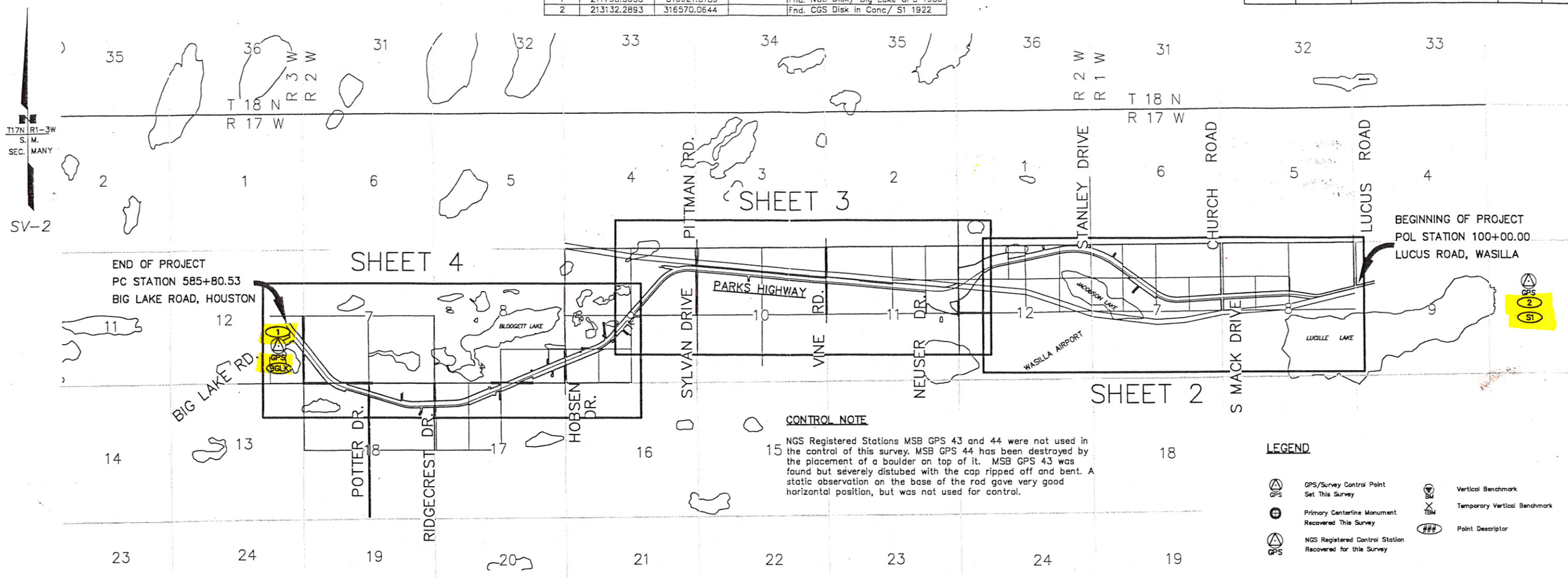
FIELD COPY

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2006	IM-0A4-1(23)	C1	4

HORIZONTAL CONTROL POINTS – THIS SHEET

Point	Northing	Easting	Elevation	Description
1	211798.3655	316921.8189		Fnd. NGS Disk/ Big Lake GPS 1986
2	213132.2893	316570.0644		Fnd. CGS Disk in Conc/ S1 1922



CONTROL NOTE

NGS Registered Stations MSB GPS 43 and 44 were not used in the control of this survey. MSB GPS 44 has been destroyed by the placement of a boulder on top of it. MSB GPS 43 was found but séverely distubed with the cap ripped off and bent. A static observation on the base of the rod gave very good horizontal position, but was not used for control.

LEGEND

- GPS/Survey Control Point Set This Survey
- Primary Centerline Monument Recovered This Survey
- NGS Registered Control Station Recovered for this Survey
- BM Vertical Benchmark
- TBM Temporary Vertical Benchmark
- ### Point Descriptor

HORIZONTAL CONTROL STATEMENT

Coordinate System:
This project is located entirely within the ADOT SV-2 adjustment, a U.S. Survey Foot local surface grid coordinate system developed by the Alaska Department of Transportation as shown on the Right of Way plans for Project No. IR-0A4-1(7) which was recorded as Plat 2001-51 in the Palmer Recording District on June 18, 2001.

