

S/D NO. 78-111 Name CRESTVIEW COUNTRY CLUB ESTATES-East Meadows 2nd Addition
Date Application Rec'd. 10-17-78 Preliminary Approval _____
Scheduled S/D Meeting 2-22-79

DESCRIPTION

General Location 1/2 mile south of 13th St., on west side of 143rd St. East

Owner Crestview Development Corporation, c/o James F. Haugen
Surveyor/Engineer Reiss and Goodness Engineers
Address 2160 W. 21st Street, Wichita, Ks. 67204 Phone 832-0213

- 1. Gross Acreage of Plat 20 acres
- 2. Number of Lots:
 - Residential 35
 - Commercial _____
 - Industrial _____
 - Other _____
- 3. Minimum Lot Frontage 100 ft.
- 4. Minimum Lot Area 14,500 square ft.
- 5. Existing Zoning R-1
- 6. Proposed Zoning AA
- 7. Lineal Feet of New Streets:
 - a. 64 R/W 2,735 ft.
 - b. _____ R/W _____ ft.
 - c. _____ R/W _____ ft.
 - d. _____ R/W _____ ft.
 - e. _____ R/W _____ ft.
 - TOTAL _____ ft.
- 8. Sidewalk adjacent to all streets? yes no
- 9. Public Water Supply yes (Yes-No), Name City of Wichita
- 10. Public Sanitary Sewers yes (Yes-No), Name Crestview Improvement District
- 11. Health Department Approval (where applicable) _____ (Yes-No)
- 12. City of Wichita _____: Three-Mile Area X

STAFF COMMENTS:

- A. Approval of the plat shall be subject to the approval of the associated zone case SCZ-0418 "R-1" to "AA".
- B. "Springdale Court" should be relabeled as 9th Street Circle, as recommended by the Department of Public Works.
- C. It is recommended that the 40' fire lane easement to Lot 28 be platted as part of that lot; and that a 25' front yard setback be provided adjacent to Lots 27 and 29 on Lot 28.
- D. The applicant shall submit covenants or a Homeowners Association agreement which shall provide for the maintenance of Reserve A and which shall assure that no obstructions such as fences, etc., will be permitted in the pedestrian easements.
- E. The applicant shall guarantee the construction of sidewalks on both sides of all the cul-de-sac streets and along the west side of North Springdale Drive and within each of the sidewalks easements. It should be noted, however, that sidewalks have been waived on all other additions in this section.
- F. The applicant shall guarantee the paving of all the streets to City of Wichita standards.
- G. The applicant shall guarantee the installation of sanitary sewers to serve each lot.
- H. The applicant shall guarantee the installation of a public water supply to serve each lot.
- I. All utilities shall be installed underground.
- J. The applicant shall install or guarantee the installation of all utilities and facilities which are applicable and described in Article 8 of the MAPC Subdivision Regulations.
- K. Requirements for a final plat (see pages 20-25, Part 4, Article 5 of the MAPC Subdivision Regulations).

S/D NO. 78-111 Name Crestview Country Club Estates-East Meadows 2nd Addition
Date Application Rec'd. 10-17-78 Preliminary Approval 2-22-79
Scheduled S/D Meeting 3-22-79

DESCRIPTION

General Location 1/2 mile south of 13th St., on west side of 143rd St. East

Owner Crestview Development Corp., c/o James Haugen
Surveyor/Engineer Reiss and Goodness Engineers
Address 2160 W. 21st, 67204 Phone 832-0213

- 1. Gross Acreage of Plat 20 acres
- 2. Number of Lots:
 - Residential 34
 - Commercial _____
 - Industrial _____
 - Other _____
 - Total Number of Lots 34
- 3. Minimum Lot Frontage 40 ft.
- 4. Minimum Lot Area 13,127 sq ft.
- 5. Existing Zoning R-1
- 6. Proposed Zoning AA
- 7. Lineal Feet of New Streets:
 - a. 64 R/W 2,735 ft.
 - b. _____ R/W _____ ft.
 - c. _____ R/W _____ ft.
 - d. _____ R/W _____ ft.
 - e. _____ R/W _____ ft.
 - TOTAL _____ ft.
- 8. Sidewalk adjacent to all streets? yes no
- 9. Public Water Supply yes (Yes-No), Name City of Wichita
- 10. Public Sanitary Sewers yes (Yes-No), Name Crestview Imp. Dist
- 11. Health Department Approval (where applicable) _____ (Yes-No)
- 12. City of Wichita _____: Three-Mile Area X

STAFF COMMENTS:

- A. Approval of the plat shall be subject to the approval of the associated zone case SCZ-0418, "R-1" to "AA".
- B. At the applicant's request, the following street name changes may be indicated on the final plat tracing: Tipperary Circle to Shannon Circle; Sharon Circle to Tipperary Circle.
- C. The applicant shall submit covenants or a Homeowners' Association which shall provide for the maintenance of Reserve A and which shall assure that no obstructions, such as fences, etc., will be permitted in the pedestrian easements.
- D. The applicant shall guarantee the installation of a public water supply to serve each lot.
- E. The applicant shall guarantee through the Crestview Improvement District the paving of all streets to City of Wichita standards.
- F. The applicant shall guarantee through the Crestview Improvement District the installation of sanitary sewers to serve each lot.
- G. Recording of the plat within 30 days after approval by the Board of City Commissioners.

6-5-79

①

EAST MEADOWS 2ND ADDN.
FINAL STORM SEWER DESIGN

D.A. 5.52 AC TO DONEGAL CIRCLE L = 1125 = 0.21

F = 37-28 = 9

$$T_c = \left(\frac{11.9 \times 0.213^3}{9} \right)^{0.385} = 1.86 \text{ HRS} = 112 \text{ MIN.}$$
Use 15 min
4.06

$$Q_2 = 5.52 \times 0.4 \times 4.55 = 10.0 \text{ cfs}$$
1.2 = 4.55

$$Q_{100} = 5.52 \times 0.6 \times \frac{10.07}{8.98} = 33.4 \text{ cfs}$$
100 = 10.07
8.98

Why use different C?

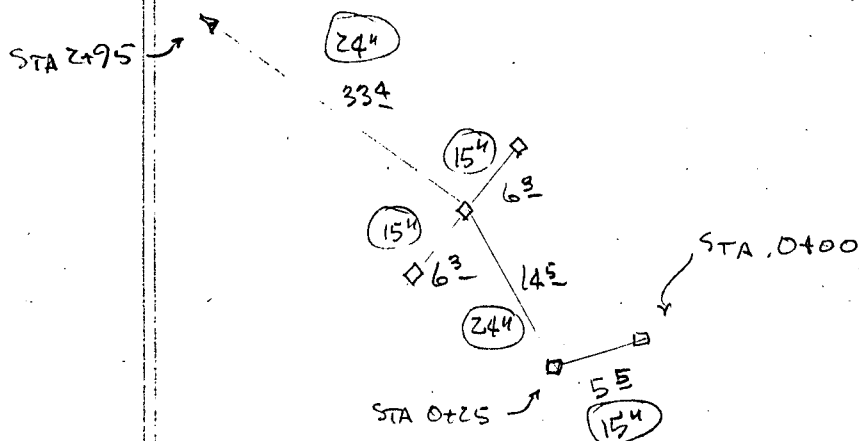
SIZE PIPE AND WELLS FOR Q_{100}

STA.	PIPE	REQ'D Q	SLOPE	CAPACITY	VELOCITY
0+00					
0+25	15"	5.5 cfs	0.7%	5.4 cfs	4.47 fps
0+67	24"	13.5 cfs	0.4%	14.3 cfs	4.62 fps
2+95	24"	33.4 cfs	4.08%	47.8 cfs 45.7	14.96 fps

