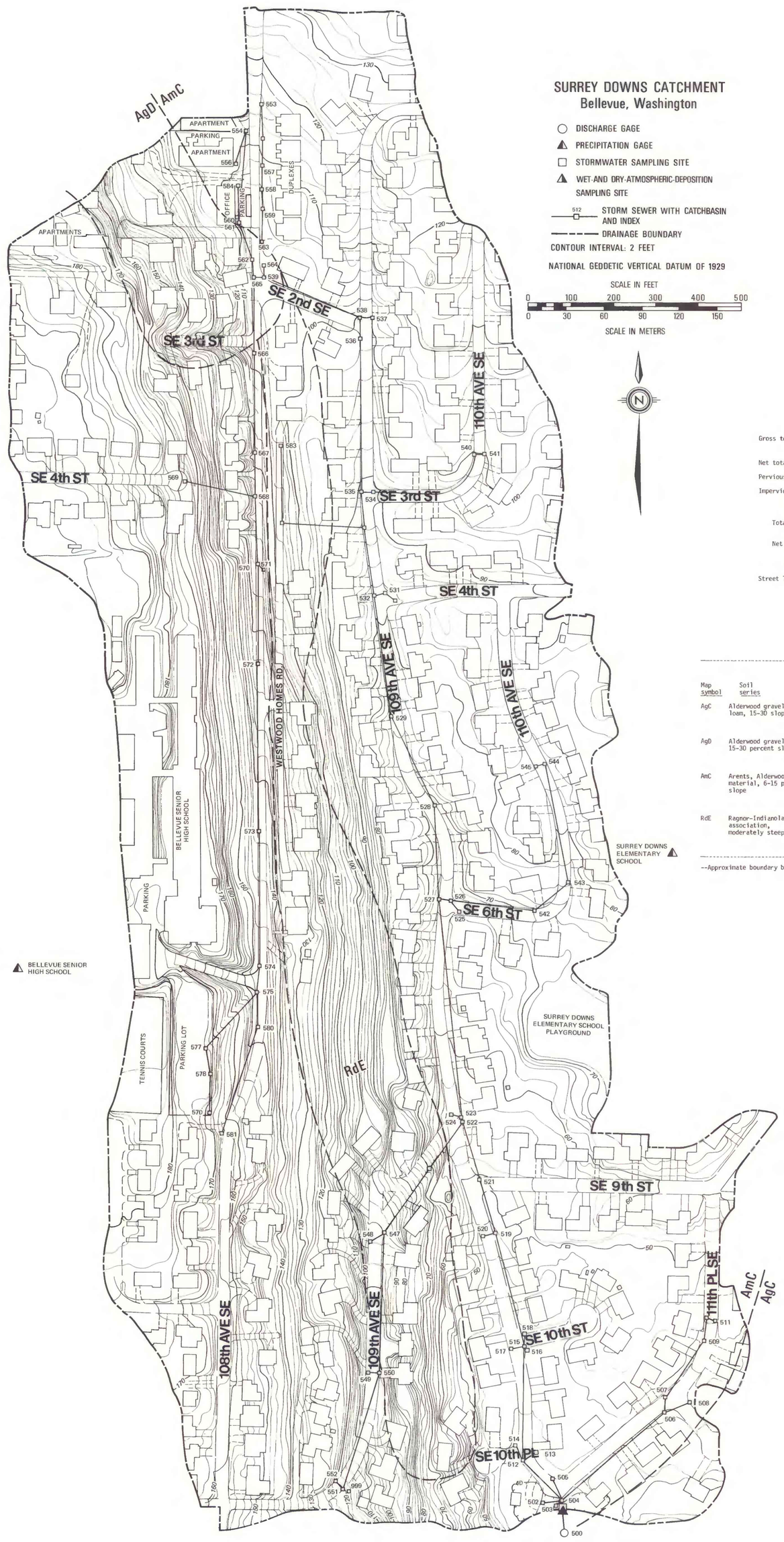
STORM-SEWER DATA

CATCHBASIN INDEX DOWN-STREAM	CATCHBASIN INDEX UP-STREAM	PIPE SIZE, IN INCHES, AND TYPE	PIPE LENGTH, IN FT.	PIPE SLOPE, IN FT/FT	PIPE INVERT ALTITUDE, IN FT. DOWN-STREAM	PIPE INVERT ALTITUDE, IN FT. UP-STREAM	DOWNSTREAM CATCHBASIN ALTITUDE IN FT. TOP	DOWNSTREAM CATCHBASIN ALTITUDE IN FT. BOTTOM
500	504	24 CP	75				CULVERT	CULVERT
502							39.75	36.33
503							39.47	38.26
504	502	8 CP	46	0.047	35.61	37.75	39.96	30.26
504	503	5 PP	20	0.005	38.66	38.82	39.96	30.26
504	505	12 CP	57			38.66	39.96	30.26
504	506	12 CP	322			39.13	39.96	30.26
504	512	24 CP	135	0.013	30.06	31.86	39.96	30.26
505							39.83	36.63
506	507	12 CP	40	0.005	39.52	39.84	41.04	37.99
506	508	8 CP	65	0.000	39.59	39.60	41.04	37.99
507	509	12 CP	159	0.001	39.84	40.05	41.24	38.59
508							41.33	38.27
509	510	12 CP	54	0.020	40.17	41.26	43.11	39.05
510	511	8 CP	30	0.017	41.36	41.87	43.76	40.03
511							43.94	41.29
512	513	8 CP	31	0.109	35.65	39.03	41.46	32.00
512	514	8 CP	38	0.093	35.59	39.11	41.46	32.00
512	515	24 CP	264	0.011	31.96	34.77	41.46	32.00
513							40.56	38.65
514							40.88	38.68
515	516	8 CP	14	0.141	38.76	40.73	41.46	32.00
515	517	8 CP	24	0.072	38.44	40.53	42.94	34.74
515	518	8 CP	34	0.074	38.44	40.97	41.46	32.00
515	519	24 CP	284	0.015	34.69	40.13	41.46	32.00
516							42.36	40.33
517								
518							42.49	40.58
519	520	8 CP	31	0.115	41.53	45.11	47.23	40.23
519	521	24 CP	135	0.013	40.21	41.99	47.23	40.23
520							46.81	44.71
521	522	24 CP	141	0.024	42.07	45.49	49.57	42.05
522	523	24 CP	14	0.023	45.49	45.81	55.89	45.53
522	546	12 CP	134	0.161	45.63	67.26	55.89	45.53
523	524	18 CP	28	0.037	51.81	52.85	56.11	45.71
523	527	18 CP	311	0.017	50.31	59.22	56.11	45.71
524							56.21	51.72
525							64.48	63.64
526	525	8 CP	36	0.074	61.01	63.64	63.86	59.81
526	542	12 CP	202	0.035	60.96	67.94	63.86	59.81
527	526	12 CP	28	0.026	60.18	60.96	63.72	57.57
527	528	15 CP	226	0.022	59.40	64.43	63.72	57.57
528	529	15 CP	238	0.022	55.13	70.41	68.83	63.28
529	532	15 CP	293	0.021	70.59	76.66	74.25	68.92
530							80.79	79.99
531	530	6 CP	38	0.037	78.60	79.99	80.42	77.14
532	531	12 CP	28	0.014	77.98	78.51	80.56	75.06
532	533	12 CP	162	0.034	78.48	83.93	80.56	75.06
532	533	12 CP	163	0.033	78.48	83.93	80.56	75.06
533	535	12 CP	66	0.040	83.98	86.56	86.53	82.93
533	582	6 CP	142				86.53	82.93
534	540	12 CP	256	0.037	87.17	96.76	88.92	84.32
535	534	12 CP	29	0.012	85.73	87.07	88.83	84.58
535	536	12 CP	363	0.024	86.65	95.46	88.83	84.58