Basis of Coordinates:
The Basis of Coordinates is NGS Base Control Station "S1", located in the southwest quadrant of the intersection of the Parks Highway and Knik-Goose Bay Road. Said station has SV-2 2000 Local Coordinates N 70,026.447 E 137700.254 equivalent to NAD83 (NGS 86) ADOT Published Coordinates for this project of 2,770,028.685 N, 1,737,692.670 E which is also equivalent to NAD83 (NGS1992) Published Coordinates of 2,770,027.449 E 1,737,694.944 for NGS Station "S1." The GPS Static Network comprising this Project Coordinate System was also locally constrained to fit record ADOT&PF Coordinates for NGS GPS Station "Big Lake" and each of the 27 Centerline Monuments recovered.

Basis of Bearings:
The Basis of Bearings is the Alaska State Plane, Zone 4, NAD 83 system as determined from Static GPS observations and constrained to existing project centerline monumentation.

Translation Parameters:
To convert the local coordinates to NAD83 (92) State Plane Foot coordinates, translate using +2,700,312.5916 N, +1,600,187.1068 E, and scale the resulting coordinates using 0.99988797.

VERTICAL CONTROL STATEMENT

The Vertical Datum is NAVD 88, as determined by differential leveling and adjusted by the NGS in June, 1991 using First Order, Class II Standards. Complete Third Order level loops were run by McClintock Land Associates in 2004 between the existing NGS Benchmarks and found minor differences from the record data. In processing the project Static GPS data, it was found that more precise solutions were attained using 2004 MLA adjusted elevations so both the 1991 and 2004 values are listed hereon for reference, however the record NGS values were held for this project,

SURVEY NOTES

1. This survey was conducted by McClintock Land Associates, Inc. (MLA) in August and September, 2004, using GPS Static Observations, differential leveling. GPS RTK methods were used for corroboration of the Static GPS data. GPS Static observations were processed using Topcon Tools V. 5.04 Build January, 2004 and the network was horizontally constrained using DOT published values for NGS Base Control Stations "S1" and "Big Lake" and and vertically controlled using differentially leveled elevations.

2. Coordinates in the ADOTP&F SV-2 System are listed in U.S. Survey Feet and rotated to a local grid system.

3. Background information taken from Matanuska Susitna Borough 2004 Tax Maps is shown for orientation purposes only, and should not be used for any other purposes.

VERTICAL CONTROL SUMMARY

BM	"ELEV. NGS 1992"	ELEV. MLA 2004	DESC
S1	338.13'	N/A	Federal Base Network Control Station located at SW quadrant of Parks Hwy & Main Street Intersection per NGS notes.
V102	362.24	362.24	NGS Benchmark located 300' northwest of McAllister Drive on the southwest side of the Parks Hwy at Station 198+50, 47.5' Left and per NGS notes.
W-MLA	N/A	363.165	Previously peened corner of guard rail post on north side of Parks Highway, 680' west of Vienna Woods Drive at Station 251+60, 21' Right. Elevation is at top of guardrail post at peen.
D103	307.77	307.71	NGS Benchmark located 2000' westerly of Neuser Drive on the south side of the Parks Hwy at Station 299+04, 65'
E103	292.07	292.085	NGS Benchmark located 2700' easterly of Pittman Road on the south side of the Parks Hwy at Station 345+53, 48' Left and per NGS notes.
F-MLA	N/A	271.98	NGS Benchmark has been SEVERELY DISTURBED. Set PK Nail in Bike Path next to remnants of F103 located 1660' northeast of Marigold Drive on the southwest side of the Parks Hwy at Station 303+96, 50' Left and per NGS notes.
G103	256.91	256.865	NGS Benchmark located between Rainbow Street and Potter Road on the south side of the Parks Hwy at Station 439+66, 64' Left and per NGS notes.
H103	235.02	234.965	NGS Benchmark located between Potter Road and Ridgecrest Drive on the south side of the Parks Hwy at Station 484+27, 73' Left and per NGS notes.