33.4 cfs 71% Full Euc

OUTLET VELOCITY 1.07% FULL V = 16.00 FPS @ 33.4 cfs

LINE No.	PIPE	REQ'D Q	SLOPE	CAPACITY	VELOCITY
# 2	15"	6.3 cfs	1.5%	7.9 cfs 8.0 cfs	6.50 fps
# 3	15"	6.3 cfs	1.5%	8.0 cfs 7.9	6.50 fps



FLOW DISTRIBUTION

D.A. = 9.12 AC. TO S. END NORTH SPRINGDALE DRIVE

L = 2220' = 0.42 mi. E = 40 - 19.5 = 20.5'

$$T_c = \left(\frac{11.9 \times 0.42^3}{20.5} \right)^{0.385} = 0.30 \text{ HR} = 18 \text{ MIN.}$$

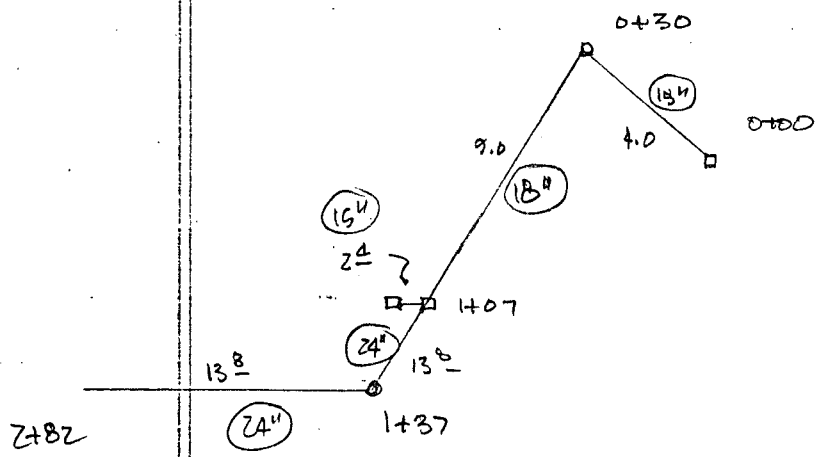
$i_z = 3.78$
 $i_{100} = 8.37$

$Q_z = 9.12 \times 0.4 \times 3.78 = 13.8 \text{ cfs}$

$Q_{100} = 9.12 \times 0.6 \times 8.37 = 45.8 \text{ cfs}$

SIZE PIPE FOR 2 YR. STORM - PROVIDE SWALE FOR 100 YR

STA.	PIPE	REQ'D Q	SLOPE	CAPACITY	VELOCITY
0+00	-	-			
0+30	15"	4 cfs	0.4%	4 cfs ✓	3.25 fps
1+07	18"	9.0 cfs	0.7%	9.8 cfs ✓	5.09 fps
1+37	24"	13.8 cfs	0.4%	14.3 cfs ✓	4.46 fps
2+82	24"	13.8 cfs	0.4%	14.3 cfs ✓	4.46 fps
LINE #5	15"	2.4 cfs	0.4%	4 cfs ✓	3.25 fps

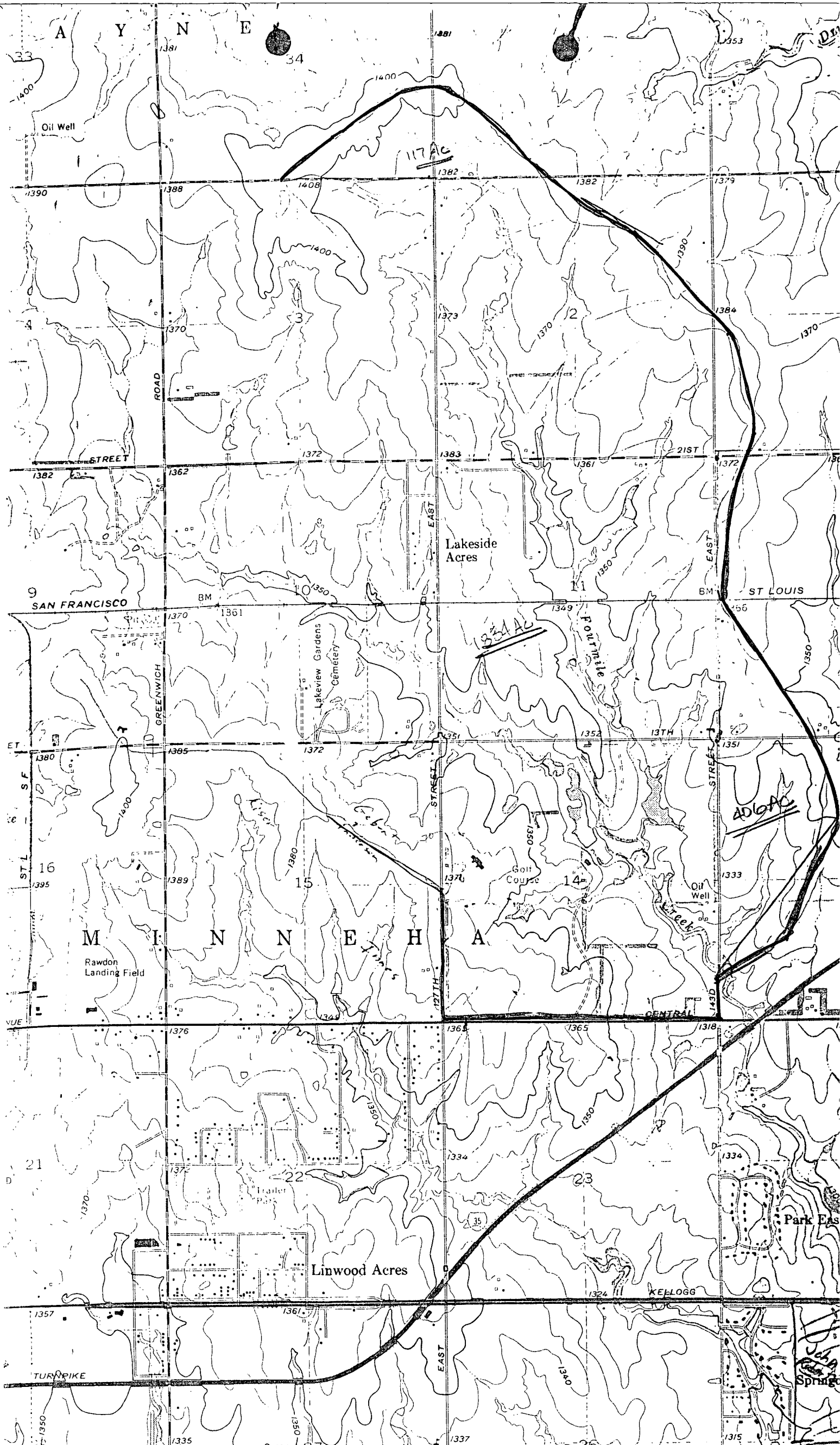


FLOW DISTRIBUTION

V" SWALE $\left[\begin{array}{c} \text{---} 20' \text{---} \\ \downarrow 1.5' \end{array} \right]$ $Q = 15 \text{ cfs. } R = \frac{15}{20.2} = .74 \quad n = .035$

$Q = 15 \frac{1.486}{.035} .74^{2/3} .005^{1/2} = 36.8 \text{ cfs} \quad \text{OK. } \checkmark$

