

```

*****
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE 06/11/96 TIME 08:45:35 *
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*****
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*****

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HEC-1 INPUT PAGE 1
LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID THE FOUNTAINS 2ND ADDN
2 ID PEAK FLOW FUTURE CONDITION
3 ID Q100 - GER STORM
4 ID FILE: FOUNT
5 IT 2 0 300
6 IO 5 0
7 KK SBL
8 KO
9 KM COMPUTE THE RUN OFF HYDROGRAPH
10 BA .094
11 PE 100 0 .87 1.86 3.8 4.6 5.1 6.0
12 LS 0 81.7
13 UD 0.32
14 KK OUT
15 KM ROUTE FLOW THROUGH STRUCTURE
16 KO
17 RS 1 STOR -1
18 SV 0 5.82
19 SE 1364.5 1369.0
20 SQ 0 47.95 124.8 185 229.3
21 SE 1364.5 1366.5 1367.5 1368.4 1369
22 SS

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X X XXXXX XXXX X
X X X X X X X
X X X X X X X
XXXXX XXXX X XXXX X
X X X X X X X
X X X X X X X
X X XXXXX XXXX XXX

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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1EW.

THE DEFINITIONS OF VARIABLES -RTIME- AND -RTIOP- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -ANSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION.

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS-WRITE STAGE FREQUENCY, DSS-READ TIME SERIES AT DESIRED CALCULATION INTERVAL, LOSS RATE-GREEN AND AMPT INFILTRATION, KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

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THE FOUNTAINS 2ND ADDN
PEAK FLOW FUTURE CONDITION
Q100 - GER STORM
FILE: FOUNT

6 IO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0 HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
IMIN 2 MINUTES IN COMPUTATION INTERVAL
IDATE 1 0 STARTING DATE
ITIME 0000 STARTING TIME
INQ 300 NUMBER OF HYDROGRAPH ORDINATES
INDATE 1 0 ENDING DATE
IOTIME 0958 ENDING TIME
ICENT 19 CENTURY MARK

COMPUTATION INTERVAL 0.03 HOURS
TOTAL TIME BASE 9.97 HOURS

ENGLISH UNITS
DRAINAGE AREA SQUARE MILES
PRECIPITATION DEPTH INCHES
LENGTH, ELEVATION FEET
FLOW CUBIC FEET PER SECOND
STORAGE VOLUME ACRES-FEET
SURFACE AREA ACRES
TEMPERATURE DEGREES FAHRENHEIT

```

```

QSCAL 0 HYDROGRAPH PLOT SCALE
IPRCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 21 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 300 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.033 TIME INTERVAL IN HOURS

```

```

*****
* *
14 KK * 0 * UT
* *
*****

16 KO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0 HYDROGRAPH PLOT SCALE
IPRCH 0 PUNCH COMPUTED HYDROGRAPH
IOUT 21 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORDINATE PUNCHED OR SAVED
ISAV2 300 LAST ORDINATE PUNCHED OR SAVED
TIMINT 0.033 TIME INTERVAL IN HOURS

```

```

*****
* *
7 KK * SBL *
* *
*****

8 KO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL

```

RUNOFF SUMMARY										
FLOW IN CUBIC FEET PER SECOND										
TIME IN HOURS, AREA IN SQUARE MILES										
OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE	
				6-HOUR	24-HOUR	72-HOUR				
HYDROGRAPH AT	SBL	245	3.37	40	24	24	0.09			
ROUTED TO	0	186	3.60	40	24	24	0.09	1368.41	3.60	

*** NORMAL END OF HEC-1 ***

The FOUNTAINS 2ND ADDN

REDUCE FLOW FROM POND TO 196 cfs

TRY 7.9 WEIR

ELEV	FLOW
64.5	0
66.5	67.95
67.5	124.8
68.4	185
69.0	229.3

```

*****
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* MAY 1991 *
* VERSION 4.0.1E *
* RUN DATE 01/09/95 TIME 14:02:27 *
*****

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*****
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 551-1748 *
*****

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X X XXXXX XXXX X
X X X X X X X
X X X X X X X
XXXXX XXXX X XXXX X
X X X X X X X
X X X X X X X
X X XXXXX XXXX XXX

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17 RS 1 STOR -1
18 SV 0 5.82
19 SE 1364.5 1369.0
20 SQ 0 25.5 85.5 316
21 SE 1364.5 1366.5 1367.5 1369.0
22 SS

```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1EW.

THE DEFINITIONS OF VARIABLES -RTIME- AND -RTIOP- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -ANSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION.

