TT Telkwa F.1(2)A

TELKWA

SURVEY DATA

1982

Vol. 9

OPEN FILE

238

7 of 7

TK Telkwa 82(2)A

SURVEY CONTROL REPORT

FOR

CROWS NEST RESOURCES LIMITED

"TELKWA" PROJECT

At request of Crows Nest Resources Limited and in accordance with their contracts - CN22457, CN24375, CN24348, CN24349 - our firm undertook a control survey of the general area outlined in red on the proceeding page and also shown in detail on the accompanying maps. The surveys to-date represent 28 crew days of field work over the 1981-1982 seasons and were conducted for geological and photogrammetric purposes.

The following is a brief explanation of the method, procedure and technical specifications of the survey control on this project. For more detailed information please refer to the proposal or technical specifications in the contract.

DATUM

VERTICAL elevations are on geodetic datum and are derived from the following Government Control stations and bench marks:

GOVERNMENT BENCH BARK		ELEVATION
79 HA 362	=	575.883
79 HA 364	=	580.156
79 HA 366	=	545.690
79 HA 369	=	538.922
79 HA 372	=	522.139
244 H	=	506.631
1852 J	=	510.061
"DENYS" 68 H 6534	=	1629.460

HORIZONTAL co-ordinates are on Universal Transverse Mercator (Zone 9) control meridian 129° and are derived from the following Government Control monuments:

NAME	NUMBER	NORTHINGS	EASTINGS
"AMIGO"	74 HN 012	6,060,595.448	624,405.395
"BLITZEN"	50 N 1123	6,041,357.619	618,115.615
"BULKLEY"	74 H 2582	6,062,436.993	625,665.768
"CREEK"	74 H 2579	6,059,063.755	627,864.105
"MUCHO"	74 H 2581	6,061,660.829	625,281.207
"PABLO"	74 HN 016	6,052,629.453	624,672.290
"P CON #18"	64 HV 083	6,059,731.068	629,049.318
"POWER"	74 HN 007	6,059,644.004	627,368.733
"TACK"	68 H 6296	6,059,282.579	605,766.538
"DENYS"	68 H 6534	6,029,300.872	609,149.865

SURVEY METHOD

VERTICAL - other than a circuit of TBMs along Goathorn Creek Road from BM 79 HA 364 to the Bulkley Valley Coal Mine, which was by differential levelling, all elevations were determined by reciprical trigonometric levelling.

HORIZONTAL - traverses were forced centering with two theodolites and electric measuring.

PROCEDURE

VERTICAL - on short distances vertical angles were doubled and on longer courses a minimum of three doubles within 5" would be observed simultaneously. All traverses were looped and closed to specifications.

HORIZONTAL - on traverses two theodolites would leap-frog and the horizontal angles were doubled left and right face to close the horizon. EDM was corrected for atmosphere conditions and all traverses were looped and closed to contract specifications. On side shots the horizon was closed, all angles doubled and distances read in feet and meters.

EQUIPMENT - the following theodolites were used; Kern K1-M, Sokkisha TM20 and EDMs; HP3808, and Kern 502.

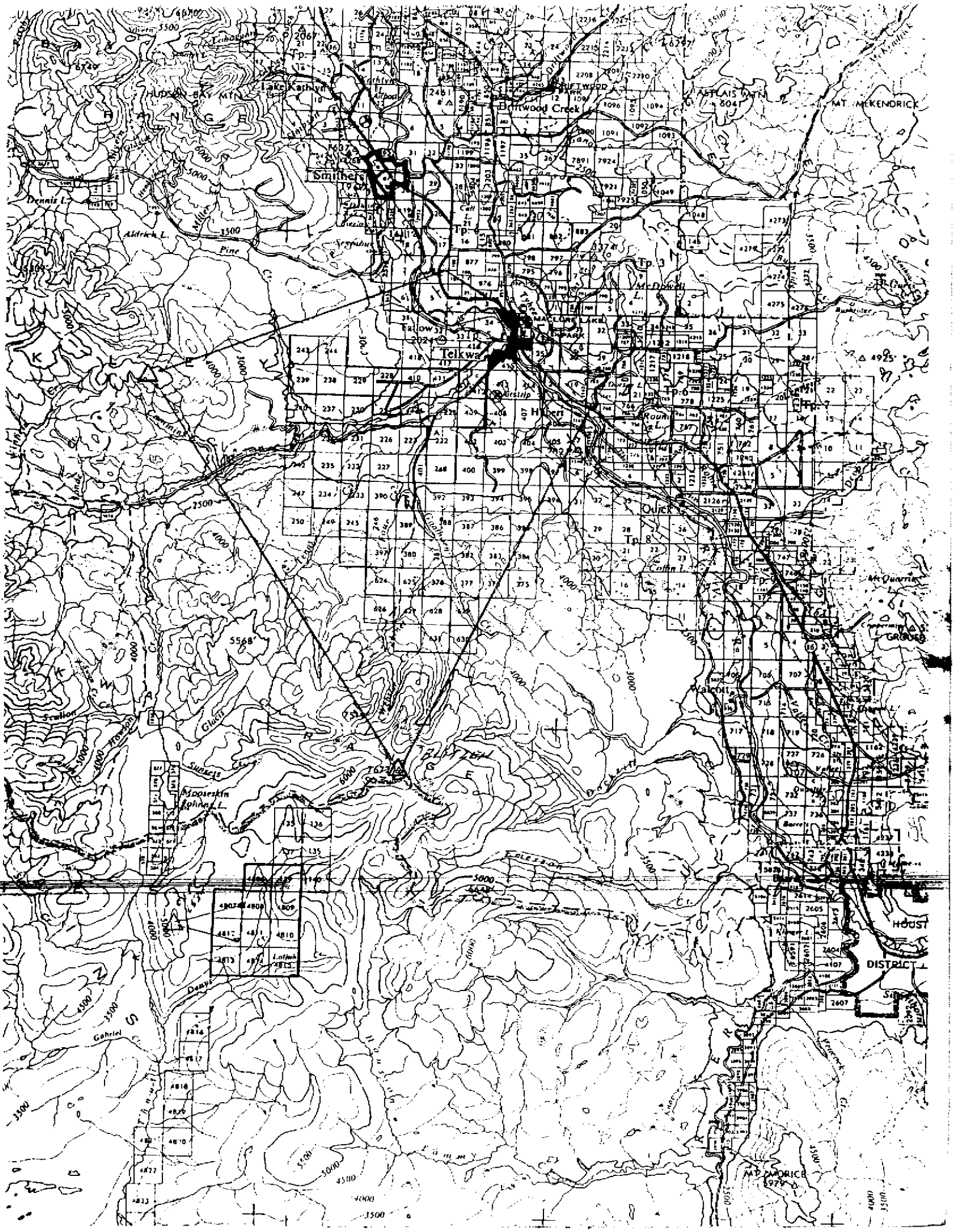
SPECIFICATIONS - as outlined in the contract the verticals were surveyed to 35 centimeters and the horizontal to 1:10,000. However, the survey was undertaken to 3rd order specifications as outlined in the Energy, Mines and Resources Canada Manual for Specification (1978) and the majority of closures and checks would indicate the survey is in the vacinity of 3rd order.

MONUMENTS - all survey stations and photo points are 30" iron bars on 12" spikes and are referenced by one or two reference trees. A nail and numbered tag in the reference tree has 3 diminsional co-ordinates to the same standard as the main survey.

THIS 7th DAY OF February 1983

D. E. Watson

DONALD E. WATSON B.C.L.S.


Lake Kathlyn
HUDSON BAY MTN
Bottlewood Creek
ASTLAIS MTN
MT. MCKENDRICK
Smithers
Dennis L.
Aldrich L.
Pine
Tp. 3
Mc Dowell L.
Tp. 6
Tp. 7
Telkwa
Hubert
Quick
Tp. 8
Cotton L.
Mc Quarrie
Walcott
Scallow
Glacier
Sunset
Moosekin
Spinder L.
Eagle Lake
Gabriel
Deeps
MT. SADDRICK
DISTRICT

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CROWS NEST RESOURCES LIMITED

TELKWA PROJECT

LIST OF 1981 SURVEY STATION CO-ORDINATES AND ELEVATIONS

NOTE: ELEVATIONS are on Geodetic Datum and are derived by reciprocal Trigonometric levelling from bench marks

CO-ORDINATES are on UTM (Zone 9) grid and are derived from Government Stations

NOVEMBER 3, 1982

D.E. Watson B.C.L.S.

TELKWA RIVER

SURVEY CONTROL COORDINATES

COORDINATES are on UTM and are derived from provincial government triangulation stations.

ELEVATIONS are on geodetic datum, obtained by reciprocal trigonometric leveling, and are derived from geodetic benchmarks.

STATION	DESCRIPTION	NORTHING	EASTING	STATION	ELEVATIONS GROUND	ELEVATIONS TARGET
"BLITZEN"	BRASS BOLT	6,041,357.619	618,115,615	2291.791	2291.8	---
"DONNER"	BRASS BOLT	6,063,531.828	602,126.918	1822.704	1822.7	---
"HOMBRE"	IP	6,061,081.096	624,895.351	531.910	---	---
"MAUD"	BRASS BOLT	6,044,488.020	611,661.232	1697.126	1697.1	---
"MUCHO"	BRASS BOLT	6,061,660.829	625,281.207	516.928	516.9	---
"PADRE"	BRASS BOLT	6,058,003.388	624,495.062	538.992	539.0	---
"PEUBLO"	IP	6,058,819.450	624,477.796	542.466	---	---
"TACK"	IP	6,059,282.579	605,766.538	1614.830	---	---
BM #244A	BRASS BOLT	---	---	506.63	---	---
1519	GRADE (V3)	---	---	---	507.18	---
1520	IP (HV12)	6,062,423.89	614,420.30	892.36	892.36	---
1521	TAG (HV12)	6,062,442.84	614,407.63	893.50	892.20	---
1522	TAG (HV12)	6,062,410.45	614,392.64	893.47	892.22	---
1523	IP	6,051,910.71	623,433.52	1216.59	1216.15	1216.15
1524	TAG	6,051,903.66	623,431.10	1216.34	1214.93	---
1525	TAG	6,051,906.74	623,445.67	1217.89	1216.58	---
1538	TAG (V13)	---	---	579.19	579.19	---
1589	TAG (HV14)	6,061,639.78	625,336.81	±520.	517.03	---
1590	TAG (HV14)	6,061,598.82	625,299.11	±520.	516.98	---
1591	TAG (HV 2)	6,057,948.37	624,410.08	544.72	544.72	---
1592	TAG (HV2)	6,058,086.24	624,441.85	540.16	540.16	---
1593	IP	6,059,407.43	606,217.26	1587.78	1587.58	---
1595	TAG	6,059,408.06	606,206.89	1588.45	1586.85	---
1596	SPIKE (HV4)	6,052,983.25	622,467.52	909.05	±907m	---
1597	TAG (HV4)	6,052,962.55	622,507.56	911.86	909.96	912.16
1598	TAG (HV4)	6,052,989.90	622,469.55	909.69	907.17	---
1599	IP	6,054,074.40	621,312.52	772.92	772.92	772.92
1600	TAG	6,054,076.85	621,384.69	767.13	765.52	---
1601 (TW81R104)	TAG	6,054,097.77	621,352.98	767.55	767.52	---
1602	IP	6,052,663.40	621,673.91	858.70	858.70	858.70
1603	TAG	6,052,697.67	621,662.11	861.95	860.46	---
1604 (TW81R105)	TAG	6,052,692.25	621,675.84	860.34	860.33	---
1605	TAG (HV5)	6,055,728.05	621,339.41	676.62	676.62	---
1606	IP (HV5)	6,055,695.62	621,328.37	677.46	677.46	---
1607	TAG (HV5)	6,055,683.58	621,319.48	680.16	678.66	---
1608	TAG (HV5)	6,055,727.43	621,332.54	678.85	677.45	---
1609	IP (HV9)	6,060,072.24	617,193.40	973.21	973.21	---
1610	TAG	6,059,418.56	606,225.51	1587.58	1586.1	---
1611	TAG (HV9)	6,059,987.12	617,163.77	946.92	944.92	---

STATION	DESCRIPTION	NORTHING	EASTING	STATION	ELEVATIONS GROUND	TARGET
1612	TAG (HV9)	6,060,070.46	617,202.17	975.47	973.97	---
1613	IP (HV8)	6,052,261.87	617,500.10	835.02	835.02	---
1614	TAG (HV8)	6,052,314.97	617,515.33	836.06	834.45	---
1615	TAG (HV8)	6,052,273.08	617,555.06	836.11	834.91	---
1616 (TE81R111)		6,057,981.03	616,496.76	787.36	787.36	---
1617	IP (HV10)	6,057,977.11	616,526.48	786.71	786.71	---
1618	TAG (HV10)	6,058,018.45	616,448.16	791.95	790.64	---
1619	TAG (HV10)	6,057,997.50	616,537.87	788.87	787.06	---
1620	IP (HV6)	6,060,123.39	622,260.23	585.65	585.65	---
1621	TAG (V6)	6,060,114.58	622,287.65	584.16	584.16	---
1622	TAG (V6)	6,060,107.01	622,292.91	585.56	584.36	---
1623	TAG (V6)	6,060,150.84	622,295.17	584.89	583.29	---
1624	IP	6,052,884.00	621,825.78	887.84	888.04	888.24
1625 (TW81D112)	TAG	6,052,883.11	621,815.31	888.29	888.34	---
1626	TAG	6,052,875.53	621,821.02	889.44	888.10	---
1627	SPIKE	6,055,164.04	622,158.27	695.41	695.60	---
1628 (TW81R101)	TAG	6,055,183.06	622,157.83	696.19	696.31	---
1629	IP	6,055,199.49	622,182.90	698.26	698.26	698.26
1630	TAG	6,055,179.45	622,185.80	696.97	694.0	---
1640	IP	6,054,057.14	619,734.10	760.39	760.39	760.39
1641	TAG	6,054,043.91	619,740.28	761.69	760.2	---
1642 (TW81R107)	TAG	6,054,078.26	619,774.33	760.60	760.60	---
1643	IP (HV1)	6,049,400.44	625,716.92	1392.88	1392.83	---
1644	TAG (HV1)	6,049,400.53	625,710.84	1393.12	1391.92	---
1645	TAG (HV1)	6,049,379.11	625,726.88	1390.98	1389.58	---
1646	NAIL (HV11)	6,050,792.92	613,762.55	1032.55	1032.15	---
1647	TAG (HV11)	6,050,801.14	613,762.03	1033.43	1032.33	---
1648	TAG (HV11)	6,050,808.74	613,613.65	1033.80	1032.50	---
1649	IP (HV7)	6,047,786.67	620,240.65	992.40	992.10	---
1650	TAG (HV7)	6,047,811.51	620,251.45	992.93	991.63	---
1651	TAG (HV7)	6,047,782.97	620,216.73	995.96	994.06	---

*NOTE - This list of 1981 survey station co-ordinates has been adjusted to fit the 1982 field work.

This 30th day of Nov. 1982

D. E. Watson

Donald E. Watson
B.C.L.S.

CROWS NEST RESOURCES LIMITED

TELKWA PROJECT

LIST OF SURVEY & REFERENCE STATIONS CO-ORDINATES & ELEVATIONS

SURVEYED JULY 26th TO AUGUST 2nd
1982

BY: DONALD E. WATSON B.C.L.S.

