

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 525 PARTY No. 184 DATE 24 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR J. Dostal RODMAN R. Ruppel WEATHER: Sunny, 30° P.T.S. No. _____

LINE	Bearing of Sight	Stadio Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2	N	2640		914827				10.0	+83.3	+83.3					INT. LINES TO 6.5 XS TURN SOUTH.
3															SEE PAGE 328 A
4	N	1320		9217-				10.0	-52.6	-62.5					of NOTES FOR Top of PIPE 15 5.2' ABOVE
5															LINE 70, LINE 10
6		0													FOR CROSS REFERENCE
7															DD
8	S	1320		9130-					-4.0	-34.6	-38.5				SP 5 (NL-392) 350.
9															
10	S	2640		9003-					-4.0	-2.3	-6.3				SP 4
11		3135 RR													499.8 SP 3
12	S	4455		895729					-5.0	-2.3	-2.7				DD
13															453.2 O SP 2+825 (NL-393)
14	N	320		8917.56					+5.0	-4.0	+1.0				459.4 Δ
15															
16		0													
17															
18	S	495		9148-					-4.0	-15.5	-19.5				498.6 T SP 2+495 (NL-394)
19															
20	S	1815		915910					-3.0	-60.3	-65.3				437.9 SP 2

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2nd DD

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 7
 LINE No.(s) 5X5 PARTY No. 184 DATE 25 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. DUSDAL RODMAN R. KUNZLER WEATHER: SUNNY, -10° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												409.6				
2	N	825		90 01				-4.0	-0.2	-4.2		405.4		SP	29	
3																
4	N	2145		89 58.52				-8.4	+0.7	-7.7	✓	401.9	Q	SP	30 (N2-403)	
5																
6		0 -		—				+6.0		+6.0	✓	407.9	AT	SP	30 (N2-403)	
7																
8	N	825		90 56.10				-1.7	-13.5	-15.2	✓	392.7	Q	SP	30 + 825	
9																
10	S	3135		88 47.55				+4.0	+65.7	+61.7	✓	331.0	A			
11	S	2640		89 07				-4.0	+40.7	+36.7		367.7		SP	31	
12	S	1320		90 07				-4.0	-2.7	-6.7		324.3		SP	32	
13																
14		0 -		—				-5.5		5.5		325.5	T	SP	33	
15																
16	N	1320		90 08				-4.0	-3.1	-7.1		323.9		SP	34	
17																
18	N	2640		90 05				-4.0	-3.8	-7.8		323.2		SP	35	
19																
20	N	+3960		89 31.28				-5.0	+32.9	+27.9	✓	358.9	Q	SP	36 (N2-404)	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 525 PARTY No. 184 DATE 25 Day 4 Mo. 25 Yr. BOOK No. ?
 SURVEYOR D. DUSDAL RODMAN R. KUNZGER WEATHER: SUNNY -10° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1	-TAKE OFF		TOP OF PIPE INT.			70.5	5.5									TOP OF PIPE IS 5.5' ABOVE
2	S	2145'		90 40 4					8.0	+25.9	-25.9	406.7	382.8		SP	7 (N2-388)
3				269 17 51		0 42.9										REFERENCE LINE 70 Book 3
4	S	825'		91 12 -					5.0	-77.3	-77.3		576.7		SP	8 Page 34 Line 10
5																
6		0'														
7																
8	N	495'		90 56 4					5.0	-8.2	-13.2		393.4		SP	8+825 (N2-397)
9		0'							+6.2		+6.2		390.6		SP	9 (N2-398)
10																
11	N	1320'		89 08 -					4.0	+20.0	+16.0		415.6		SP	10
12																
13	N	1815'		89 03 4					5.0	+29.7	+24.7		427.3		SP	10+495 (N2-399)
14									+5.9		+5.9	0.0			SP	10+495 (N2-399)
15		0'							+5.9		+5.9	430.2				(N2-399)
16																(N2-399)
17	N	825'		90 52 -					10.0	-12.5	-22.5		407.7		SP	11
18																
19	N	2145'		90 50 11					4.0	-31.3	-35.3		394.9		SP	12
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 525 PARTY No. 184 DATE 25 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Dostal RODMAN R. KUNZLER WEATHER: SUNNY, -10° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		▲B.S. ○F.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2											394.9	○	SP	12	
3	S	1485'		89 12 13				+4.0	-20.6	-16.6	378.3	▲			
4															
5	S	165'		90 47 -				-4.0	-2.3	-6.3	372.0		SP	13	
6															
7		0 -						-5.9		-5.9	372.4	π	SP	13+165	
8															
9	N	1155'		91 45 -				-21.0	-35.3	-56.3	322.0		SP	14	
10															
11	N	2475'		91 26 51				-4.0	-62.5	-66.5	311.8	○	SP	15	
12															
13	S	2145'		91 36 17				+4.0	+60.1	+64.0	375.8	▲			
14															
15	S	825'		92 14 -				-15.0	-32.1	-47.6	371.1		SP	16	
16															
17		0 -						-6.3		-6.3	369.5	π	SP	16+825 (N2-400)	
18															
19	S	985'		91 27 11				-4.0	-12.6	-16.5	359.3	○	SP	17	
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 525 PARTY No. 184 DATE 25 Day 4 Mo. 25 Yr. BOOK No. 3
 SURVEYOR D. Dorsdal RODMAN R. KUNZLER WEATHER: SUNNY, -10° P.T.S. No. _____

LINE No.	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												405.7				
2	S	2005		90 50 -				-4.0	-29.2	-33.2		372.5		SP	23	
3																
4	S	685		90 48 -				-4.0	-9.6	-13.6		392.1		SP	24	
5																
6		0 -						-5.7		-5.7		400.0	π	SP	24+685	
7																
8	N	635		89 48 42				-4.0	+2.1	-1.9		403.8		SP	25 (N2-402)	
9																
10	N	460		89 55 20				-11.0	+2.0	-9.0		396.7	0	SP	25+825	
11																
12	S	3630		90 08 24				+4.0	+8.9	-72.9		409.6		A		
13																
14	S	3135		90 55 -				-4.0	-50.2	-54.2		355.4		SP	26	
15																
16	S	1815		92-45 -				-4.0	-87.1	-91.1		318.5		SP	27	
17																
18	S	495		93 16 -				-4.0	-28.2	-32.2		377.4		SP	28	
19																
20		0 -						-6.2		-6.2		403.4	π	SP	28+495	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 525 PARTY No. 184 DATE 25 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. DUSDAL RODMAN R. KUNZLER WEATHER: SUNNY, -10' P.T.S. No.

