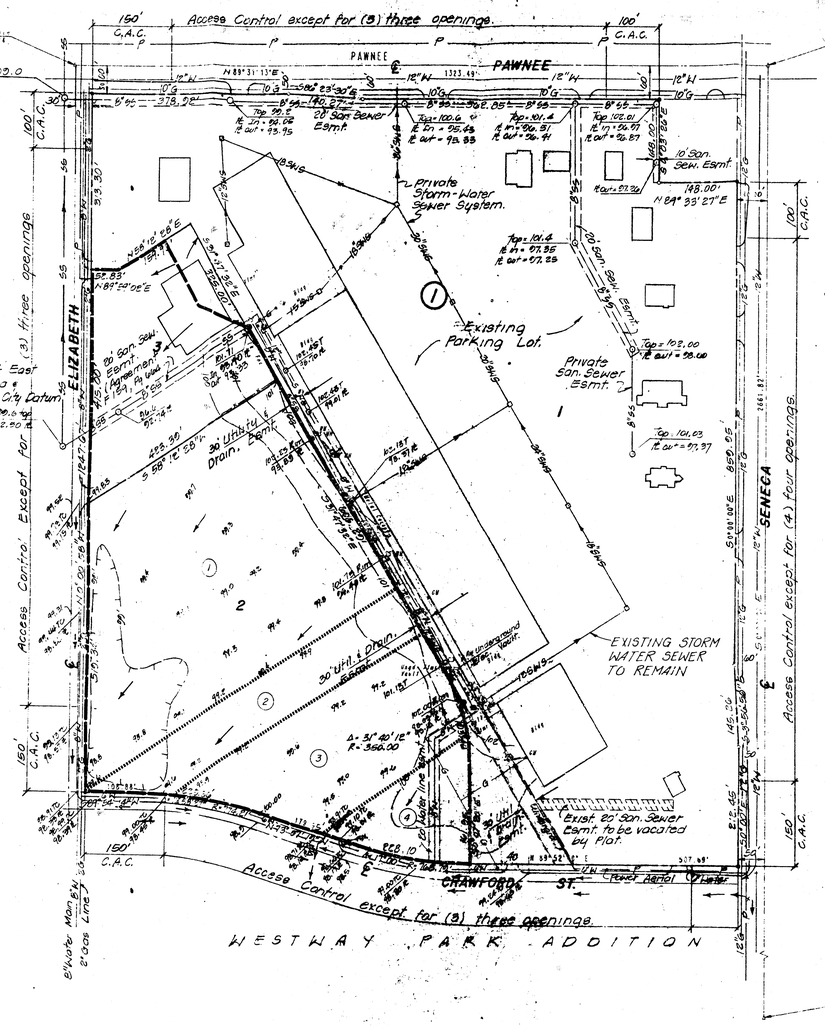
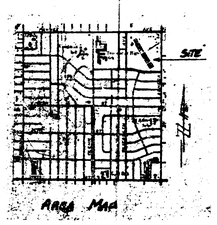


Notes:-
Underground Elec. (S.Western Bell Co.) along west side of Seneca, north side of Pawnee, east side of Elizabeth & north side of Crawford.
For buildings setbacks see C.U.P. D.P.-21 amended. Date of "00" March 21, 1975

Notes:
1. Lots 1 & 3 shall continue to be drained via existing streets & private storm water sewer system.
2. Lot 2 shall be graded to drain to existing streets, gutters, and/or storm water sewer systems via drives, flumes, private storm sewers and/or other approved drainage facilities.

LEGEND
- DRAINAGE BASIN BOUNDARY
- DRAINAGE SUB-BASIN BOUNDARY
- DRAINAGE FLOW DIRECTION
- (2) SUB-BASIN NUMBER



DRAINAGE PLAN 5-16-86

WESTWAY

Wichita, Sedgwick County, Kansas.

Owner/Developer: Phil Ruffin P.O. Box 17087 Wichita, Ks.

Engineer: R.E.C. p.a.
1440 English, Wichita, Ks. 67211

WESTWAY ADDITION
(Drainage)

MEMO

TO: City of Wichita
Engineering Dept.
ATTN: Mr. Carl Gipson, P.E.

PROJECT NO. 36-66510-1014
PROJECT: Westway Add'n.
DATE: May 27, 1986
FROM: Charles S. Brown, P.E.
REFERENCE: Revised Drainage Plan

COPIES TO:
Forrest Nagley, MAPD
File

PLEASE ADVISE IMMEDIATELY OF ANY MISCONCEPTIONS OR OMISSIONS YOU BELIEVE TO BE CONTAINED HEREIN

Transmitted herewith are two (2) prints of the revised Drainage Plan for Westway Addition to Wichita.