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS-WRITE STAGE FREQUENCY, DSS-READ TIME SERIES AT DESIRED CALCULATION INTERVAL, LOSS RATE-GREEN AND AMPT INFILTRATION, KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

 FLOOD HYDROGRAPH PACKAGE (HEC-1)
 MAY 1991
 VERSION 4.0.1B

U.S. ARMY CORPS OF ENGINEERS
 HYDROLOGIC ENGINEERING CENTER
 609 SECOND STREET
 DAVIS, CALIFORNIA 95616
 (916) 551-1748

HEC-1 INPUT PAGE 1

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBI	245.	3.37	40.	24.	24.	0.09		
ROUTED TO	0	217.	3.50	39.	24.	24.	0.09	1368.36 3.50	

*** NORMAL END OF HEC-1 ***

 FLOOD HYDROGRAPH PACKAGE (HEC-1)
 MAY 1991
 VERSION 4.0.1B

U.S. ARMY CORPS OF ENGINEERS
 HYDROLOGIC ENGINEERING CENTER
 609 SECOND STREET
 DAVIS, CALIFORNIA 95616
 (916) 551-1748

HEC-1 INPUT PAGE 1

Y X XXXXXX XXXX X
 I X X I I I X
 I X X I I I X
 XXXXXX XXXX X XXXX X
 X X X I I X
 X X X I I X
 Y X XXXXXX XXXX X

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1S, HEC1DB, AND HEC1CW.
 THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
 THE DEFINITION OF -ANSSK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
 NEW OPTIONS: DAMBREK= OUTFLOW SUBMERGENCE, SINGLE EVENT DAMAGE CALCULATION, DSS=WRITE STAGE FREQUENCY,
 DSS=READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE=GREEN AND IMPF INFILTRATION
 KINEMATIC WAVE= NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT PAGE 1