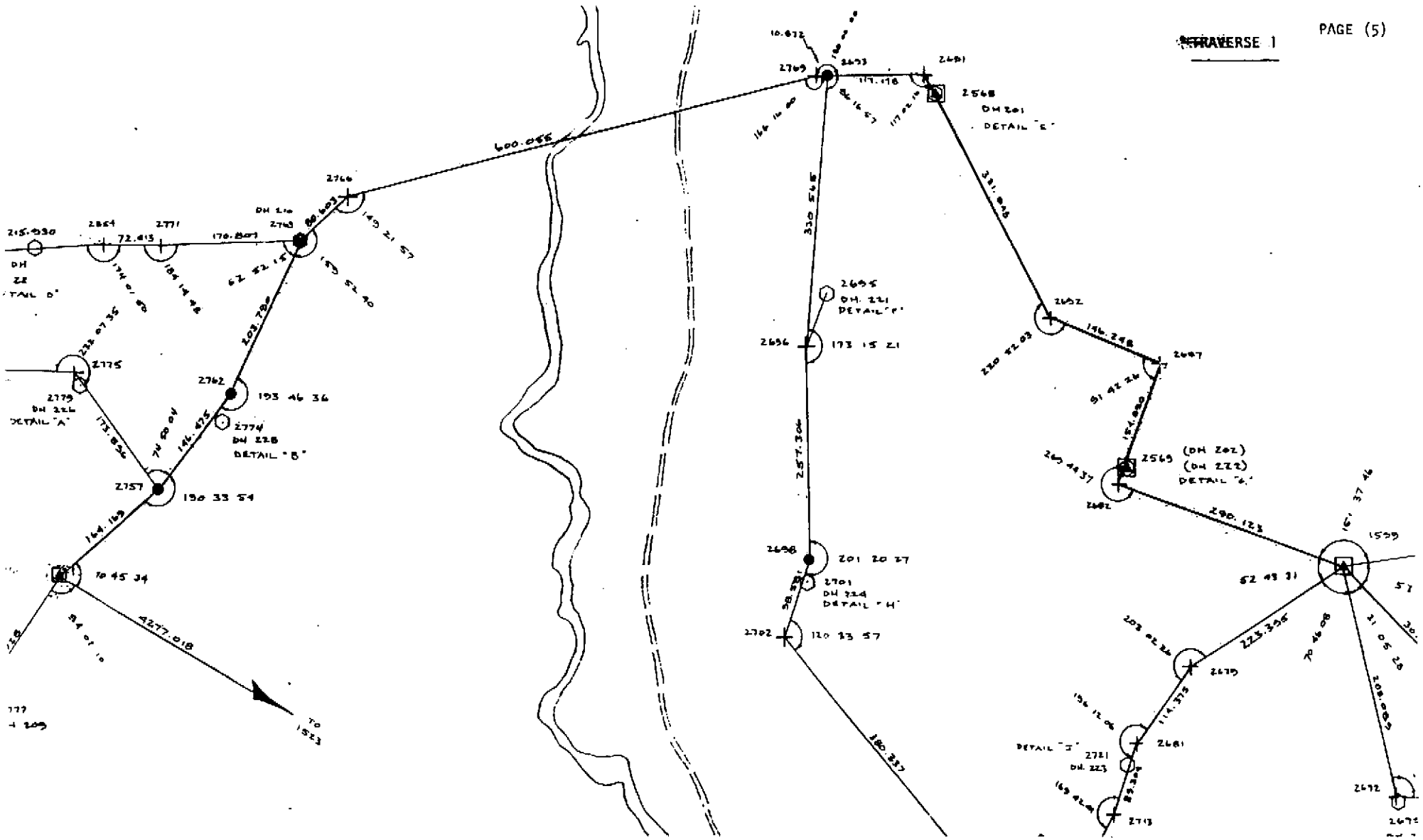
NOTE: ELEVATIONS are on Geodetic Datum and are derived by reciprocal Trigonometric levelling from bench marks 79HA 362,364,366,369,372, and 244A

CO-ORDINATES are on UTM (Zone. 9.) grid and are derived from Government Stations "AMIGO", "BLITZEN", "BULKLEY", "CREEK", "MUCHO", "PABLO", "P.CON.18", "POWER", & "TACK"

D.E. Watson B.C.L.S.

FILE #4275

TRAVERSE 1


2766
600.055
2769
2673
2681
2568
DH 201
DETAIL "E"
331.848
330 54 18
2695
DH. 221
DETAIL "F"
2656
173 15 21
257.306
2698
201 20 27
2701
DH 224
DETAIL "H"
2702
120 33 57
180.337
2652
2697
2565
(DH 202)
(DH 222)
DETAIL "G"
290.123
1599
52 49 31
223.356
2679
2681
DETAIL "I"
2721
DH. 223
2713
2672
2675
2771
2854
72.413
2775
2779
DH 226
DETAIL "A"
2762
193 46 36
2774
DH 228
DETAIL "B"
2757
190 33 54
164.169
4277.018
TO 1523

TRAVERSE 1 SURVEY STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
BISE	1523	75cm IP & Target			1216.59	1216.15	6,051,910.71	623,433.52
			315-34-15	3029.889				
3	1599	75cm IP & Target			772.92	772.92	6,054,074.40	621,312.52
			290-09-22	290.123				
3	2682	20cm Spike			759.53	759.6	6,054,174.37	621,040.16
			19-53-59	154.890				
3	2687	20cm Spike			753.87	753.9	6,054,320.02	621,092.88
			291-36-25	146.248				
3	2692	20cm Spike			745.24	745.2	6,054,373.87	620,956.91
			332-28-28	331.948				
3	2691	20cm Spike			717.07	717.1	6,054,668.24	620,803.50
			269-30-44	117.178				
3	2693	75cm IP			717.68	717.7	6,054,667.24	620,686.33
			269-30-40	10.872				
3	2769	20cm Spike			718.30	718.3	6,054,667.15	620,675.45
			255-46-40	600.055				
3	2766	75cm IP			722.91	722.9	6,054,519.73	620,093.80
			225-08-37	80.603				
3	2763	75cm IP			729.47	729.5	6,054,462.88	620,036.65
			205-01-17	203.790				
3	2762	75cm IP			749.18	749.2	6,054,278.21	619,950.46
			218-47-53	146.475				
3	2757	75cm IP			757.93	757.9	6,054,164.06	619,858.68
			229-21-47	164.169				
3	1640	75cm IP & Target			760.39	760.39	6,054,057.14	619,734.10

23NW

TRAVERSE 1
REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
B3SE	1523	75cm IP			1216.59	1216.15	6,051,910.71	623,433.52
			198-57-28	7.452				
		Tag 1524 in 10cm Fir			1216.34	1214.9	6,051,903.66	623,431.10
			108-06-42	12.780				
		Tag 1525 in 20cm Pine			1217.89	1216.6	6,051,906.74	623,445.67
3	1599	75cm IP & Target			772.92	772.92	6,054,074.40	621,312.51
			88-03-17	72.213				
3		Tag 1600 in 60cm Cottonwood			767.13	765.5	6,054,076.85	621,384.69
			59-50-06	46.588				
		Tag 1601 (TW81-R-104)			767.55	767.5	6,054,097.77	621,352.98
3	2682	20cm Spike			759.53	759.6	6,054,174.37	621,040.16
			146-12-22	28.933				
3		Tag 2683 in 60cm Cottonwood			762.62	761.4	6,054,150.33	621,056.25
			29-47-29	20.288				
3		Tag 2569 (DH 202) (Target)			758.23	758.2	6,054,191.98	621,050.24
			17-58-08	49.937				
3		Tag 2570 in 80cm Cottonwood			757.37	756.2	6,054,221.88	621,055.57
			330-32-48	32.164				
3		Tag 2571 in 40cm Birch			758.71	757.2	6,054,202.38	621,024.34
3	2687	20cm Spike			753.87	753.9	6,054,320.02	621,092.88
			332-46-38	5.636				
3		Tag 2670 in 20cm Willow			755.05	753.3	6,054,316.18	621,097.01
3	2692	20cm Spike			745.24	745.2	6,054,373.87	620,956.91
			209-51-16	0.896				
3		Tag 2689 in 50cm Cottonwood			746.76	745.6	6,054,373.09	620,956.46
3	2691	20cm Spike			717.07	717.1	6,054,668.24	620,803.50
			119-02-58	41.004				
3		Tag 2566 in 25cm Poplar			719.61	717.8	6,054,648.33	620,839.35
			29-52-22	3.902				
		Tag 2567 in 15cm Spruce			718.14	717.4	6,054,671.63	620,805.44
			152-58-01	27.148				
3		Tag 2568 (DH 201) & Target			718.94	717.5	6,054,644.06	620,815.84

B3NW

TRAVERSE I

REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2693	75cm IP			717.68	717.7	6,054,667.25	620,686.33
			82-40-24	3.527				
3		Tag 2694 in 10cm Pine			719.18	717.8	6,054,667.70	620,689.83
			179-36-09	8.902				
3		Tag 2695 in 15cm Poplar			719.51	718.0	6,054,658.34	620,686.39
3	2769	20cm Spike			718.30	718.3	6,054,667.15	620,675.45
			198-07-49	8.911				
3		Tag 2770 in 20cm Pine			719.24	717.4	6,054,658.68	620,672.68
3	2766	75cm IP			722.91	722.9	6,054,519.73	620,093.79
			270-17-52	4.987				
3		Tag 2767 in 10cm Alder			724.69	723.2	6,054,519.76	620,088.80
			40-13-46	12.225				
3		Tag 2768 in 40cm Cottonwood			723.81	722.6	6,054,529.06	620,101.69
3	2763	75cm IP			729.47	729.5	6,054.462.88	620,036.65
			28-29-09	21.688				
3		Tag 2764 in 50cm Stump			729.24	728.0	6,054,481.94	620,046.97
			299-53-27	18.512				
3		Tag 2765 in 40cm Poplar			731.33	729.9	6,054,472.10	620,020.60
			352-30-45	0.324				
3		Tag 2773 (DH 210)			731.13	729.5	6,054,463.20	620,036.61
3	2762	75cm IP			749.18	749.2	6,054,278.21	619,950.46
			71-37-35	5.342				
3		Tag 2760 in 15cm Pine			749.73	748.7	6,054,279.90	619,955.53
			327-10-48	14.913				
3		Tag 2761 in 35cm Poplar			749.07	747.5	6,054,290.75	619,942.37
			199-09-59	36.485				
3		Tag 2774 (DH 228)			750.63	750.6	6,054,243.75	619,938.48

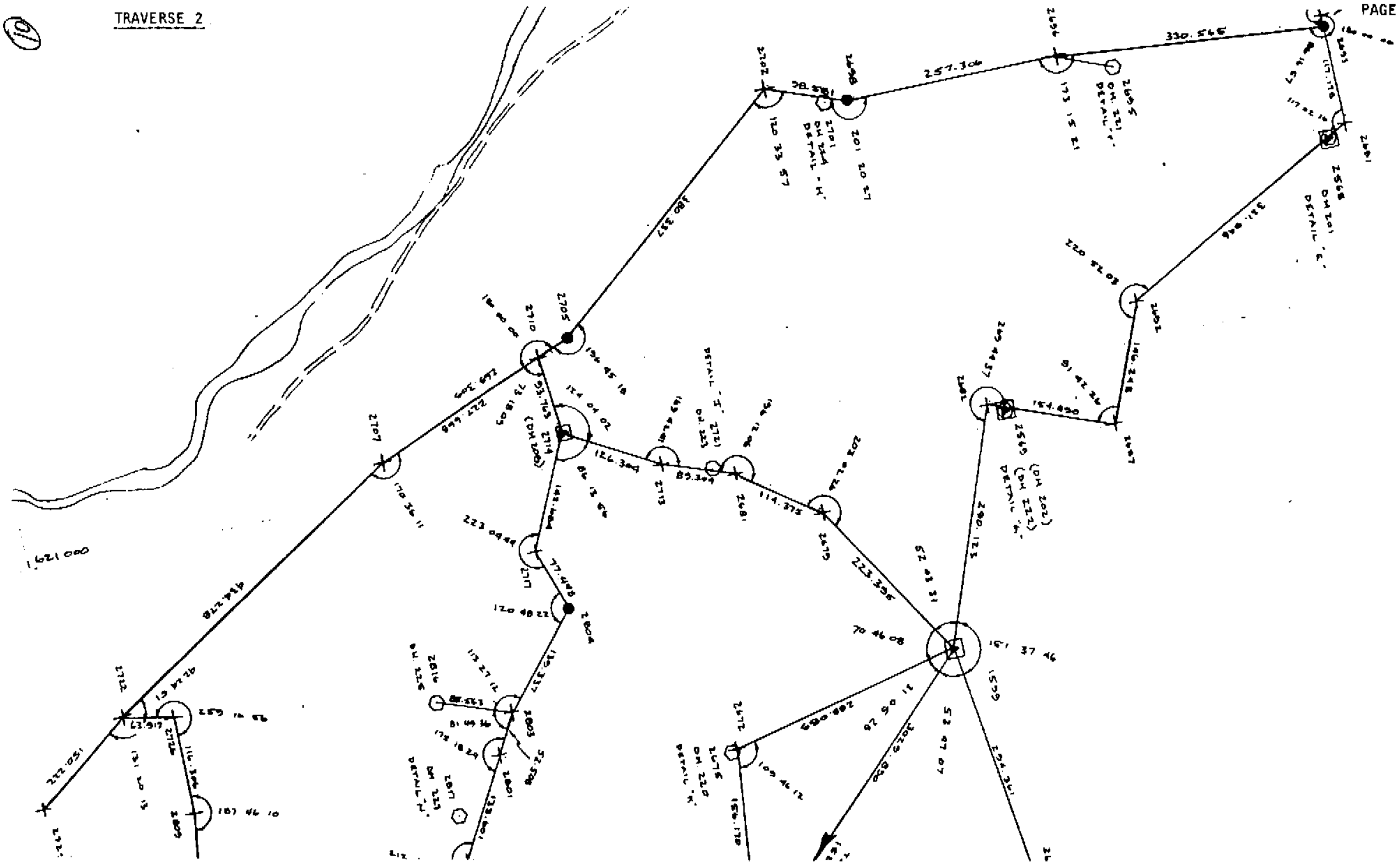
BIANU

TRAVERSE 1 to 13
REFERENCE STATIONS

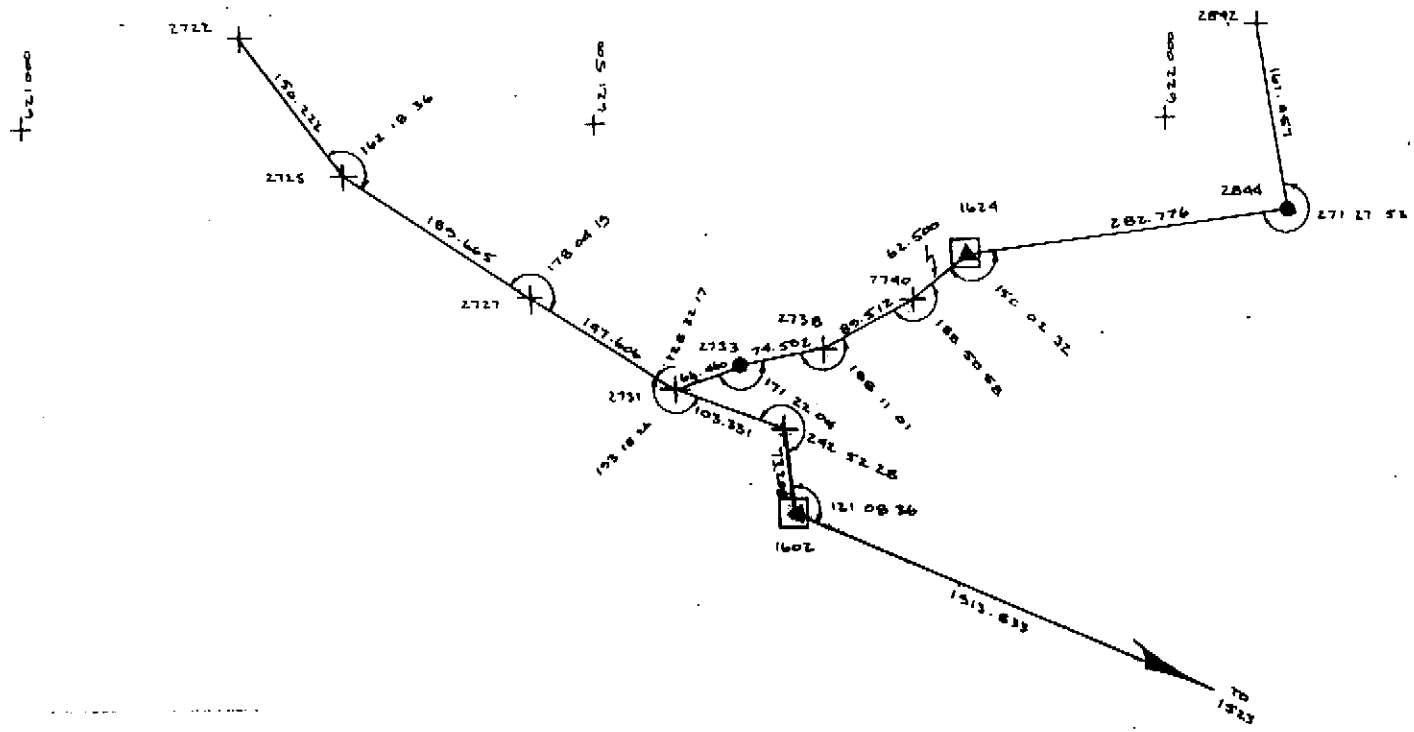
MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2757	75cm IP			757.93	757.9	6,054,164.06	619,858.68
			128-49-23	3.162				
3		Tag 2758 in 20cm Spruce			758.63	757.2	6,054,162.07	619,861.14
			60-05-27	5.790				
3		Tag 2759 in 5cm Spruce			759.09	757.8	6,054,166.94	619,863.70
3	1640	75cm IP			760.39	760.4	6,054,057.14	619,734.10
			214-08-34	206.73				
3		Tag 2777 (DH 209) 0.16^{m} casing			765.64	765.2	6,053,886.04	619,618.07
			61-54-56	45.20				
		Tag 1642 (Old Drill Hole TW81-R-107)			760.61	760.6	6,054,078.42	619,773.98
			155-54-26	14.306				
		Tag 1641 in 30cm Ø Pine			761.70	761.7	6,054,044.08	619,739.94
3	2676	75cm IP			760.19	760.2	6,054,116.46	621,603.86
			128-20-22	16.405				
3		Tag 2677 (DH 219)			760.66	760.7	6,054,106.28	621,616.72
			69-09-37	14.443				
3		Tag 2678 in 8cm Alder			761.50	760.0	6,054,121.60	621,617.35