No.	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2		2340	DD						+7.3	+11.3		359.3	0	SP	17	
3	S	2440		90 10 44				+4.0	7.6	11.6		370.6	A			
4																
5	S	1020		95 06 -				-4.0	-90.7	-94.7		275.9		SP	18	
6																
7		0						-6.2		-6.2		264.4	A	SP	18 + 1020	
8																
9	N	300'		89 00 -				-4.0	+5.2	+1.2		371.8		SP	19	
10																
11	N	1620'		88 57 43				-5.0	+29.3	+24.3		394.9	0	SP	20	{ N2-401 }
12		0'						+5.8		+5.8		400.7	A			
13																
14	N	1320'		91 25 00				-4.0	32.6	36.6		364.1		SP	21	
15																
16	N	2640'		91 01 28				-4.0	47.1	51.1		349.6	0	SP	22	
17																
18	S	3325'		90 42 27				+15.0	+41.1	+56.1		405.7	A			
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 2
 LINE No.(s) 525 PARTY No. 184 DATE 24 Day 4 Mo. 25 Yr. BOOK No. 3
 SURVEYOR D. Duschel RODMAN R. KUNZLER WEATHER: SUNNY P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													389.1			
2		0							+5.7			394.8		Δ	SP	1 (N2-395)
3										-32.6	-36.6					
4	S	1155 825	100	91 37					-4.0	-25.3	-27.3		385.0	0	#24	TAIL SPREAD
5																
6										-19.9	-14.9		389.1	0	SP1	(N2-395)
7	N	1815 1400	200	89 22 13					+5.0	17.3	-21.3		379.2		Δ	
8																
9		0											368.6		Δ	#19 TAIL
10	S	330		94 11 -					-6.0	-24.1	-30.0		344.2			#18 TAIL
11																
12																
13																
14	S	1650 3135	200	91 18 -					-4.0	-37.4	-41.4		332.8			#14 TAIL
15		2970 1485								+13.8	+9.8					
16	S	3135		89 44 -					-4.0	-29.7	-16.7		385.0			#10 TAIL
17																
18	S	5940	200	89 43 10					-5.0	+29.1	+24.1		398.3			#1 TAIL (N2-396)
19																
20																

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w/ # 24 BEING 165' SOUTH OF SP-1

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 525 PARTY No. 184 DATE 25 Day 4 Mo. 25 Yr. BOOK No. 3
 SURVEYOR D. Duschl RODMAN R. KUNZLER WEATHER: SUNNY -10° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2												358.9		D	SP	36.5
3	S	1155 -		883332				+5.0		-23.4	335.5		A			(NZ-404)
4																
5		0 -						-6.0		-6.0		329.5		K	SP	36+455
6																
7	N	165 -		97.35 -				-4.0		-21.8	25.81	309.7			SP	37
8																
9	N	1485 1485	20	90.27 -				-4.0		-11.7	-15.7	319.8			SP	38
10																
11	N	2805 2805	20	90.20 57				-4.0		-17.1	-21.1	314.4		Q	SP	39
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 5XS PARTY No. 134 DATE 28 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Pusdal RODMAN WEATHER: SUNNY 0° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1																
2												314.4	0	SP	39	
3	S	2475		89.5805	+0.0155				+4.0	-1.4	+2.6	317.0				
4																
5	S	1155	-	90.03	-				-4.0	-1.0	-5.0	312.0		SP	40	
6																
7		0	-						-5.8	-5.8	-5.8	311.2		SP	40+11.55	
8																
9	N	165	-	92.33	-				-4.0	-7.3	-11.3	305.7		SP	41	
10																
11	N	1485	-	90.46	-				-4.0	-19.9	-23.9	293.1		SP	42	
12																
13	N	1805	-	90.24	-				-4.0	-19.6	-23.6	293.4		SP	43	
14																
15	N	3885	-	90.06	40				5.0	-	-12.5	304.5		SP	43+ ¹⁰⁰⁰ 275 (N2-406)	
16																
17		0	-						4.0							
18		01	-						+2.2	ABOVE PIPE	+2.2	303.7		SP		INTER. L5X63 1/2
19																
20	N	240	-	90.55	-				-14.0	-45.5	-59.5	247.3		SP	44	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 528 PARTY No. 184 DATE 28 Day 54 Mo. 75 Yr. BOOK No. 5
 SURVEYOR D. Duda RODMAN _____ WEATHER: Sunny, 0° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2	N	1560 ✓		89.3757					-5.0	+10.0	+5.0 ✓	306.7	311.7	Q	SP	245 (N2-402)
3																
4		0 -		—					+6.2		+6.2 ✓	317.9		AT		
5																
6	N	1320 -		90.41 -					-8.0	-15.7	-23.7 -		294.2		SP	46
7																
8	N	2640 -		90.07 28					-4.0	-5.7	-9.7 -		308.2	Q	SP	47
9																
10	N	3960 -		90.01 15					-5.0	-2.3	-7.3 ✓		310.6	Q	SP	48 (N2-410)
11				26.57 15	3-0.02.00											
12		0 -		—					+5.9	+5.9	+5.9 ✓	316.5		AT		
13																
14	N	1320 -		90.44 34					-7.0	-17.1	-21.1 -		295.4		SP	49
15		2145 -														
16	N	2440		90.40 39	0.41 25				-7.0	-25.8	-29.8 ✓		286.7	Q	SP	50 49 + 825
17				24.17 49												
18																
19	S	2640 -		88.57 32					+4.0	-51.9	-47.9 ✓	238.8		AT		
20				27.06 50	50.07 34											