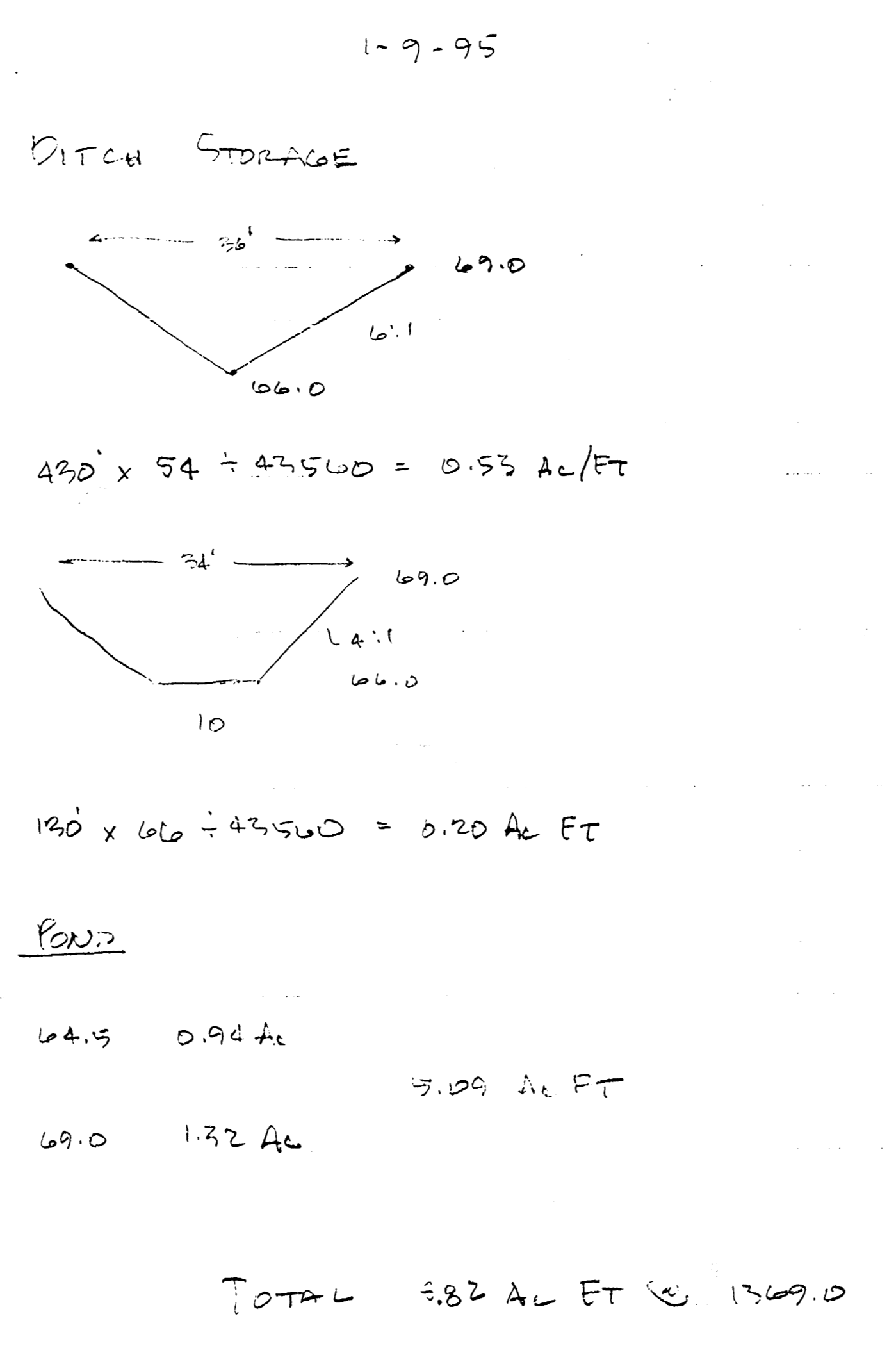
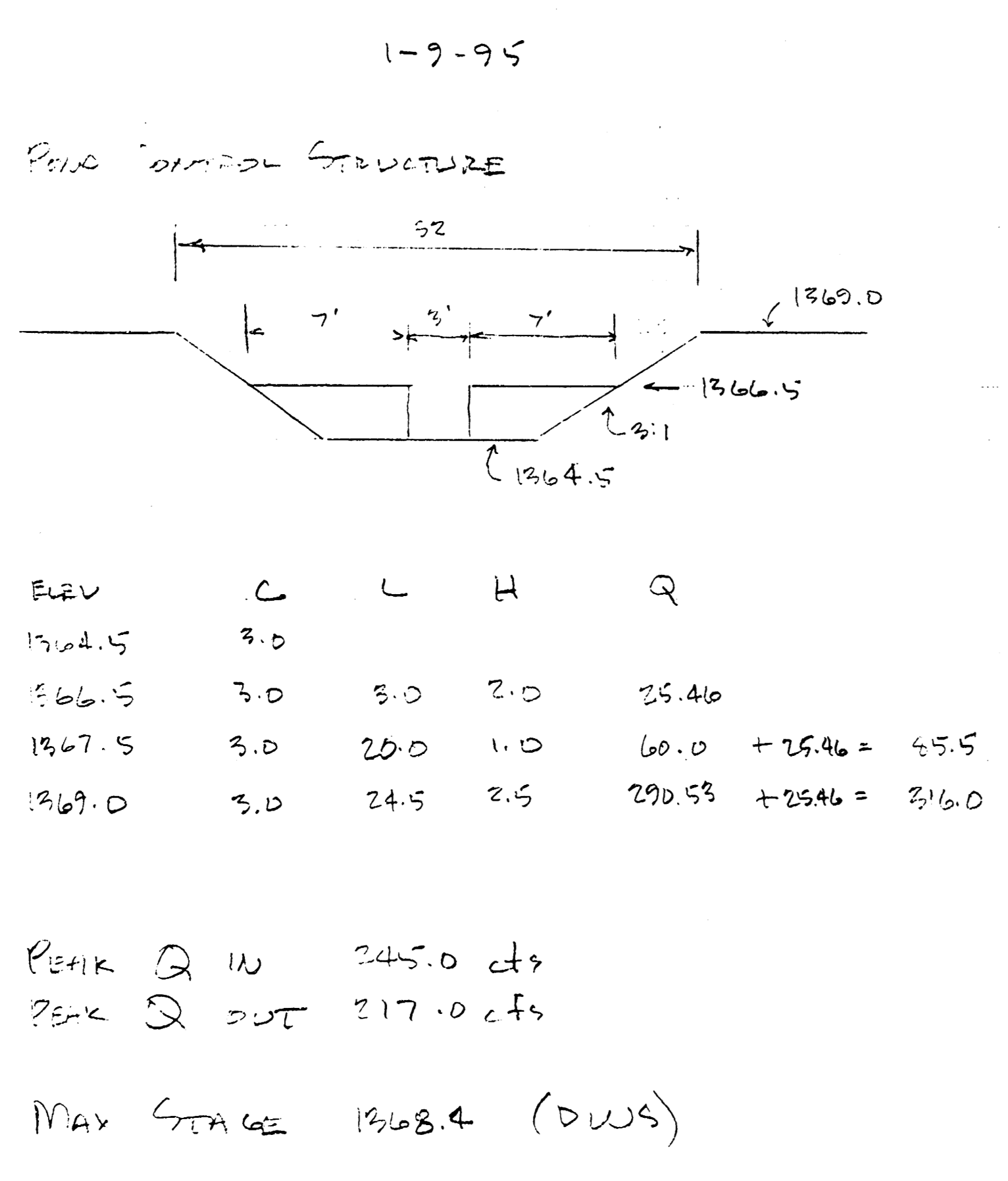
OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SBI	215.	3.43	38.	23.	23.	0.09		

*** NORMAL END OF HEC-1 ***

 FLOOD HYDROGRAPH PACKAGE (HEC-1)
 MAY 1991
 VERSION 4.0.1B

U.S. ARMY CORPS OF ENGINEERS
 HYDROLOGIC ENGINEERING CENTER
 609 SECOND STREET
 DAVIS, CALIFORNIA 95616
 (916) 551-1748

HEC-1 INPUT PAGE 1



1-9-95

THE FOUNTAINS 2ND ADDITION

60%	C	CN 75	3170
60%	D	CN 81	4260
			7980 / 100 = 79.8

CALCULATED WITH DAMBREK OPTION

$C_s = \frac{1000}{79.8} - 10 = 2.53$

$L_s = \frac{1900 \cdot 4}{1900 \times 11.3} \times \frac{2.53 \cdot 7}{1.38} = 0.37 \text{ HR}$

