

DRAINAGE PLAN

PRELIMINARY PLAT

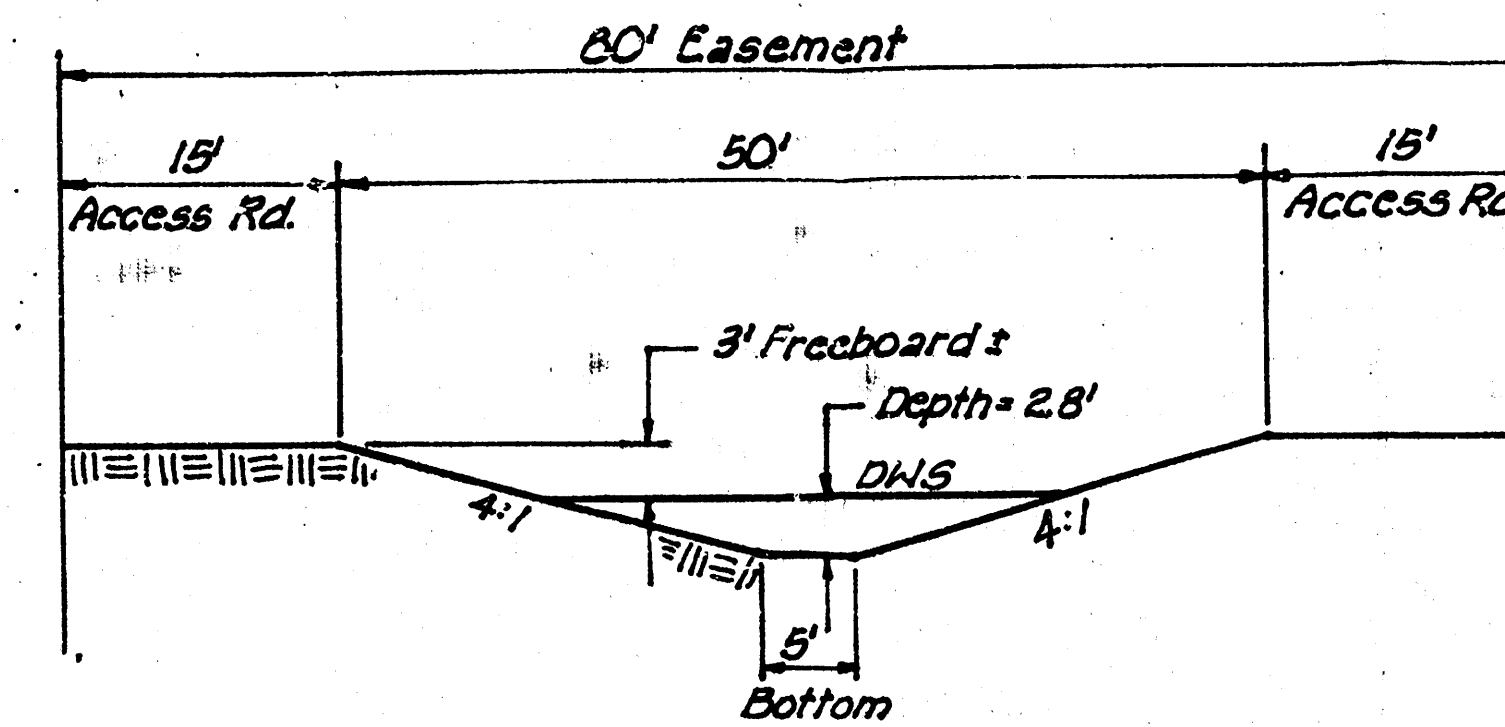
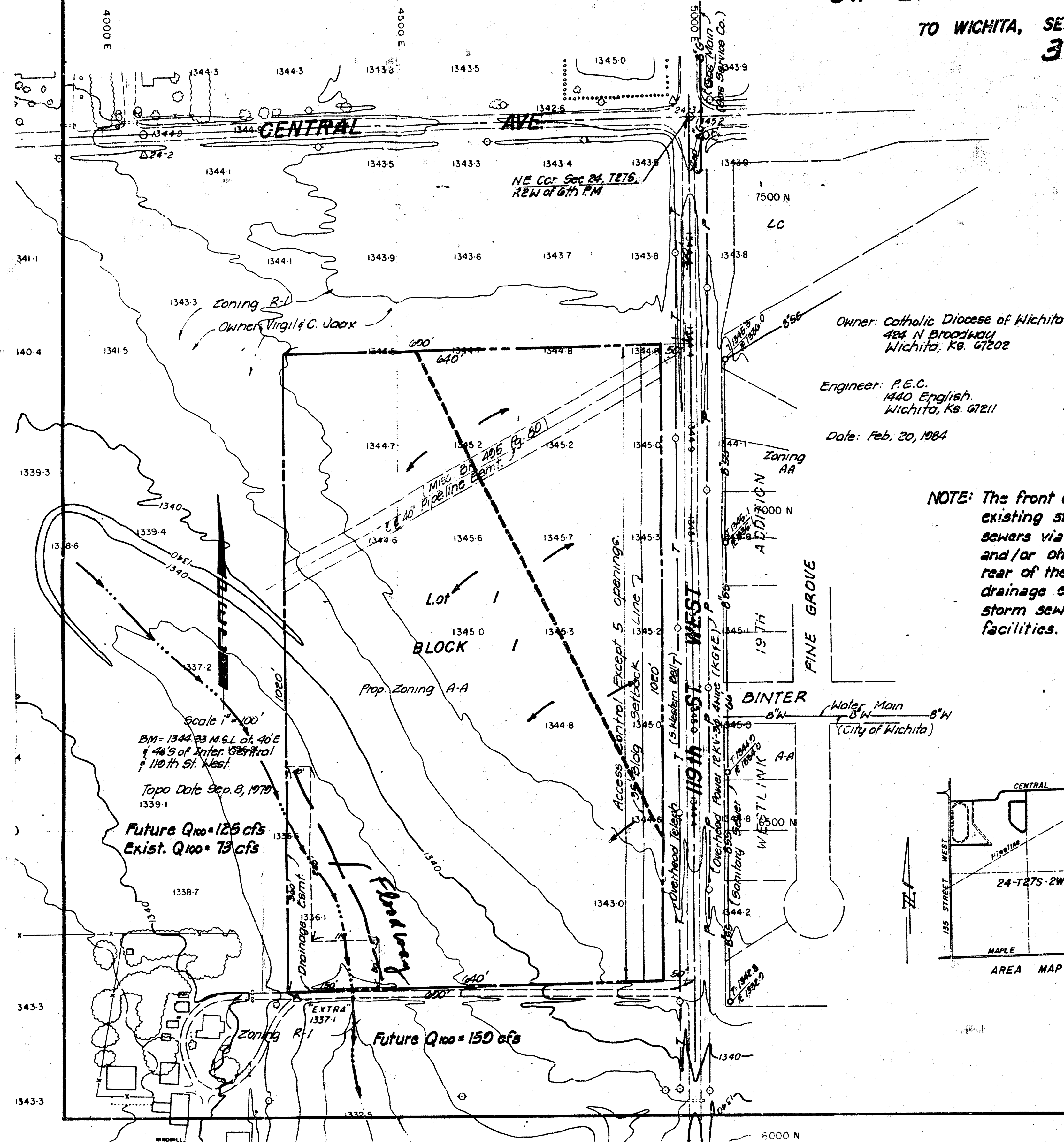
ST. ELIZABETH ANN SETON ADD.