536	538	12 CP	50	0.027	95.46	96.74	98.42	93.22
537							99.14	94.46
538	537	12 CP	29	0.010	96.89	97.19	98.99	95.16
538	539	12 CP	248	0.010	95.99	99.37	98.99	95.16
539	564	12 CP	22	0.018	99.42	99.77	102.52	96.53
539	565	12 CP	33	0.018	99.42	99.95	102.52	96.53
540	541	12 CP	29	0.022	98.72	97.35	99.19	94.34
541							99.25	95.00
542	543	12 CP	110	0.053	67.94	73.72	70.95	66.77
543	544	12 CP	289	0.018	73.72	78.78	75.74	72.53
544	545	12 CP	28	0.011	78.88	79.19	81.83	77.73
545							81.89	78.11
546	547	12 CP	193	0.130	67.46	92.60	67.36	66.40
547	548	8 CP	38	0.031	92.96	94.13	94.50	91.70
547	550	12 CP	333	0.022	92.70	99.86	94.50	91.70
548							95.78	92.93
549							103.89	100.53
550	549	8 CP	27	0.086	100.16	101.89	103.37	98.88
550	551	12 CP	293	0.060	98.87	117.32	103.37	98.88
551	552	8 CP	26	0.045	117.72	118.96	120.32	116.42
551	999	8 CP	3	0.013	117.32	117.36	120.32	116.42
552							120.33	117.93
553							115.22	111.72
554	556		70				111.04	106.24
555	553	12 CP	82	0.054	104.38	112.77	110.72	107.27
556							108.46	105.46
557	555	12 CP	65	0.053	104.65	108.08	107.35	103.65
558	557	12 CP	55	0.031	102.94	104.65	105.29	101.74
559	558	12 CP	47	0.040	101.03	102.89	103.58	99.73
560	584	4 TILE	82	0.035	102.00	104.87	104.20	100.60
561	554	12 CP	200	0.025	101.62	107.29	104.07	100.66
561	560	8 TILE	13	0.023	101.72	102.02	104.07	100.65
562	998	12 CP	58	0.011	100.59	101.25	102.69	99.49
563	559	12 CP	83	-.001	101.05	100.98	CULVERT	CULVERT
564	563	DITCH	60	0.021	99.77	101.05	CULVERT	CULVERT
565	562	12 CP	46	0.007	100.42	100.74	102.32	98.48
565	566	12 CP	178	0.034	100.27	106.35	102.32	98.48
566	567	12 CP	240	0.042	106.50	116.48	108.05	104.05
567	568	12 CP	103	0.041	116.56	119.76	118.48	116.32
568	569	12 CP	160	0.293	119.03	165.92	121.96	119.30
568	570	12 CP	151	0.019	120.03	122.88	121.98	119.30
569							168.32	162.52
570	571	8 CMP	32	0.003	123.42	123.52	125.97	122.57
570	572	12 CP	248	0.023	123.03	128.68	125.97	122.57
571							125.21	123.16
572	573	12 CP	396	0.025	128.58	138.65	131.28	127.54
573	574	12 CP	325	0.018	138.60	143.81	141.45	137.50
574	575	15 CP	84	0.013	143.87	144.67	146.44	143.80
575	577	12 CMP	128	0.176	145.67	168.19	147.42	144.64
575	580	12 CP	79	0.017	145.47	146.82	147.42	144.64
577	578	12 CMP	62	0.010	168.19	168.82	173.19	164.57
578	579	12 CMP	100	0.014	168.92	170.36	172.02	168.12
579							173.51	169.76
580	581	12 CMP	263	0.051	149.82	160.29	148.27	146.82
582	583	36 CMP	186		98.89		105.57	
583							103.09	98.89
998	561	12 CP	25	0.015	101.25	101.62	103.33	100.03