33 NW

TRAVERSE 2



TRAVERSE 2.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1602
TO 1523
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185.665
178 04 15
147.606
153 18 34
105.331
171 22 04
242 52 26
121 08 36
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74.502
89.512
62.500
188 11 01
188 50 58
140 01 32
282.776
271 27 51
161.191
622.000
621.000
621.500

TRAVERSE 2 SURVEY STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2693	75cm IP			717.68	717.7	6,054,667.25	620,686.33
			185-47-41	330.565				
3	2696	20cm Spike			724.18	724.2	6,054,338.37	620,652.95
			179-03-02	257.306				
3	2698	75cm IP			732.99	733.0	6,054,081.10	620,657.21
			200-23-29	98.581				
3	2702	20cm Spike			736.24	736.2	6,053,988.69	620,622.87
			140-57-26	380.337				
3	2705	75cm IP			780.71	780.7	6,053,693.29	620,862.44
			157-42-45	269.309				
3	2707	20cm Spike			787.04	787.0	6,053,444.10	620,964.58
			148-18-56	434.278				
3	2722	20cm Spike			810.14	810.1	6,053,074.55	621,192.68
			142-04-00	150.222				
4	2725	20cm Spike			818.67	818.7	6,052,956.07	621,285.03
			124-22-36	189.665				
4	2727	20cm Spike			840.76	840.8	6,052,848.98	621,441.57
			122-26-55	147.606				
4	2731	20cm Spike			858.71	858.7	6,052,769.78	621,566.13
			109-08-29	103.331				
4	2736	20cm Spike			864.84	864.8	6,052,735.90	621,663.75
			172-00-57	73.208				
4	1602	75cm IP & Target			858.70	858.70	6,052,663.40	621,673.91
			113-09-33	1913.833				
4	1523	75cm IP & Target			1216.59	1216.15	6,051,910.71	623,443.52

B3NW

B3SW

B35E

Traverse 2
REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2696	20cm Spike			724.18	724.2	6,054,338.37	620,652.95
			287-29-10	5.965				
3		Tag 2697 in 30cm Poplar			726.02	724.3	6,054,340.16	620,647.26
			23-07-49	70.259				
3		Tag 113 (DH 221)			724.30	723.2	6,054,402.98	620,680.55
3	2698	75cm IP			732.99	733.0	6,054,081.10	620,657.21
			24-39-02	16.019				
3		Tag 2699 in 35cm Poplar			733.32	731.8	6,054,095.66	620,663.90
			120-30-42	7.186				
3		Tag 2700 in 30cm Willow			734.61	732.6	6,054,077.45	620,663.41
			189-06-07	26.662				
3		Tag 2701 (DH 224)			733.84	732.6	6,054,054.77	620,653.00
3	2702	20cm Spike			736.24	736.2	6,053,988.69	620,622.87
			313-08-47	4.117				
3		Tag 2703 in 30cm Poplar			737.06	735.5	6,053,991.51	620,619.86
			203-52-35	5.136				
3		Tag 2704 in 20cm Poplar			736.64	734.7	6,053,983.99	620,620.79
3	2705	75cm IP			780.71	780.7	6,053,693.29	620,862.44
			144-42-01	3.586				
3		Tag 2706 in 10cm Poplar			782.21	780.8	6,053,690.37	620,864.51
3	2707	20cm Spike			787.04	787.0	6,053,444.10	620,964.58
			253-04-03	3.952				
3		Tag 2708 in 15cm Willow			788.17	786.7	6,053,442.95	620,960.79
			162-17-40	14.059				
3		Tag 2709 in 30cm Poplar			787.39	785.8	6,053,430.71	620,968.85

23NW

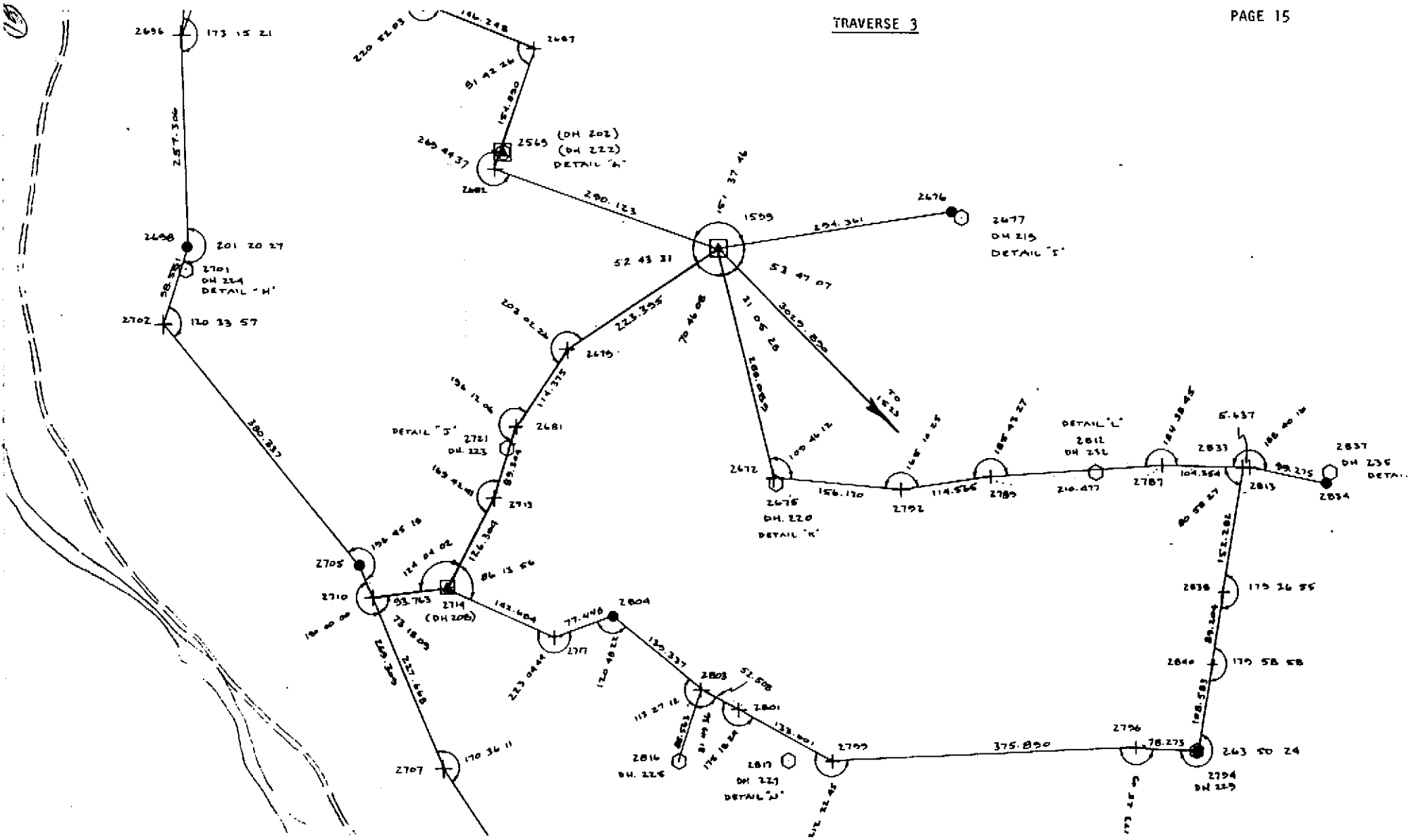
TRAVERSE 2
REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2722	20cm Spike			810.14	810.1	6,053,074.55	621,192.68
			216-32-22	3.407				
3		Tag 2723 in 35cm Poplar			811.58	810.3	6,053,071.82	621,190.65
			153-10-38	19.542				
3		Tag 2724 in 10cm Spruce			811.75	810.4	6,053,057.11	621,201.50
4	2725	20cm Spike			818.67	818.7	6,052,956.07	621,285.03
			2-46-24	3.941				
4		Tag 2728 in 30cm Poplar			820.11	819.0	6,052,960.01	621,285.22
			230-23-45	13.609				
4		Tag 2729 in 30cm Poplar			819.13	817.7	6,052,947.39	621,274.54
4	2727	20cm Spike			840.76	840.8	6,052,848.98	621,441.57
			174-57-56	3.161				
4		Tag 2730 in 10cm Poplar			841.88	840.7	6,052,845.83	621,441.84
4	2731	20cm Spike			858.71	858.7	6,052,769.78	621,566.13
			116-25-46	7.665				
4		Tag 2732 in 5cm Willow			860.80		6,052,766.37	621,572.99
4	2736	20cm Spike			864.84	864.8	6,052,735.90	621,663.75
			273-41-17	4.991				
4		Tag 2737 in 25cm Willow			865.64	864.0	6,052,736.22	621,658.76
4	1602	75cm IP & Target			858.70	858.70	6,052,663.40	621,673.91
			340-59-30	36.244				
4		Tag 1603 in 15cm Willow			861.95	860.5	6,052,697.67	621,662.11
			03-13-29	28.975				
		Tage 1604 TW81-R-105			860.33	860.3	6,052,692.33	621,675.54

B3NW

B3SW

TRAVERSE 3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201 20 27
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DH 224
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(DH 222)
DETAIL "A"
2681
1599
2676
2677
DH 215
DETAIL "I"
52 43 31
53 47 07
2675
2681
DETAIL "J"
2721
DH. 223
2713
2705
2710
2714
(DH 208)
2707
170 36 11
2677
2804
2803
2801
2816
DH. 226
2817
DH 223
DETAIL "J"
2672
2675
DH. 220
DETAIL "K"
2792
2789
DETAIL "L"
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DH 232
2787
2833
2813
2837
DH 236
2834
2836
175 36 55
2840
170 58 58
2796
2794
DH 229
263 50 24
375.850
TO 1633

TRAVERSE 3 SURVEY STATIONS

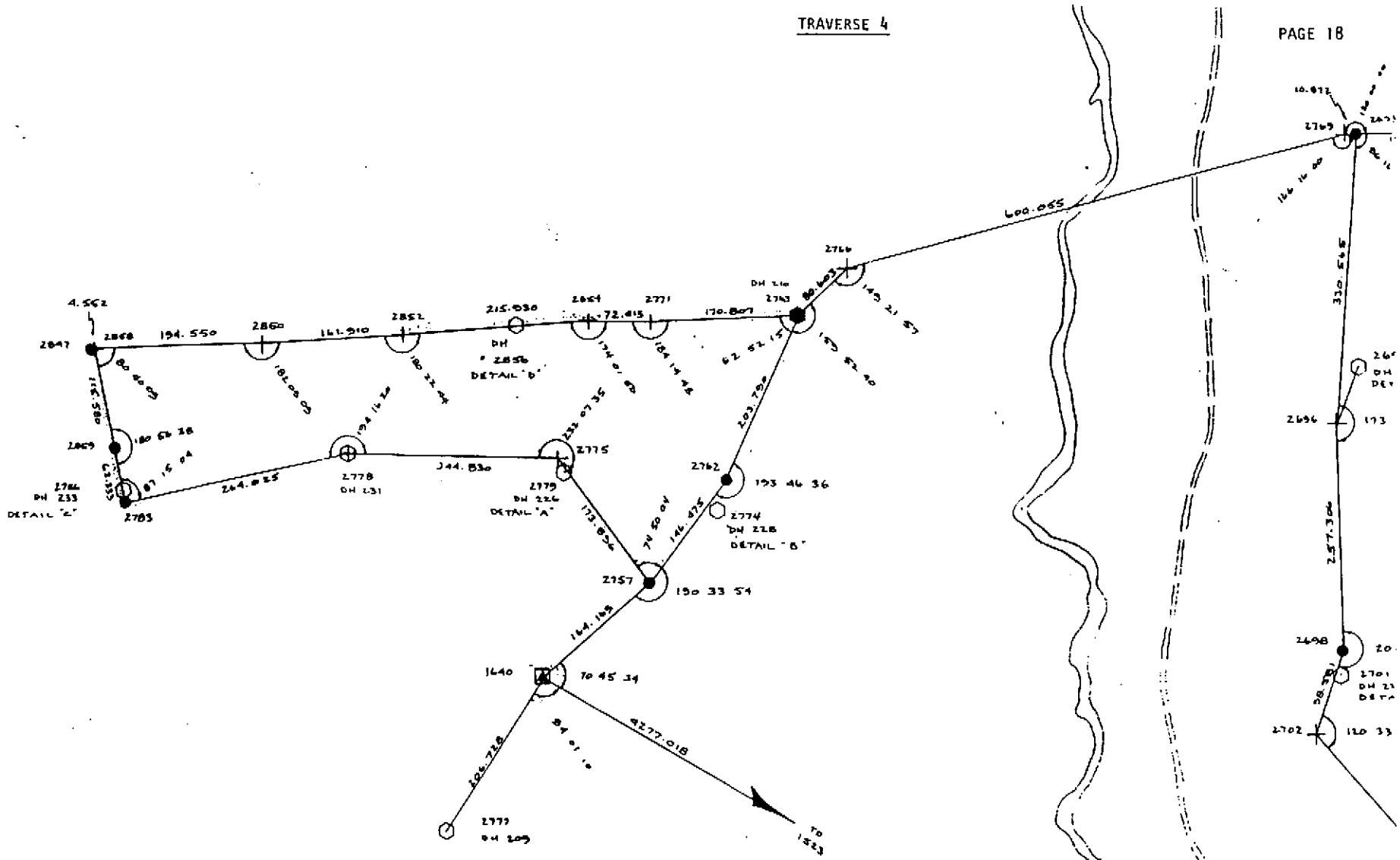
MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2707	75cm IP			787.04	787.0	6,053,444.10	620,964.58
			337-42-42	227.668				
3	2710	20cm Spike			781.32	781.3	6,053,654.76	620,878.23
			84-24-36	93.763				
3	2714	75cm IP (DH 208) & Target			785.81	785.8	6,053,663.90	620,971.55
			28-28-38	126.304				
3	2713	20cm Spike			779.84	779.8	6,053,774.92	621,031.77
			18-11-19	89.304				
3	2681	20cm Spike			778.49	778.5	6,053,859.76	621,059.65
			34-23-25	114.375				
3	2679	20cm Spike			773.61	773.6	6,053,954.15	621,124.25
			57-25-51	223.395				
3	1599	75cm IP			772.92	772.92	6,054,074.40	621,312.52

B3NW

TRAVERSE 3
REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2710	20cm Spike			781.32	781.3	6,053,654.76	620,878.23
3		Tag 2711 on Mineral Claim Post	121-45-27	5.320	783.51	782.2	6,053,651.96	620,882.75
3		Tag 2712 in 5cm Poplar	59-36-22	12.751	784.14	782.9	6,053,661.21	620,889.23
3	2714	75cm IP (DH 208) & Target			785.81	785.8	6,053,663.90	620,971.55
3		Tag 2715 in 25cm Spruce	229-12-54	26.269	787.08	785.3	6,053,646.74	620,951.66
3		Tag 2716 in 25cm Spruce	332-53-22	44.059	785.85	784.4	6,053,703.11	620,951.47
3	2713	20cm Spike			779.84	779.8	6,053,774.92	621,031.77
3		Tag 2719 in 60cm Cottonwood	15-05-46	8.290	780.38	779.3	6,053,782.92	621,033.93
3	2681	20cm Spike			778.49	778.5	6,053,859.76	621,059.65
3		Tag 2720 in 3cm Fir	77-37-40	3.148	780.17	778.6	6,053,860.44	621,062.72
3		Tag 2721 (DH 223)	204-58-55	29.258	777.92	777.9	6,053,833.24	621,047.29
3	2679	20cm Spike			773.61	773.6	6,053,954.15	621,124.25
3		Tag 2680 in 60cm Cottonwood	195-48-22	5.906	775.26	773.9	6,053,948.46	621,122.64

TRAVERSE 4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2702
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2869
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DH 233
DETAIL "C"
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DH 231
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2775
2779
DH 226
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2757
150 33 54
2762
193 46 36
2774
DH 228
DETAIL "B"
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1640
70 45 34
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TO
1223
2777
DH 209
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6064000

TRAVERSE 4

SURVEY STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2763	75cm IP			729.47	729.5	6,054,462.88	620,036.65
			267-53-32	170.807				
3	2771	20cm Spike			747.06	747.1	6,054,456.60	619,865.96
			272-08-20	72.413				
3	2854	20cm Spike			750.20	750.2	6,054,459.30	619,793.60
			266-10-10	215.930				
3	2852	20cm Spike			755.41	755.4	6,054,444.87	619,578.15
			266-32-54	161.910				
3	2850	20cm Spike			760.11	760.1	6,054,435.13	619,416.53
			268-42-03	199.102				
3	2847	75cm IP			766.27	766.3	6,054,430.61	619,217.48
			88-42-10	4.552				
3	2858	8cm Nail			766.02	766.0	6,054,430.71	619,222.03
			169-22-12	115.580				
3	2859	8cm Nail			770.67	770.7	6,054,317.12	619,243.35
			170-18-50	62.333				
3	2783	75cm IP			770.58	770.6	6,054,255.67	619,253.84
			77-33-54	264.025				
3	2778	8cm Nail (DH 231)			763.03	762.2	6,054,312.53	619,511.67
			91-50-14	244.830				
3	2775	20cm Spike			762.74	762.7	6,054,304.68	619,756.38
			143-57-49	173.896				
3	2757	75cm IP			757.93	757.9	6,054,164.06	619,858.68

