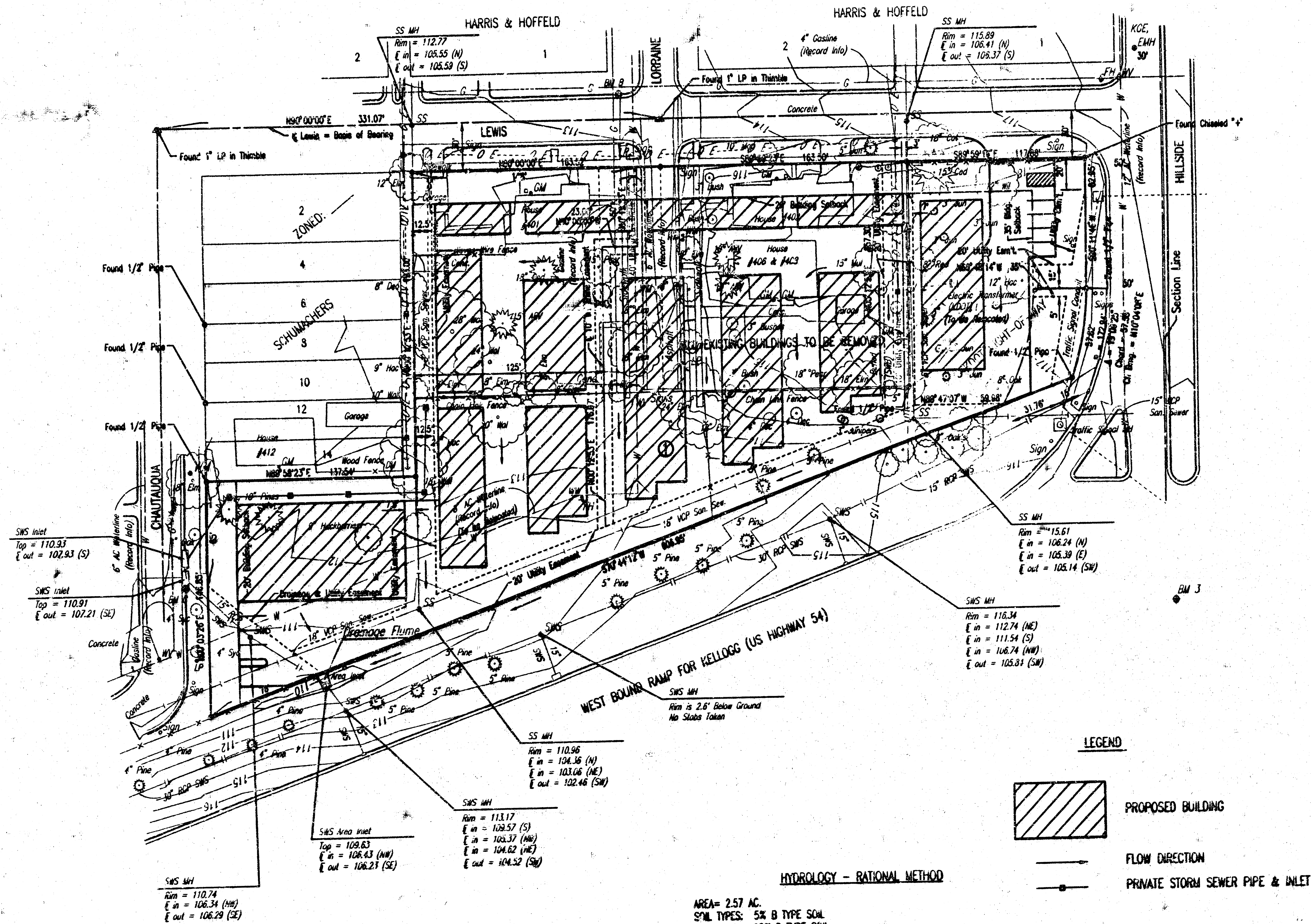


DRAINAGE PLAN
STORAGE HILLSIDE ADDITION
TO WICHITA, SEDGWICK COUNTY, KANSAS



SCALE: 1" = 40'

● = 3/4" IRON PIPE W/PEC CAP UNLESS NOTED OTHERWISE

Datum Bst: City of Wichita Bst, NE corner intersection (South of Kellogg)
Concrete Base for School Crossing Light.

Elev. = 110.80 City Datum
Elev. = 1298.20 N.G.V.D.

BM #3: Chiseled "b" on Top of Curb at North end median in E Hillside, North
side of Kellogg at West bound on ramp.

Elev. = 117.05 City Datum
Elev. = 1304.45 M.G.V.D.

BM #11: Chiseled "+" on sidewalk, West side Hillside, approx. 90' South of centerline Lewis.
Elev. = 118.12 City Datum
Elev. = 1305.52 N.G.V.D.

Blk B: Chiseled "B" on West curb return, NW corner Lewis and Lorraine.
Elev. = 113.63 City Datum
Elev. = 1300.83 A.G.V.D.

Bld C: Chiseled "d" at SW Corner Curb Inlet (South of 2), East side Chautauqua,
approx. 285' south of Lewis.
Elev. = 110.90 City Datum
Elev. = 1298.30 M.G.V.D.

