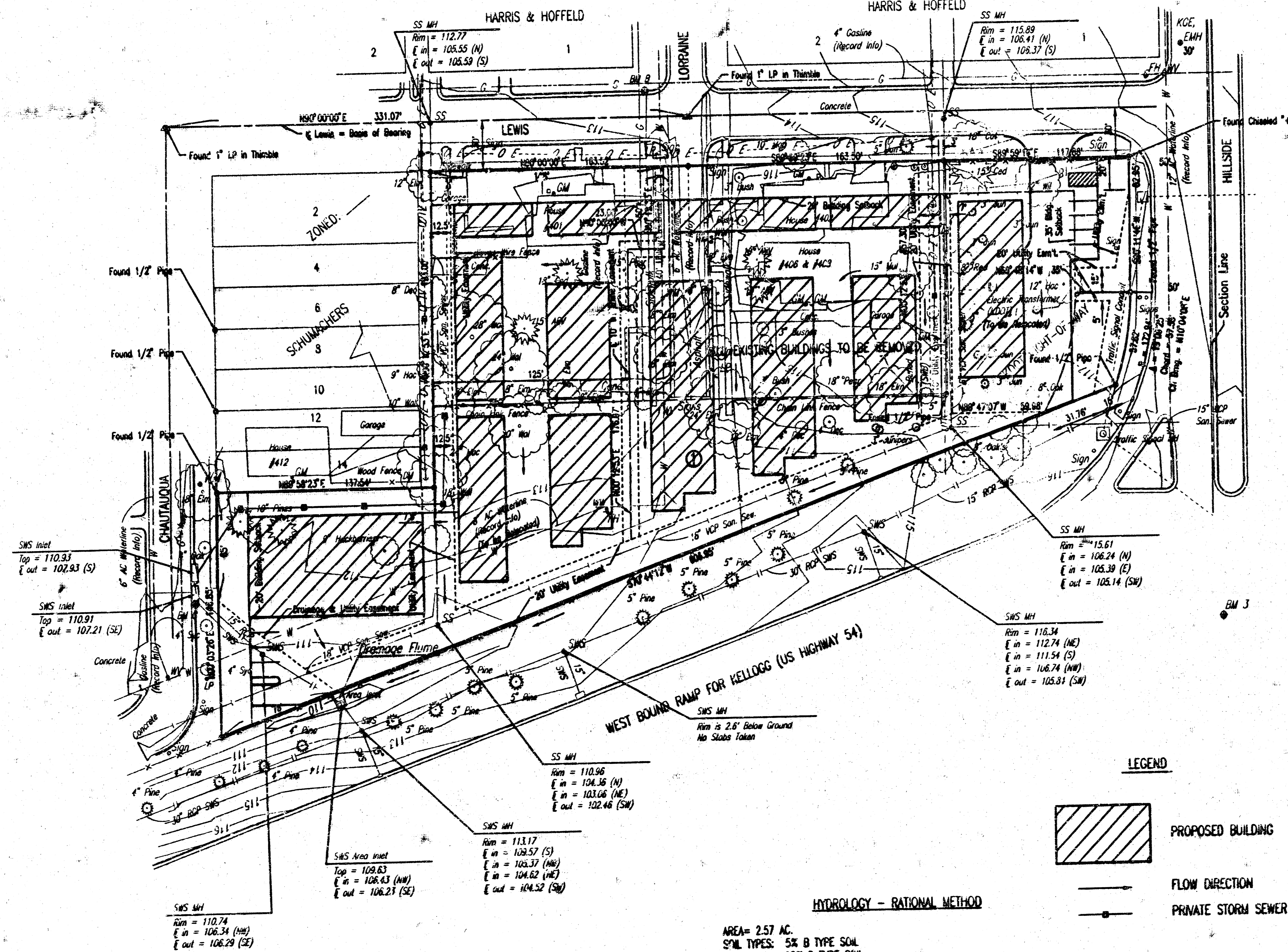


DRAINAGE PLAN SECURITY STORAGE HILLSIDE ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

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.
- BM #3: Chiseled "d" on Top of Curb at North and median in E Hillside, North
side of Kellogg at West bound on ramp. Elev. = 117.05 City Datum
Elev. = 1304.43 N.G.V.D.
- BM #11: Chiseled "d" 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 "d" on West curb return, NW corner Lewis and Lorraine.
Elev. = 113.13 City Datum
Elev. = 1300.83 N.G.V.D.
- BM 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 N.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