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 525 PARTY No. 184 DATE 28 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Duda RODMAN WEATHER: SUNNY 0° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												238.8				
2	S	2.145		89 39					-5.0	+13.1	+8.1		246.9		SP	50
3																
4	S	825		90 12					-4.0	-2.9	-6.9		231.9		SP	51
5																
6		0							-5.9		-5.9		232.9	π	SP	51+82.5
7																
8	N	495		91 25					-4.0	-12.2	-16.2		222.6		SP	52
9																
10	N	1815		89 12 10					-4.0	+24.9	+20.9		259.7	⊙	SP	53
11				270 46 23												
12	S	2925		90 28 10					+4.0	+24.5	+28.5		289.2	A		
13				269 30 28												
14	S	1605		90 51					-4.0	-23.8	-27.8		260.4		SP	54
15																
16	S	285		93 23					-4.0	-16.8	-20.8		267.4		SP	55
17		0							-5.8					π	SP	55+285
18	N	1235		90 15					-4.0	-4.5	-8.5		279.7		SP	56
19	N	2355		89 59 03					-4.0	+0.8	-3.2		285.0	⊙	SP	57
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 525 PARTY No. 184 DATE 28 Day 4 Mo. 75 Yr. BOOK No. _____
 SURVEYOR D. Duzdal RODMAN _____ WEATHER: SUNNY, 00 P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		H.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2												285.0	⊙	SP	57	
3	S	2640 -		90.03	-0.0147			+4.0	+1.3	+5.3	290.3		Δ			
4				267.5734												
5	S	1320 -		89.59 -				-4.0	+0.4	-3.6		286.71		SP	58	✓
6		0 -						-5.9				289.4	π	SP	59	
7	N	1320 -		90.00 -				-8.0	-0.0	-8.0		282.3		SP	60	
8																
9	N	2640 -		89.724				-15.0	+1.4	-13.6		276.7	⊙	SP	61	
10				270.0106	-0.0151											
11	S	2640 -		89.5805				+4.0	-0.9	+3.1	279.8		Δ			
12				270.0032	+0.0113											
13	S	1320 -		90.04 -				-4.0	-1.5	-5.5		274.3		SP	62	
14																
15		0 -						-5.7		-5.7		279.1	π	SP	63	
16																
17	N	1320 -		89.36 -	+			-4.0	+9.2	+5.2		285.0		SP	64	
18																
19	N	2145 -		89.17				-5.0	+12.5	+7.5		287.3	⊙	SP	64+825 (N2-411)	
20				270.1926	+0.0205											

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STADIA SURVEY NOTES

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AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 525 PARTY No. 184 DATE 29 Day 4 Mo. 75 Yr. BOOK No.
 SURVEYOR D. Dussal RODMAN WEATHER: Cloudy, 2° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2												287.3	0	SP	64+90.55	
3		0 -									+6.0	293.3	A			2 N2-4115
4																
5	N	495 -		91 30						-13.0	-17.0	276.3		SP	65	
6																
7	N	1815 -		90 30 -						-15.8	-17.3	273.5		SP	66	
8																
9	N	3135 -		90 18 34	20 19 19					-17.6	-16	271.7	0	SP	67	
10				249 39 58												
11	S	1815 -		90 30 20						+16.0	+20.0	291.7		A		
12																
13	S	495 -		90 26 -						-3.7	-7.7	284.0		SP	68	
14																
15		0 -														
16																
17	N	825 -		90 22 30						-6.6	-10.6	281.1	0	SP	69	
18	S	635 -		292 28	271 22 30 +0 30 00					-5.5	-1.6	279.5		A		
19		0 -														
20	N	625 -		95 24 -						-6.5	-6.5	211.0		SP	70	

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STADIA SURVEY NOTES

AREA WPR-4 STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 525 PARTY No. 189 DATE 28 Day 4 Mo. 7 Yr. BOOK No. 3
 SURVEYOR D. Dussal RODMAN _____ WEATHER: Cloudy, 0° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												279.5				
2	N	2005-			90 11.52	2	0 12 28		-6.0	-7.3	-13.3	266.2	0	SP	71	(N2-413)
3					289 46 57	3										
4	S	1815-			89 39 55				+5.0	+10.9	-5.3	260.9		A		
5					270 19 00	3	+0 19 23									
6	S	495-			96 04-				-4.0	-52.3	-56.3	204.6		SP	72	
7																
8		0-							-6.0			254.9	T	SP	72+495	
9																
10	N	825-			89 12 30	2			-4.0	+11.2	+7.2	268.1	0	SP	73	
11					270 46 11	3	+0 46 51									
12																
13																
14																
15																
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 15
 LINE No.(s) 5XS PARTY No. 184 DATE 29 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Dussal RODMAN _____ WEATHER: SUNNY +10° P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Final Elev. Diff.	ELEVATIONS		AB.S. OF.S. -S.S.	Station	REMARKS	
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion		INST.	ROD				
1															
2											268.1	0	SP	73	
3	S	2940 -		9008 21	25.0 0923			+4.0	+8.0	+12.0	280.1	A			
4				2699 35	35										
5	S	1620 -		9033 -				-4.0	-15.6	-19.6	260.5		SP	74	
6															
7	S	300 -		9312 -				-4.0	-16.7	-20.7	259.4		SP	75	
8															
9		0 -						-5.9		-5.9	274.2	K	SP	75 + 300 (N2-414)	
10	N	1020 -		9035 -				-4.0	-10.4	-14.4	265.7		SP	76	
11															
12	N	2340 -		9014 56				-4.0	-10.2	-14.2	265.9	0	SP	77	
13															
14	S	3600		9004 22				-4.0				0	SP	78	
15				2695 25											
16	S	2640 -		9007 16	20 07 56			+4.0		+10.1	276.0	A		77	
17				26951 25											
18		0 -						5.9					K	SP	78
19	S	1320 -		9049 -				-4.0	-18.8	-22.8	253.2		SP	78	
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 323 PARTY No. 184 DATE 29 Day Mo No. 25 BOOK No. 3
 SURVEYOR D. Dardel RODMAN WEATHER: SUNNY #10 INST. S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
1												276.0			
2		0											270.2	A	SP 81
3															
4	N	1320		90.27						-11.1	-15.1		260.9		
5															
6	N	2640		90.19 36	-0.20 14								256.5		82
7				269.39 06											
8	S	2580		90.04 01	+0.04 32					+3.4	+7.4		263.9	A	
9				269.54 57											
10	S	1260		90.15									254.4		SP 82
11															
12		0													
13													257.4	A	SP 82 + 1260 (SP 83 OFFSET 60 SOUTH)
14	N	1380		90.59									236.2		SP 84
15															
16	N	2535		90.30 50	+0.39 23								230.9		SP 84 H.S.
17				269.20 53											
18	S	3300		89.52 17									228.4	A	
19				270.55 49	+0.06 48										
20	S	3135		90.08									211.1		SP 85

