HYDROLOGY

F21/D40

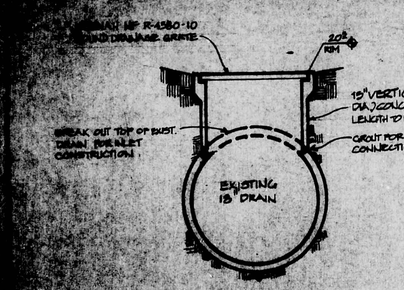
ONE PLAN

PLAN FOR

MONTGOMERY WEST

OFFICE BIDG.

F21-D40



DRAIN GRATE DETAIL 1½"

Site Outside Public Street Property
Full Retention into Montgomery will be Utilized

Impervious Area = 28,000 Ft²
Pervious Area = 8,960 Ft²

Total Area = 36,960 Ft²

% Impervious = 28,000 / 36,960 = 0.76

C = 0.58 . Plate 22.2-C-1 "D.P.M."

T_c = 10 minutes

Rainfall Intensity

$i = 6.84\ T_c^{-0.51}$

$i = 6.84\ (10)^{-0.51} = 2.11$

$I = (2.11)(2.3) = 4.85$

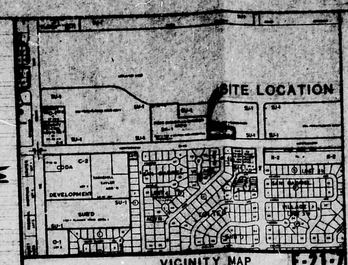
$Q_D = CIA = (0.53)(4.85)\ \frac{(36,960)}{43,560} = 2.18$ cfs

$Q_H = CIA = (0.16)(4.85)\ \frac{(36,960)}{43,560} = 0.66$ cfs

Additional Flow to Montgomery = 1.52 cfs

RESUBMITTED D/G PLAN

- ADDED SPOT ELEVATIONS & BLDG. FF ELEV. EAST SIDE OF PROP.
- ADDED SECTIONS A, B, C, D & E
- EXPANDED ON LEGEND
- ADDED CURB DETAIL
- PROVIDED CALCS. ON 4" ϕ PIPES
- INDICATED SOD BACKSLOPE TO PIPE SE SIDE

JAMES BLACKNELL 6-20-85 DATE

REFERENCE LETTER NOV. 22, 1983 APPROVAL FROM CITY