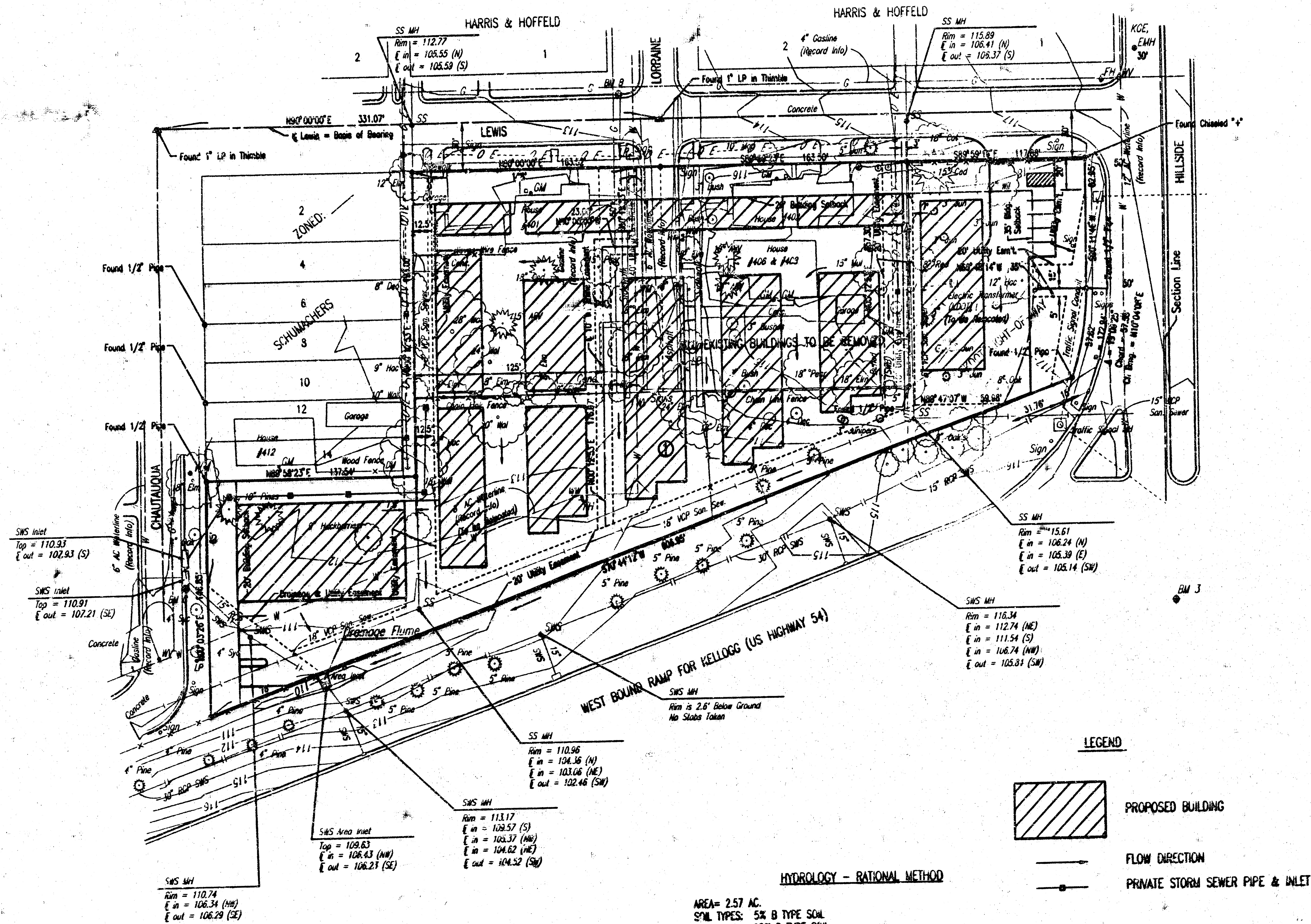


DRAINAGE PLAN
STORAGE HILLSIDE ADDITION
TO WICHITA, SEDGWICK COUNTY, KANSAS



SCALE: 1" = 40'

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

Datum Bm: City of Wichita Bm, NE corner intersection (South of Kellogg)
Concrete Base for School Crossing Light.
Elev. = 110.80 City Datum
Elev. = 1298.20 N.G.V.D.

Bill #3: Chiseled "B" on Top of Curb at North end median in @ Hillside, North side of Kellogg at West bound on ramp.

Elev. = 117.05 City Datum
Elev. = 1,304.45 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.

BM B: Chiseled "B" on West curb return, NW corner Lewis and Lorraine.
Elev. = 113.13 City Datum
Elev. = 1300.83 A.G.V.D.

BM C: Chiseled "d" at SW Corner Curb Inlet (South of 2), East side Chautauqua,
approx. 285' south of Lewis.

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

$C_2=0.42$
 $C_3=0.48$
 $C_{10}=0.55$
 $C_{100}=0.71$

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

PROPOSED CONDITIONS

COMMERCIAL DEVELOPMENT (80% IMPERVIOUS)

$C_2=0.74$	$Q_2=7.2$ cfs
$C_5=0.76$	$Q_5=8.0$ cfs
$C_{10}=0.79$	$Q_{10}=10.6$ cfs
$C_{25}=0.84$	$Q_{25}=16.0$ cfs

DRAINAGE FROM SECURITY STORAGE HILLSIDE ADDITION IS TO BE DIRECTED TO THE STORM SEWER ADJACENT TO US-54 BY DRIVES, FLUMES, PARKING LOYS, PRIVATE STORM SEWERS, DITCHES OR APPROVED DRAINAGE DEVICES.

A vicinity map showing a grid of streets. The vertical streets are labeled 'HYDRAULIC' on the left and 'HILLSIDE' on the right. The horizontal streets are labeled 'CENTRAL AVENUE' at the top and 'KELLOGG' at the bottom. A dashed horizontal line is labeled '22' in the center. A shaded, irregular area in the bottom right corner is labeled 'PROJECT AREA' with a line pointing to it. The text 'R1E' is at the top center, and 'VICINITY MAP' is at the bottom center. There are some handwritten marks on the left side, including '7275' and a small cross.

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