AFTER DEVELOPMENT

21.9 AC 1/4 AC LOTS 3.5% IMPERVIOUS 5.75 AC

$L_s = 0.19 \left[\frac{0.936}{64.16} \right]^{.5} \cdot 138 \cdot .57 = 0.92 \text{ HR}$

6 AC	C	DEVE.	CN 95	664
12.1 AC	D	DEVE.	CN 97	1052.7
16 AC	C	EXIST.	CN 76	1246
24 AC	D	"	CN 81	1984
				4907.7 / 60.1 = 81.7

DRAINAGE PLAN

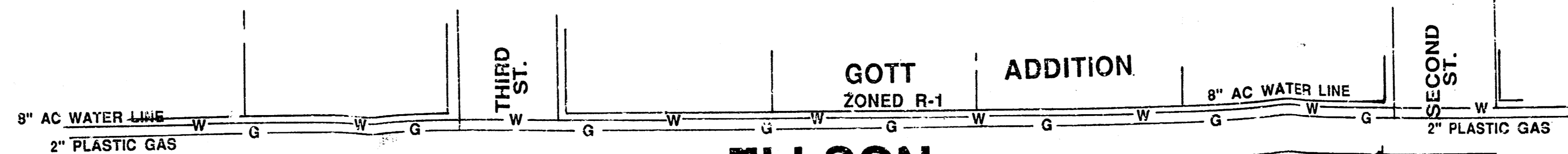
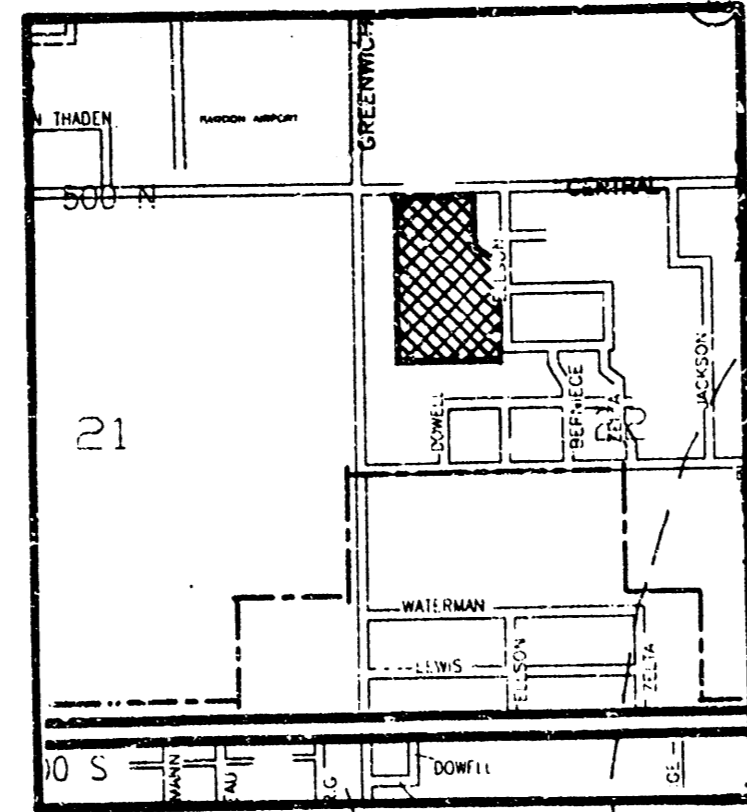
REVISED 3-26-96

Prepared by:

POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 • Wichita, Kansas 67208
Phone 316/685-4114 • FAX 316/685-4444

NOTES:

1. A DRAINAGE CONCEPT PLAN SHALL BE PREPARED AND SUBMITTED TO THE CITY ENGINEER BY POE AND ASSOCIATES.
2. BENCHMARK - (COUNTY) - TOP OF IRON IN THIMBLE AT INTERSECTION OF CENTRAL AND GREENWICH. EL. 1376.44.
3. BENCHMARK "A" - RAILROAD SPIKE IN POWER POLE 462'± EAST OF N.W. COR. PARCEL. EL. 1379.42.
4. BENCHMARK "B" - 3-40D NAILS IN BASE OF 10" ELM TREE 1330'± SOUTH AND 462'± EAST OF THE N.W. COR. OF PARCEL EL. 1379.17.
5. CONTOURS ARE PLOTTED AT ONE FOOT INTERVALS.
6. RESERVES "B", "C", AND "D" SHALL PERMIT DRAINAGE, SIDEWALKS, UTILITIES CONFINED BY EASEMENTS, LANDSCAPE AND PLAYGROUND EQUIPMENT OR RECREATIONAL IMPROVEMENTS.
7. ALL PROPERTY WITHIN LIMITS OF PLAT IS ZONED "AA" / COUNTY UNDER CONDITIONAL USE CU-232.
8. MINIMUM LOW OPENING ELEVATION FOR HOMES BUILT ON LOTS ADJACENT TO RESERVE "C" IS 1369.4