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 5XS PARTY No. 184 DATE 29 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Dussal RODMAN _____ WEATHER: SUNNY, 410 P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												228.4				
2	S	1315		9007					-4.0	-3.7	-7.7	220.7		SP	86	
3																
4	S	495		9053					-4.0	-7.6	-11.6	216.8		SP	87	
5																
6		0							-5.6					π	SP	87+495
7																
8	N	825		9134					-4.0	-22.6	-26.6	201.8		SP	88	
9		1480														
10	N	2445 2480		901042	-0 11 22				-4.0	-4.9	-8.9	219.5	0	SP	88+155	
11				2674738												
12	S	1445 2480		901011	0 11 01				+4.0	+10.0 +7.9	+11.0 +11.9	231.4	Δ			
13				26743103												
14	S	1815		9042					-4.0	-22.2	-26.2	205.2		SP	89	
15																
16	S	495		9151					-4.0	-16.0	-22.0	211.4		SP	90	
17																
18		0							-5.4					π	SP	90+495
19																
20	N	825		9026					-4.0	-6.2	-10.2	221.2		SP	91	

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STADIA SURVEY NOTES

AREA PR-4 STATE or PROVINCE ALASKA PAGE No. 18
 LINE No.(s) 5XS PARTY No. 184 DATE 29 4 Mo. 75 Yr. BOOK No. 7
 SURVEYOR D. Duval RODMAN WEATHER: SUNNY P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											231.4				
2	N	147.0		89 07 04	+0.52 06			-4.0	+22.6	+18.6	250.0	⊙	SP	91 + 66.5	
3				27 51 17	B										
4	S	40.10		90 16 58	-0.17 45			+4.0	+20.7	+24.7	279.7	A			
5				26 17 38	B										
6	S	33.55		90 28 -				-4.0	-27.3	-31.3	243.4		SP	92	
7															
8	S	20.35		90 38 -				-4.0	-22.5	-26.5	248.2		SP	93	
9															
10	S	715 -		91 55 -				-4.0	-23.9	-27.9	246.8		SP	94	
11															
12		0						-5.5				π	SP	94 + 715	
13															
14	N	605		89 44 -				-4.0	+2.8	-1.2	273.5		SP	95	
15															
16	N	1925		89 28 52	+0.30 22			-4.0	+17.0	+13.0	287.7	⊙	SP	96	
17				27 29 37	B										
18	S	1320		90 10 06	+0.10 40			+4.0	+4.1	+8.1	295.8	A			
19				26 43 47	B										
20		0						-8.5	-6.5		289.3	π	SP	97 (N2-45)	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 19
 LINE No.(s) 525 PARTY No. 104 DATE 29 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Ducdal RODMAN WEATHER: Sunny, 71°00 P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		ABS. OF S. S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											295.8				
2	N	1320 -		90 03 27	00404			-4.0	-1.6	-5.6		290.2	0	SP 98	
3				269 55 19	5										
4	S	2640 -		89 54 05	7			+4.0	-3.9	+0.1	290.3		A		
5				270 04 17	3										
6	S	1320 -		90 06 -				-4.0	-2.3	-6.3		284.0		SP 99	
7															
8		0 -						-5.1				285.2	π	SP 100	
9															
10	N	1320 -		90 48 -	-18.4			-4.0	-18.4	-22.4		267.9		SP 101	
11															
12	N	2640 -		90 43 48	-24433			-4.0	-34.2	-38.2		252.1	0	SP 102	
13				269 14 42	5										
14	S	2640 -		90 25 27	02552			+1.0	+19.9	+23.9	276.0		A		
15				269 33 45											
16	S	1320 -		91 07 -				-6.0	-25.7	-31.7		244.3		SP 103	
17															
18		0 -						-5.9		-5.9		270.1	π	SP 104	
19															
20	N	1320 -		89 16 -				-4.0	+6.9	+12.9		286.9		SP 105 286.5	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 20
 LINE No.(s) 515 PARTY No. 184 DATE 29 Day 4 Mo. 15 Yr. BOOK No. 3
 SURVEYOR D. Dussel RODMAN _____ WEATHER: SUNNY P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle of Factor	Hair Read	Reading	Correc-tion			Center Hair	INST. 276.0			
1															
2	N	1885		890755				-5.0	+22.3	+17.3					
3				2705112	+0.5137				127.0	122.0	293.3	0	SP	105+165 (N2-110)	
4	S	2090		891513				+6.0	-26.9	-20.9	272.4		A		
5				2704347	+0.4417										
6	S	935		9030				-4.0	-8.2	-12.2	260.2		SP	106	
7		0													
8								-6.5		-6.5	265.9	K	SP	106+935	
9															
10	N	385		9225				-4.0	-14.0	-18.0	254.4		SP	107	
11															
12	N	1705		904958				-4.0	-24.8	-28.8	243.6		SP	108	
13															
14	N	3025		9015				-4.0	-13.2	-17.2	255.2		SP	109	
15															
16	N	3520		900011				-5.0	-0.7	-5.7	266.7	0	SP	109+495	
17				2695853	+0.0039									CENTRAL 5' TARGET	
18															
19	S	3990		893409				+5.0	-29.5	-24.5	242.2		A		
20				2702502	+0.12526										