TO WICHITA, SEDGWICK COUNTY, KANSAS.

3-2-84

LEGEND

- DRAINAGE FLOW DIRECTION
- - - DRAINAGE BASIN BOUNDARY
- EXISTING DRAINAGE SWALE



TYPICAL SECTION

MEMO

TO: City of Wichita
Engineering Department
7th Floor - City Hall
455 N. Main
Wichita, KS 67202

PROJECT: St. Elizabeth
Ann Seton Addition

DATE: February 24, 1984

ATTN: Chris Preterstein, F. E.

FROM: Charles S. Brown, P. E.

REFERENCE: Drainage Plan

COPIES TO:

File

Enroute Oltmann, MDD

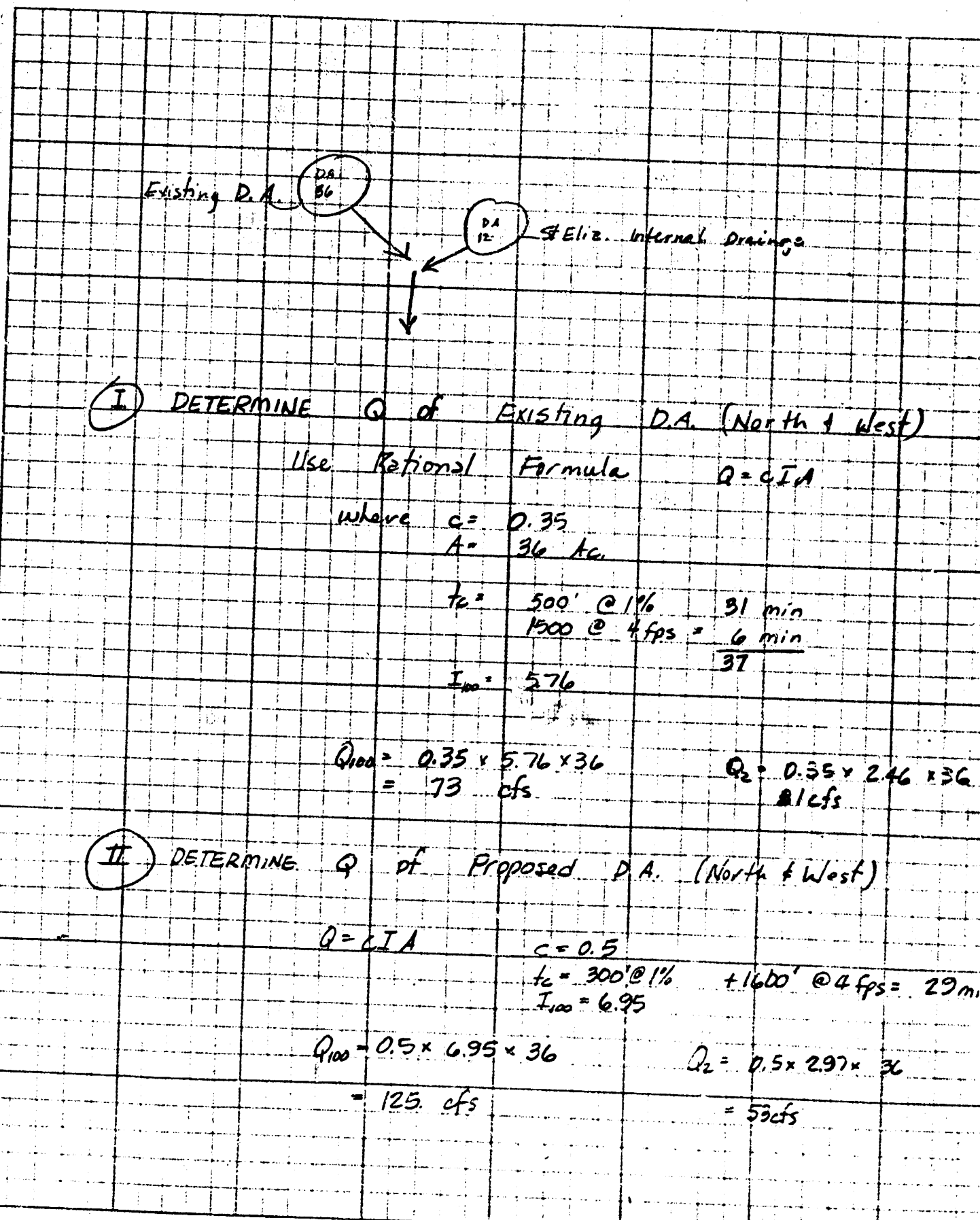
Jim Weber, SCOW

Transmitted herewith is one copy of the Drainage Plan and supporting calculations for the proposed St. Elizabeth Ann Seton Addition to Wichita, Kansas. The preliminary plat will be submitted on March 2, 1984, for hearing by the Sub-Division Committee on March 15, 1984. If you have any questions or need any additional information, please advise.

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Project: St. Elizabeth Addition