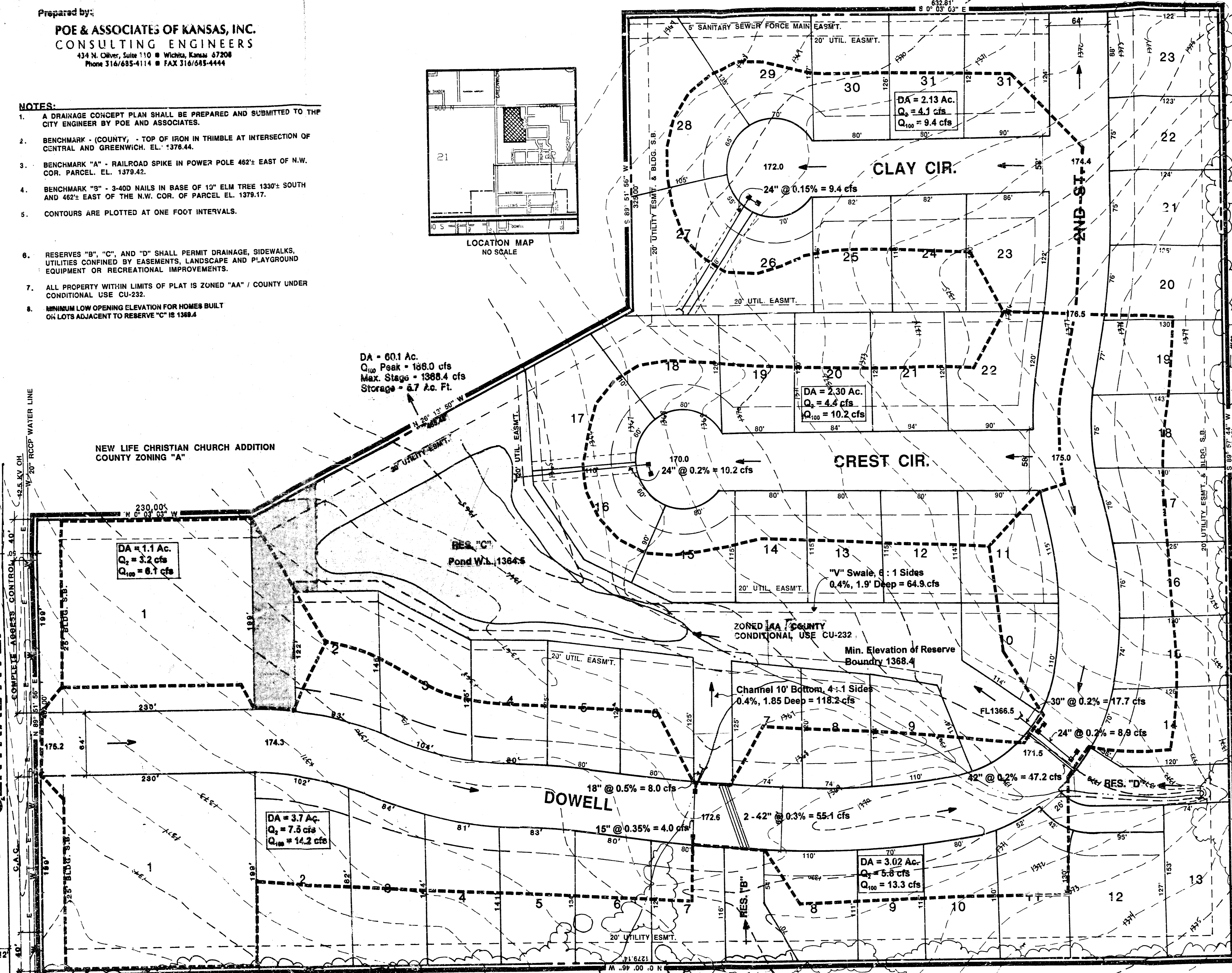


BALATHORP CECILIA LIVING TRUST
UNPLATED R-1

BALATHORP CECILIA LIVING TRUST
UNPLATED LC

COR. NW 1/4 NW 1/4 SEC. 22
1/2, 1/2 OF THE 6TH PM

CENTRAL AVE.



NEW LIFE CHRISTIAN CHURCH ADDITION
COUNTY ZONING "A"

WILLIAM A. RALSTON
UNPLATED LC

WILLIAM A. RALSTON
UNPLATED R-1

UNPLATED R-1
LESLIE M. WHITE

FOUNTAINS SECOND ADDITION

REPLAT OF FOUNTAINS ADDITION

OWNER: KARL SOLONCH INVESTMENTS, 1831 NORTH ROCK ROAD CT., WICHITA, KS 67205 (316) 684-9611



YUNG DESIGN GROUP

BRANSON OFFICE - 1831 W. HIGHWAY 76, SUITE 7 • BRANSON, MO 65616
PH: 417-335-8233 • FAX: 417-335-8286
WICHITA OFFICE - 413 E. 19TH STREET NORTH • WICHITA, KS 67220
PH: 316-685-5557 • FAX: 316-685-9058

DATE 12-14-94

REV. 2-9-96

SHEET TITLE:

PROJECT

PROJECT NO.