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 21
 LINE No.(s) 5X5 PARTY No. 184 DATE 30 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. DUSDAL RODMAN Jim SPRAGOE WEATHER OVERCAST, -10° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD		
1												242.2			
2	S	3165		89.45					-4.0	+13.8	+9.8	252.0		SP	110
3															
4	S	1845		90.23					-4.0	-12.3	-16.3	225.9		SP	111
5															
6	S	525		92.26					-1.0	-22.3	-23.3	218.9		SP	112
7															
8		0							-5.6		-5.6	236.6		SP	112+525
9															
10	N	775		91.13					-4.0	-16.9	-20.9	221.3		SP	113
11															
12	N	2115		90.11					-4.0	-6.8	-10.8	231.4		SP	114
13															
14	N	2940		81.55	2.2				-6.0	+3.8	-2.7	239.5	(2)	SP	114+825 (N2-417)
15				270.07	18.5	+0.03	35								
16		1980													
17	S	2310		89.06	0.2				+5.0	-30.7	-25.7	213.8		SP	
18		1485		270.52	38.5	+0.03	17								
19	S	1835		89.17					-4.0	+18.6	+14.6	228.4		SP	115
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 22
 LINE No.(s) 525 PARTY No. 184 DATE 30 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Dostal RODMAN Jim Sprague WEATHER: Cloudy, -10° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1											213.8			
2	S	165		91.5134				-5.0	-5.4	-10.4	203.4		SP 116 (N2-418)	
3														
4		0						-5.5		-5.5	200.3		SP 116+165	
5														
6	N	1155		96.34				-4.0	-11.4	-15.4	198.4		SP 117	
7														
8	N	2475		89.1722				-4.0	+30.7	+26.7	240.0		SP 118	
9				220.41										
10	S	1380		90.5457				+4.0	+22.9	+26.9	266.4			
11				269.031										
12														
13	S	60		96.51				-4.0	-7.2	-11.2	255.2		SP 119	
14														
15		0						-5.6		-5.6	260.8		SP 119+60	
16														
17	N	1260		90.26				-4.0	-9.5	-13.5	252.9		SP 120	
18														
19	N	2580		89.26				-4.0	+25.5	+21.5	287.9		SP 121	
20														

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 23
 LINE No.(s) 5X5 PARTY No. 134 DATE 2 30 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Dystal RODMAN Jim SARABOE WEATHER: OVERCAST, WINDY -13° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												266.4				
2	N	3075'			89.0135				-5.0	+49.2	+39.2		305.6	⊙	SP	121+495 (122-419)
3					211.42											
4		0'							+5.6		+5.6		317.2	⊙	AT	
5																
6					70.5634				-5.0	-13.6	-18.6		292.6	⊙	SP	122
7	N	825'			239.3227											
8	S	2640'			88.5611				+7.0	-48.4	-44.3		240.3	⊙	A	
9					271.0205											
10																
11	S	1320'			70.00				-4.0	0.0	-4.0		244.3	⊙	SP	123
12																
13		0'							-6.1		-6.1		242.2	⊙	SP	124
14																
15	N	1320'			70.12				-8.0	-4.6	-12.6		235.7	⊙	SP	125
16																
17	N	2640'			89.4039				-4.0	+14.4	+10.4		250.7	⊙	SP	126
18					270.1807											
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 24
 LINE No.(s) 525 PARTY No. 184 DATE 30 Day 4 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Durdal RODMAN J. SPRAGUE WEATHER: SUNNY, -10° P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1															
2											258.7	⊙	SP	126	
3	S	1815		904851	04928			+4.0	+26.1	+30.1	288.8	Δ			
4				2690959	03845										
5	S	495		9052	0494			-6.0	-7.5	-13.5	275.3		SP	127	
6															
7		0													
8											282.9	π	SP	127+495 (N2-420)	
9	N	825		9255				-4.0	-42.0	-46.0	242.8		SP	128	
10															
11	N	2145		925611	025655			-4.0	-110.3	-114.2	174.6	⊙	SP	129	
12				267											
13															
14															
15															
16															
17															
18															
19															
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 25
 LINE No.(s) 52.5 PARTY No. 184 DATE X 1 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Duedal RODMAN J. SPREVE WEATHER: SNOWING P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S.-S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2											174.6	0	SP	129	
3	S	2475		90 33 00	2			2 +4.0	+24.2	+28.2	202.8	Δ			
4				269 25 30	3										
5	S	1155		91 09 -				-4.0	-23.2	-27.2	175.6		SP	130	
6															
7		0						-6.2			196.6	π	SP	130 + 1155	
8															
9	N	165		90 17 -				-8.0	-8	-48	198.0		SP	131	
10															
11	N	1485		89 32 -				-5.0	+12.1	+7.1	209.9		SP	132	
12															
13	N	2805		89 55 -				-11.0	+20.4	+7.4	212.2		SP	133	
14															
15	N	4125		89 31 23	2			-5.0	+33.5	+28.5	231.3	0	SP	134 CENTER 5' TARGET	
16				270 27 16	3										
17	S	2640		89 31 31	2			+5.0	-21.5	-16.5	214.8	A			
18				270 27 35	3										
19	S	1320		90 04 -				-4.0	-1.5	-5.5	209.3		SP	135	
20															