SURVEYOR'S CERTIFICATE

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

STEPHEN STOLL LS-6726 DATE

2000 0 1000 2000 4000
U.S. SURVEY FEET

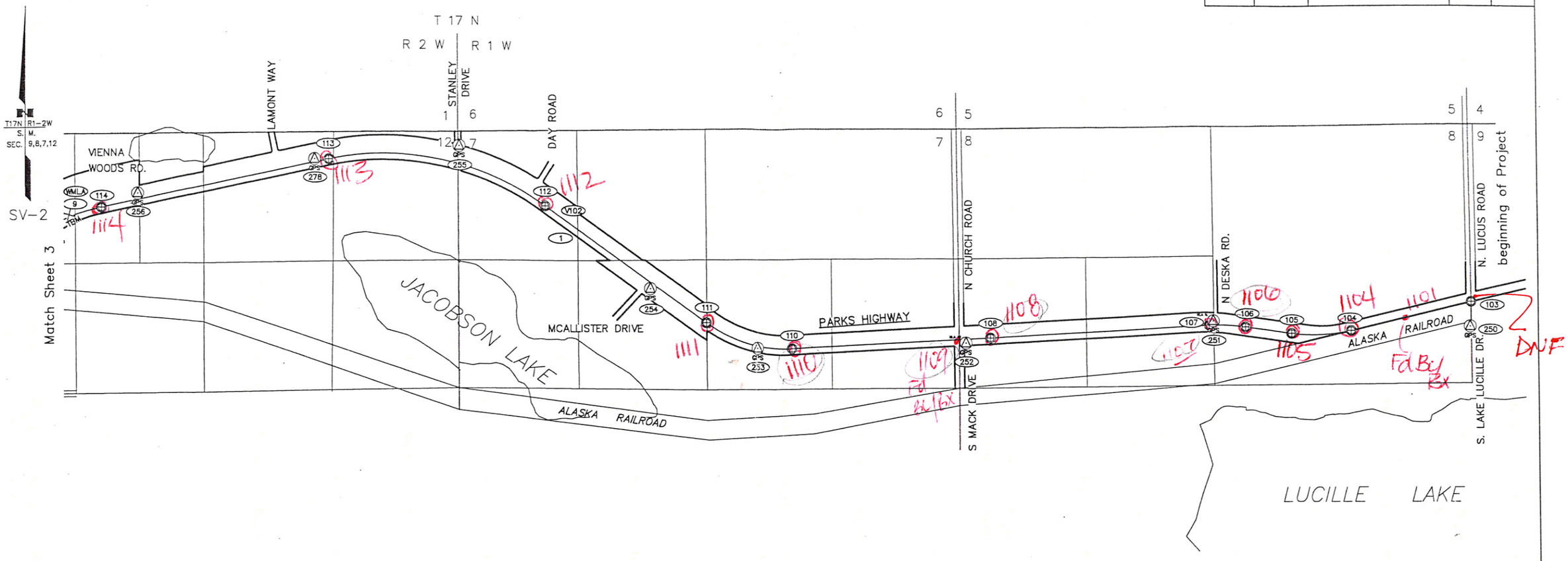
Record of Survey
This survey does not constitute a subdivision as determined by AS 40.15.900(5).
Palmer Recording District
State Business No Fee

STATE OF ALASKA
49TH
STEPHEN STOLL
LS-6726
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
Survey Control Diagram
Record Of Survey
Federal Project No.
57178 IM-0A4-1(23)
PARKS HIGHWAY MP 44 TO 52.3
Located within Secs. 7 & 8, T17N, R1W, S.M., AK and Secs. 17-12, 17 & 18 T17N, R2W, S.M., AK and Sec. 12, T17N, R3W, S.M., AK

DRAWN	AM/SS	DATE	10/21/2004	SCALE	1" = 2000'
CHECKED	SS	DATE	10/21/2004	SHEET	1 OF 4

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2006	IM-0A4-1(23)	C2	4



NOTES:

Refer to Sheet 1 for Notes, Certificates, and Control Information.