BENW

TRAVERSE 4
REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2771	20cm Spike			747.06	747.1	6,054,456.60	619,865.96
			310-29-50	5.654				
3		Tag 2772 in 25cm Poplar			748.53	747.1	6,054,460.27	619,861.66
3	2854	20cm Spike			750.20	750.2	6,054,459.30	619,793.60
			338-27-25	4.677				
3		Tag 2855 in 30cm Poplar			751.43	750.2	6,054,463.65	619,791.88
3	2852	20cm Spike			755.41	755.4	6,054,444.87	619,578.15
			107-06-28	5.439				
3		Tag 2853 in 15cm Poplar			756.74	755.4	6,054,443.27	619,583.35
			87-05-31	132.391				
3		Tag 2856 (DH 234)				751.2	6,054,451.59	619,710.37
			278-41-52	42.43				
		Tag 3090 (DH-261)			755.41	755.4	6,054,451.29	619,536.21
3	2850	20cm Spike			760.11	760.1	6,054,435.13	619,416.53
			70-26-24	6.834				
3		Tag 2851 in 30cm Poplar			761.63	760.2	6,054,437.41	619,422.97
3	2847	75cm IP			766.27	766.3	6,054,430.61	619,217.48
			62-55-29	2.711				
3		Tag 2848 in 15cm Fir			767.61	766.3	6,054,431.85	619,219.90
			328-22-53	4.957				
3		Tag 2849 in 40cm Spruce			767.89	766.7	6,054,434.83	619,214.88
3	2858	8cm Nail			766.02	766.0	6,054,430.71	619,222.03
			268-42-10	4.552				
3		Tag 2847 75cm IP			766.27	766.3	6,054,430.61	619,217.48
			297-54-24	2.417				
3		Tag 2848 in 15cm Fir			767.61	766.3	6,054,431.85	619,219.90

B3NW

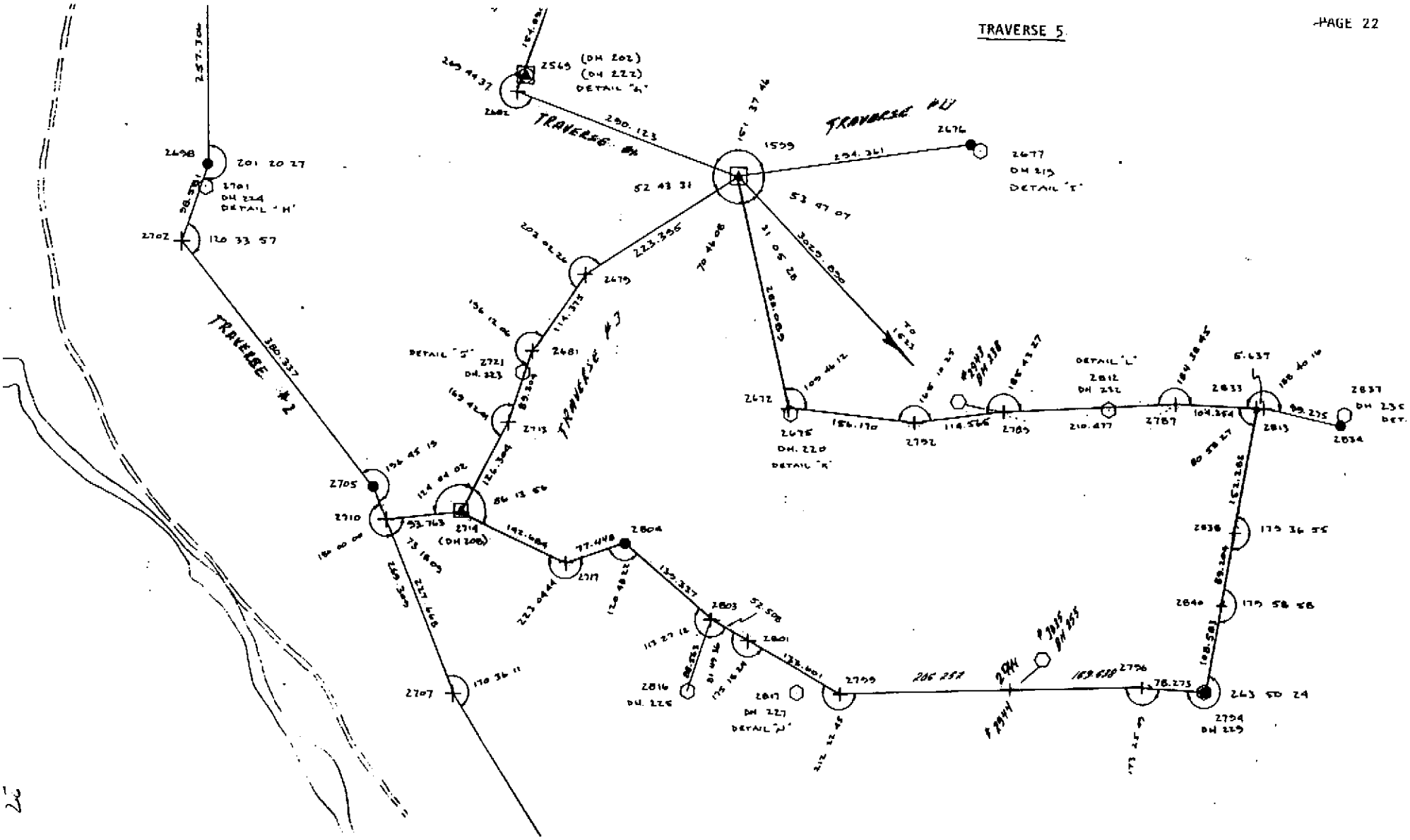
20

TRAVERSE 4

REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2859	8cm Nail			770.67	770.7	6,054,317.12	619,243.35
			4-52-22	3.463				
3		Tag 2860 in 40cm Spruce			771.81	770.4	6,054,320.57	619,243.65
3	2783	75cm IP			770.58	770.6	6,054,255.67	619,253.84
			332-14-06	13.909				
3		Tag 2784 in 30cm Pine			772.46	770.9	6,054,266.67	619,245.32
			85-41-42	4.096				
3		Tag 2785 in 35cm Pine			771.95	770.5	6,054,255.98	619,257.93
			5-29-09	13.911				
		Tag 2786 (DH 233)			770.58	770.2	6,054,269.52	619,255.16
3	2778	8cm Nail & Tag (DH 231)			763.03	762.2	6,054,312.53	619,511.67
			226-33-50	33.907				
3 B3NW		Tag 2781 in 30cm Spruce			765.06	763.7	6,054,289.21	619,487.05
			137-29-32	23.727				
3		Tag 2782 in 20cm Pine			764.05	762.8	6,054,295.03	619,527.70
3	2775	20cm Spike			762.74	762.7	6,054,304.68	619,756.38
			248-12-22	14.090				
3		Tag 2776 in 25cm Poplar			764.75	763.3	6,054,299.44	619,743.29
			156-00-45	19.073				
3		Tag 2779 (DH 226) & Target			762.10	762.1	6,054,287.25	619,764.13
			248-33-43	33.954				
3		Tag 2780 in 40cm Pine			762.91	761.7	6,054,292.27	619,724.77

TRAVERSE 5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TRAVERSE #2
TRAVERSE #3
TRAVERSE #4
TRAVERSE #5
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2721 DH. 223
2714 (DH 208)
2675 DH. 220 DETAIL "K"
2812 DH 232
2816 DH. 226
2817 DH 227 DETAIL "J"
2794 DH 229
2837 DH 230 DET.
2834

TRAVERSE 5 SURVEY STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	1599	75cm IP & Target			772.92	772.92	6,054,074.40	621,312.52
			166-39-43	288.089				
3	2672	20cm Spike			785.05	785.2	6,053,794.08	621,378.98
			96-25-55	156.170				
3	2792	20cm Spike			784.83	784.8	6,053,776.59	621,534.16
			81-36-20	114.565				
3	2789	20cm Spike			782.02	782.0	6,053,793.31	621,647.50
			87-19-47	210.477				
3	2787	20cm Spike			779.20	779.2	6,053,803.12	621,857.75
			91-58-32	109.991				
3	2813	20cm Spike			783.35	783.4	6,053,799.33	621,967.68
			271-58-37	5.637				
3	2833	20cm Spike			783.25	783.3	6,053,799.52	621,962.04
			191-00-05	152.282				
3	2838	20cm Spike			793.27	793.3	6,053,650.04	621,932.98
			190-37-00	89.204				
3	2840	8cm Nail in Root			797.61	797.6	6,053,562.36	621,916.55
			190-35-58	108.583				
3	2794	75cm IP			806.72	806.7	6,053,455.63	621,896.57
			274-26-22	78.273				
3	2796	20cm Spike			808.92	808.9	6,053,461.69	621,818.54
			267-51-31	169.638				
3	2944	20cm Spike			802.20	802.3	6,053,455.35	621,649.02
			267-51-31	206.252				
3	2799	20cm Spike			797.78	797.8	6,053,447.65	621,442.91
			300-14-16	133.601				
3	2801	20cm Spike			795.52	795.5	6,053,514.93	621,327.48
			295-32-40	52.508				
3	2803	20cm Spike			791.14	791.1	6,053,537.57	621,280.11
			310-49-28	139.337				
3	2804	75cm IP			790.63	790.6	6,053,628.66	621,174.67
			251-37-50	77.448				
3	2717	20cm Spike			788.63	788.6	6,053,604.25	621,101.17
			294-42-34	142.684				
3	2714	75cm IP (DH 208)			785.81	785.8	6,053,663.90	620,971.55

B3ow

TRAVERSE 5

REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2672	20cm Spike			785.05	785.2	6,053,794.08	621,378.98
			314-37-43	20.812				
3		Tag 2673 in 40cm Poplar			785.42	784.1	6,053,808.70	621,364.16
			48-36-48	7.555				
3		Tag 2674 in 30cm Cottonwood			786.58	785.2	6,053,799.08	621,384.65
			181-50-19	9.238				
3		Tag 2675 (DH 220)			785.50	785.5	6,053,784.85	621,378.68
3	2792	20cm Spike			784.83	784.8	6,053,776.59	621,534.16
			118-18-35	3.021				
3		Tag 2791 in 35cm Spruce			785.94	784.5	6,053,775.16	621,536.82
3	2789	20cm Spike			782.02	782.0	6,053,793.31	621,647.50
			182-24-32	3.978				
3		Tag 2790 in 50cm Spruce			783.73	782.3	6,053,789.34	621,647.34
			88-21-25	130.290				
3		Tag 2812 (DH 232)			781.09	779.1	6,053,797.05	621,777.74
			280-25-01	39.51				
		Tag 2943 (DH-238)			784.80	783.6	6,053,800.46	621,608.64
3	2787	20cm Spike			779.20	779.2	6,053,803.12	621,857.75
			336-48-47	6.124				
3		Tag 2788 in 30cm Spruce			779.85		6,053,808.75	621,855.34
3	2813	20cm Spike			783.35	783.4	6,053,799.33	621,967.68
			50-23-27	14.730				
3		Tag 2814 in 30cm Willow			784.37	783.2	6,053,808.72	621,979.03
			327-10-26	7.939				
3		Tag 2815 in 15cm Spruce			785.34	784.0	6,053,806.00	621,963.37
3	2833	20cm Spike			783.25	783.3	6,053,799.52	621,962.04
			91-58-37	5.637				
3		Tag 2813 in 20cm Spike			783.35	783.4	6,053,799.33	621,967.68
			11-36-18	6.612				
3		Tag 2815 in 15cm Spruce			785.34	784.0	6,053,806.00	621,963.37

B3NW

TRAVERSE 5
REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2838	20cm Spike			793.27	793.3	6,053,650.04	621,932.98
3		Tag 2839 in 35cm Willow	338-37-54	3.732	794.64	793.2	6,053,653.52	621,931.62
3	2840	8cm Nail in Root			797.61	797.6	6,053,562.36	621,916.55
3		Tag 2841 in 20cm Spruce	293-32-18	2.135	798.91	797.5	6,053,563.22	621,914.59
3	2794	75cm IP			806.72	806.7	6,053,455.63	621,896.57
3		Tag 2793 in 40cm Willow	101-16-22	9.699	808.91	807.7	6,053,453.74	621,906.09
3		Tag 2795 in 70cm Birch	238-09-34	14.217	808.52	807.1	6,053,448.13	621,884.50
3	2796	20cm Spike			808.92	808.9	6,053,461.69	621,818.54
3		Tag 2797 in 70cm Spruce	178-47-49	8.065	810.87	809.7	6,053,453.63	621,818.71
3	2799	20cm Spike			797.78	797.8	6,053,447.65	621,442.91
3		Tag 2798 in 30cm Spruce	195-15-22	9.039	799.13	798.0	6,053,438.92	621,440.53
3		Tag 2817 (DH 227)	271-51-01	56.206	798.24	797.3	6,053,449.46	621,386.73
3	2801	20cm Spike			795.52	795.5	6,053,514.93	621,327.48
3		Tag 2800 in 35cm Spruce	22-07-28	16.094	795.95	794.8	6,053,529.84	621,333.55
3	2803	20cm Spike			791.14	791.1	6,053,537.57	621,280.11
3		Tag 2802 in 1.00m Cottonwood	298-32-34	13.107	792.20	790.8	6,053,604.15	621,157.71
3		Tag 2816 (DH 225)	198-22-29	88.563	793.96	794.0	6,053,453.52	621,252.19

33NW

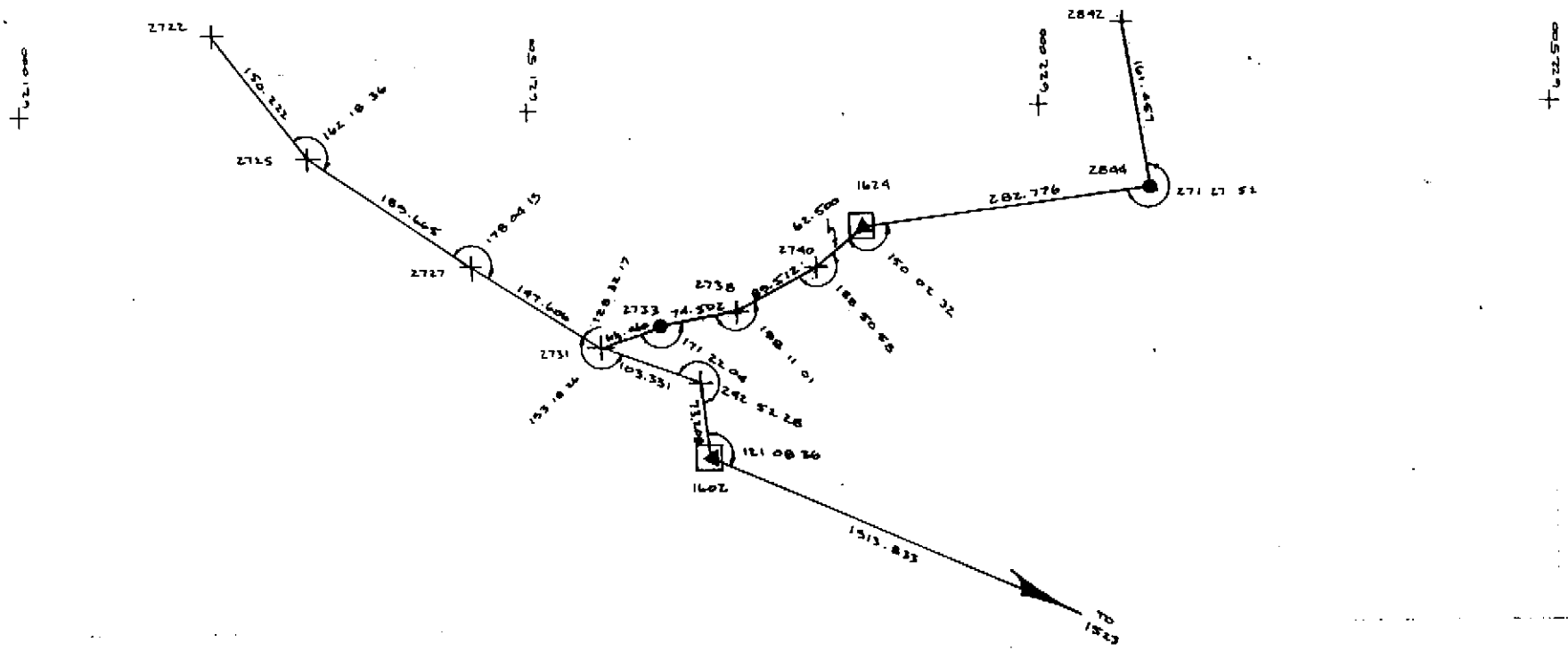
52

TRAVERSE 5

REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2804	75cm IP	34-09-50	3.994	790.63	790.6	6,053,628.66	621,174.67
3		Tag 2806 in 10cm Spruce			791.46	790.3	6,053,631.96	621,176.91
3	2717	20cm Spike	21-02-34	2.553	788.63	788.6	6,053,604.25	621,101.17
3		Tag 2718 in 1.00m Cottonwood			789.94	788.8	6,053,606.64	621,102.08
3	2834	75cm IP	318-59-48	18.506	782.78	782.8	6,053,780.99	622,065.24
3		Tag 2835 in 40cm Willow	58-30-18	10.824	783.92	782.6	6,053,794.95	622,053.10
3		Tag 2836 in 80cm Spruce	16-31-55	13.688	785.56	784.3	6,053,786.64	622,074.48
3		Tag 2837 (DH 235)			783.53	782.9	6,053,794.11	622,069.14
		(Point on Line Between 2796 & 2799)			802.20	802.3	6,053,455.35	621,649.02
	2944	20cm Spike	328-13-09	14.84				
		Tag 2945 in 20cm Spruce	106-37-04	14.41	803.36	801.96	6,053,467.97	621,641.20
		Tag 2946 in 20cm Spruce	28-27-33	15.85	804.28	---	6,053,451.23	621,662.82
		Tag 3035 (DH-255)			802.29	802.3	6,053,469.29	621,656.57