$45.8 - 13.8 = 32.0 \text{ cfs REQ'D } \checkmark$



A Y N E

34

117 AC

Lakeside Acres

AD 10 AC

M I N N E H A

Linwood Acres

Park East

Oil Well

Rawdon Landing Field

Trailer Park

Golf Course

Lakeview Gardens Cemetery

Fountain

CENTRAL

KELOGG

Spring

ROAD

STREET

STREET EAST

STREET EAST

ST L

VUE

EAST

SAN FRANCISCO

ST LOUIS

16

15

14

21

22

23

TURNPIKE

33

4

9

ET

16

21

26

1381

1381

1353

1390

1388

1408

1382

1382

1379

1370

1373

1370

1384

1382

1362

1372

1383

1361

21ST

1370

1361

1350

1351

1349

1372

1380

1385

1372

1351

1352

13TH

1351

1395

1389

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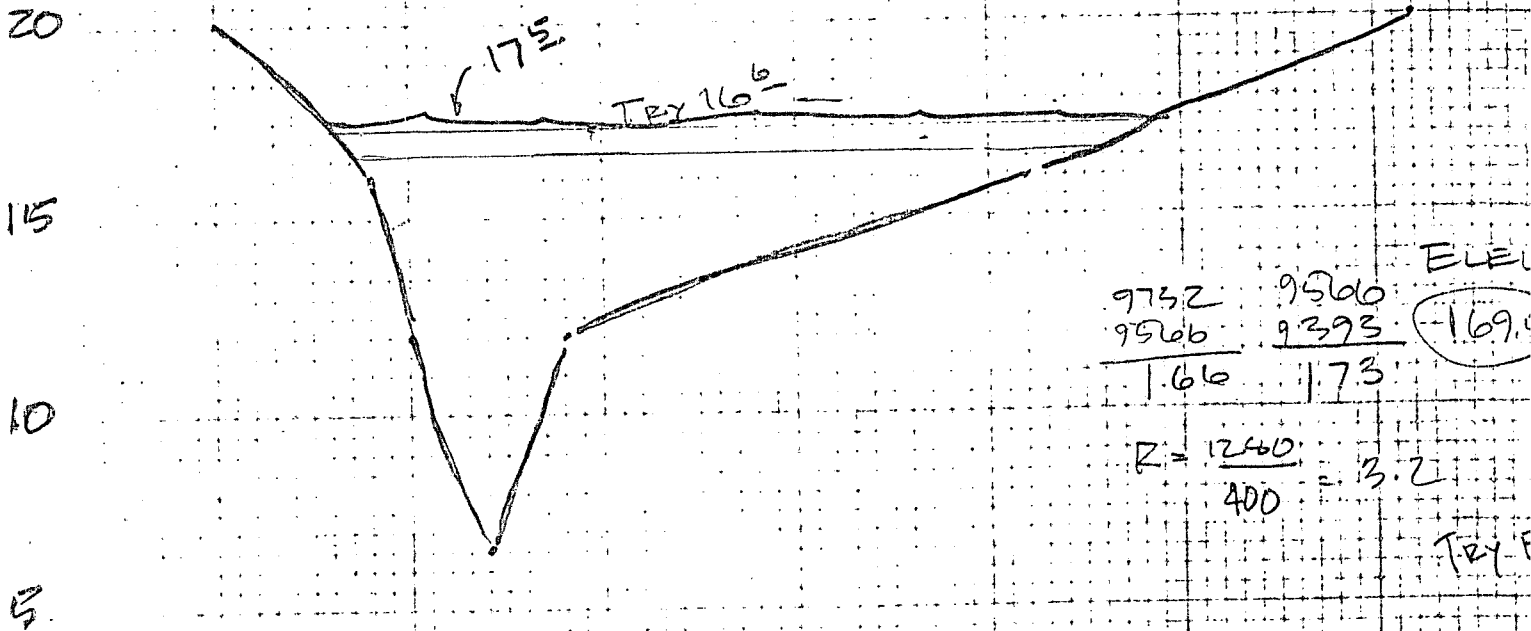
1335