HORIZONTAL AND VERTICAL CONTROL POINTS – THIS SHEET

PT	NORTHING	EASTING	ELEV	DESCRIPTION
103	69791.5081	130846.9127	338.85	CL03 FOUND ADOT CENTERLINE MONUMENT IN CASING
104	69498.5223	129616.0266	335.20	CL04 FOUND ADOT CENTERLINE MONUMENT IN CASING
105	69470.5801	129006.2313	342.31	CL05 FOUND ADOT CENTERLINE MONUMENT IN CASING
106	69538.2407	128532.2552	347.85	CL06 FOUND ADOT CENTERLINE MONUMENT IN CASING
107	69554.5716	128160.0345	351.95	CL07 FOUND ADOT CENTERLINE MONUMENT IN CASING
108	69432.9839	125896.4909	357.58	CL08 FOUND ADOT CENTERLINE MONUMENT IN CASING
110	69322.2965	123838.2084	350.93	CL10 FOUND ADOT CENTERLINE MONUMENT IN CASING
111	69586.4141	122927.9954	360.49	CL11 FOUND ADOT CENTERLINE MONUMENT IN CASING
112	70771.6519	121263.2449	362.24	CL12 FOUND ADOT CENTERLINE MONUMENT IN CASING
113	71240.872	119019.3494	352.16	CL13 FOUND ADOT CENTERLINE MONUMENT IN CASING
114	70751.9077	116678.2702	357.63	CL16 FOUND ADOT CENTERLINE MONUMENT IN CASING
250	69540.337	130839.8697	338.94	MLA00 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
251	69599.0065	128203.4984	353.03	MLA01 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
252	69380.402	125642.7615	357.87	MLA02 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
253	69327.2731	123473.8815	357.11	MLA03 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
254	69933.0369	122350.5707	368.99	MLA04 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
255	71383.6045	120369.3778	367.40	MLA05 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
256	70893.4395	117049.7409	361.04	MLA06 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
257	70593.3139	116171.7135	361.65	MLA07 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
258	69857.3945	115087.218	360.62	MLA08 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
278	71242.1476	118872.036	351.12	MLA0596 SET REBAR AND ALCAP 0.1' TO 0.2' B.G.

VERTICAL CONTROL POINTS ONLY – THIS SHEET

PT	NORTHING	EASTING	ELEV	DECRIPTION
8	70604.9	121415.0	362.24	BM V102 FOUND MONUMENT IN ORANGEBURG CASING
9	70672.8	116345.7	363.20	TBM W-MLA PEENED GUARD RAIL CORNER

LEGEND

- GPS — GPS/Survey Control Point Set This Survey
- Primary Centerline Monument Recovered This Survey
- GPS — NGS Registered Control Station Recovered This Survey
- BM — Vertical Benchmark
- TBM — Temporary Vertical Benchmark
- ### — Point Descriptor

500 0 250 500 1000

U.S. SURVEY FEET

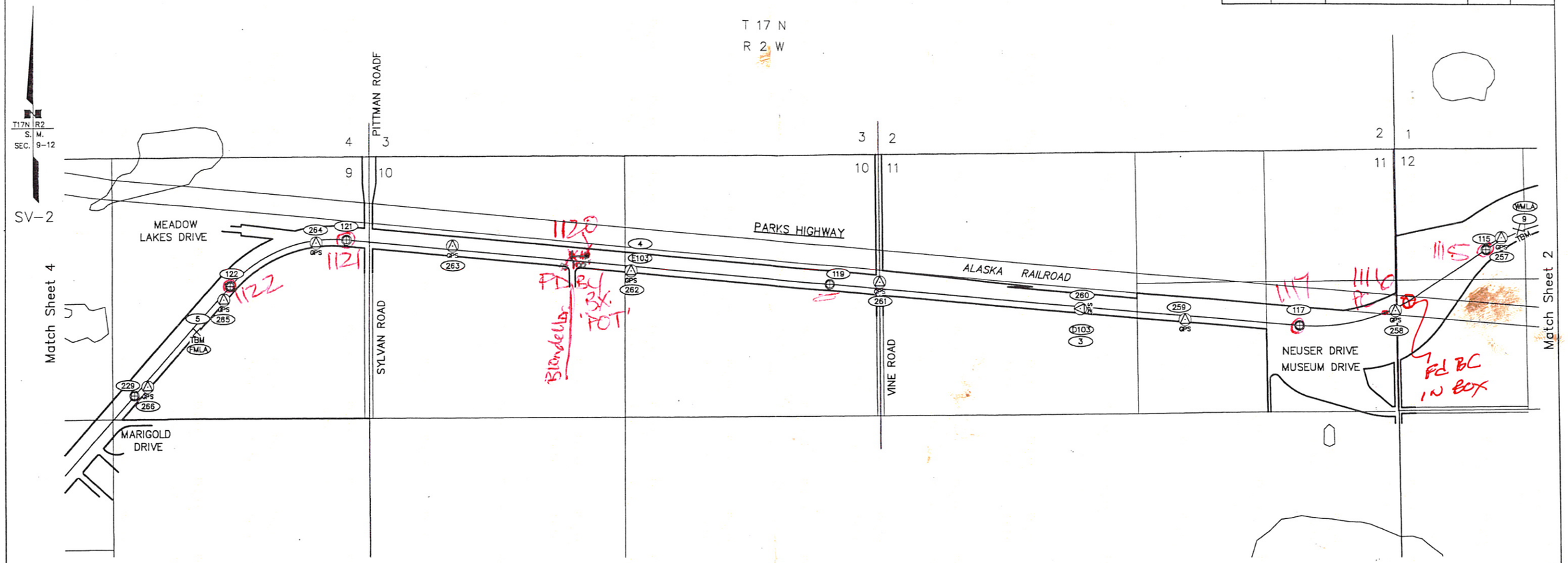
Record of Survey
This survey does not constitute a subdivision as determined by AS 40.15.900(5).
Palmer Recording District
State Business No Fee