The drainage plan has been revised to note that the combined maximum allowable discharge from Sub-Basins 1 through 4 is limited to 25 cfs.

The preliminary plat was approved by the Subdivision Committee on May 22, 1986, subject to this drainage revision.

If you have any questions, please advise.

CSB/mkm

RECEIVED
MAY 28 1986
DESIGN DIVISION

Date 5-16-86 Page 1 of 4
Project Westway
Item Drainage

SUBAREA No. 1

A. Existing Conditions

Q = cIA
c = 0.3
t_c = 45 min.
I_2 = 2.08
I_{100} = 4.38
A = 7.6 Ac.
Q_2 = 0.3 × 2.08 × 7.6
Q_2 = 4.7 cfs
Depth of St. Flow = 0.35'
Q_{100} = 0.3 × 4.38 × 7.6
Q_{100} = 10.0 cfs
Depth of St. Flow = 0.47

B. Proposed Conditions

Q = cIA
c = 0.9
t_c = 15 min.
I_2 = 3.83
I_{100} = 7.37
A = 7.6 Ac.
Q_2 = 0.9 × 3.83 × 7.6
Q_2 = 26.2 cfs
Depth of St. Flow = 0.65
Q_{100} = 0.9 × 7.37 × 7.6
Q_{100} = 50.4 cfs
Depth of St. Flow = 0.80

Date 5-16-86 Page 2 of 4
Project Westway
Item Drainage

SUBAREA NO. 2

A. EXISTING CONDITIONS

Q = cIA
c = 0.3
t_c = 45 min.
I_2 = 2.08
I_{100} = 4.38
A = 1.3 Ac.
Q_2 = 0.3 × 2.08 × 1.3
Q_2 = 0.8 cfs
Q_{100} = 0.3 × 4.38 × 1.3
Q_{100} = 1.7 cfs
Depth of St. Flow = 0.17'
Depth of Street Flow = 0.24'

B. PROPOSED CONDITIONS

Q = cIA
c = 0.9
t_c = 15 min.
I_2 = 3.83
I_{100} = 7.37
A = 1.3
Q_2 = 0.9 × 3.83 × 1.3
Q_2 = 4.5 cfs
Q_{100} = 0.9 × 7.37 × 1.3
Q_{100} = 8.6 cfs

Date 5-16-86 Page 3 of 4
Project Westway
Item Drainage

SUBAREA NO. 3

A) EXISTING CONDITIONS

Q = cIA
c = 0.3
t_c = 30 min.
I_2 = 2.24
I_{100} = 4.66
A = 2.1 Ac.
Q_2 = 0.3 × 2.24 × 2.1
Q_2 = 1.4 cfs
Depth of St. Flow = 0.24'
Q_{100} = 0.3 × 4.66 × 2.1
Q_{100} = 2.9 cfs
Depth of St. Flow = 0.21'

B) PROPOSED CONDITIONS

Q = cIA
c = 0.9
t_c = 15 min.
I_2 = 3.83
I_{100} = 7.37
A = 2.1
Q_2 = 0.9 × 3.83 × 2.1
Q_{100} = 0.9 × 7.37 × 2.1