B3NW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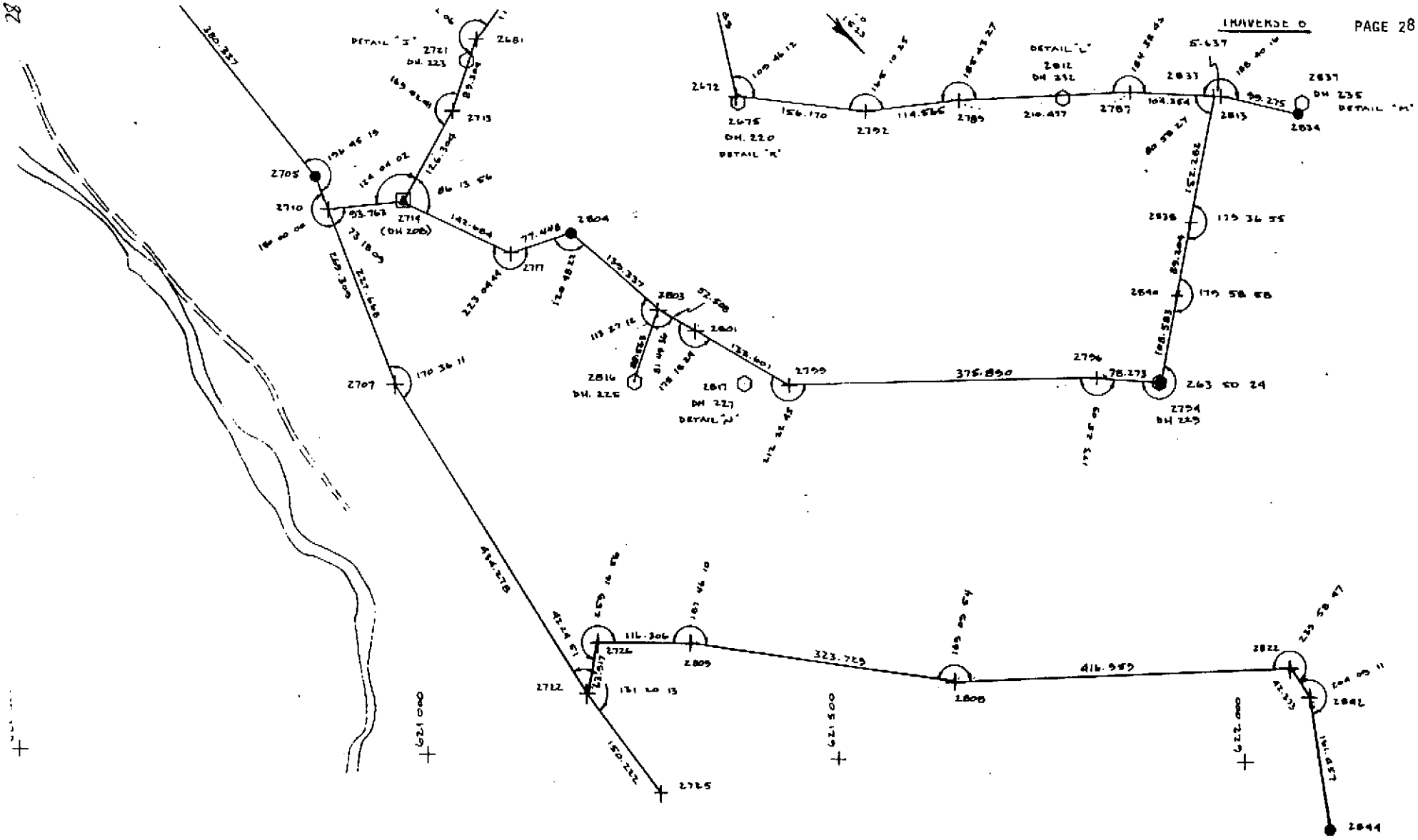
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DH. 225
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DH 227
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2794
DH 229
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DH. 220
DETAIL "R"
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DH 235
DETAIL "M"
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621 000
621 500
622 000

TRAVERSE 6 SURVEY STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
3	2722	20cm Spike			810.14	810.1	6,053,074.55	621,192.68
			10-43-47	63.917				
3	2726	20cm Spike			813.32	813.3	6,053,137.35	621,204.58
			90-00-43	116.306				
3	2809	20cm Spike In Stump			825.13	824.8	6,053,137.33	621,320.88
			97-46-53	323.729				
3	2808	20cm Spike			858.57	858.6	6,053,093.50	621,641.63
			86-56-47	416.959				
3 B3NW	2822	20cm Spike			869.14	869.1	6,053,115.71	622,058.00
			146-55-34	42.373				
3	2842	20cm Spike			875.11	875.1	6,053,080.20	622,081.12
			171-04-45	161.457				
4	2844	8cm Nail			894.71	894.7	6,052,920.70	622,106.16
			262-32-37	282.776				
4	1624	75cm IP & Target			887.84	888.04	6,052,884.00	621,825.78
			232-35-09	62.500				
4	2740	20cm Spike			886.02	886.0	6,052,846.03	621,776.13
			241-26-07	89.512				
4	2738	20cm Spike			879.06	879.1	6,052,803.23	621,697.52
			259-37-08	74.502				
4 B3SW	2733	75cm IP			870.80	870.8	6,052,789.80	621,624.23
			250-59-12	61.460				
4	2731	20cm Spike			858.71	858.7	6,052,769.78	621,566.13

MAP	STATION	TRAVERSE 6 DESCRIPTION	REFERENCE STATIONS BEARING	DISTANCE	ELEVATION	ELEVATION	NORTHING	EASTING
3	2726	20cm Spike			813.31	813.3	6,053,137.35	621,204.58
			335-10-13	3.030				
3		Tag 2811 in 20cm Willow			814.21	813.0	6,053,140.10	621,203.30
3	2809	20cm Spike in Stump			825.13	824.8	6,053,137.33	621,320.88
			28-08-01	6.565				
3		Tag 2810 in 40cm Poplar			825.44	824.1	6,053,143.12	621,323.98
			284-36-53	69.33				
3		Tag 2861 (DH-241			817.52	816.6	6,053,154.82	621,253.79
			111-01-44	80.97				
3		Tag 2862 (DH-243)			829.47	828.5	6,053,108.27	621,396.46
3	2808	20cm Spike			858.57	858.6	6,053,093.50	621,641.63
			196-43-53	29.421				
3		Tag 2807 in 50cm Willow			862.97	861.8	6,053,065.32	621,633.16
			84-22-33	8.376				
3		Tag 2863 (DH-245)			859.91	859.1	6,053,094.32	621,649.97
			85-47-22	229.16				
3		Tag 2864 (DH-247)			861.25	860.2	6,053,110.32	621,870.18
3	2822	20cm Spike			869.14	869.1	6,053,115.71	622,057.99
			192-38-07	1.201				
3		Tag 2821 in 40cm Fir			870.47	869.4	6,053,114.54	622,057.74
			75-39-47	52.81				
3		Tag 2865 (DH-249)			868.50	867.5	6,053,128.79	622,109.17
3	2842	20cm Spike			875.11	875.1	6,053,080.20	622,081.12
			156-59-20	4.256				
3		Tag 2843 in 30cm Spruce			877.21	875.9	6,053,076.29	622,082.79
4	2844	8cm Nail in Root			894.71	894.7	6,052,920.70	622,106.16
			342-22-07	9.746				
4		Tag 2845 in 25cm Willow			894.65	892.7	6,052,929.99	622,103.21
			247-26-01	24.916				
4		Tag 2846 in 50cm Spruce			896.37	895.2	6,052,911.14	622,083.15
4	1624	75cm IP & Target			887.84	888.04	6,052,884.00	621,825.78
			290-32-27	22.282				
4		Tag 2572 in 40cm Poplar			890.72	889.5	6,052,891.82	621,804.91
			12-34-27	14.192				
4		Tag 2573 in 35cm Poplar			890.80	889.8	6,052,897.85	621,828.87

B3NW

B3SW

TRAVERSE 6

REFERENCE STATIONS

MAP	STATION	DESCRIPTION	BEARING	DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING
4	1624	Tag 1625 TW81-R112	265-38-44	10.931	888.29	888.34	6,052,883.11	621,815.31
4	2740	20cm Spike	60-17-42	3.195	886.02	886.0	6,052,846.03	621,776.13
4		Tag 2741 in 40cm Poplar			887.87	886.5	6,052,847.61	621,778.91
4	2738	20cm Spike	172-44-20	7.040	879.06	879.1	6,052,803.23	621,697.52
4		Tag 2739 in 20cm Willow			880.31	879.0	6,052,796.24	621,698.41
4	2733	75cm IP	59-07-58	16.519	870.80	870.8	6,052,789.80	621,624.23
4		Tag 2734 in 50cm Cottonwood			872.81	871.6	6,052,798.28	621,638.41
83SW		Tag 2890 (DH-251)	169-54-11	87.740	871.90	871.9	6,052,867.54	621,583.54
		"RAYED POINT FROM 2733"						
4	2890	Nail in Hub	169-54-11	87.740	871.90	871.9	6,052,867.54	621,583.54
4		Tag 2891 in 30cm Poplar	209-21-59	13.73	871.26	869.6	6,052,855.47	621,576.60
4		Tag 2892 in 40cm Poplar	341-41-37	20.672	873.33	871.7	6,052,887.06	621,576.84

CROWS NEST RESOURCES LIMITED

TELKWA PROJECT

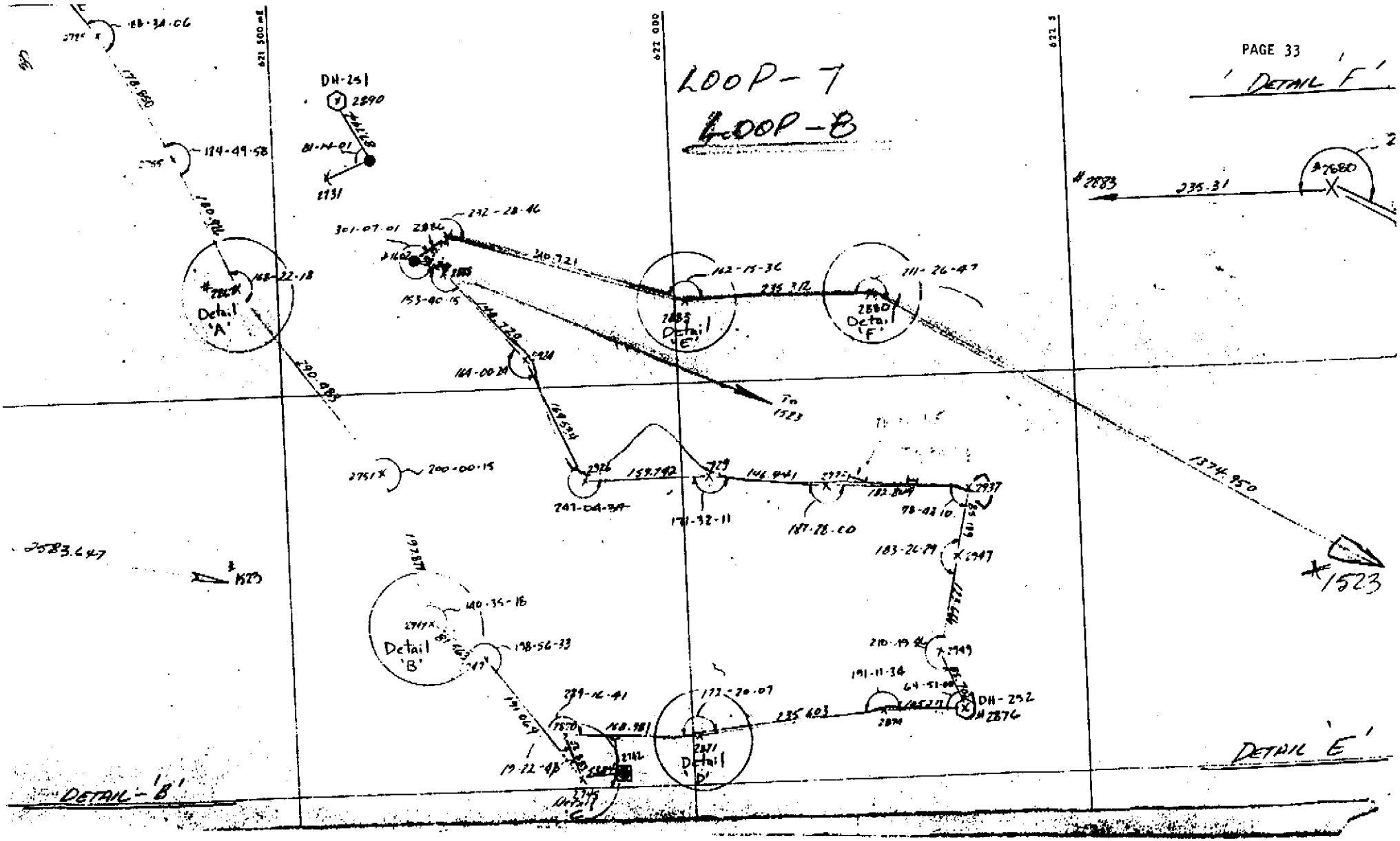
LIST OF SURVEY & REFERENCE STATIONS CO-ORDINATES AND ELEVATIONS

SURVEYED SEPTEMBER 7 - 21, 1982
BY: DONALD E WATSON B.C.L.S.