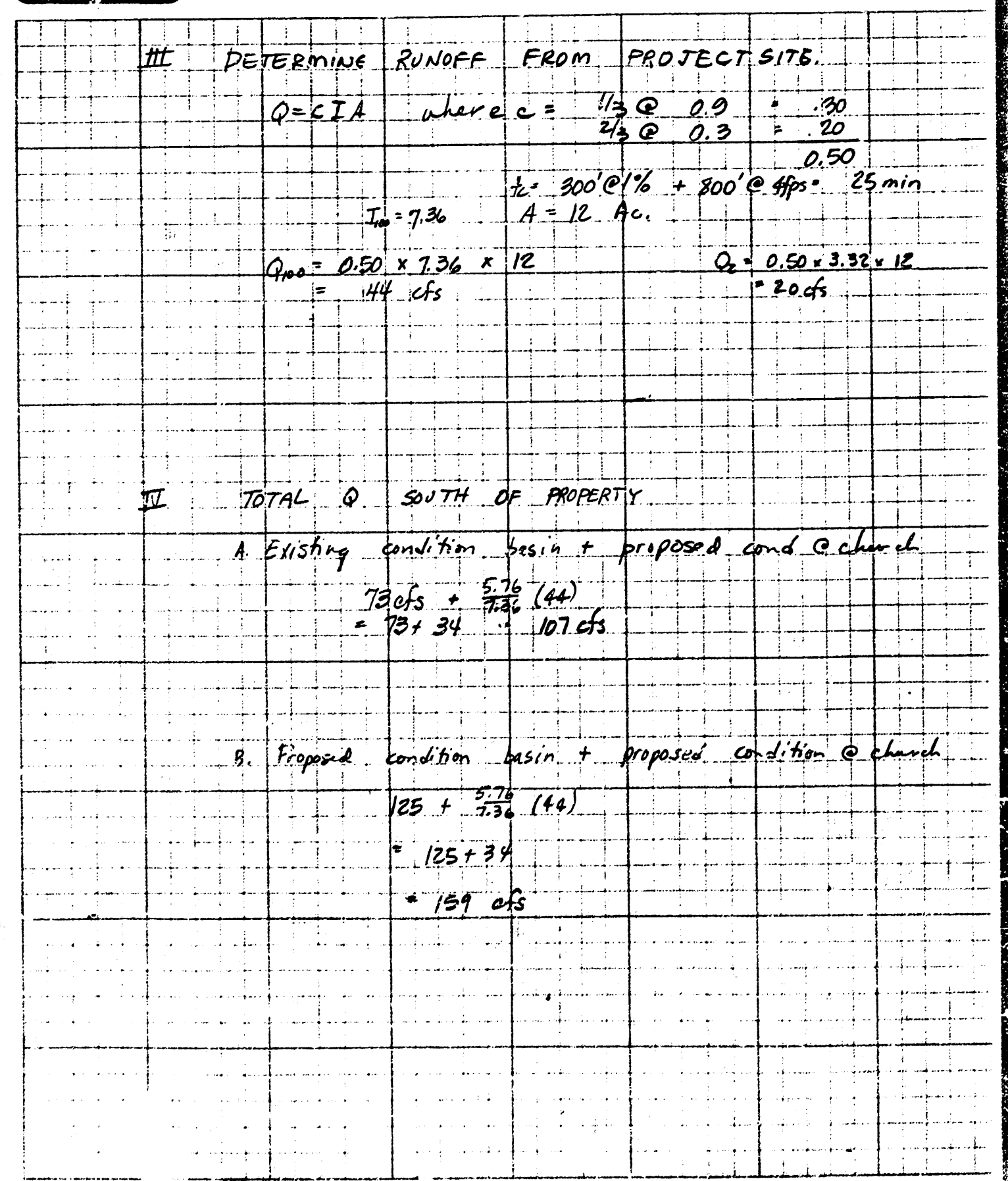
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Project: St. Elizabeth Addition