1337

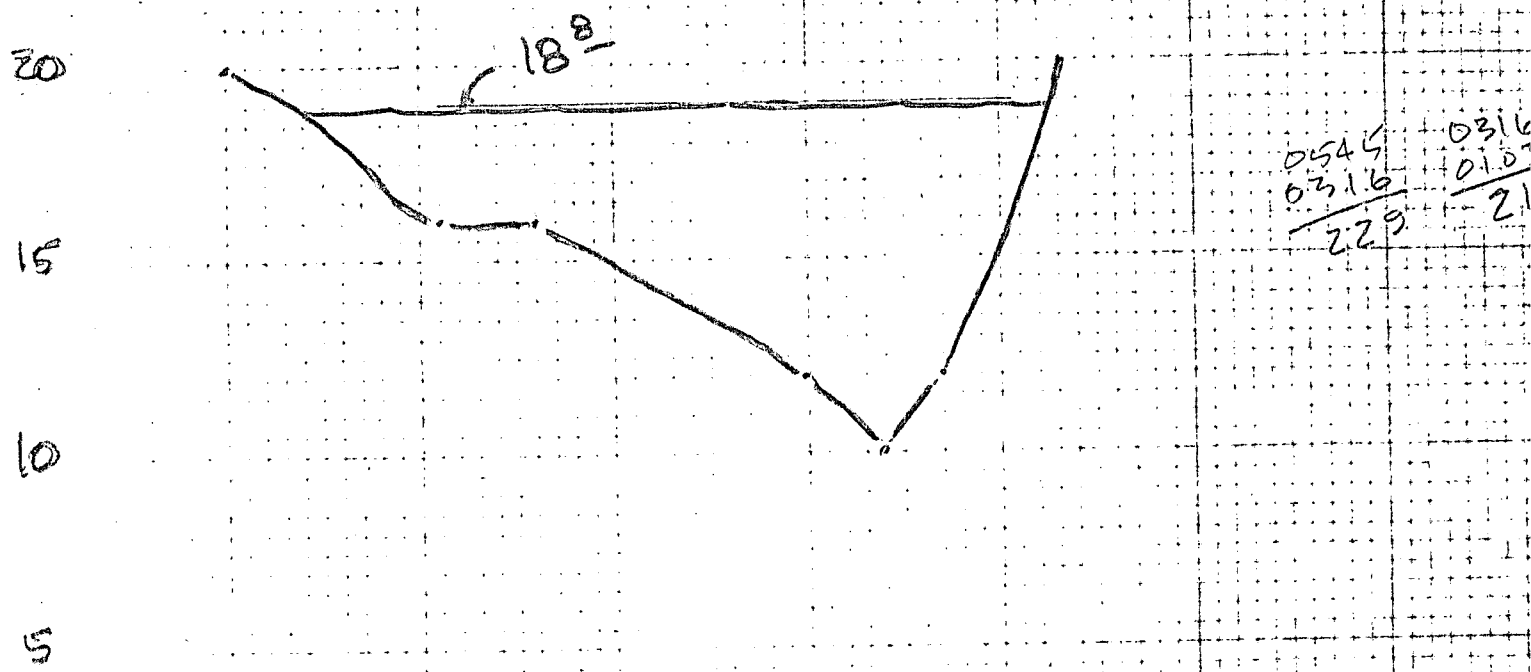
1315

0 100 200 300 400 500 600

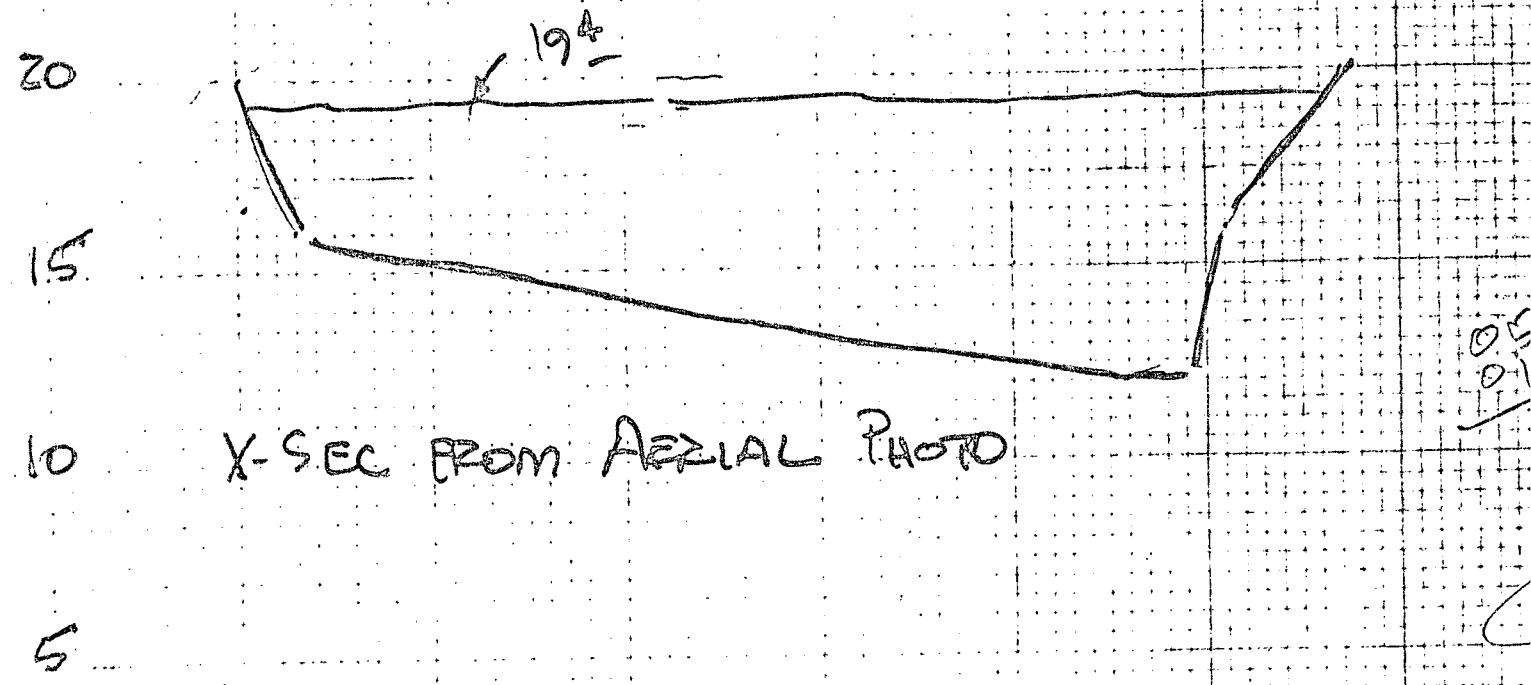
8100



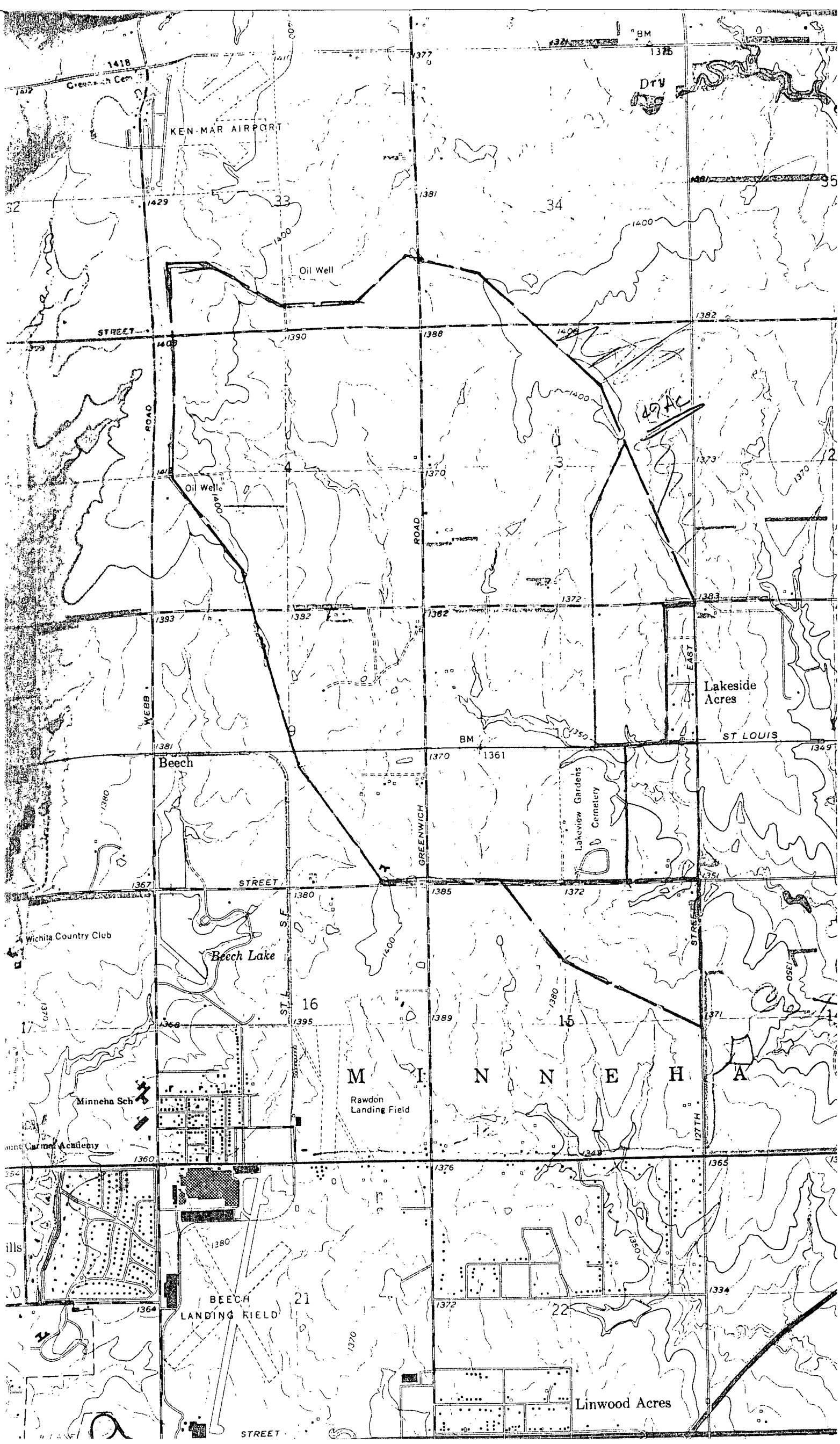
19100



26100



X-SEC FROM AERIAL PHOTO



1418

KEN-MAR AIRPORT

DRU

32

1429

33

1377

1385

34

Oil Well

STREET

1390

1388

1406

1382

ROAD

1403

Oil Well

ROAD

1370

1400

149 AC

1373

WEBB ROAD

1393

1392

1382

1372

1383

Lakeside Acres

BM

Beech

1370

1361

Lakewood Gardens Cemetery

ST LOUIS

1349

STREET

Wichita Country Club

Beech Lake

1380

1400

1372

ST L

16

1389

1380

1371

M I N N E H A

Minneha Sch

Rawdon Landing Field

Saint Carmel Academy

1360

1376

1365

Hills

BEECH LANDING FIELD

21

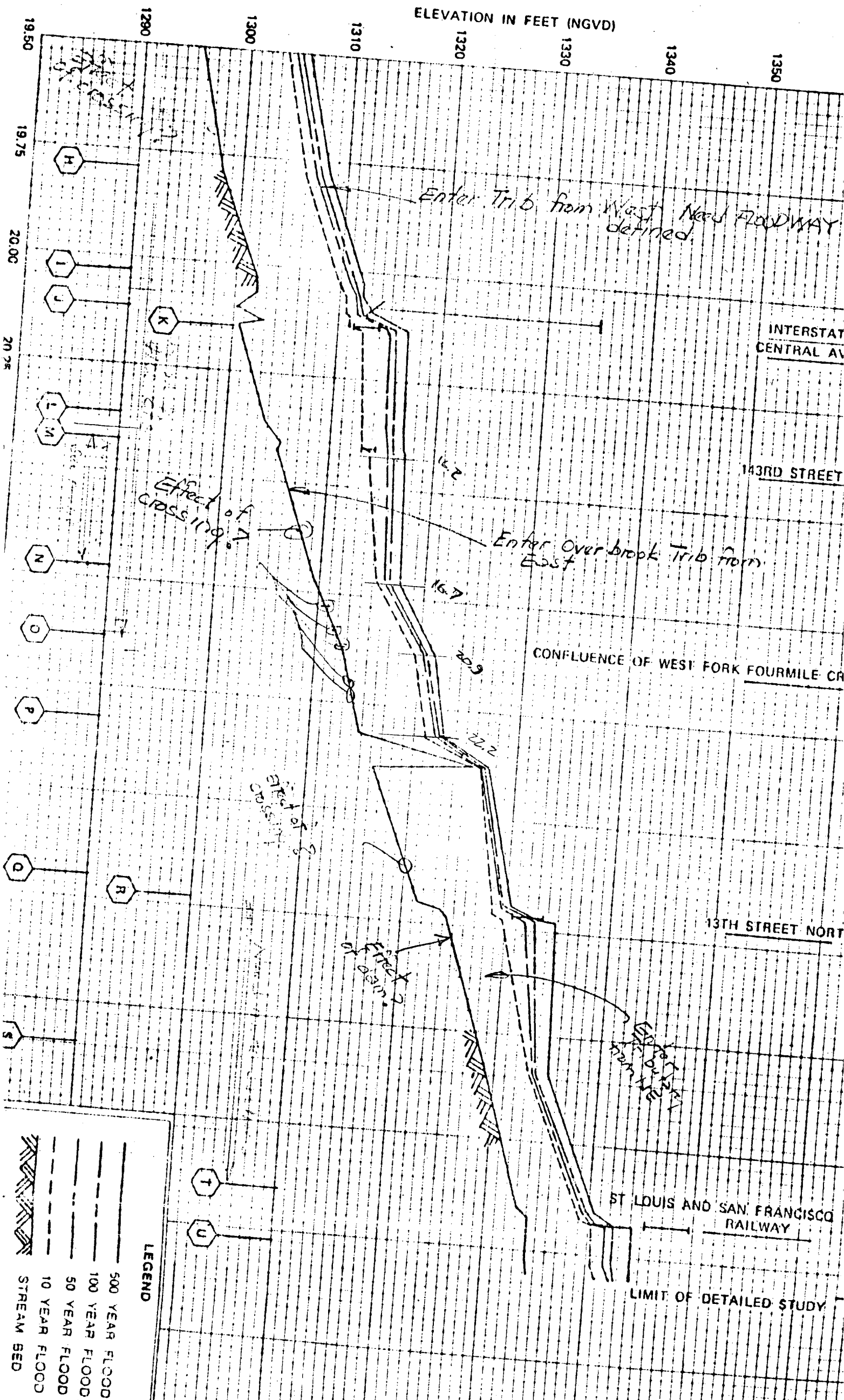
1372

22

1334