NOTE: ELEVATIONS are on Geodetic Datum and are derived by reciprocal Trigonometric levelling from bench marks 79HA 362,364,366,369,372, and 244A

CO-ORDINATES are on UTM (Zone. 9) grid and are derived from Government Stations "AMIGO", "BLITZEN", "BULKLEY", "CREEK", "MUCHO", "PABLO", "P.CON.18", "POWER", & "TACK"

D.E. Watson B.C.L.S.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LOOP-8
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DETAIL-'B'
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Detail 'B'
Detail 'C'
Detail 'D'
Detail 'E'
Detail 'F'
DH-251
DH-252
To 1523
1523
621 500 mE
622 000
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"TRAVERSE # 7 - SURVEY STATION"

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2722	20cm Spike			810.14	810.10	6,053,074.550	621,192.680	(5) B3SW
2725	20cm Spike	142-04-01	150.222	818.673	818.70	6,052,956.068	621,285.025	6
2755	20cm Spike	150-38-07	178.850	819.218	819.3	6,052,800.193	621,372.720	6
2867	20cm Spike	155-28-05	180.926	828.697	828.8	6,052,635.570	621,447.755	6
2751	20cm Spike	143-50-23	290.483	838.385	838.5	6,052,401.059	621,619.222	6
2749	20cm Spike	163-50-38	197.877	842.908	843.0	6,052,210.995	621,674.277	6
2747	20cm Spike	124-25-56	81.563	847.472	847.6	6,052,164.873	621,741.548	6
2745	20cm Spike	143-22-29	191.064	853.095	853.2	6,052,011.528	621,855.526	6
2870	20cm Spike	342-45-17	56.883	856.360	856.5	6,052,065.85	621,838.660	6
2871	20cm Spike	92-01-58	168.981	864.267	864.4	6,052,059.859	622,007.535	6
2874	20cm Spike	84-22-05	235.603	878.336	878.5	6,052,082.981	622,242.002	6
2876	Nail & Tag in Hub (DH 252)	95-33-39	105.213	886.994	887.00	6,052,072.785	622,346.720	6
2949	Nail & Tag in Stump	340-24-39	85.702	893.947	894.1	6,052,153.526	622,317.983	6
2947	20cm Spike	11-14-25	123.666	898.127	898.2	6,052,274.820	622,342.088	6
2937	20cm Spike	14-40-54	85.109	899.533	899.6	6,052,357.151	622,363.658	6
2933	20cm Spike	273-24-04	182.849	894.409	894.5	6,052,367.998	622,181.131	6
2929	20cm Spike	276-52-04	146.441	883.124	883.2	6,052,385.507	622,035.740	6
2926	20cm Spike	268-24-15	159.742	857.102	857.1	6,052,381.059	621,876.060 1	6
2924	20cm Spike	335-28-49	169.534	863.899	864.0	6,052,535.302	621,805.696	6
2888	20cm Spike	319-29-07	148.720	861.585	861.7	6,052,648.36	621,709.075	6
1602	75cm Iron Pin & Target	293-09-28	38.242	858.705	858.7	6,052,663.399	621,673.912	6
		113-09-33	1374.95					

B3SW

TRAVERSE #7 (REFERENCE STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2722	20cm Spike			810.14	810.1	6,053,074.55	621,192.68	5
		216-32-22	3.407					
	Tag 2723 in 35cm Poplar			811.58	810.3	6,053,071.82	621,190.65	5
		153-10-38	19.542					
	Tag 2724 in 10cm Spruce			811.75	810.4	6,053,057.11	621,201.50	5
2725	20cm Spike			818.67	818.70	6,052,956.07	621,285.03	6
		2-46-24	3.941					
	Tag 2728 in 30cm Poplar			820.11	819.0	6,052,960.01	621,285.22	6
		230-23-45	13.609					
	Tag 2729 in 30cm Poplar			819.13	817.7	6,052,947.39	621,274.54	6
2755	20cm Spike			819.22	819.3	6,052,800.19	621,372.72	6
		256-52-29	7.023					
	Tag 2756 in 50cm Cottonwood			818.89	817.3	6,052,798.60	621,365.88	6
2867	20cm Spike			828.69	828.8	6,052,635.57	621,447.76	6
		195-39-23	16.514					
	Tag 2754 in 15cm Willow			829.6	828.0	6,052,619.67	621,443.30	6
		108-00-40	89.846					
	Tag 2866 (DH 244)			839.70	838.8	6,052,607.78	621,533.20	6
2751	20cm Spike			838.39	838.5	6,052,401.06	621,619.22	6
		146-07-48	2.484					
	Tag 2752 in 15cm Fir			839.87	838.7	6,052,398.99	621,620.61	6
2749	20cm Spike			842.91	843.0	6,052,210.99	621,674.28	6
		263-15-44	10.970					
	Tag 2750 in 40cm Spruce			844.29	842.99	6,052,209.71	621,663.38	6
		351-11-52	135.428					
	Tag 2868 (DH-246)			840.28	840.3	6,052,344.83	621,653.55	6
2747	20cm Spike			847.47	847.6	6,052,164.87	621,741.55	6
		358-35-46	10.972					
	Tag 2748 in 5cm Willow			849.45	848.15	6,052,175.84	621,741.28	6

83 NW

83 SW

TRAVERSE #7 - REFERENCE STATION

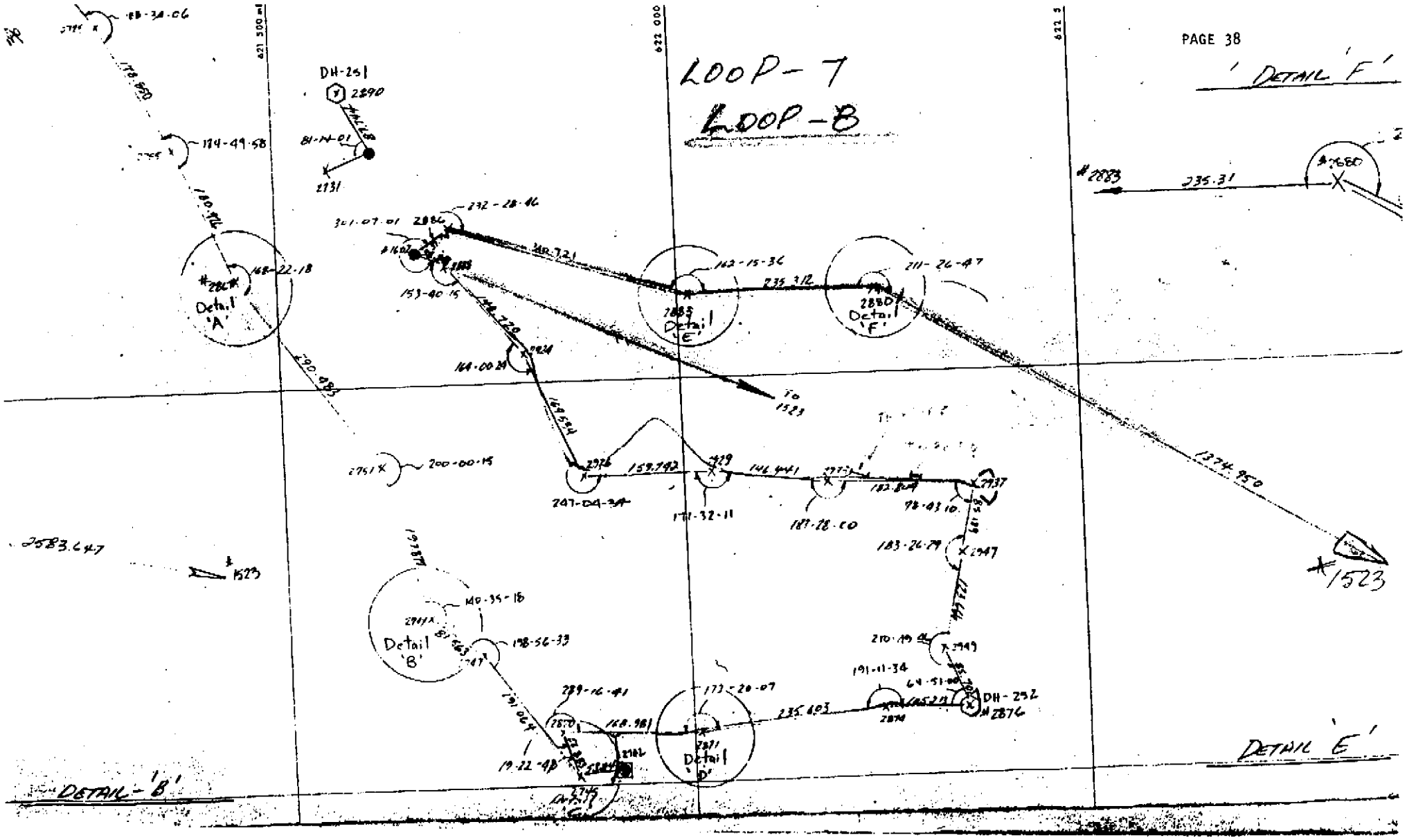
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2745	20cm Spike			853.10	853.2	6,052,011.53	621,855.53	6
		129-47-03	5.855					
	Tag 2746 in 20cm Poplar			854.99	853.5	6,052,007.78	621,860.03	6
		333-25-33	33.13					
	Tag 2869 (DH-248)			852.22	852.2	6,052,041.16	621,840.70	6
2870	20cm Spike			856.36	856.5	6,052,065.85	621,838.66	6
		73-08-09	6.444					
	Tag 2879 in 30cm Fir			857.34	856.14	6,052,067.72	621,844.83	6
2871	20cm Spike			864.27	864.4	6,052,059.86	622,007.54	6
		105-26-34	3.234					
	Tag 2872 in 30cm Spruce			866.14	864.63	6,052,058.99	622,010.65	6
	Tag 2873 (DH-250)			868.74	867.8	6,052,083.16	622,070.54	6
2874	20cm Spike			878.34	878.5	6,052,082.98	622,242.00	6
		149-54-23	1.508					
	Tag 2875 in 25cm Fir			879.85	878.4	6,052,081.68	622,242.76	6
		95-33-33	105.486					
	Tag 2876 (DH-252)			886.99	887.0	6,052,072.79	622,346.72	6
2876	Nail & Tag in Hub (DH-252)			886.99	887.0	6,052,072.79	622,346.72	6
		270-18-25	21.819					
	Tag 2877 in 40cm Spruce			885.60	884.7	6,052,072.90	622,324.90	6
		154-32-50	19.508					
	Tag 2878 in 20cm Fir			888.36	887.1	6,052,055.17	622,355.10	6
2947	20cm Spike			898.13	898.2	6,052,274.82	622,342.09	6
		26-03-42	4.151					
	Tag 2948 in 70cm Dead Spruce			899.89		6,052,278.55	622,343.91	6

83 SW

TRAVERSE #7 - REFERENCE STATION

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2937	20cm Spike			899.53	899.6	6,052,357.15	622,363.66	6
		92-47-23	32.237					
	Tag 2939 in 40cm Pine			901.14	899.9	6,052,355.58	622,395.86	6
		171-54-48	27.329					
	Tag 2938 in 20cm Balsam Fir			900.87	899.4	6,052,330.09	622,367.50	6
2933	20cm Spike			894.40	894.5	6,052,367.99	622,181.13	6
		286-16-07	63.322					
	Tag 2935 in 30cm Pine			889.53	888.13	6,052,385.74	622,120.34	6
		263-10-40	36.428					
	Tag 2934 in 80cm Spruce			890.40	889.30	6,052,363.67	622,144.96	6
		93-24-07	3.002					
	Tag 2936 in 50cm Pine			895.83	894.2	6,052,367.82	622,194.13	6
2929	20cm Spike			883.12	883.2	6,052,385.51	622,035.74	6
		27-05-06	9.935					
	Tag 2932 in 25cm Poplar			884.84	883.6	6,052,394.35	622,040.26	6
2926	20cm Spike			857.10	857.1	6,052,381.06	621.876.06	6
		231-07-19	25.268					
	Tag 2928 in 40cm Spruce			857.101	855.8	6,052,365.20	621,856.39	6
		349-31-29	13.913					
	Tag 2927 in 15cm Spruce			858.69	857.2	6,052,394.74	621,873.53	6
2924	20cm Spike			863.90	864.0	6,052,535.30	621,805.70	6
		294-18-46	3.943					
	Tag 2925			864.96	863.5	6,052,536.93	621,802.10	6
2888	20cm Spike			861.59	861.7	6,052,648.36	621,709.08	6
		266-09-42	5.389					
	Tag 2923 in 10cm Spruce			862.54	860.9	6,052,648.00	621,703.70	6

MS 83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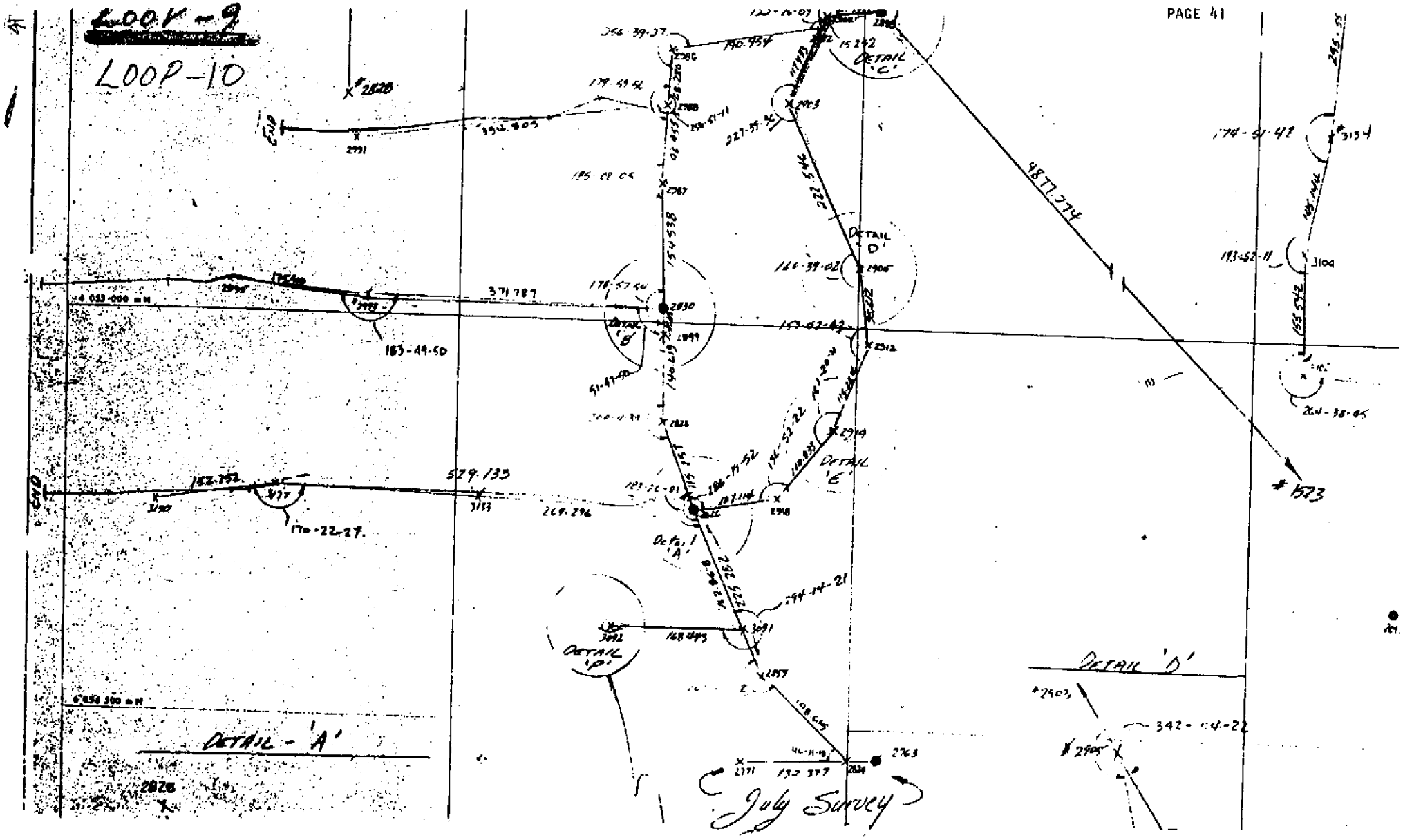
TRAVERSE #8 (SURVEY STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1523	75cm Iron Pin & Target							B3SE 10
		293-09-33						
1602	75cm Iron Pin & Target			858.705	858.7	6,052,663.399	621,673.913	6
		54-16-34	51.344					
2886	20cm Spike			870.228	870.3	6,052,693.377	621,715.597	6
		106-45-20	310.721					
2883	20cm Spike			889.947	890.0	6,052,603.788	622,013.123	6
		89-00-56	235.312					
2880	20cm Spike			902.994	903.0	6,052,607.831	622,248.400	6
		120-27-43	1374.950					
1523	75cm Iron Pin & Target			1216.589	1216.15	6,051,910.710	623,433.520	B3SE 10
		300-07-21						
1640	75cm Iron Pin & Target							B3NW 5

TRAVERSE #8 (REFERENCE STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1602	75cm Iron Pin & Target			858.71	858.7	6,052,663.40	621,673.91	6
		340-59-30	36.24					
	Tag 1603 in 15cm Willow			861.95	860.5	6,052,697.67	621,662.11	
		03-13-29	28.975					
	Tag 1604 (TW81-R-105)			860.33	860.3	6,052,692.25	621,675.84	6
2886	20cm Spike			870.23	870.3	6,052,693.38	621,715.60	6
		356-36-41	1.63					
	Tag 2887 in 25cm Willow			871.78	870.4	6,052,695.00	621,715.50	
2883	20cm Spike			889.95	890.0	6,052,603.79	622,013.12	6
		152-40-33	24.92					
	Tag 2885 in 40cm Willow			891.13	890.1	6,052,581.65	622,024.56	
		349-27-54	19.662					
	Tag 3189 (DH-256)			891.29	890.3	6,052,584.50	622,016.71	
		216-31-58	19.53					
	Tag 2884 in 30cm Spruce			891.23	890.0	6,052,588.10	622,001.50	
2880	20cm Spike			902.99	903.0	6,052,607.83	622,248.40	6
		22-52-34	4.83					
	Tag 2882 in 40cm Fir			904.25		6,052,612.28	622,250.28	
		282-38-56	4.51					
	Tag 2881 in 60cm Fir			904.45		6,052,608.82	622,244.00	
		118-57-57	32.055					
	Tag 2889 (DH-253)			903.34	903.3	6,052,592.31	622,276.44	

B3 JW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LOOP-10
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DETAIL 'B'
DETAIL 'C'
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DETAIL 'E'
DETAIL 'F'
DETAIL 'D'
4877.274
371.787
529.135
July Survey