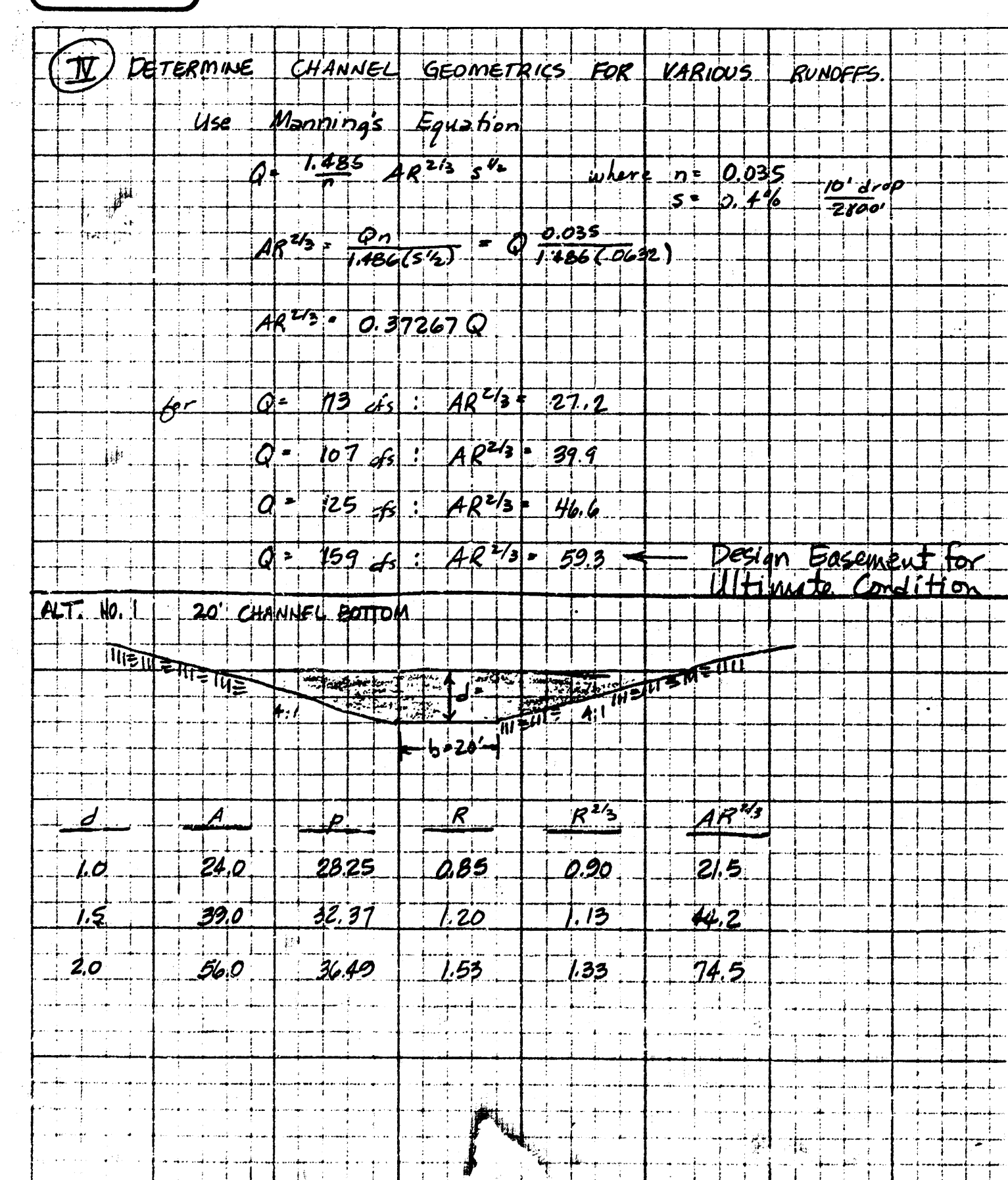
Item: Drainage



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Project: St. Elizabeth Addition