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
Survey Control Diagram
Record Of Survey
Federal Project No.
57178 IM-0A4-1(23)
PARKS HIGHWAY MP 44 TO 52.3
Located within Secs. 7 & 8, T17N, R1W, S.M., AK and Secs. 17-12, 17 & 18 T17N, R2W, S.M., AK and Sec. 12, T17N, R3W, S.M., AK

STATE OF ALASKA 49TH STEPHEN STOLL LS-6726 REGISTERED PROFESSIONAL LAND SURVEYOR

DRAWN	AM/SS	DATE 10/21/2004	SCALE 1" = 500'
CHECKED	SS	DATE 10/21/2004	SHEET 2 OF 4

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2004	IM-0A4-1(23)	C3	4



NOTES:

Refer to Sheet 1 for Notes, Certificates, and Control Information.

HORIZONTAL AND VERTICAL CONTROL POINTS – THIS SHEET

PT	NORTHING	EASTING	ELEV	DESCRIPTION
115	70473.3365	116012.4689	360.20	CL15 FOUND ADOT CENTERLINE MONUMENT IN CASING
117	69709.2299	114108.0233	337.18	CL17 FOUND ADOT CENTERLINE MONUMENT IN CASING
119	70131.1131	109277.8072	299.44	CL19 FOUND ADOT CENTERLINE MONUMENT IN CASING
120	70348.6285	106787.0982	287.94	CL20 FOUND ADOT CENTERLINE MONUMENT IN CASING
121	70565.7928	104300.0135	283.54	CL21 FOUND ADOT CENTERLINE MONUMENT IN CASING
122	70094.5990	103110.6993	274.70	CL22 FOUND ADOT CENTERLINE MONUMENT IN CASING
257	70593.3139	116171.7135	361.65	MLA07 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
258	69857.3945	115087.2180	360.62	MLA08 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
259	69771.7609	112938.2983	318.76	MLA09 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
260	69885.9797	111868.5884	310.49	MLA10 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
261	70152.4905	109795.8032	301.76	MLA11 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
262	70262.1038	107228.2646	292.07	MLA12 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
263	70508.6514	105387.5624	285.53	MLA13 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
264	70533.1292	103989.0077	280.48	MLA14 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
265	69957.0366	103045.1320	273.23	MLA15 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
266	69082.3566	102263.3914	269.36	MLA16 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE

VERTICAL ONLY CONTROL POINTS – THIS SHEET

PT	NORTHING	EASTING	ELEV	DESCRIPTION
3	69840.0	111858.4	307.77	BM-D103 FOUND MONUMENT IN ORANGEBURG CASING
4	70262.1	107228.2	292.07	BM E103 FOUND MONUMENT IN ORANGEBURG CASING
5	69634.5	102766.2	271.99	TBM F-MLA SET PK NAIL IN PAVED BIKE TRAIL
9	70672.8	116345.7	363.20	TBM W-MLA PINGED TOP CORNER OF GUARD RAIL

