEN PERFECT-PROFILE







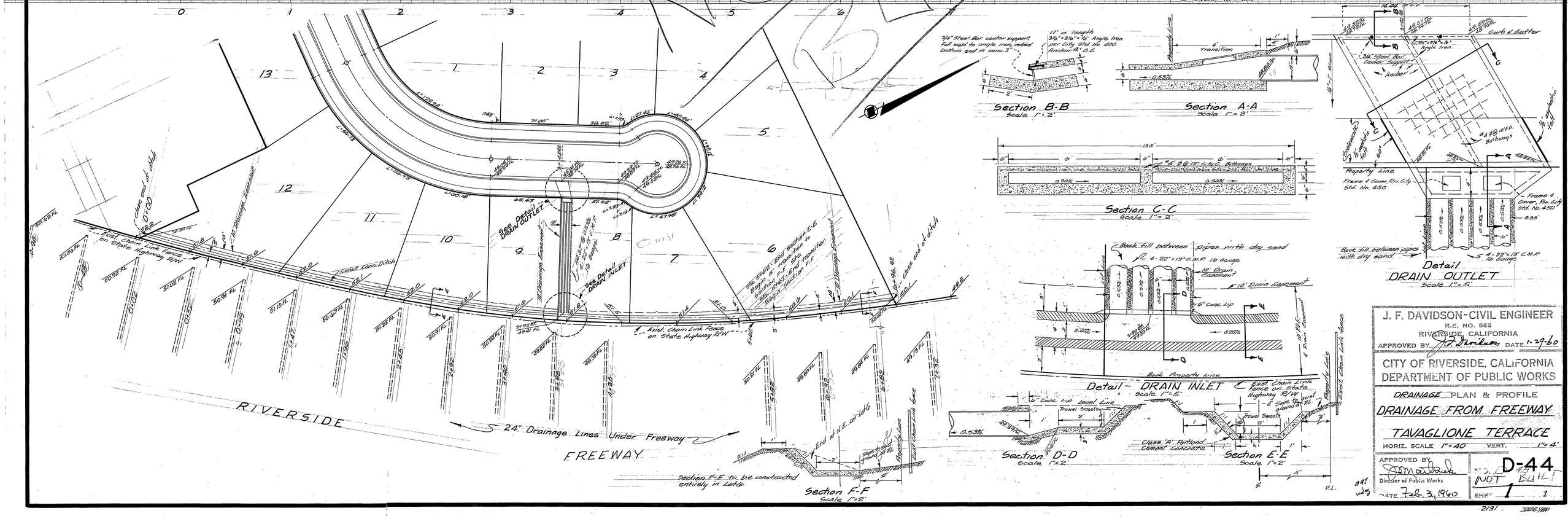
PROFILE OF 22"x13" ARCH PIPES

CHANNEL

Given Q under Highway = 16 cfs
14 pipes under Highway @ 1.14 cfs/pipe
9 pipes contributing to channel @ 1.14 = 10.26 cfs
(Q 25 yr. frq. = required capacity of channel)
n = 0.014
S = 0.002
A = 3.0'
R = 0.82
V = 1.486/0.014 (0.82)^2/3 (0.002)^1/2 = 3.46 f/s
Q = 3.46(3) = 10.4 cfs

PIPES

Required Q = 16 cfs
n = 0.021
S = 0.0053
A = 1.92 sq.ft.
R = 0.34
V = 1.486/0.021 (0.34)^2/3 (0.0053)^1/2 = 2.51 f/s
Q = 2.51(1.6) = 4.0 cfs
16/4 = 4 pipes required



J. F. DAVIDSON - CIVIL ENGINEER
R.E. NO. 562
RIVERSIDE, CALIFORNIA
APPROVED BY J. F. Davidson DATE 1-29-60

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DRAINAGE PLAN & PROFILE
DRAINAGE FROM FREEWAY
TAVAGLIONE TERRACE
HORIZ. SCALE 1"=40' VERT. 1"=4'

APPROVED BY Director of Public Works
DATE Feb 3, 1960

D-44
NOT BUILT
SHEET 1 1

2131 - JAMES, VERD