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 26
 LINE No.(s) 5X5 PARTY No. 184 DATE 1 Day 5 Mo. 25 Yr. BOOK No. 3
 SURVEYOR D. Dusdal RODMAN J. SPRAGUE WEATHER: SNOWING P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction	Center Hair			INST.	ROD			
1												214.8				
2		0							-5.8	-5.8		209.0	π	SP	136	
3																
4	N	1320		89.52					-4.0	+3.1	-0.9	213.9		SP	137	
5																
6	N	2645		89.60 2.5					-6.0	+45.5	+39.5	254.3	⊙	SP	138 (112-421)	
7				270.53 49												
8	S	3135		88.31 24					+5.0	+80.4	-75.3	179.0		Δ		
9				271.27 43												
10	S	1815		90.03					-4.0	-1.6	-5.6	173.4		SP	139	
11																
12	S	495		90.13					-4.0	-1.9	-5.9	173.1		SP	140	
13																
14		0							-5.7			173.3	π	SP	140+495	
15																
16	N	825		90.07					-4.0	-1.7	-5.7	173.3		SP	141	
17																
18	N	2145		90.03					-4.0	-1.9	-5.9	173.1		SP	142	
19																
20	N	3765		90.01 44					-4.0	-2.3	-6.3	172.7	⊙	SP	143	

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 27
 LINE No.(s) 525 PARTY No. 184 DATE 2 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Dusdal RODMAN J. Sprague WEATHER: Foggy, Snowing P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2											172.7	0	SP	143
3	S	2640	-	90.1421				+4.0	+11.0	+15.0	187.7	Δ		
4														
5	S	1320	+	90.29				-4.0	-11.1	-15.1	172.6		SP	144
6														
7		0	-					-6.0			181.7	π	SP	145
8														
9	N 1320	1155	-	87.5715				-5.0	+41.2	+36.2	223.9	0	SP	MISS' CENTER 5' TARGET (N2-422)
10														
11		0	-					5.8		+5.8	229.7	Δ		
12														
13	N	165	-	94.655				7.0	-13.8	-31.8	197.9		SP	146
14				88.4832										
15	N	990	-	87.145	+0.1139			-5.0	+20.6	+15.6	245.3	0	SP	146 +825 (N2-423)
16														
17		0	-					+5.9		5.9	251.2		Δ	π
18														
19	N	495	-	90.09				-4.0	-1.3	-5.3	245.9		SP	147
20														

TI-508B

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DP < IAT 2nd

STADIA SURVEY NOTES

AREA N.P.R.A. STATE or PROVINCE ALASKA PAGE No. 2B
 LINE No.(s) 5 X 5 PARTY No. 1184 DATE 2 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. DUSDAL RODMAN J. SPAGUE WEATHER: SNOW - FOG P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												251.2				
2																
3	N	1650		93° 07' 46"				5.0	+15.5	+10.5		261.7	○	SP 147 + 1155 (N2-424)		
4																
5		0						+5.5		+5.5		267.2	△	T.		
6																
7	N	165		90° 38' 00"				4.0	-1.8	-5.8		261.4		SP 148		
8																
9	N	1485		90° 17' 00"				4.0	-7.3	-11.3		255.9		SP 149		
10																
11	N	245		90° 00' 00"				4.0	-7.9	-11.9		255.3	○	SP 150		
12		CK.	R.	90° 00' 00"	0.20' 50"		3-0	09 38	4.0	-7.8	-11.8			CK.		
13		245														
14	S	325		90° 13' 02"				4.0	+8.1	+12.1		267.4	△			
15																
16	S	825		90° 25' 00"				5.0	-6.0	-11.0		256.4		SP 151		
17		0														
18		0														
19																
20	N	495		92° 01' 00"				-25.0	-17.4	-42.4		225.0		SP 152		

TI-588B

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STADIA SURVEY NOTES

AREA WPR-4 STATE or PROVINCE ALASKA PAGE No. 29
 LINE No.(s) 526 PARTY No. 194 DATE 2 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Duck RODMAN J. SPRAGUE WEATHER: Snow, Fog P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correction			Center Hair	INST.			
1											267.4				
2	N	1815-		92.0548				-1.50	-66.4	-81.3	186.1	0	SP	153	
3															
4	S	1855-		90.4316				+4.0	+23.3	+27.3	213.4	A			
5															
6	S	535-		92.25-				-4.0	-22.6	-26.6	186.8		SP	154	
7															
8		0-						-5.3		-5.3	208.1	π	SP	154+535	
9															
10	N	785-		83.02-				-4.0	+13.2	+9.2	222.6		SP	155	
11															
12	N	2105-		83.015				-13.0	+36.0	+19.0	231.4	0	SP	156	
13															
14															
15															
16															
17															
18															
19															
20															