Linwood Acres

STREET



ELEVATION IN FEET (NGVD)

INTERSTAT
CENTRAL AV

143RD STREET

CONFLUENCE OF WEST FORK FOURMILE CR

13TH STREET NORTH

ST LOUIS AND SAN FRANCISCO
RAILWAY

LIMIT OF DETAILED STUDY

Enter Trib from West Need FLOODWAY defined.

Enter Overbrook Trib from East

Effect of N. crossing

Effect of S. crossing

Effect of N. crossing

Effect of N. crossing

LEGEND

- 500 YEAR FLOOD
- 100 YEAR FLOOD
- 50 YEAR FLOOD
- 10 YEAR FLOOD
- STREAM BED

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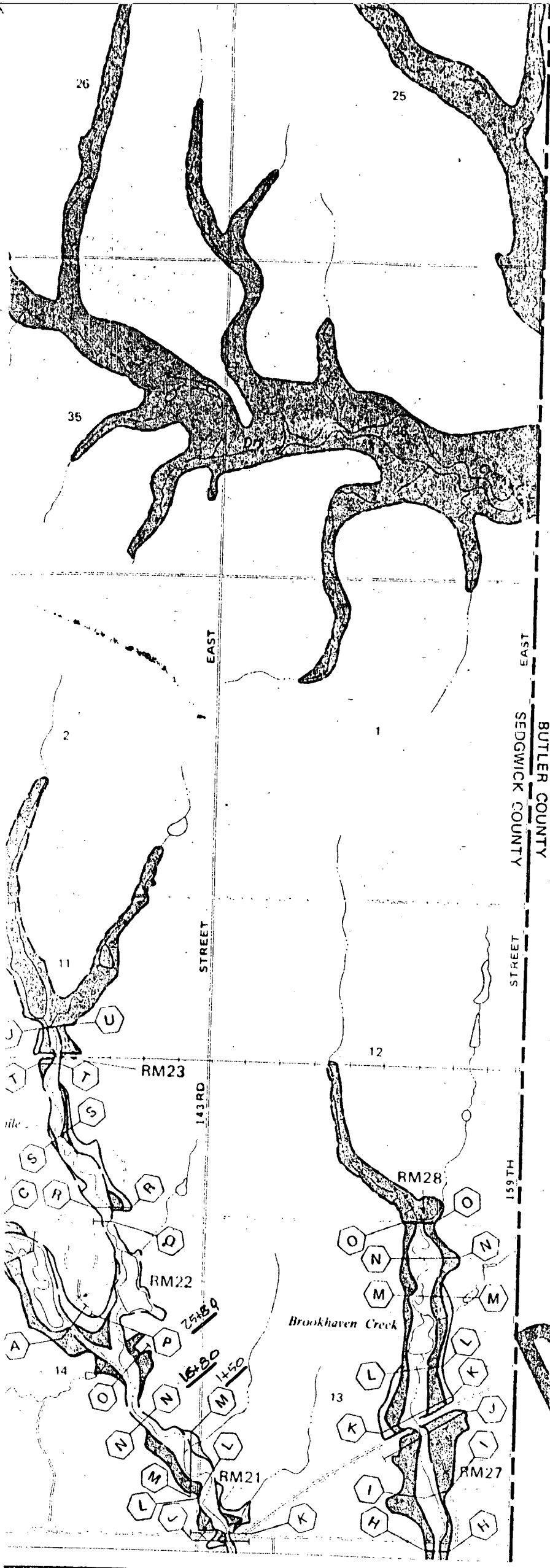
KC

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KF

KG



APPROXIMATE
2000

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD BOUNDARIES
BUTLER COUNTY
SEDGWICK COUNTY
KANSAS
(UNINCORPORATED)