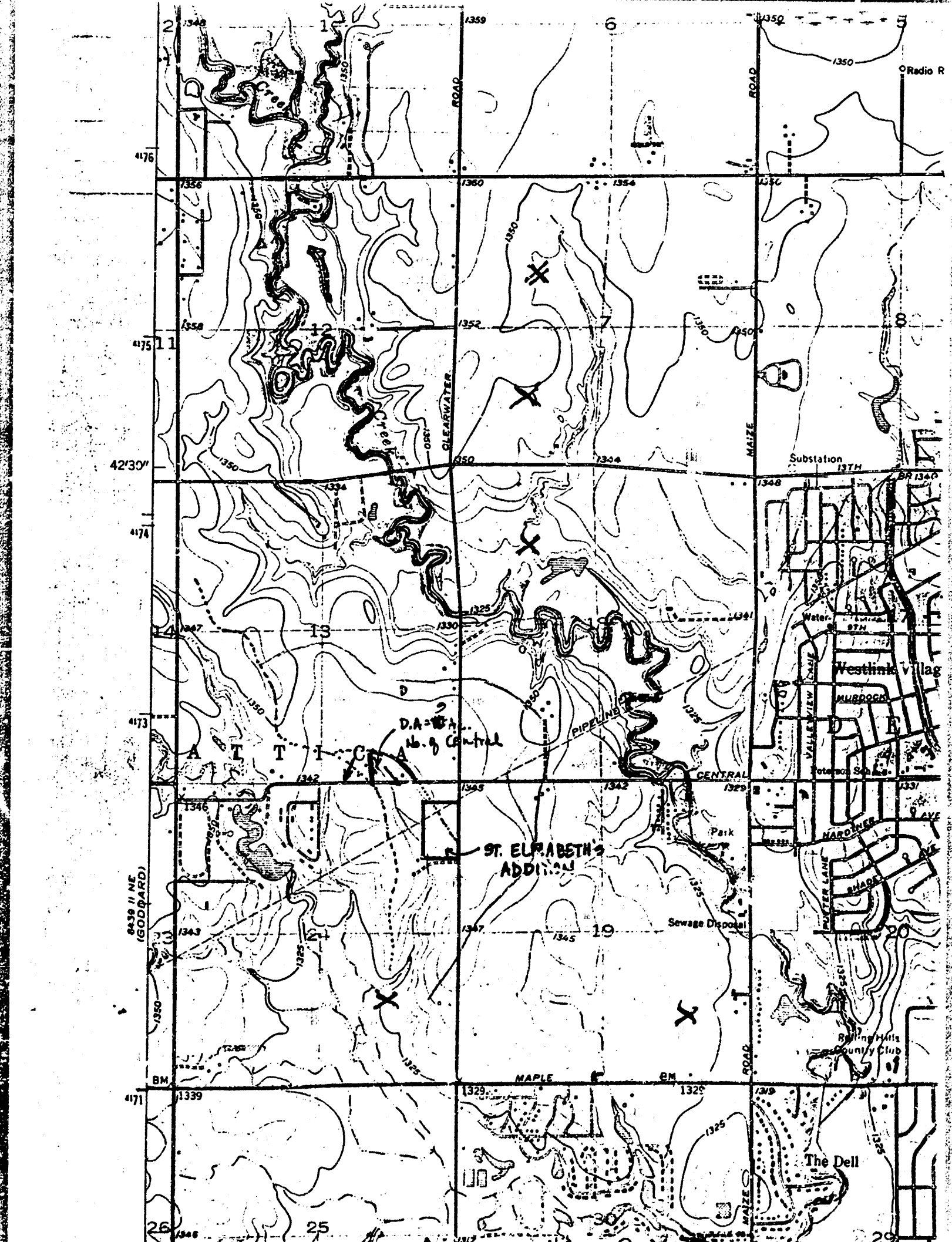