LEGEND

PROPOSED BUILDING

FLOW DIRECTION

PRIVATE STORM SEWER PIPE & INLET

HYDROLOGY - RATIONAL METHOD

AREA= 2.57 AC.
SOIL TYPES: 5% B TYPE SOIL
95% D TYPE SOIL

TIME OF CONCENTRATION = t_c = 15 MINUTES

EXISTING CONDITIONS

1/2 ACRE RESIDENTIAL

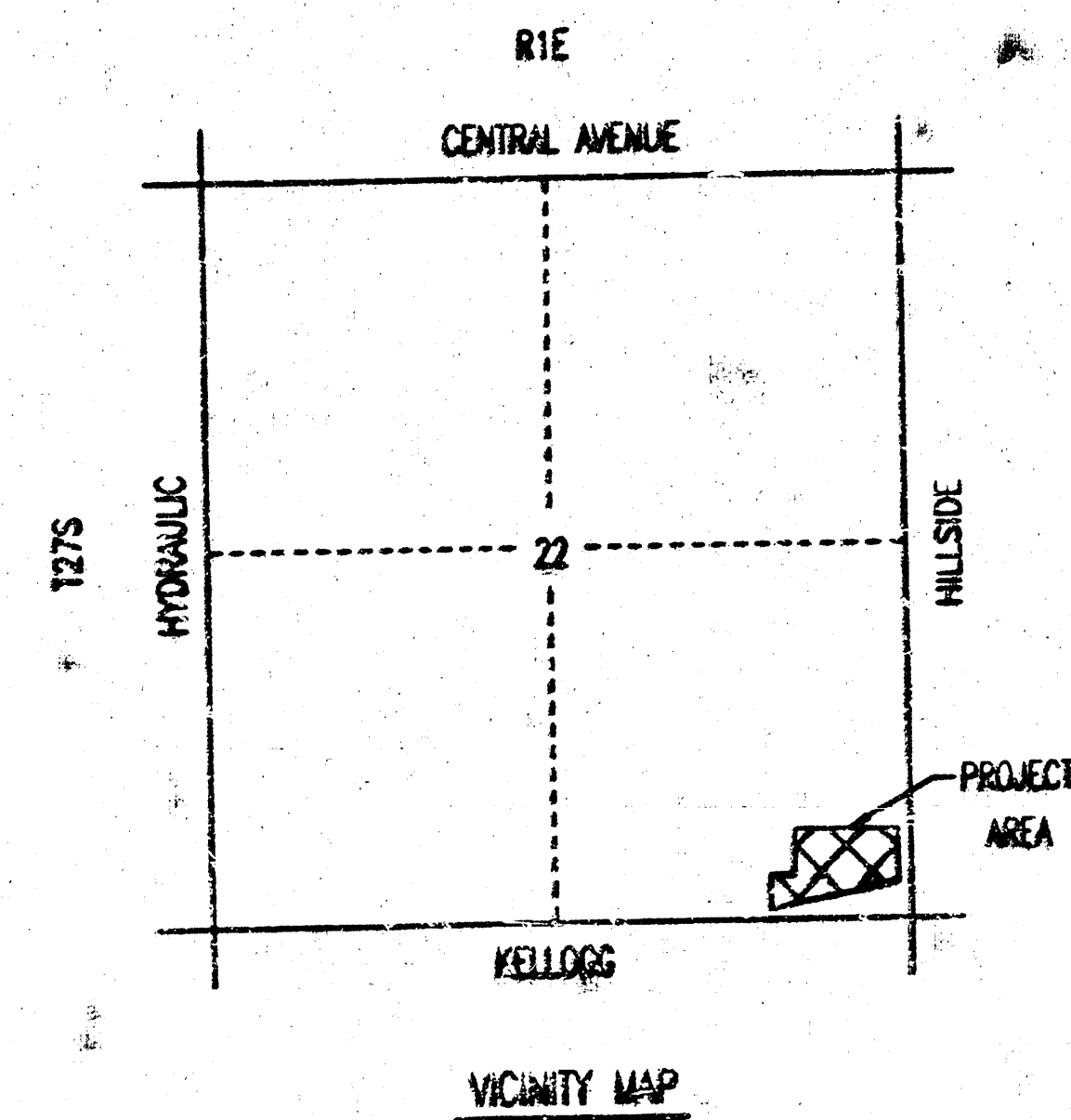
$C_2=0.42$
 $C_3=0.48$
 $C_4=0.55$
 $C_{100}=0.71$

$Q_2 = 4.1$ cis
 $Q_5 = 5.7$ cis
 $Q_{10} = 7.4$ cis
 $Q_{100} = 13.5$ cis

PROPOSED CONDITIONS

COMMERCIAL DEVELOPMENT (80% IMPERVIOUS)

$C_2=0.74$	$Q_2=7.2$ cfs
$C_5=0.76$	$Q_5=9.0$ cfs
$C_{10}=0.79$	$Q_{10}=19.6$ cfs
$C_{25}=0.84$	$Q_{25}=15.0$ cfs



DSNR: KER OPER: SAD SCALE: 1=40.00
G: 2030\00174\Self Storage\dwg\drainage 10-17-2000 10:29:54 am