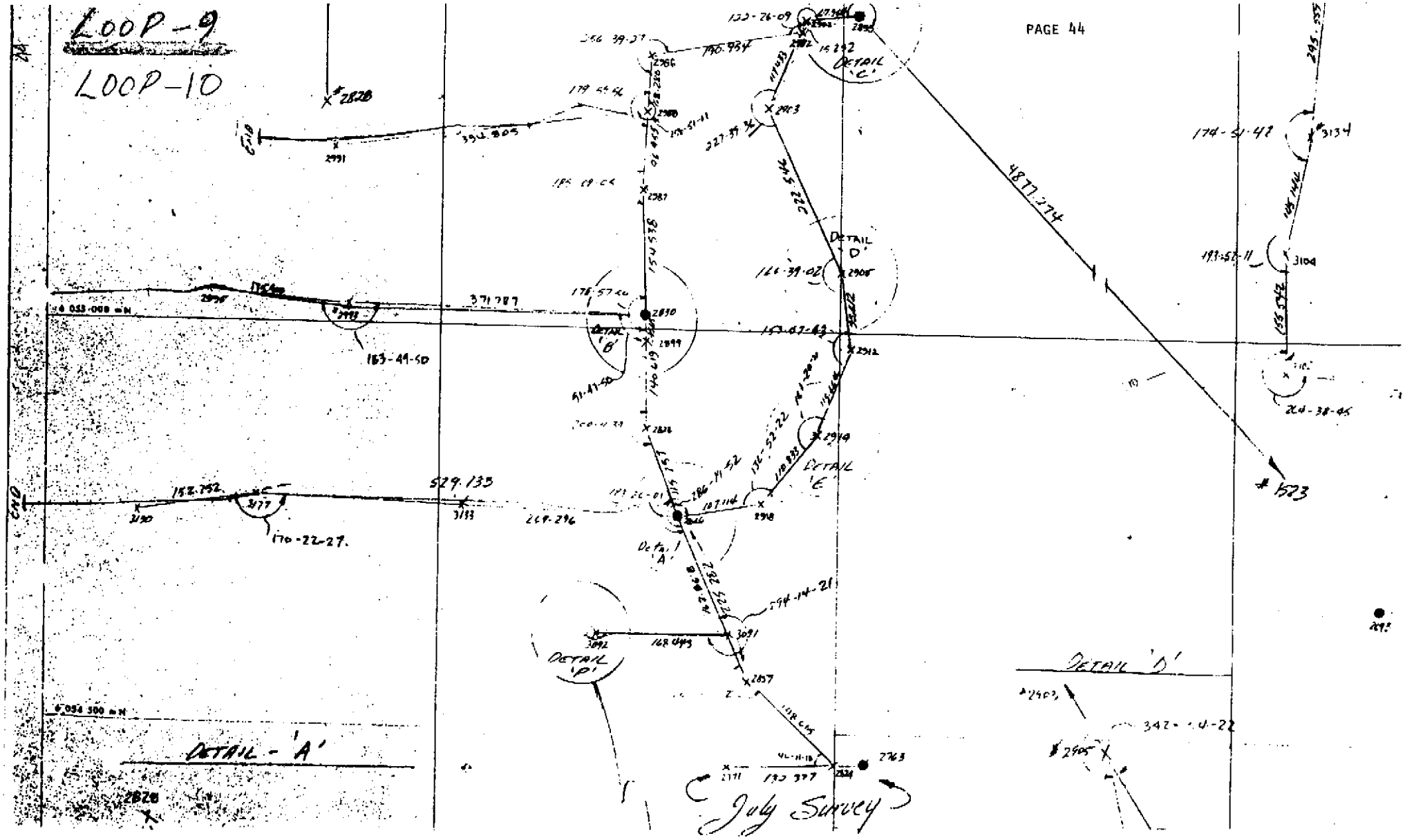
TRAVERSE #9 (SURVEY STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2857	20cm Spike			735.294	735.4			5
		335-31-48						
2826	75cm Iron Pin			733.479	733.5	6,054,769.898	619,798.168	5
		81-51-40	107.114					
2918	20cm Spike			731.852	732.0	6,054,785.062	619,904.203	5
		38-44-02	110.833					
2914	20cm Spike			732.944	733.0	6,054,871.519	619,973.552	5
		20-04-41	115.664					
2912	20cm Spike			729.364	729.5	6,054,980.155	620,013.260	5
		354-02-24	95.612					
2905	20cm Spike			725.019	725.1	6,055,075.250	620,003.333	5
		334-41-26	222.546					
2903	20cm Spike			717.581	717.7	6,055,276.440	619,908.202	5
		22-21-02	117.433					
2902	20cm Spike			715.536	715.6	6,055,385.051	619,952.859	5
		82-00-31						
2895	75cm Iron Pin			712.060	712.0			

TRAVERSE #9 REFERENCE POINTS

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2918	20cm Spike	74-13-25	8.695	731.85	732.0	6,054,785.06	619,904.20	5
	Tag 2919 in 20cm Pine			733.41	731.8	6,054,787.43	619,912.57	
2914	20cm Spike	189-10-32	16.158	732.94	733.0	6,054,871.52	619,973.55	5
	Tag 2916 in 20cm Spruce	135-02-12	18.84	733.92	732.42	6,054,855.57	619,970.98	
	Tag 2917 (DH-237)			731.22	730.2	6,054,858.19	619.986.87	
2912	20cm Spike	111-19-03	11.702	729.36	729.5	6,054,980.15	620,013.26	5
	Tag 2913 in 25cm Poplar			730.60	728.7	6,054,975.90	620,024.16	
2905	20cm Spike	354-34-15	9.424	725.02	725.1	6,055,075.250	620,003.33	5
	Tag 2908 in 20cm Fir	156-56-48	43.073	726.23	724.93	6,055,084.63	620,002.44	
	Tag 2906 (DH 239)			726.65	725.6	6,055,035.62	620,020.20	
2903	20cm Spike	343-18-00	8.695	717.58	717.7	6,055,276.44	619,908.20	5
	Tag 2904 in 15cm Spruce			719.94		6,055,284.77	619,905.70	
2902	20cm Spike	287-31-48	3.884	715.53	715.6	6,055,385.05	619,952.86	5
	Tag 2901 in 5cm Spruce			716.44	715.2	6,055,386.22	619,949.16	
2895	75cm Iron Pin	343-23-03	16.17					
	Tag 2896 in 80cm Cottonwood	13-00-50	59.71	714.30	712.5	6,055,409.99	620,015.54	5
	Tag 2898 (DH-240)			712.03	711.20	6,055,452.68	620,033.61	5
	"RAYED POINT FROM #2895"							
2898	Nail in Hub (DH-240)	293-03-06	23.119					
	Tag 2920 in 100cm Cottonwood	212-00-51	17.23	711.84	710.34	6,055,461.73	620,012.34	5
	Tag 2921 in 70cm Cottonwood			712.67	711.7	6,055,438.07	620,024.47	5

83 NW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LOOP-10
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DETAIL 'B'
DETAIL 'C'
DETAIL 'D'
DETAIL 'E'
DETAIL 'F'
DETAIL 'D'
July Survey
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371.787
529.135
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170-22-27
174-51-42
193-52-11
264-38-45
342-14-22
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2895.595

TRAVERSE #10 (SURVEY STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2763	75cm Iron Pin							5
		267-53-32						
2771	20cm Spike			747.058	747.1	6,054,456.595	619,865.959	5
		87-53-29	132.377					
2824	20cm Spike			733.066	733.1	6,054,461.465	619,998.246	5
		314-04-47	148.615					
2857	20cm Spike			735.294	735.4	6,054,564.850	619,891.484	5
		335-31-49	225.282					
2826	75cm Iron Pin			733.479	733.5	6,054,769.898	619,798.168	5
		338-57-50	115.257					
2828	20cm Spike			737.905	738.0	6,054,877.473	619,756.795	5
		359-09-29	140.619					
2830	75cm Iron Pin			732.955	732.90	6,055,018.078	619,754.729	5
		358-07-23	154.538					
2987	20cm Spike			723.229	723.3	6,055,172.534	619,749.667	5
		03-15-28	96.955					
2988	20cm Spike			717.896	718.0	6,055,269.333	619,755.177	5
		03-15-24	68.280					
2986	20cm Spike			716.360	716.5	6,055,337.503	619,759.056	5
		79-54-51	190.954					
2982	20cm Spike			714.153	714.3	6,055,370.945	619,947.059	5
		22-21-00	15.252					
2902	20cm Spike			715.536	715.6	6,055,385.051	619,952.859	5
		82-00-32	67.964					
2895	75cm Iron Pin			712.060	712.0	6,055,394.500	620,020.163	5
		135-35-05	4877.274					
1523	75cm Iron Pin & Target			1216.589	1216.15			33SE 10
		300-07-21						

33NW

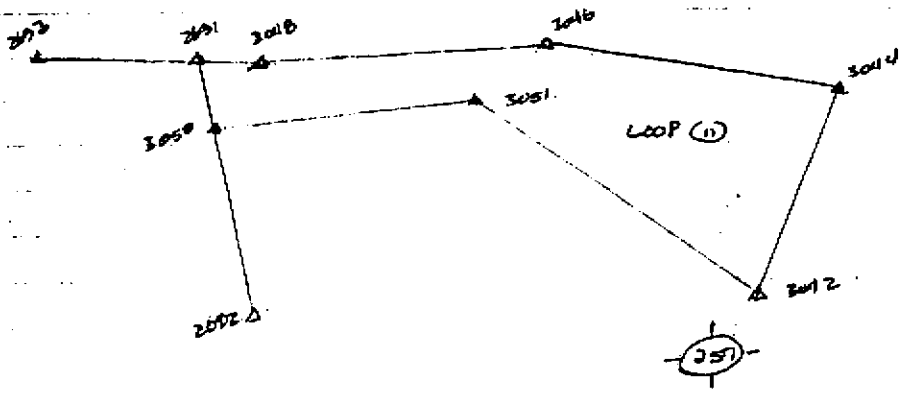
45

TRAVERSE #10 (REFERENCE STATION)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2857	20cm Spike	224-31-48	4.741	735.29	735.4	6,054,564.85	619,891.48	5
	Tag 2825 in 90cm Spruce			736.77	735.4	6,054,561.47	619,888.16	5
2826	75cm Iron Pin	328-46-36	13.794	733.48	733.5	6,054,769.89	619,798.17	5
	Tag 2827 in 15cm Spruce	73-45-38	24.24	734.55	733.0	6,054,781.69	619,791.02	5
	Tag 2922 (DH-236)			733.79	733.1	6,054,776.68	619,821.44	
2828	20cm Spike	298-44-50	2.567	737.91	738.0	6,054,877.47	619,756.80	5
	Tag 2829 in 10cm Spruce			739.05	737.8	6,054,878.71	619,754.54	5
2830	75cm Iron Pin	198-19-34	16.850	732.96	732.9	6,055,018.08	619,754.73	5
	Tag 2831 in 50cm Spruce			735.42	734.1	6,055,002.08	619,749.43	5
2987	20cm Spike	129-00-17	4.785	723.23	723.3	6,055,172.53	619,749.67	5
	Tag 2990 in 30cm Spruce			725.08	723.9	6,055,169.52	619,753.39	5
2988	20cm Spike	286-38-30	7.56	717.89	718.0	6,055,269.33	619,755.18	5
	Tag 2989 in 40cm Spruce			718.99	717.6	6,055,271.50	619,747.93	5
2986	20cm Spike	288-45-49	12.23	716.36	716.5	6,055,337.50	619,759.06	5
	Tag 2985 in 30cm Spruce			718.01	716.6	6,055,341.44	619,747.47	5
2982	20cm Spike	285-35-35	12.25	714.15	714.3	6,055,370.95	619,947.06	5
	Tag 2983 in 30cm Fir			715.77	714.8	6,055,374.24	619,935.27	5
2902	20cm Spike	287-31-48	3.88	715.54	715.6	6,055,385.05	619,952.86	5
	Tag 2901 in 5cm Spruce			716.44	715.2	6,055,386.22	619,949.16	5
	POINT ON LINE BETWEEN 2830 & 2828							
2899	20cm Spike	359-09-29	104.96	734.19	734.2	6,054,982.43	619,755.25	5
	Tag 2900 (DH-242)	21-53-58	36.73	733.58	732.5	6,055,016.50	619,768.95	5

23NW

LOOP - 11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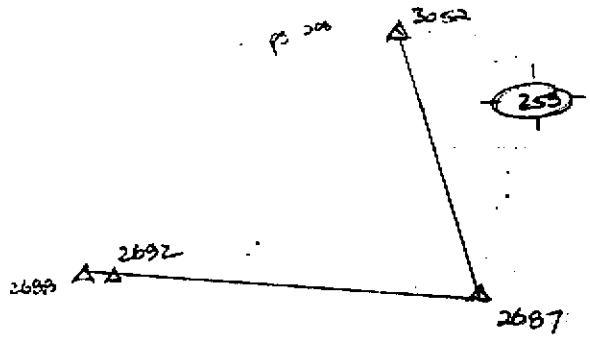
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TRAVERSE #11 SURVEY STATIONS

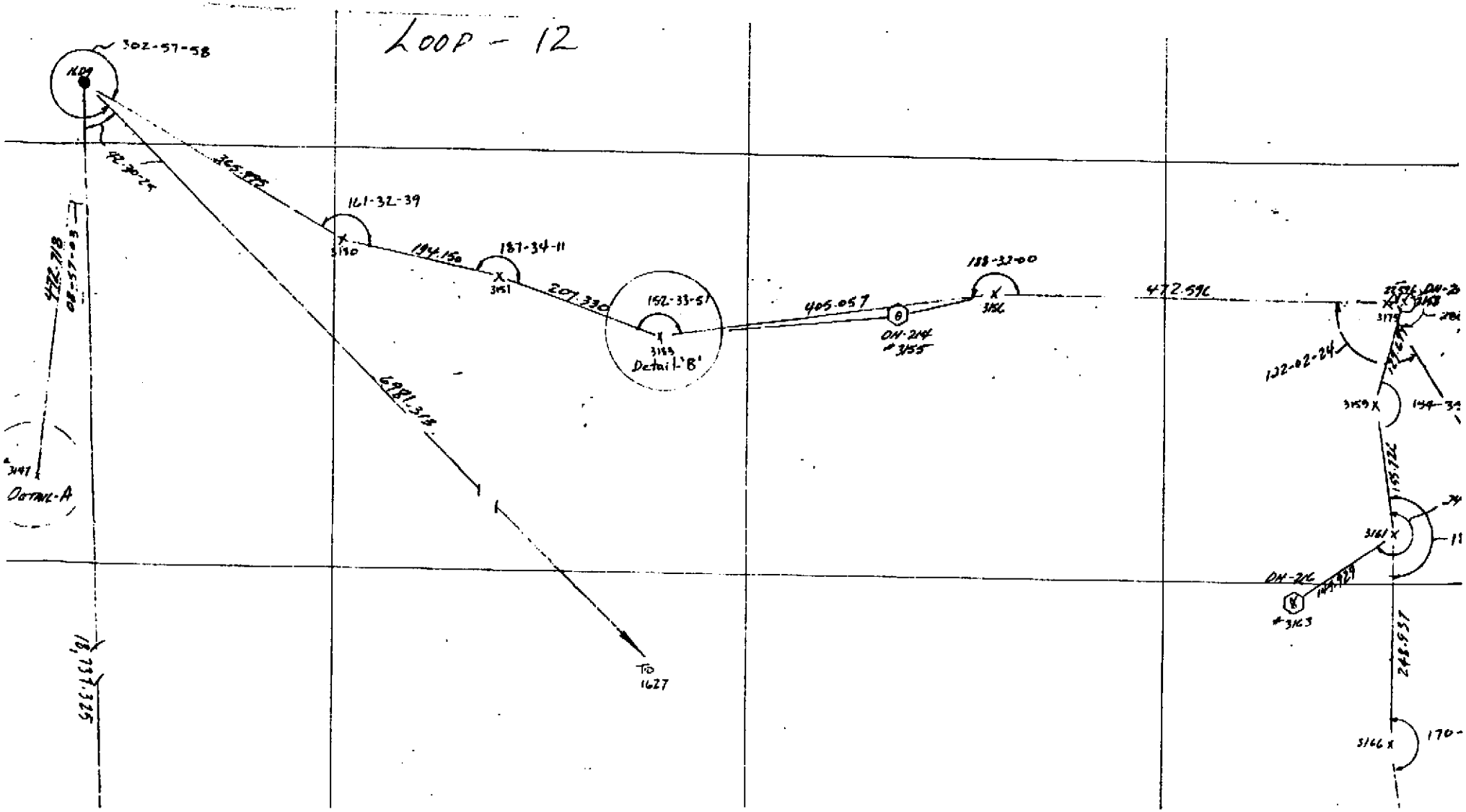
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2693	75cm Iron Pin			717.68	717.7	6,054,667.245	620,686.326	5
		89-30-45						
2691	20cm Spike			717.074	717.1	6,054,668.242	620,803.500	5
		89-30-33	37.668					
3048	20cm Spike			717.367	717.4	6,054,668.564	620,841.167	5
		63-41-30	252.038					
3046	20cm Spike			721.042	721.1	6,054,780.279	621,067.095	5
		91-42-14	54.793					
3044	20cm Spike			722.822	722.9	6,054,778.649	621,121.865	5
		172-31-52	126.400					
3042	75cm Iron Pin			728.618	728.7	6,054,653.321	621,138.297	5
		325-19-21	145.851					
3051	20cm Spike			721.044	721.1	6,054,773.269	621,055.320	5
		243-46-00	271.925					
3050	Nail & Tag			717.224	717.3	6,054,653.082	620,811.398	5
		332-28-38	17.093					
2691	20cm Spike			717.074	717.1	6,054,668.242	620,803.500	5
		152-28-27						