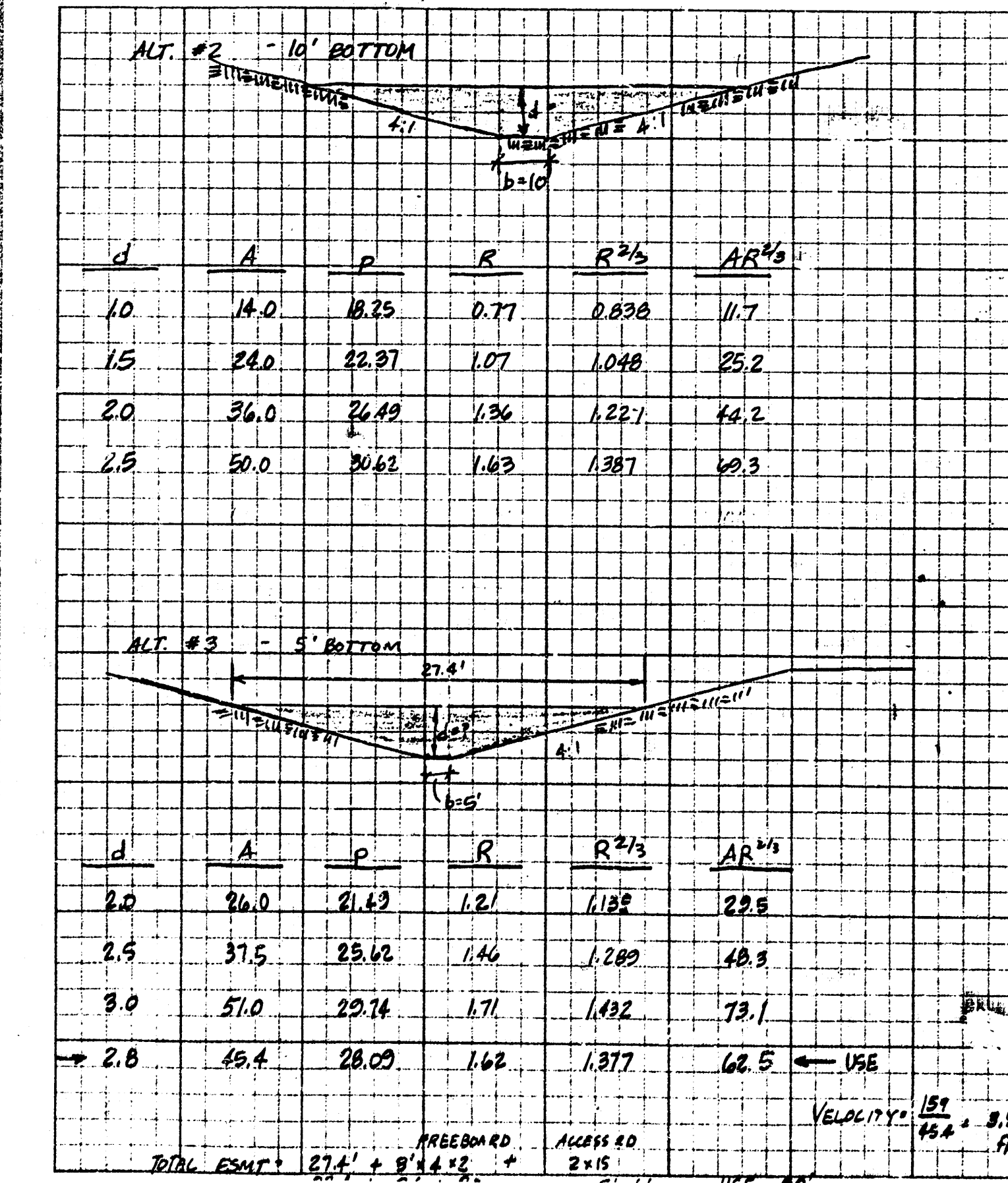
Item: Drainage