SHEET

DRAINAGE PLAN

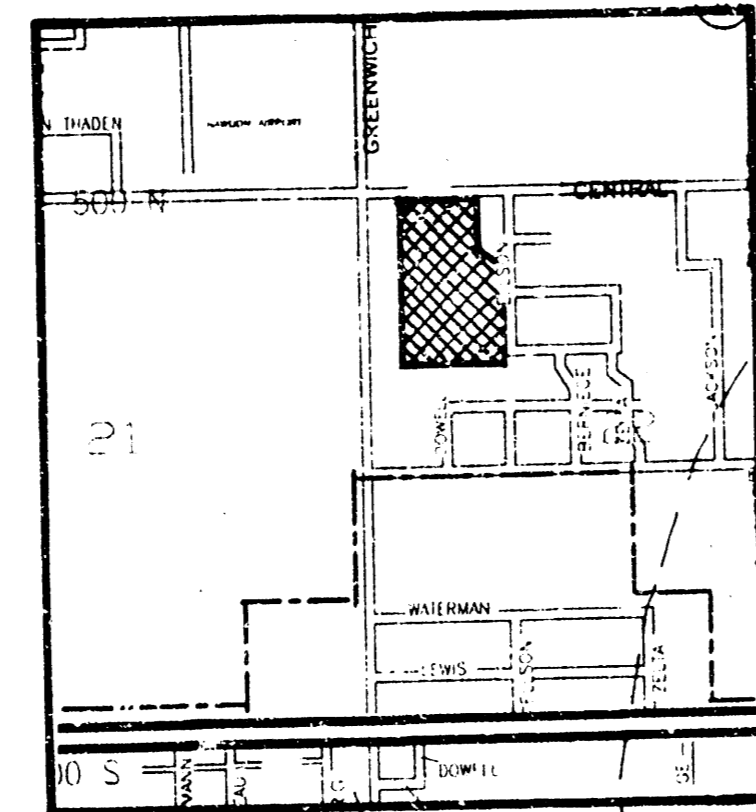
REVISED 3-26-96

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NOTES:

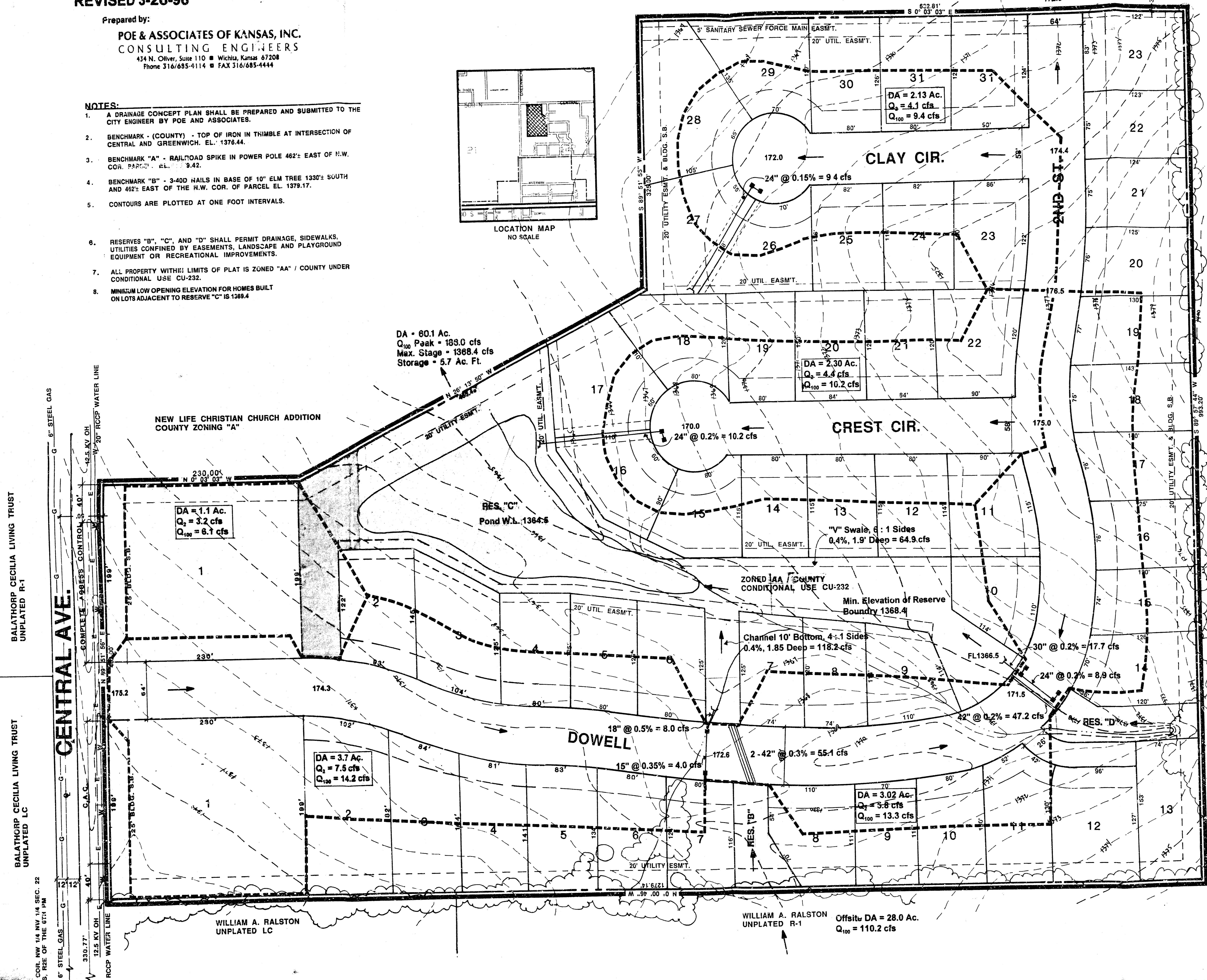
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7. ALL PROPERTY WITHIN LIMITS OF PLAT IS ZONED "AA" / COUNTY UNDER CONDITIONAL USE CU-232.
8. MINIMUM LOW OPENING ELEVATION FOR HOMES BUILT ON LOTS ADJACENT TO RESERVE "C" IS 1289.4