TI-580B

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 30
 LINE No.(s) 525 PARTY No. 184 DATE 3 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. DUSDAL RODMAN J. SPRAGUE WEATHER: OVERCAST, P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2												231.4	0	SP	156	
3	S	2489		89 49 35				+4.0	-7.5	-3.5	227.9		A			
4																
5	S	1169		90 23				-4.0	-7.8	-11.8		216.1		SP	157	
6																
7		0						-5.6		-5.6		222.3	π	SP	157 + 1169 (N2-426)	
8																
9	N	151		95 23				-4.0	-14.2	-18.2		209.7		SP	158	
10																
11	N	1471		91 42				-4.0	-42.6	-47.6		180.3		SP	159	
12																
13	N	2791		90 53 02				-5.0	-43.1	-48.0		179.9	0	SP	160 (N2-427)	
14																
15		0						+6.0		+6.0	185.9		A	T		
16																
17	N	1320		89 05				-4.0	+21.1	+17.1		203.0		SP	161	
18																
19	N	3765		88 53 01				-5.0	+73.4	+68.3		254.2	0	SP	162 + 1125 (N2-428)	
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 31
 LINE No.(s) 5XS PARTY No. 1184 DATE 6 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: CLEAR - WARM P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		<u>TIE</u>		<u>TO</u>	<u>LINE</u>	<u>58</u>										
2																
3		<u>TAKE</u>		<u>OFF</u>	<u>SP</u>	<u>164</u>	<u>LINE</u>	<u>5XS</u>				<u>207.2</u>				
4	<u>S</u>	<u>410</u>	✓			<u>T</u>	<u>+1.7</u>	<u>2.1</u>	<u>0.4</u>	<u>-0.4</u>	<u>206.8</u>		△			
5		<u>0</u>							<u>5.2</u>			<u>201.6</u>	<u>X</u>			<u>58 6 5XS. GROUND</u>
6		<u>0</u>							<u>-3.0</u>	<u>-3.0</u>	<u>198.1</u>		<u>AS</u>			<u>TOP OF PIPE</u>
7	<u>W</u>	<u>895</u>	✓						<u>75.0</u>	<u>-15.0</u>	<u>191.8</u>					<u>SP 212 LINE 58</u>
8																
9	<u>N</u>	<u>910</u>		<u>90° 30'</u>					<u>73.1</u>	<u>-7.9</u>	<u>-21.0</u>	<u>185.8</u>				<u>SP 165 LINE 5XS.</u>
10																
11	<u>E</u>	<u>428</u>		<u>89° 00'</u>					<u>3.3</u>	<u>17.5</u>	<u>+4.2</u>	<u>211.0</u>	○			<u>SP 211 LINE 58</u>
12																
13																
14																
15																
16																
17																
18																
19																
20																

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 CHECKED BY 1st PD

 2nd LITTLER

STADIA SUR

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 32
 LINE No.(s) 525 PARTY No. 184 DATE 3 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR D. Dvsda RODMAN J. SIRAGUE WEATHER: OVERCAST P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2												254.2	0	SP	162	+1125 (NZ-428)
3		0						+5.8		+5.8	-260.0		AT			
4																
5	S	1125		91.7.8				-6.0	-28.8	-34.8		225.2	SS	SP	162	
6																
7	N	195		92.59				-4.0	-10.1	-14.1		245.9		SP	163	
8																
9	N	1133		91.08.67				-4.0	-22.4	-26.4		233.6	0	SP	163	+1125 938
10																
11	S	3022		92-172				-1.0	-34.0	-30.0		203.6				
12																
13	S	2640		89.50.07				-4.0	+7.6	+3.6		207.2			164	
14																
15	S	1320		90.33.18				-4.0	-12.8	-16.8		186.0			165	
16																
17								6.0						X	166	
18																
19	N	1320		89.57.08				-1.0	+20.3	+16.3		219.9			167	
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 33
 LINE No.(s) 525 PARTY No. 184 DATE 3 Day 5 Mo. 23 Yr. BOOK No. 3
 SURVEYOR D. Durdal RODMAN J. SPRAGUE WEATHER: OVERCAST P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												203.6				
2	N	1815 ✓		88 43 10					-4.0	+40.5	+36.5		240.1	⊙	SP	167+495
3		✓		27 16 41	+01 16 45				-4.0							
4																
5	S	825 -		90 55 58					+4.0	+13.6	+17.6		257.7	Δ		
6		✓		26 03 52	-0 56 28				-4.0					CK		
7																
8		0 -							5.8		58		251.9	π	SP	168 (N2-430)
9																
10	N	1320 -		91 06 39					-4.0	-25.6	-29.6		228.1	⊙	SP	169
11				26 53 07	-01 06 46											
12	S	1815 -		88 28 21					+4.0	-48.4	-44.4		183.7	Δ		
13																
14	S	495 -		89 12 -					-4.0	+6.9	+2.9		186.6		SP	170
15																
16		0							-5.8		-5.8		177.9	π	SP	170+495
17																
18	N	825 -		92 22 -					+4.0	-34.1	-48.1		135.6		SP	171
19																
20	N	2145 -		91 11 -					-4.0	-49.3	-48.3		135.4	⊙	SP	172 (N2-431)

TI-588B

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CHECKED BY 1st DD

SP-172 WAS MADE a ⊙ WHEN JIM SPRAGUE CONTINUED THE SP-SURVEY + Δ 172
1747 Dec 2nd

STADIA SURVEY NOTES

AREA NPR 1 STATE or PROVINCE ALASKA PAGE No. 34
 LINE No.(s) 5, 6, 7 PARTY No. 1184 DATE 6 Day 7 Mo. 75 Yr. BOOK No. 3
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1		TAKE		OFF												
2																
3												135.4	0	SP	172	
4		0										140.8				
5																
6		1320		95° 03' 30"					-4.0	-13.0	-5.3	135.5		SP	173	
7																
8	N	2640		89° 55' 51"					4.0	+3.2	-0.8	140.0	0	SP	174	
9																
10	E	1807		91° 01' 10"					6.0	+35.5	+41.5	181.5				
11																
12		677		87° 43' 06"					4.0	-20.5	-24.5	157.0		SP	175	
13																
14		0							5.8		-5.8	175.7	X			(SP 175 + 677)
15																
16				90° 00' 00"					4.0	-11.4	-15.4	166.1				
17		63														
18	N			44° 00' 00"					14.0	-14.2	-28.5	153.25	0	SP	177	
19																
20																

TI-588B

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 35
 LINE No.(s) 5X5 PARTY No. 1154 DATE 6 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR SPYR. GILF RODMAN J. H. D. WEATHER: WAS P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2											153.2	0	SP 177		
3	S	2145		910869			+	+4.0	+42.5	+46.4	129.6	Δ			
4															
5		825		90° 53'				-4.0	-41.5	-45.5	154.1		SP 178		
6															
7		0						-5.0		-5.0	194.6	κ		GROUP. SP 178+1825	
8															
9		880	v					3.5		-3.5	196.1		N.P.	413 (SP 179+1045)	
10															
11		495		901546				-4.0	-2.3	-6.3	193.3		SP	179.1	
12															
13	N	1360	v					13.7		-13.7	185.9	0		GROUP. (SP 179+185)	
14															
15	S	2310		892455				+4.0	-16.9	-12.9	173.0	Δ			
16															
17		1815		902330				-4.0	-12.4	-16.4	156.6		SP	180	
18															
19		495		912153				-4.0	-12.6	-16.6	156.4		SP	181	
20															