Date May 6, 1986 Page 4 of 4
Project Westway
Item Drainage

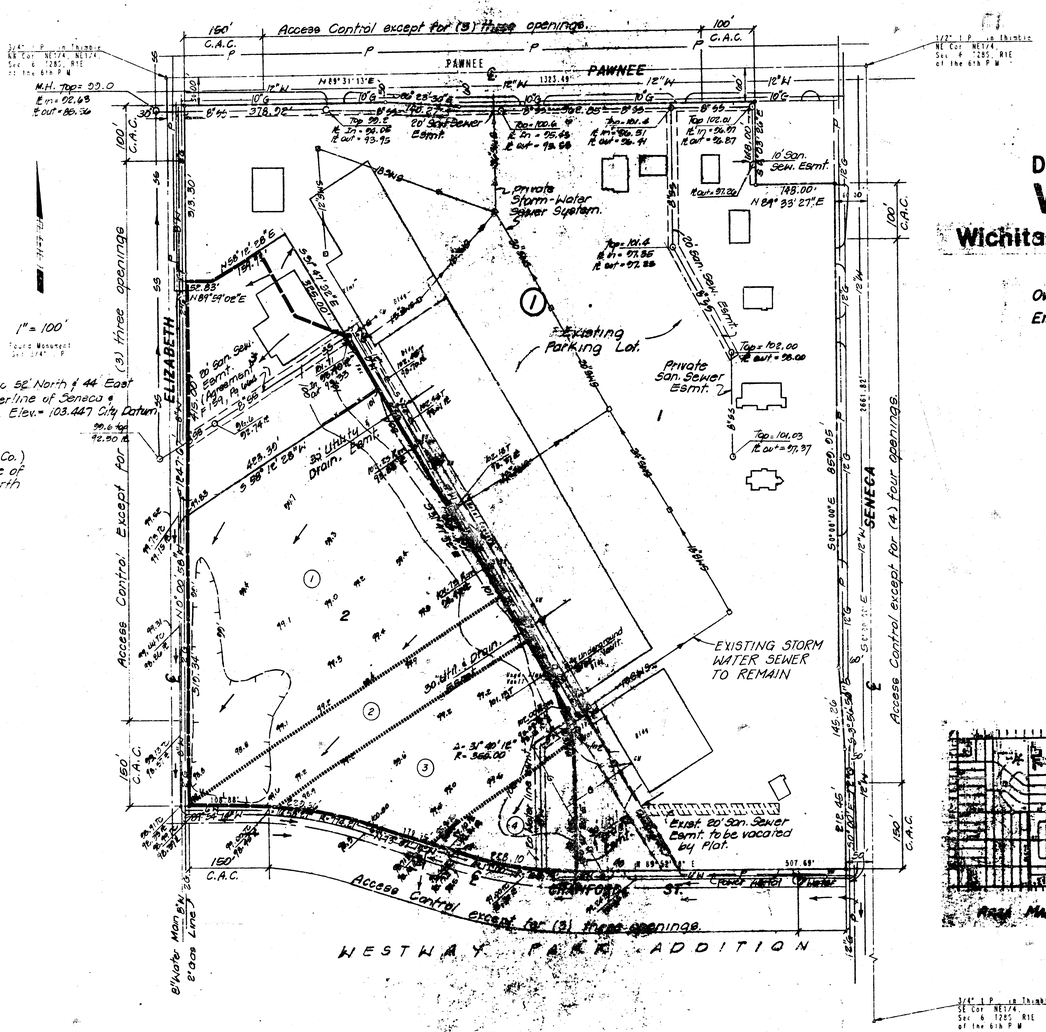
SUBAREA NO. 4

A. Existing Conditions

Q = cIA
c = 0.3
t_c = 20 min.
I_2 = 2.33
I_{100} = 4.53
A = 0.8 Ac.
Q_2 = 0.3 × 2.33 × 0.8
Q_2 = 0.6 cfs
Q_{100} = 0.3 × 4.53 × 0.8
Q_{100} = 1.0 cfs

B. Proposed Conditions

Q = cIA
c = 0.9
t_c = 15 min.
I_2 = 3.83
I_{100} = 7.37
A = 0.8 Ac.
Q_2 = 0.9 × 3.83 × 0.8
Q_2 = 2.6 cfs
Q_{100} = 0.9 × 7.37 × 0.8
Q_{100} = 5.3 cfs


150' C.A.C.
Access Control except for (3) three openings
100' C.A.C.
PAWNEE
M.H. Top= 99.0
E in= 92.68
E out= 86.36
N 89° 31' 13" E
1323.49'
12"W
10'G
8" SS
378.92'
20' San. Sewer Esmt.
Top= 99.5
E in = 90.08
E out = 93.95
Top= 100.6
E in = 95.45
E out = 94.99
Top= 101.4
E in = 96.61
E out = 96.41
Top= 100.01
E in = 96.07
E out = 96.87
10' San. Sew. Esmt.
E out = 97.32
N 89° 33' 27" E
148.00'
Private Storm-Water Sewer System.
Top= 101.4
E in = 97.85
E out = 97.25
20' San. Sew. Esmt.
Top= 102.00
E out = 98.00
Top= 101.03
E out = 97.97
Existing Parking Lot.
Private San. Sewer Esmt.
ELIZABETH
SENECA
Access Control except for (4) four openings.
Access Control except for (3) three openings
1" = 100'
B.M. disc 52' North & 44' East of centerline of Seneca & Pawnee. Elev.= 103.447 City Datum
10' San. Sew. Esmt. (Hamerlian Addition)
30' Little Ark Drain. Esmt.
EXISTING STORM WATER SEWER TO REMAIN
Exist. 20' San. Sewer Esmt. to be vacated by Plat.
CRAWFORD ST.
Access Control except for (3) three openings.
WESTWAY PARK ADDITION
8" Water Main
2100 Line
Δ= 31° 40' 12"
R= 366.00
S 89° 12' 28" E
429.30'
N 0° 00' 28" W
247.85'
S 89° 31' 13" W
N 89° 31' 13" E
S 0° 28' 47" E
S 89° 31' 13" W
N 0° 28' 47" W
S 89° 31' 13" W
N 0° 28' 47" W
S 89° 31' 13" W
S 0° 28' 47" E