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Project: St. Elizabeth

Item: Drainage



RAINFALL INTENSITY TABLE

for

SEDGWICK COUNTY KANSAS

The following tabulation contains rainfall intensity in inches per hour as derived from ESEA Weather Bureau Technical Paper 40.

DURATION IN MINUTES	1-YR	2-YR	5-YR	10-YR	25-YR	50-YR	100-YR
5	4.67	6.23	8.00	9.34	10.67	12.23	13.79
6	4.35	5.80	7.45	8.70	9.94	11.29	12.84
7	4.09	5.46	7.02	8.19	9.36	10.72	12.09
8	3.88	5.15	6.66	7.77	8.89	10.18	11.48
9	3.71	4.95	6.36	7.43	8.49	9.72	10.96
10	3.56	4.75	6.11	7.13	8.15	9.33	10.52
11	3.43	4.58	5.89	6.87	7.85	8.99	10.14
12	3.32	4.43	5.69	6.64	7.59	8.69	9.80
13	3.21	4.29	5.51	6.43	7.35	8.42	9.60
14	3.12	4.17	5.36	6.25	7.14	8.18	9.23
15	3.04	4.07	5.21	6.08	6.95	7.97	8.98
16	2.96	3.96	5.09	5.93	6.78	7.77	8.76
17	2.90	3.86	4.97	5.79	6.62	7.59	8.55
18	2.83	3.78	4.86	5.67	6.48	7.42	8.37
19	2.77	3.70	4.76	5.55	6.34	7.27	8.19
20	2.72	3.63	4.66	5.44	6.22	7.12	8.03
21	2.67	3.56	4.57	5.34	6.10	6.99	7.88
22	2.62	3.49	4.49	5.24	5.99	6.86	7.74
23	2.57	3.43	4.41	5.15	5.89	6.74	7.60
24	2.53	3.38	4.34	5.07	5.79	6.63	7.48
25	2.49	3.32	4.27	4.99	5.70	6.53	7.36
26	2.45	3.27	4.21	4.91	5.61	6.43	7.25
27	2.42	3.22	4.15	4.84	5.53	6.33	7.14
28	2.38	3.17	4.09	4.77	5.45	6.25	7.04
29	2.35	3.12	4.02	4.70	5.37	6.16	6.95
30	2.32	3.08	3.96	4.64	5.29	6.08	6.87
31	2.29	3.03	3.90	4.57	5.21	5.99	6.79
32	2.26	2.99	3.84	4.50	5.13	5.90	6.70
33	2.23	2.94	3.78	4.43	5.05	5.81	6.62
34	2.20	2.90	3.72	4.36	4.97	5.73	6.53
35	2.17	2.86	3.66	4.29	4.89	5.64	6.45
36	2.14	2.82	3.60	4.22	4.81	5.55	6.36
37	2.11	2.78	3.54	4.15	4.73	5.47	6.27
38	2.08	2.74	3.48	4.08	4.65	5.38	6.18
39	2.05	2.70	3.42	4.01	4.57	5.29	6.09
40	2.02	2.66	3.36	3.94	4.49	5.21	6.00
41	1.99	2.62	3.30	3.87	4.41	5.12	5.91
42	1.96	2.58	3.24	3.80	4.33	5.03	5.82
43	1.93	2.54	3.18	3.73	4.25	4.94	5.73
44	1.90	2.50	3.12	3.66	4.17	4.85	5.64
45	1.87	2.46	3.06	3.59	4.09	4.76	5.55
46	1.84	2.42	3.00	3.52	4.01	4.67	5.46
47	1.81	2.38	2.94	3.45	3.93	4.58	5.37