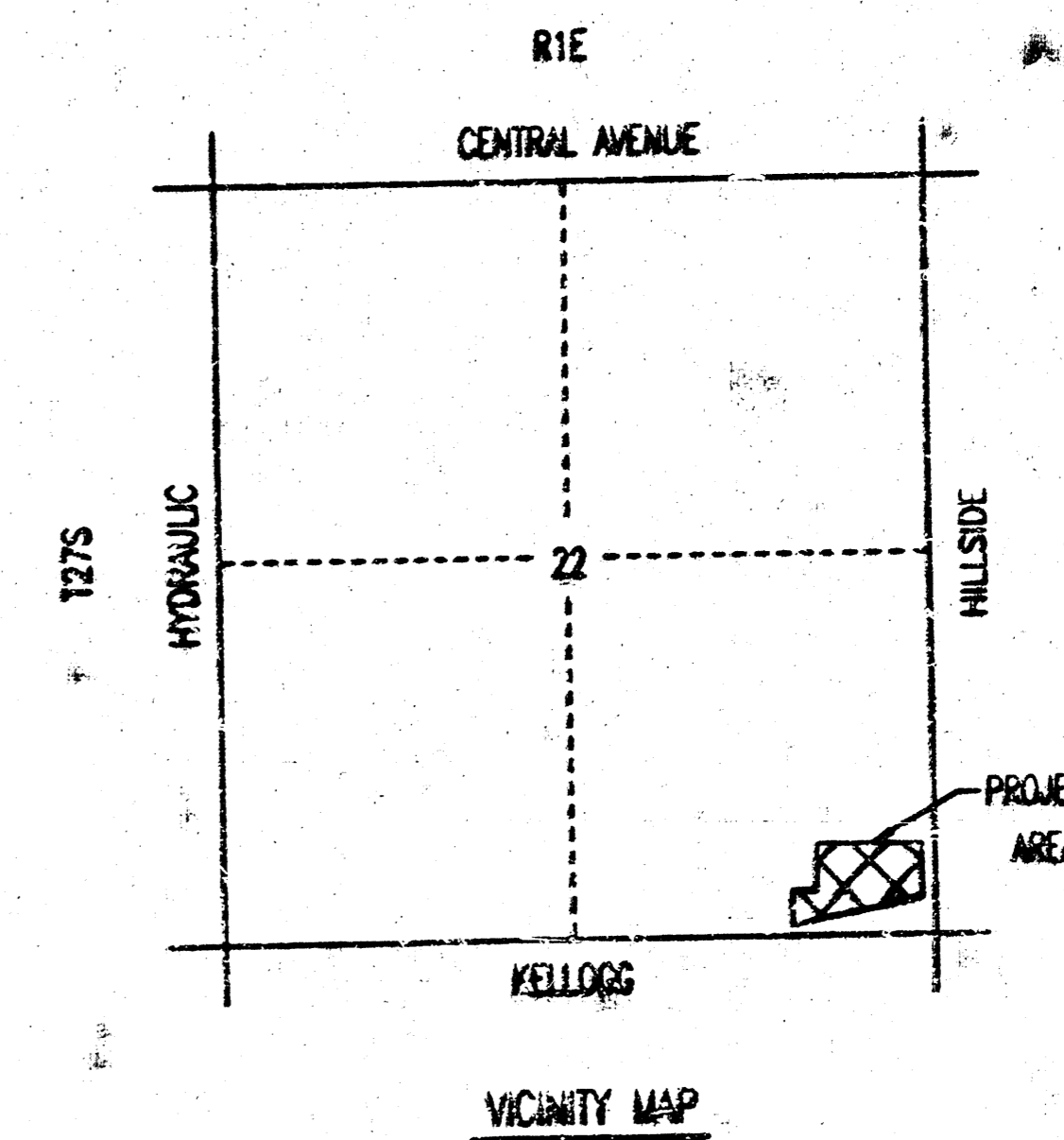
1/2 ACRE RESIDENTIAL
 $C_1=0.42$
 $C_2=0.48$
 $C_3=0.55$
 $C_{avg}=0.71$

$Q_1=4.1$ cfs
 $Q_2=5.7$ cfs
 $Q_3=7.4$ cfs
 $Q_{avg}=13.5$ cfs

PROPOSED CONDITIONS

COMMERCIAL DEVELOPMENT (50% IMPERVIOUS)
 $C_1=0.74$
 $C_2=0.76$
 $C_3=0.79$
 $C_{avg}=0.84$
 $Q_1=7.2$ cfs
 $Q_2=9.0$ cfs
 $Q_3=19.6$ cfs
 $Q_{avg}=18.0$ cfs

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



DSNR: KER OPER: SAD SCALE: 1"=40.00 10-17-2000 10:29:54 am
Q:\2000\0017A\Self Storage Vind\drainage