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STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 36
 LINE No.(s) 5XS PARTY No. 1184 DATE 6 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: CLEAR P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											173.0				
2															
3		0-									168.0	X		GROUP 7, SP 181+495	
4															
5	N	825'		98.32.52					4.0	-7.8'	-11.8'			SP 182	
6											161.2				
7	N	2145'		36.27.56					5.0	-17.4'	-22.4'			SP 183 (N. 474)	
8															
9		0-													
10															
11		1320'		89.4.55					4.0	+17.3'	+13.3'			SP 184	
12															
13	N	2145'		89.09.59.2					5.0	+31.1'	+26.1'			SP 184 + 825	
14		0-		40.41.35.2 + 0 49.40					5.0						
15															
16		0-													
17															
18															
19															
20		1815'		37.1.55					4.0	+8.5'	+4.5'			SP 186	

TI-588B

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STADIA SURVEY NOTES

AREA NPR 4 STATE or PROVINCE ALASKA PAGE No. 37
 LINE No.(s) 5XS PARTY No. 1184 DATE 6 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR J. SPRAGUE RODMAN LUND WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Δ B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											188.2				
2															
3	N.	1980'		89° 44.59'				5.0	+8.9'	+3.4'	191.6	○	N	192.6 (SP 186+187)	
4		CK		270.1416	+10.1439'			5.0							
5															
6		0						5.6		+5.6'	197.2		X		
7															
8	N.	990'		90° 00.50'				74.0	-7.7'	-21.7'	175.5	○		GROUP. (SP 186+1155)	
9															
10	S	2805'		270.1416	+10.5609'			74.0	-45.8'	-41.8'	133.7		Δ		
11								74.0							
12															
13		2640'		89° 08.18'				74.0	+39.9'	+35.9'	169.6		SP	187	
14															
15		1320'		90° 00.10'				74.0	-1.2'	-5.2'	128.5		SP	188	
16															
17		0						5.4		-5.4'	128.3	X	SP	189	
18															
19															
20															

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CHECKED BY 1st PP L.T. T. Lunt 2nd _____

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 38
 LINE No.(s) 5XS PARTY No. 1184 DATE 6 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: WINDY P.T.S. No.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												133.7				
2																
3		1320		90 07 10				-4.0	-0.8'	-9.8'		128.9		SP	170	
4		2310														
5	N	2640		82 05 00				-6.0	+35.8'	+29.8'		163.5	O	SP	191 (N2-437)	
6		CK		150 54 00	+0.5317'			-6.0						CK		NB SPREAD
7																330' SHORT BETWEEN
8	S	1320		90 11 30	2			+5.0	+4.6'	+9.6'		173.1		Δ		190 & 191.
9		CK		262 41 36	3			+5.0						CK		
10																
11		0						5.9		-5.9'		167.2	R	SP	192 (N2-438)	
12		1320		90 03 28				-4.0	-3.1'	-7.1'		166.0		SP	193	
13																
14	N	2640		82 05 00				-11.0	-4.0'	-18.0'		155.1	O	SP	194	
15		CK		210 51 36	3			-11.0						CK		
16																
17																
18																
19																
20																

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STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 39
 LINE No.(s) 5XS PARTY No. 1184 DATE 6 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												155.1			
2															
3	E	3770		89 59 12					+4.0	-0.5	+3.5	158.6		Δ	
4		28.		270 00 06	320 00 25				-4.0					CK.	
5															
6		2450		90 00 56					-4.0	-0.7	-4.7	153.9		SP	195
7															
8		1130		90 30 00					-4.0	-9.9	-13.9	144.7		SP	196
9															
10		0							-5.9		-5.9	152.7		X	N2 - 439 (SP 196 + 1130)
11															
12		190		90 04 05					0.0	-0.2	-0.2	158.4		SP	197 TOP OF PIPE
13															GROUND - 2.9'
14															
15	N	1015		89 38 23					6.0	+6.3	+0.3	158.9		○	(N2-440) #3 E.S
16		CK.		270 01 05	+0212				6.0					CK.	
17															
18															
19															
20															

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WORKED BY SP CHECKED BY 1st PP L J & T Durb 2nd _____

STADIA SURVEY NOTES

AREA NPR-4 STATE or PROVINCE ALASKA PAGE No. 40
 LINE No.(s) 5XS PARTY No. 1184 DATE 6 Day 5 Mo. 75 Yr. BOOK No. 3
 SURVEYOR SPRAGUE RODMAN LUND WEATHER: _____ P.T.S. No. _____

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2												158.9	0			Group #3
3	S	4425'		89° 42' 45"				+5.0	-22.0	-17.0	141.9		Δ			
4	CK			270 1423				+5.0						R		
																+16.9°
5																
6		2845'		96° 16' 40"				-4.0	-8.8	-12.8		129.1		#8		E.S.
7																
8		1525'		90° 20' 10"				-4.0	-8.9	-12.9		129.0		#12		E.S.
9																
10		0'						+5.6	-5.6			136.3	X	SP		14-5-93 (N2 441)
11																GROUP #16 + 205)
12		125'		93° 58' 50"				-5.0	-8.7	-13.7		128.2		#17		E.S.
13		114														
14		785														
15		2435'														
16	N	510		89° 30'				1.6	+10.0	+19.3		167.2	0	#24		E.S. (N2 442)
17	R			270 29 09				1.6						R		
18																
19																
20																

TI-568B

WORKED BY DD CHECKED BY 1st DD LTJ 2nd _____