LOCATION MAP
NO SCALE



SCALE: 1" = 50'



UNPLATTED R-1
LESLIE M. WHITE

FOUNTAINS SECOND ADDITION

REPLAT OF FOUNTAINS ADDITION

OWNER: KARL SOLOMON INVESTMENTS, 831 NORTH ROCK ROAD CT., WICHITA, KS 67208 (316) 864-8511



YUNG DESIGN GROUP

BRANSON OFFICE • 1621 W. HIGHWAY 77, SUITE 7 • BRANSON, MO 65616
 PH. 417-335-9685 • FAX 417-335-9688
 WICHITA OFFICE • 4612 E. 20TH STREET, SUITE 101 • WICHITA, KS 67220
 PH. 316-685-7417 • FAX 316-685-3288

DATE 12-14-94

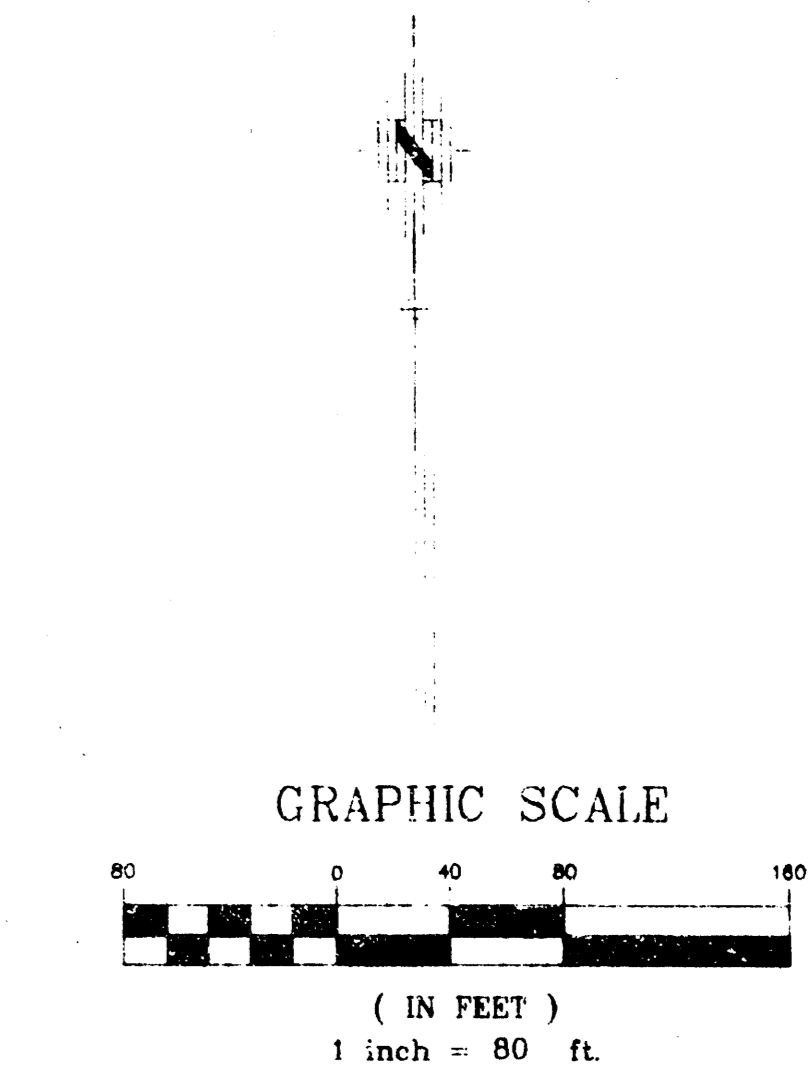
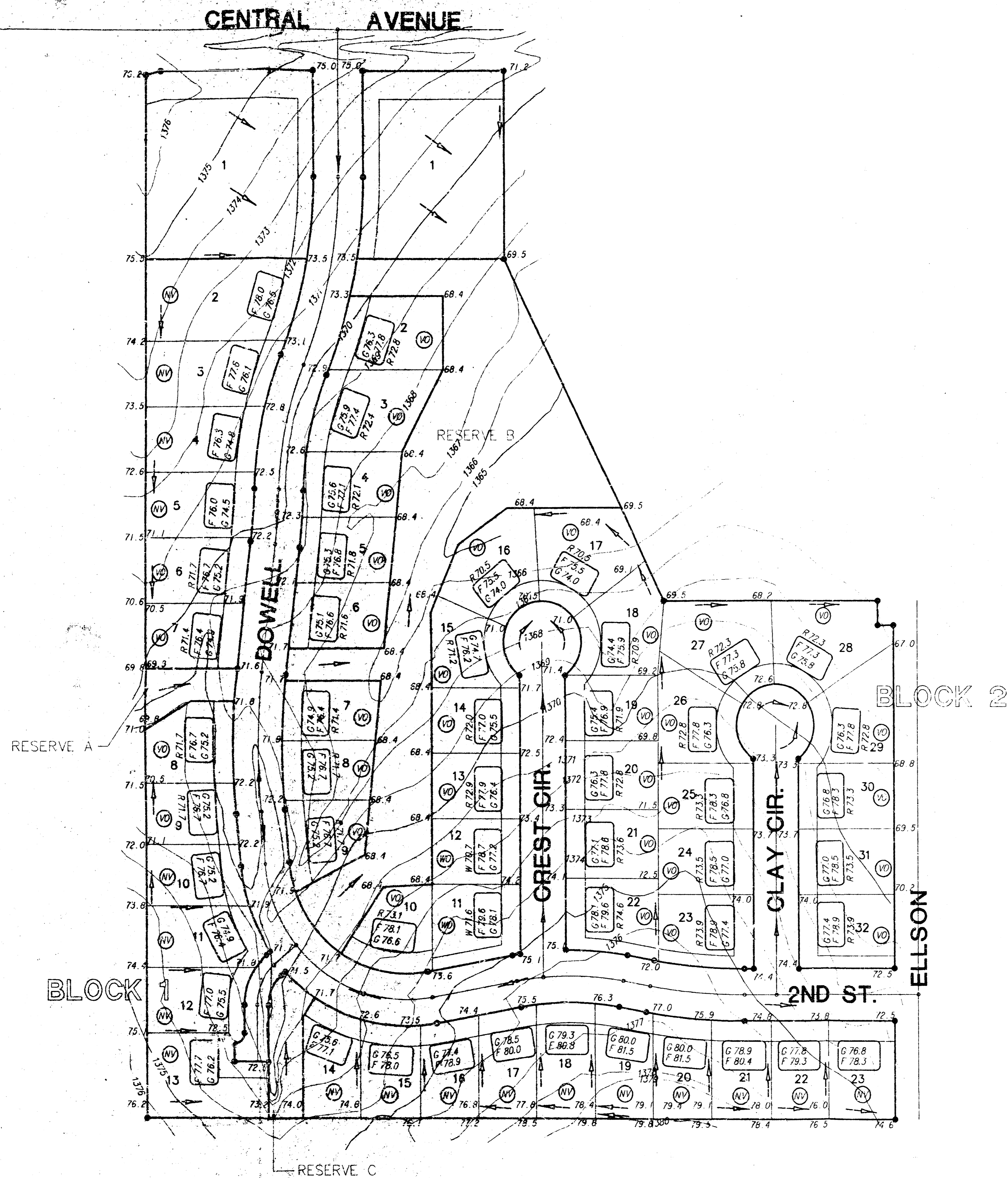
REV. 2-9-96

SHEET TITLE

PROJECT

PROJECT NO.

SHEET



**APPROVED
DRAINAGE PLAN**

- LEGEND**
- G = GARAGE FLOOR ELEVATION
 - F = TOP OF FOUNDATION WALL ELEVATION
 - R = TOP OF REAR WALL ELEVATION (VIEW OUT)
 - W = BASEMENT FLOOR ELEVATION (WALK OUT)
 - (V) = NO VIEW OUT
 - (W) = VIEW OUT
 - (M) = WALK OUT

- BENCHMARKS**
- (U.S.G.S. Datum)
1. Top of iron in thimble at intersection of Central & Greenwich
Elev. 1376.44
 2. Railroad spike in PP 462± E. of NW. Cor. Lot 1, Block 1.
Elev. 1378.42
 3. 3-40d nails in base of 10" elm tree 1330± S. and 462± E.
of the NW. Cor. of Lot 1, Block 1
Elev. 1378.17

LOT GRADING PLAN

THE FOUNTAINS 2ND ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

NW 1/4, SECTION 21, T27S, R2E

APRIL 12, 1996