CP DENOTES CONCRETE PIPE
CMP DENOTES CORRUGATED METAL PIPE
PVC DENOTES PLASTIC PIPE



SURREY DOWNS CATCHMENT
Bellevue, Washington

- DISCHARGE GAGE
- PRECIPITATION GAGE
- STORMWATER SAMPLING SITE
- WET-AND DRY-ATMOSPHERIC-DEPOSITION SAMPLING SITE
- STORM SEWER WITH CATCHBASIN AND INDEX
- DRAINAGE BOUNDARY

CONTOUR INTERVAL: 2 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

SCALE IN FEET: 0, 100, 200, 300, 400, 500

SCALE IN METERS: 0, 30, 60, 90, 120, 150

AREA CLASSIFICATION
(in acres unless otherwise indicated)

Gross total area	95.1
Roofs draining to drywells	-5.6
Net total area	89.5
Pervious area	61.8
Impervious area:	
Streets	10.5
Roofs, driveways, walks, parking lots	22.8
Total impervious area	33.3
Roofs draining to drywells	-5.6
Net impervious area	27.7
Net effective impervious area	19.8
Net ineffective impervious area	7.9
Street length (miles)	3.1

SOILS

[Data from Snyder and others (1973)]

Map symbol	Soil series	Depth from surface (in.)	Texture	Estimated permeability (in./hour)	Estimated available water capacity (in. water/in. soil)
AgC	Alderwood gravelly sandy loam, 15-30 slope	0 - 27	Gravelly sandy loam	2.0 - 6.3	0.09 - 0.11
		27	Weakly to strongly consolidated till	<0.06	--
AgD	Alderwood gravelly, 15-30 percent slope	0 - 27	Gravelly sandy loam	2.0 - 6.3	.09 - .11
		27	Weakly to strongly consolidated till	<0.06	--
AmC	Arents, Alderwood material, 6-15 percent slope	0 - 8	Gravelly sandy loam	2.0 - 6.3	.09 - .11
		8 - 60	Weakly to strongly consolidated till	<0.06	
RdE	Ragnor-Indianola association, moderately steep	0 - 30	Loamy fine sand	6.3 - 20	.09 - .11
		30 - 60	Sand	20	.04 - .06

--Approximate boundary between different soil series.

Base from City of Bellevue
Engineering Department

PLATE 1.--SURREY DOWNS CATCHMENT.