COMMUNITY PLAN NO. 200321 01

PRELIMINARY

EFFECTIVE



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE

FOLD

FLOODING SOURCE	CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	FLOODWAY		WATER SURFACE ELEVATION			
				SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	WITH FLOODWAY (INGVD)	WITHOUT FLOODWAY (INGVD)	DIFFERENCE	
FOURMILE CREEK	M	20.42	480	2780	1.5	1316.7	1316.2	0.5	
	N	20.71	207	876	4.7	1317.2	1316.7	0.5	
	O	20.88	345	1275	3.2	1321.2	1320.9	0.3	
	P	21.07	150	654	2.5	1322.7	1322.2	0.5	
	Q	21.45	140	598	2.7	1329.6	1329.6	0.0	
	R	21.48	253	1166	1.4	1332.9	1332.9	0.0	
	S	21.84	132	392	4.2	1333.9	1333.6	0.3	
	T	22.15	79	280	5.8	1340.1	1339.5	0.6	
	U	22.27	166	691	2.4	1342.7	1342.5	0.2	
	BROOKHAVEN CREEK	A	0.49	285 ²	1111	2.6	1294.0	1293.0	1.0
		B	0.78	178	733	3.9	1296.8	1296.0	0.8
C		0.87	225	1246	2.3	1300.1	1300.1	0.0	
D		1.12	274	1669	1.7	1303.5	1302.5	1.0	
E		1.54	225	1203	2.4	1305.3	1304.3	1.0	
F		1.65	141	464	6.1	1307.8	1307.8	0.0	
G		1.89	159	987	2.9	1308.4	1307.8	0.6	
H		2.02	79	565	5.0	1313.6	1312.9	0.7	
I		2.21	389	3062	0.9	1315.2	1314.3	0.9	
J		2.40	141	885	2.5	1320.9	1320.9	0.0	
K		2.46	528	3916	0.6	1321.0	1321.0	0.0	
L		2.62	326	1956	1.1	1325.5	1325.1	0.4	
M		2.91	290	1175	1.9	1325.6	1325.2	0.4	
N		3.06	585	1649	1.3	1329.3	1328.9	0.4	
O	3.22	162	352	6.3	1329.7	1329.2	0.5		
					1331.5	1331.0	0.5		

¹MILES ABOVE MOUTH
²THIS WIDTH EXTENDS BEYOND COUNTY BOUNDARY

FLOODWAY DATA

OVERBROOK ADDN.

MAX WTR LEVEL AT CENTRAL 100YR STORM

$Q_{100} = 4716$ RATIONAL METHOD

$Q_{100} = 5479$ USGS METHOD

$Q_{100} = 679.5$ FENSL-H

Q_{100} AVERAGE = 5797 cfs USE 5800 cfs

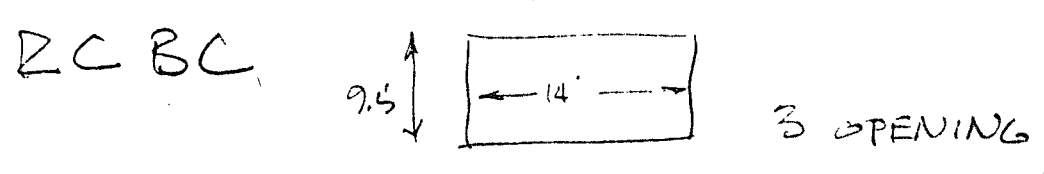
TRY W.L. @ 1315.5 @ CENTRAL 1314.0 @ CULV

WIER FLOW OVER CENTRAL

$L = 470'$ @ 1315.5 AVE DEPTH 0.75'

$H = 0.5 \left(\frac{Q}{L}\right)^{2/3} \cdot 75 = 0.5 \left(\frac{Q}{470}\right)^{2/3} \quad Q = 860 \text{ cfs}$

$5800 - 860 = 4940 \text{ cfs THRU RCBC WITH 1315.5W}$



$a = 399 \quad p = 141 \quad R = \frac{399}{141} = 2.83 \quad n = 0.12$

$V = \frac{Q}{A} = \frac{4940}{399} = 12.4 \text{ fps}$

$H_v = \frac{12.4^2}{64.4} = 2.39'$

$H_e = 0.5 \times 2.87 = 1.19'$

$H_t = \left(\frac{29 \cdot 0.012^2 \cdot 36}{2.83^{1.33}}\right) (2.39) = 0.09$

W.L. 1315.5 @ CEN
w/5800 cfs DISCHARGE

$D_c = .315 \left(\frac{4940}{36}\right)^{2/3} = 8.38$

$TW = \frac{D + D_c}{2} = \frac{9.5 + 8.38}{2} = 8.94'$

TRIAL #2

WIER FLOW @ 1316.0

L = 540 @ 1316.0 AVE DEPTH 12"

$$H = 0.5 \left(\frac{Q}{L}\right)^{2/3} \quad 1.0 = 0.5 \left(\frac{Q}{540}\right)^{2/3} \quad Q = 1550 \text{ cfs}$$

5800 - 1550 = 4250 cfs THRU RC BC WITH 1316 W.L.

$$\frac{Q}{S} = \frac{4250}{36} = 118 \quad \text{HW WLET CONTROL} = \frac{11.9 + 11.5}{2} = 11.7'$$

$$1301.72 + 11.7 = 1313.4$$

$$V = \frac{Q}{A} = \frac{4250}{399} = 10.65 \text{ fps}$$

$$H_v = \frac{10.65^2}{64.4} = 1.76'$$

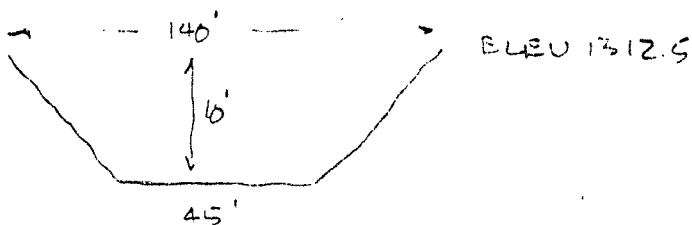
$$H_e = 0.5 \times 1.76 = 0.88'$$

$$H_f = \left(\frac{29 \cdot 0.12^2 \cdot 36}{2.43 \cdot 1.33}\right) 1.76 = 0.07'$$

$$D_c = .315 \left(\frac{4250}{36}\right)^{2/3} = 7.58'$$

$$TW = \frac{D + D_c}{2} = \frac{9.5 + 7.58}{2} = 8.54' \quad \text{CRITICAL DEPTH CONTROL}$$

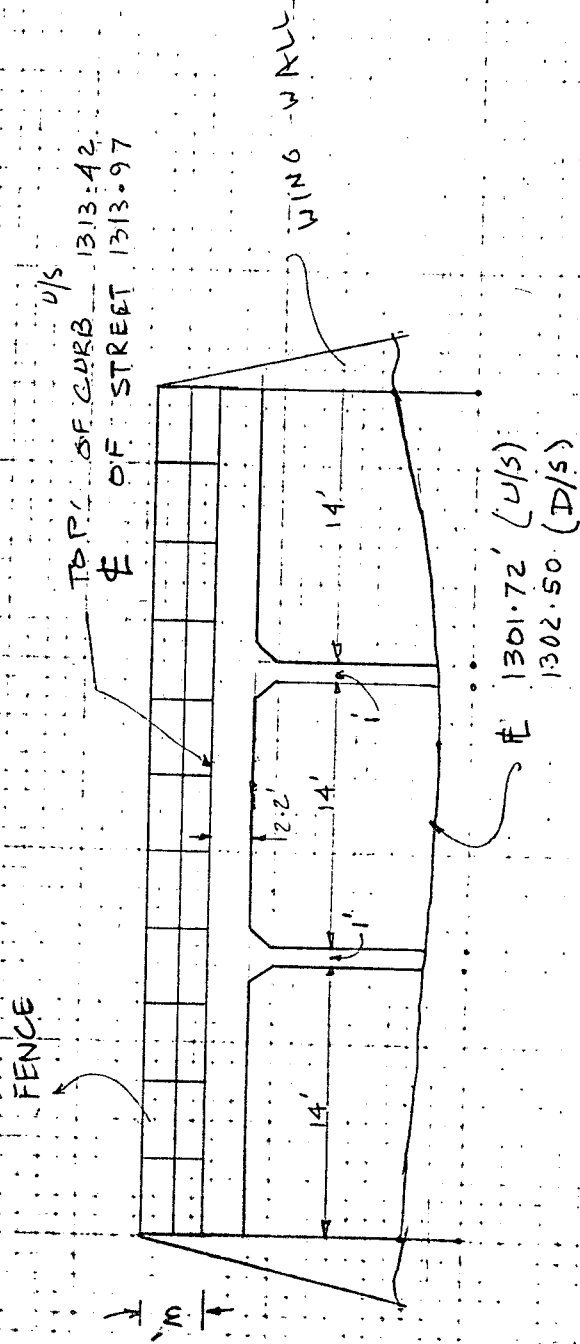
W.L. 1313.75



$$Q = 925 \quad S = .002'/\text{FT. FROM U.S.G.S.} \quad P = 142 \quad R = \frac{925}{142} = 6.5$$

$$Q = 925 \frac{1.486}{0.35} 6.5^{2/3} .002^{1/2} = 6117 \text{ cfs}$$

USE 10' FOR TW DEPTH



CULVERT ON CENTRAL

500 FEET EAST OF INTERSECTION OF
CENTRAL & 143RD

SCALE 1" = 10'