LEGEND

- GPS/Survey Control Point Set This Survey
- Primary Centerline Monument Recovered This Survey
- NGS Registered Control Station Recovered for this Survey
- Vertical Benchmark
- Temporary Vertical Benchmark
- Point Descriptor

500 0 250 500 1000

U.S. SURVEY FEET

Record of Survey
This survey does not constitute a subdivision as determined by AS 40.15.900(5).
Palmer Recording District
State Business No Fee

STATE OF ALASKA
STATE OF ALASKA 49TH
STEPHEN STOLL LS-6726 REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
Survey Control Diagram
Record Of Survey
Federal Project No.
57178 IM-0A4-1(23)
PARKS HIGHWAY MP 44 TO 52.3
Located within Secs. 7 & 8, T17N, R1W, S.M., AK and Secs. 17-12, 17 & 18 T17N, R2W, S.M., AK and Sec. 12, T17N, R3W, S.M., AK

DRAWN	AM/SS	DATE	10/21/2004	SCALE	1" = 500'
CHECKED	SS	DATE	10/21/2004	SHEET	3 OF 4

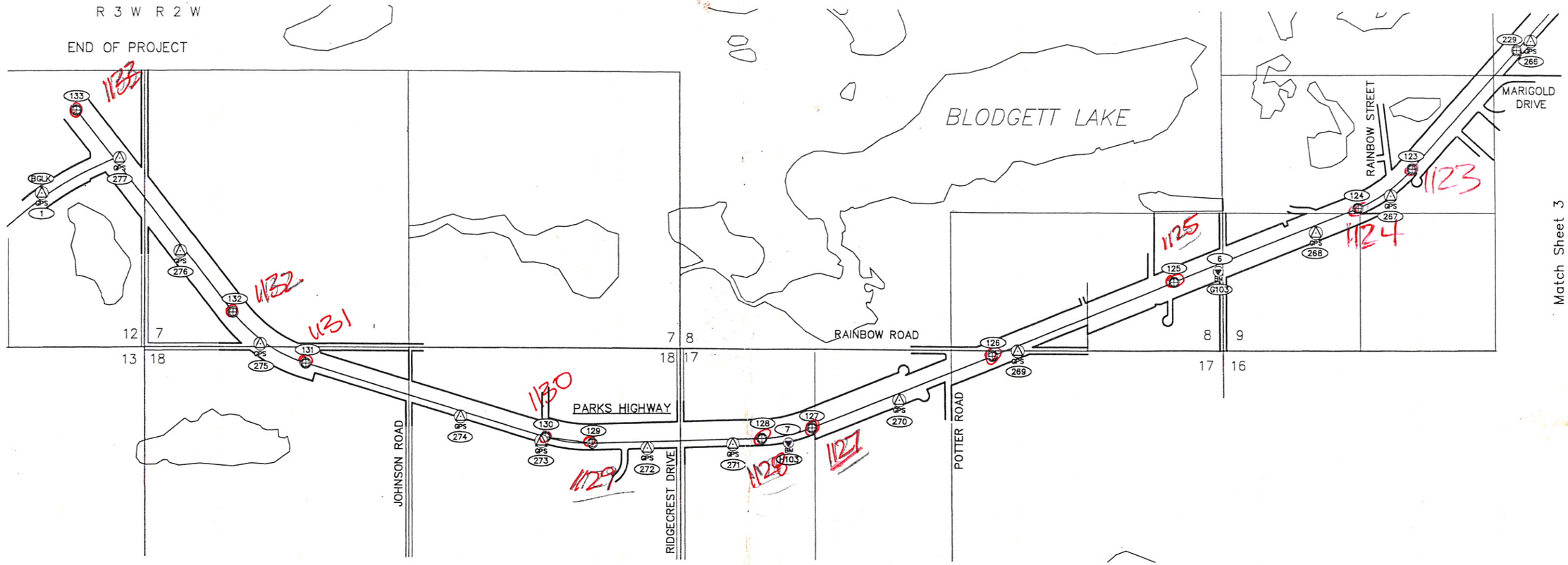
STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2004	IM-0A4-1(23)	C4	4

T 17 N
R 3 W R 2 W

END OF PROJECT

T17N R1-3W S. M. SEC. MANY

SV-2



NOTES:

Refer to Sheet 1 for Notes, Certificates, and Control Information.