48	1.78	2.34	2.88	3.38	3.85	4.49	5.28
49	1.75	2.30	2.82	3.31	3.77	4.40	5.19
50	1.72	2.26	2.76	3.24	3.69	4.31	5.10
51	1.69	2.22	2.70	3.17	3.61	4.22	5.01
52	1.66	2.18	2.64	3.10	3.53	4.13	4.92
53	1.63	2.14	2.58	3.03	3.45	4.04	4.83
54	1.60	2.10	2.52	2.96	3.37	3.95	4.74
55	1.57	2.06	2.46	2.89	3.29	3.86	4.65
56	1.54	2.02	2.40	2.82	3.21	3.77	4.56
57	1.51	1.98	2.34	2.75	3.13	3.68	4.47
58	1.48	1.94	2.28	2.68	3.05	3.59	4.38
59	1.45	1.90	2.22	2.61	2.97	3.50	4.29
60	1.42	1.86	2.16	2.54	2.89	3.41	4.20
61	1.39	1.82	2.10	2.47	2.81	3.32	4.11
62	1.36	1.78	2.04	2.40	2.73	3.23	4.02
63	1.33	1.74	1.98	2.33	2.65	3.14	3.93
64	1.30	1.70	1.92	2.26	2.57	3.05	3.84
65	1.27	1.66	1.86	2.19	2.49	2.96	3.75
66	1.24	1.62	1.80	2.12	2.41	2.87	3.66
67	1.21	1.58	1.74	2.05	2.33	2.78	3.57
68	1.18	1.54	1.68	1.98	2.25	2.69	3.48
69	1.15	1.50	1.62	1.91	2.17	2.60	3.39
70	1.12	1.46	1.56	1.84	2.09	2.51	3.30
71	1.09	1.42	1.50	1.77	2.01	2.42	3.21
72	1.06	1.38	1.44	1.70	1.93	2.33	3.12
73	1.03	1.34	1.38	1.63	1.85	2.24	3.03
74	1.00	1.30	1.32	1.56	1.77	2.15	2.94
75	0.97	1.26	1.26	1.49	1.69	2.06	2.85
76	0.94	1.22	1.20	1.42	1.61	1.97	2.76
77	0.91	1.18	1.14	1.35	1.53	1.88	2.67
78	0.88	1.14	1.08	1.28	1.45	1.79	2.58
79	0.85	1.10	1.02	1.21	1.37	1.70	2.49
80	0.82	1.06	0.96	1.14	1.29	1.61	2.40
81	0.79	1.02	0.90	1.07	1.21	1.52	2.31
82	0.76	0.98	0.84	1.00	1.13	1.43	2.22
83	0.73	0.94	0.78	0.93	1.05	1.34	2.13
84	0.70	0.90	0.72	0.86	0.97	1.25	2.04
85	0.67	0.86	0.66	0.79	0.89	1.16	1.95
86	0.64	0.82	0.60	0.72	0.81	1.07	1.86
87	0.61	0.78	0.54	0.65	0.73	1.00	1.77
88	0.58	0.74	0.48	0.58	0.65	0.91	1.68
89	0.55	0.70	0.42	0.51	0.57	0.82	1.59
90	0.52	0.66	0.36	0.44	0.49	0.73	1.50
91	0.49	0.62	0.30	0.37	0.41	0.64	1.41
92	0.46	0.58	0.24	0.30	0.33	0.55	1.32
93	0.43	0.54	0.18	0.23	0.25	0.46	1.23
94	0.40	0.50	0.12	0.16	0.17	0.37	1.14
95	0.37	0.46	0.06	0.09	0.09	0.28	1.05
96	0.34	0.42	0.00	0.00	0.00	0.19	0.96
97	0.31	0.38	0.00	0.00	0.00	0.10	0.87
98	0.28	0.34	0.00	0.00	0.00	0.01	0.78
99	0.25	0.30	0.00	0.00	0.00	0.00	0.69
100	0.22	0.26	0.00	0.00	0.00	0.00	0.60