1-6-78

OVERBROOK ADDN. DRAINAGE TO R.C.B.C. ACROSS CENTRE

TEST AREA 4" SQ 1469.34 AC 1" = 2000' SCALE

5157	4080	(1082)
4080	2993	
1077	1087	

D.A.

129.5	6079		
9078	4540	3472.5	4716 AC
3457	3188		

$$T_c = \left(\frac{11.9 \cdot 4.41^3}{120} \right)^{0.345} = 2.78 \text{ HRS}$$

FALL 1422
1302

RATIONAL METHOD

C = 0.5 WHEN FULLY DEVELOPED

$i_2 = 0.8$	$Q = 4716 \times 0.5 \times 0.8 = 1886 \text{ cfs}$
$i_{10} = 1.4$	$Q = 4716 \times 0.5 \times 1.4 = 3301 \text{ cfs}$
$i_{75} = 1.6$	$Q = 4716 \times 0.5 \times 1.6 = 3773 \text{ cfs}$
$i_{50} = 1.8$	$Q = 4716 \times 0.5 \times 1.8 = 4244 \text{ cfs}$
$i_{100} = 2.0$	$Q = 4716 \times 0.5 \times 2.0 = 4716 \text{ cfs}$

USGS METHOD

RAINFALL = 3.55" IN 24 HRS DA = 7.376

$Q_2 = .707 (7.37)^{.548}$	$3.55^{4.752} = 870 \text{ cfs}$
$Q_{10} = 9.92 (7.37)^{.525}$	$3.55^{3.591} = 2678 \text{ cfs}$
$Q_{75} = 25.6 (7.37)^{.524}$	$3.55^{3.127} = 3931 \text{ cfs}$
$Q_{50} = 47.6 (7.37)^{.525}$	$3.55^{2.621} = 4244 \text{ cfs}$
$Q_{100} = 83.4 (7.37)^{.524}$	$3.55^{2.529} = 5879 \text{ cfs}$

OVERSOUND ADDU. 1-6-77

FENUL-H METHOD

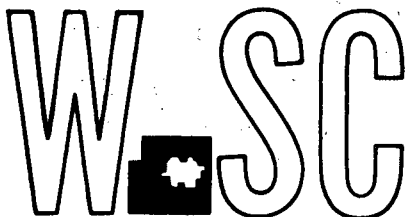
D.A. = 4716 AC LENGTH = 23,300 FT. MAP = 30"

PERMAN INTERVAL ANNUAL	a	MAP ^a	b	L ^b	Cx	s	Y _{CR}	Z _{CR}	Q _P	PERMAN INTERVAL PARTIAL DURATION
Z	2.32	2673	-.793	.000344	1440	.210	.404	.41	782	
40	1.47	148	-.841	.000212	421	.210	1.321	.41	2554	
25	1.16	51.7	-.849	.000195	205	.712	2.067	.41	3996	
50	.955	25.7	-.856	.000178	600	1.207	2.745	.41	5307	
100	.770	13.7	-.862	.000171	1500	1.208	3.51	.41	6795	

Y_{CR} Z_{CR} A

A

WICHITA—SEDGWICK COUNTY



METROPOLITAN AREA PLANNING
DEPARTMENT

CITY HALL — TENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4561

Reiss and Goodness Engineers
2160 W. 21st Street
Wichita, Kansas 67204

Re: S/D 78-111 - Final plat of Crestview Country Club Estates-
East Meadows 2nd Addition

Gentlemen:

At the regular meeting of the Subdivision Committee of the Metropolitan Area Planning Commission, March 22, 1979, the above captioned plat was considered. The action of the Committee was to recommend that this plat be approved subject to:

- A. The minimum pad elevation in the plat's text shall indicated on the face of the plat.
- B. Approval of the plat shall be subject to the approval of the associated zone case SCZ-0418, "R-1" to "AA".
- C. At the applicant's request, the following street name changes may be indicated on the final plat tracing: Tipperary Circle to Shannon Circle; Sharon Circle to Tipperary Circle.
- D. The applicant shall submit covenants or a Homeowners' Association which shall provide for the maintenance of Reserve A and which shall assure that no obstructions, such as fences, etc., will be permitted in the pedestrian easements.
- E. The applicant shall guarantee the installation of a public water supply to serve each lot.
- F. The applicant shall guarantee through the Crestview Improvement District the paving of all streets to City of Wichita standards.
- G. The applicant shall guarantee through the Crestview Improvement District the installation of sanitary sewers to serve each lot.
- H. The applicant shall submit by separate instrument a 20 ft. utility easement adjacent to the west line of the plat and likewise adjacent to the north line of the plat if there is no existing easement at that location.

Reiss and Goodness Engineers
2160 W. 21st St. - Page 2
March 23, 1979

- I. The applicant shall request annexation of subject property to the City of Wichita.
- J. The applicant's engineer shall submit his final hydrology calculations to the Flood Control Office for review and shall guarantee any drainage improvements required by the platting of this property.
- K. The easement for drainage and utilities between Lots 26 and 27 needs to be wider and the applicants engineer shall contact the City Engineer regarding this matter. The widened easement shall be indicated on the final plat tracing.
- L. Recording of the plat within 30 days after approval by the Board of City Commissioners.

Enclosed with the applicant's copy of this letter is a list of the five methods which have been adopted as being acceptable for guaranteeing improvements required in the approval of plats. Forms for the bond and irrevocable letter of credit are available from this office.

The enclosed "marked" copy of the final plat is for your information and files.

This matter will be forwarded to the Planning Commission for its consideration on Thursday, March 29, 1979, at 1:30 p.m. If you have any questions regarding this matter, please call.

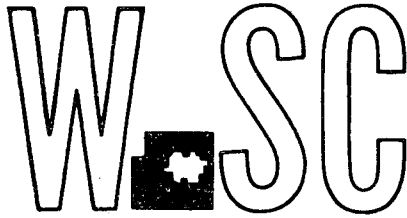
Sincerely,

CLN
Curtis L. Newby
Junior Planner

CLN:bh

cc: ~~Crestview~~ Dev. Corp., 536 S. Main, 67202 - Atten: James F. Haugen
✓ Dean Sellers, Assistant City Engineer

WICHITA—SEDGWICK COUNTY



METROPOLITAN AREA PLANNING
DEPARTMENT

CITY HALL — TENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202

(316) 268-4561

Reiss and Goodness Engineers
2160 W. 21st Street
Wichita, Kansas 67204

**Re: S/D 78-111 - Crestview Country Club Estates - East
Meadows 2nd Addition**

Gentlemen:

At the regular meeting of the Subdivision Committee of the Metropolitan Area Planning Commission, February 22, 1979, the above captioned plat was considered. The action of the Committee was to approve the preliminary and authorize preparation of the final plat, subject to the following:

- A. Approval of the plat shall be subject to the approval of the associated zone case SCZ-0418 "R-1" to "AA".
- B. Springdale Court shall be relabeled as "Donegal Circle" on the final plat.
- C. Additional easements as indicated on the "marked" copy of the preliminary plat furnished to the applicant's engineer shall be shown on the final plat.
- D. It is recommended that the 40' fire lane easements to Lot 28 be platted as part of that lot; and that a 25' front yard setback be provided adjacent to Lots 27 and 29 on Lot 28.
- E. The applicant shall submit covenants or a Homeowners Association agreement which shall provide for the maintenance of Reserve A and which shall assure that no obstructions such as fences, etc., will be permitted in the pedestrian easements.
- F. The applicant shall guarantee the construction of sidewalks on both sides of all the cul-de-sac streets and along the west side of North Springdale Drive and within each of the sidewalk easements. It should be noted, however, that sidewalks have been waived on all other additions in this section.