Book 1
84 1-5223

HORIZONTAL AND VERTICAL CONTROL POINTS – THIS SHEET

PT	NORTHING	EASTING	ELEV	DESCRIPTION
1	67541.2990	87774.7333	208.68	BGLKGPS FOUND NGS DISK IN CASING
123	67849.7366	101104.3735	263.65	CL23 FOUND ADOT CENTERLINE MONUMENT IN CASING
124	67475.6117	100572.7430	261.55	CL24 FOUND ADOT CENTERLINE MONUMENT IN CASING
125	66758.1013	98802.0216	254.16	CL25 FOUND ADOT CENTERLINE MONUMENT IN CASING
126	66044.4743	97041.0643	244.07	CL26 FOUND ADOT CENTERLINE MONUMENT IN CASING
127	65340.8545	95304.1758	235.87	CL27 FOUND ADOT CENTERLINE MONUMENT IN CASING
128	65236.7558	94815.9401	234.49	CL28 FOUND ADOT CENTERLINE MONUMENT IN CASING
129	65177.9122	93162.6018	230.20	CL29 FOUND ADOT CENTERLINE MONUMENT IN CASING
130	65235.3167	92706.7958	229.03	CL30 FOUND ADOT CENTERLINE MONUMENT IN CASING
131	65925.5940	90356.9065	222.35	CL31 FOUND ADOT CENTERLINE MONUMENT IN CASING
132	66409.6592	89637.8430	217.48	CL32 FOUND ADOT CENTERLINE MONUMENT IN CASING
133	68334.4279	88107.0455	208.41	CL33 FOUND ADOT CENTERLINE MONUMENT IN CASING
229	58993.2817	102126.4290	267.36	CL22-1 FOUND ADOT CENTERLINE MONUMENT IN CASING
266	69082.3566	102263.3914	269.36	MLA16 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
267	67591.7417	100891.1977	260.74	MLA17 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
268	67237.5070	100169.4648	261.42	MLA18 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
269	66091.2676	97286.1518	248.12	MLA19 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
270	65614.5302	96141.9026	239.67	MLA20 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
271	65178.8844	94525.1005	235.52	MLA21 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
272	65136.0446	93694.7115	230.98	MLA22 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
273	65196.2113	92666.4063	230.03	MLA23 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
274	65425.4820	91877.5859	227.90	MLA24 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
275	66107.1553	89904.0518	221.07	MLA25 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
276	66990.7713	89120.9561	214.15	MLA26 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE
277	67878.3878	88524.5763	204.52	MLA27 SET REBAR AND ALCAP 0.1' TO 0.2' BELOW GRADE

VERTICAL ONLY CONTROL POINTS – THIS SHEET

PT	NORTHING	EASTING	ELEV	DESCRIPTION
6	66862.7	99228.6	256.91	BM G103 FOUND MONUMENT IN ORANGEBURG CASING
7	65196.1	95077.7	235.02	BM H103 FOUND MONUMENT IN ORANGEBURG CASING

LEGEND

- GPS — GPS/Survey Control Point Set This Survey
- ⊕ — Primary Centerline Monument Recovered This Survey
- GPS — NGS Registered Control Station Recovered for this Survey
- BM — Vertical Benchmark
- TBM — Temporary Vertical Benchmark
- ### — Point Descriptor

500 0 250 500 1000

U.S. SURVEY FEET

Record of Survey
This survey does not constitute a subdivision as determined by AS 40.15.900(5).
Palmer Recording District
State Business No Fee

STATE OF ALASKA
STATE OF ALASKA 49 TH
STEPHEN STOLL LS-6728
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
Survey Control Diagram
Record Of Survey
Federal Project No.
57178 IM-0A4-1(23)
PARKS HIGHWAY MP 44 TO 52.3
Located within Secs. 7 & 8, T17N, R1W, S.M., AK and Secs. 17-12, 17 & 18 T17N, R2W, S.M., AK and Sec. 12, T17N, R3W, S.M., AK

DRAWN	AM/SS	DATE	10/21/2004
CHECKED	SS	DATE	10/21/2004
SCALE	1" = 500'		
SHEET	4 OF 4		