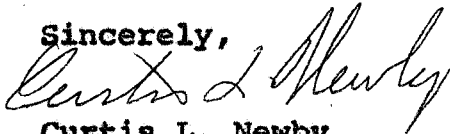
Reiss and Goodness Engineers
2-26-79
Page 2

- G. The applicant shall guarantee the paving of all the streets to City of Wichita standards.
- H. The applicant shall guarantee the installation of sanitary sewers to serve each lot.
- I. The applicant shall guarantee the installation of a public water supply to serve each lot.
- J. All utilities shall be installed underground.
- K. Requirements for a final plat (see pages 20-25, Part 4, Article 5 of the MAPC Subdivision Regulations).

Enclosed herewith is the "marked" copy of the preliminary plat for your information and files.

If you should have any questions concerning this matter, please call.

Sincerely,



Curtis L. Newby
Junior Planner

CLN:bh

cc: Crestview Development Corporation - 536 S. Main, 67202
Dean Sellers, Assistant City Engineer

Flood Control Maintenance

October 26, 1978

Louise Olivarez, Jr. Planner, MAPD

Max Greene

- Review of Sketch Plats:
 - Bridgewood Addn. to Crestview Country Club Estates,
 - East Meadows 2nd Addn. to Crestview Country Club Estates and
 - Lee Cox Addn.

I have reviewed subject plats and have the following comments:

- 1) Bridgewood Addn. to Crestview Country Club Estates
 - a. On all dams the Floodway should encompass the Flood Plain.
 - b. Need hydrologic information on the dams and spillway data.
 - c. Minimum pad along Floodway should be 3' above computed water surfaces.
 - d. In the southeast corner of the plat, need a Floodway delineated for the existing pond.
 - e. Need storage pond to store excess runoff.
- 2) East Meadows Second Addn. to Crestview Country Club Estates
 - a. Need storage pond to store excess runoff and drainage plan where you plan to bring water off the plat.
- 3) Lee Cox Addn.
 - a. Need to address problems of pipelines thru the area.
 - b. Need drainage plan for the area.
 - c. Consider storage pond to store excess runoff.
 - d. Outlet is structure thru levee about 1/2 mile east of plat.

I trust this is sufficient information to allow processing of the plats. If you have any questions, please advise.

Max Greene,
Flood Control Engineer
Flood Control Maintenance

MG/glm

cc: G. H. Wilton
Yash Desai
Brent Ramsberg/County

Bridgewood Addn. to Crestview Country Club Est.
East Meadows 2nd Addn. to Crestview Country Club
Est.
Lee Cox Addn. Plat Files

①

EAST MEADOWS 2ND ADDN: 1-16-79
BRIDGE CAPACITY AT 143RD

$Q = 5800 \text{ cfs}$ $a = 332 \text{ s.f.}$ $V = \frac{5800}{332} = 17.5 \text{ f}$

ENTRANCE LOSS $k_e = 0.4$

$H_e = \frac{17.5^2}{2g} \cdot k_e = 1.9'$

FRICTION LOSS

WETTED PERIMETER	44' CONC	50' EARTH	
$n = .012$ CONC	$\times 44 = 1.008$		
$n = .035$ EARTH	$\times 50 = 1.750$		
	<u>2.758</u>		$n = .020$ COMPOS

$R = \frac{a}{p} = \frac{332}{134} = 2.48$ $L = 44'$ ASSUMED

$H_f = \frac{2.9 \cdot .020^2 \cdot 44 \cdot 17.5^2}{2.48^{1.33} \cdot 64.4} = 0.72$

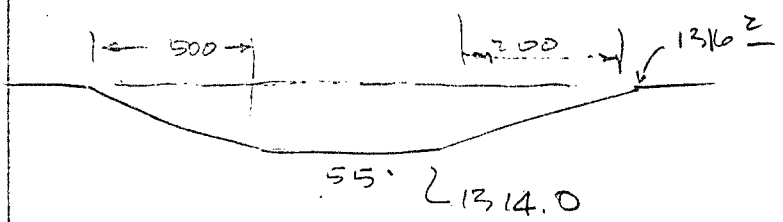
VELOCITY HEAD

$H_v = \frac{V^2}{2g} = \frac{17.5^2}{64.4} = 4.76$

(2)

BRIDGE CAPACITY @ 1316.2 W.S. ELEV.

WEIR FLOW OVER 143 RD



L = 755

AVG DEPTH = 55 @ 22

700 @ 0.95

121
665
<hr/>
786

$H = 0.5 \left(\frac{Q}{L} \right)^{2/3}$

$1.04 = .5 \left(\frac{Q}{755} \right)^{2/3}$

Q = 2300 cfs

$\frac{786}{755} = 1.0$

Q THRU BRIDGE 5800 - 2300 = 3600 cfs

$V = \frac{3600}{332} = 10.8 \text{ fps}$

TW = 14.3

$H_e = \frac{10.8^2}{2g} \cdot 0.4 = 0.7'$

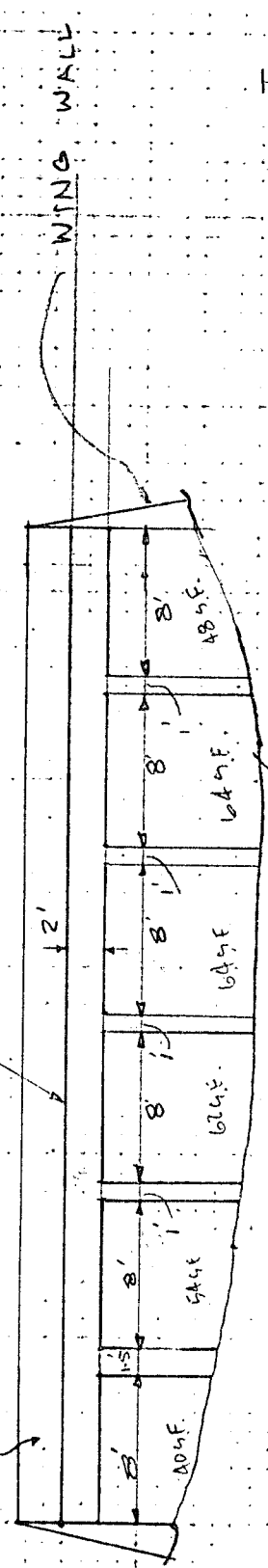
$H_f = \frac{29 \cdot 0.20^2 \cdot 44}{2.44^{1.32}} \cdot \frac{0.4^2}{2g} = 0.5$

$H_v = \frac{10.8^2}{64.4} = 1.8'$

$H_W = 14.3 + 1.4 + 0.5 + 0.7 = 17.3$

TOP OF CURB U/S 1314.05
 & ROAD 1314.27

FENCE



TOTAL AREA

FL 1303.95 U/S
 1303.73 D/S

CULVERT AT 143 RD STREET

960' NORTH OF INTERSECTION OF
 CENTRAL & 143 RD

SCALE 1" = 10'