83 MW

TRAVERSE #11 REFERENCE STATIONS

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3048	20cm Spike			717.37	717.4	6,054,668.56	620,841.17	5
		157-52-33	11.61					
	Tag 3049 in 5cm Pine			719.18	717.6	6,054,657.49	620,807.87	
3046	20cm Spike			721.04	721.1	6,054,780.28	621,067.10	5
		195-48-30	1.57					
	Tag 3047 in 40cm Poplar			722.70	721.4	6,054,778.77	621,066.67	
3044	20cm Spike			722.82	722.9	6,054,778.65	621,121.87	5
		30-47-25	4.01					
	Tag 3045 in 20cm Poplar			724.21	722.9	6,054,782.09	621,123.92	
3042	75cm Iron Pin			728.62	728.7	6,054,653.32	621,138.30	5
		166-47-05	13.67					
	Tag 3043 (DH 257)			730.15	728.55	6,054,640.01	621,141.42	5
		80-15-30	23.39					
	Tag 3083 in 50cm Poplar			729.88	728.4	6,054,657.28	621,161.35	5
		171-28-00	38.61					
	Tag 3084 in 100cm Willow			730.45	729.1	6,054,615.14	621,144.03	5

83N/W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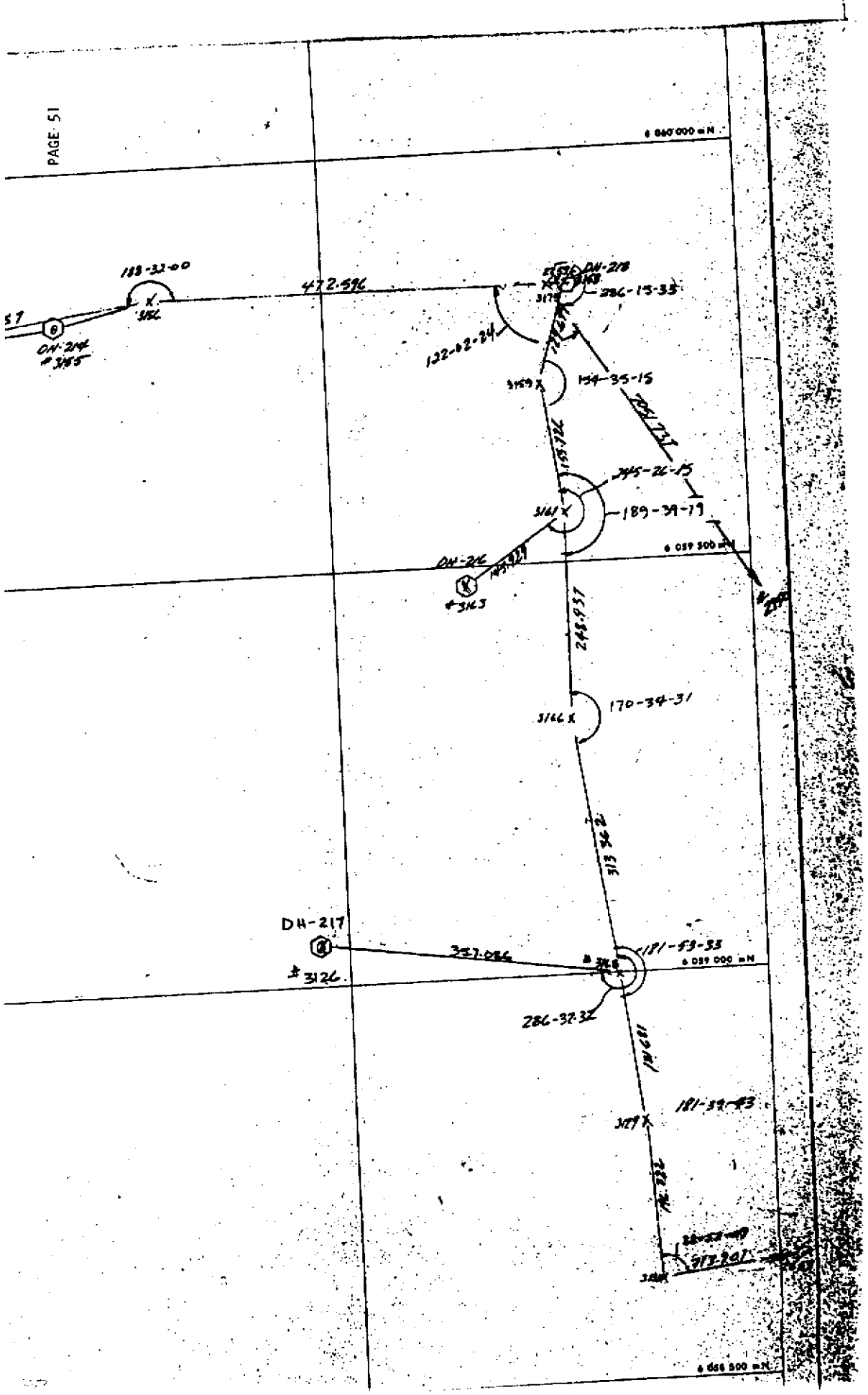
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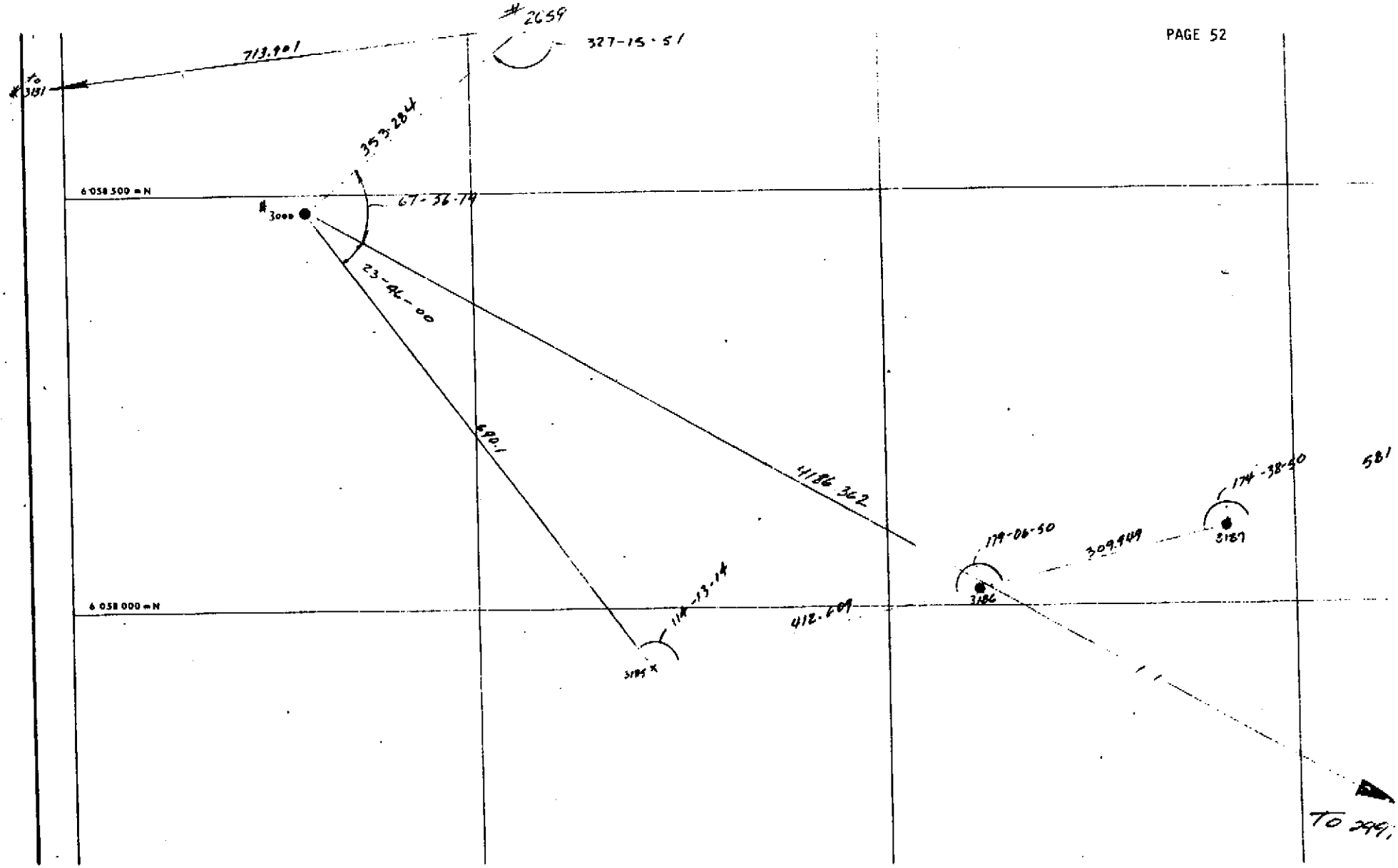
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TO 299,

TRAVERSE #12 (SURVEY STATIONS)

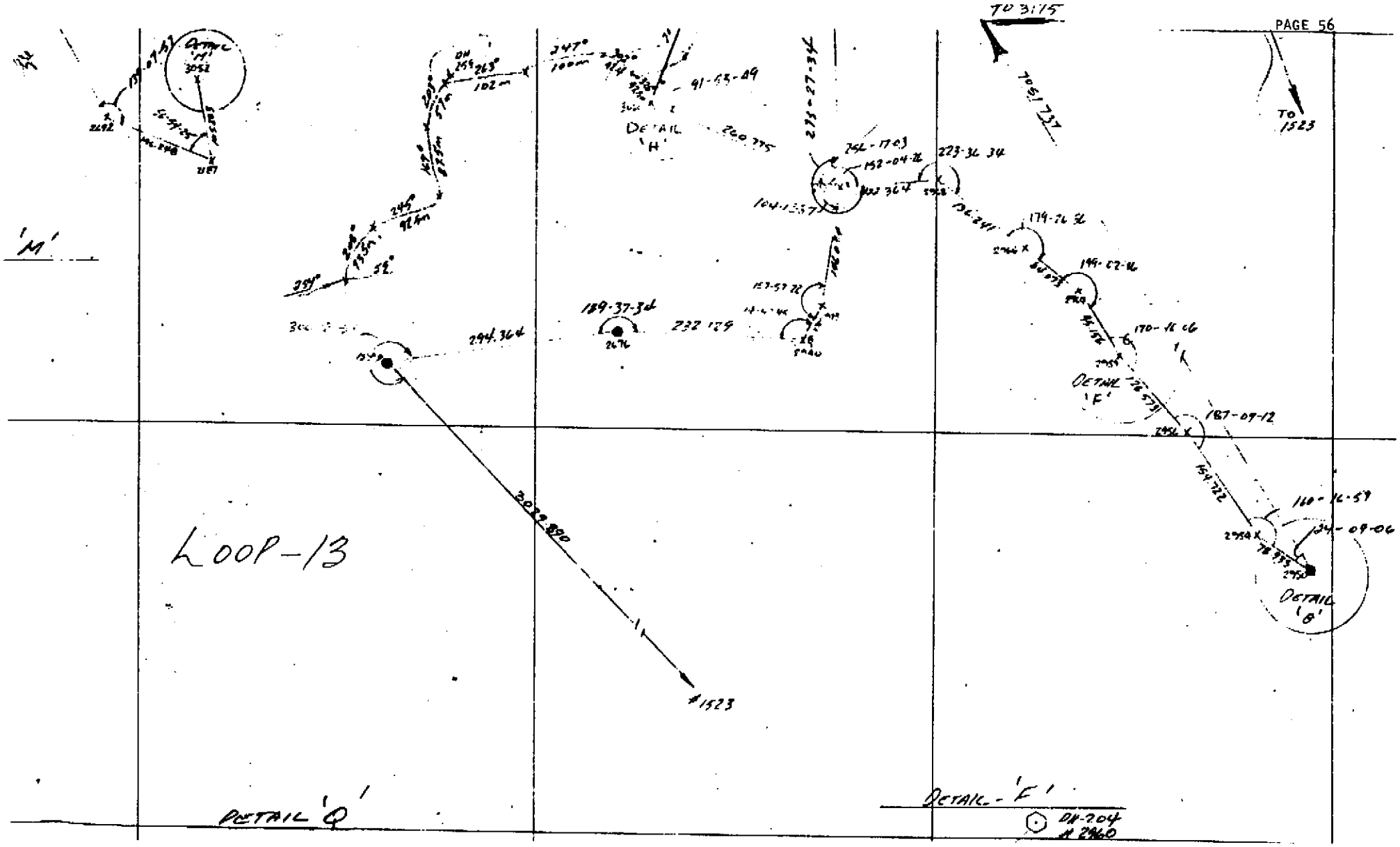
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1523	75cm Iron Pin & Target			1216.589	1216.15	6,051,910.710	623,433.521	BSE 10
		338-35-36	3494.400					
1627	20cm Spike			695.410	695.60	6,055,164.044	622,158.27	BSAW 5
		314-40-19	6981.318					
1609	75cm Iron Pin			973.214	973.2	6,060,072.236	617,193.404	1
		120-08-42	365.995					
3150	20cm Spike			934.022	934.1	6,059,888.437	617,509.902	1
		101-41-21	194.150					
3151	20cm Spike			917.759	917.9	6,059,849.102	617,700.026	1
		109-15-32	207.330					
3153	20cm Spike			893.844	893.9	6,059,780.716	617,895.754	1
		81-49-03	405.057					
3156	20cm Spike			856.775	856.9	6,059,838.367	618,296.687	1
		90-21-03	472.596					
3175	20cm Spike			802.354	802.4	6,059,835.473	618,769.275	1
		90-21-01	22.596					
3158	Nail in Hub (DH-218)			799.617	799.60	6,059,835.335	618,791.872	1
		196-36-34	129.699					
3159	20cm Spike			793.984	794.0	6,059,711.047	618,754.798	1
		171-11-49	155.726					
3161	20cm Spike			780.928	781.0	6,059,557.156	618,778.630	1
		180-51-08	248.937					
3166	20cm Spike			761.692	761.8	6,059,308.245	618,774.927	1
		171-25-39	313.362					
3168	20cm Spike			731.857	732.0	6,058,998.383	618,821.637	1
		173-19-12	181.681					
3129	20cm Spike			728.731	728.8	6,058,817.935	618,842.771	1
		174-58-55	196.822					
3131	20cm Spike			718.215	718.3	6,058,621.868	618,859.987	1
		83-51-04	713.901					
2659	75cm Iron Pin			657.921	657.9	6,058,698.336	619,569.781	4
		231-06-55	353.284					
3000	75cm Iron Pin			661.467	661.4	6,058,476.560	619,294.780	4
		119-03-14	4186.362					
2997	20cm Spike			689.717	689.8	6,056,443.531	622,954.346	5
		353-57-57	12.116					
2589	75cm Iron Pin & Target			689.499	689.50	6,056,455.58	622,953.072	5
		173-57-56	4570.194					
1523	75cm Iron Pin & Target			1216.589	1216.15	6,051,910.710	623,433.521	BSE 10

TRAVERSE #12 (REFERENCE STATION)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3151	20cm Spike			917.75	917.9	6,059,849.10	617,700.03	1
		47-45-05	12.024					
	Tag 3152 in 30cm Pine			919.39	918.3	6,059,857.19	617,708.93	
3153	20cm Spike			893.84	893.9	6,059,780.72	617,895.75	1
		53-53-05	52.142					
	Tag 3154 in 15cm Poplar			893.19	891.7	6,059,811.45	617,937.88	
		84-53-19	285.107					
	Tag 3155 (DH-214)			866.34	866.5	6,059,806.12	618,179.73	
3156	20cm Spike			856.78	856.9	6,059,838.37	618,296.69	1
		254-35-08	121.356					
	Tag 3155 (DH-214)			866.34	866.5	6,059,806.12	618,179.73	
		176-24-38	15.504					
	Tag 3157			857.25		6,059,822.89	618,297.66	
3158	Nail in Hub			799.62	799.7	6,059,835.33	618,791.87	1
		257-35-28	18.911					
	Tag 2650 (OIP)			801.48	801.5	6,059,831.27	618,773.40	
3159	20cm Spike			793.98	794.0	6,059,711.05	618,754.80	1
		272-08-44	7.899					
	Tag 3160 in 40cm Stump			795.02	794.6	6,059,711.34	618,746.90	
3161	20cm Spike			780.93	781.0	6,059,557.16	618,778.63	1
		11-07-19	23.926					
	Tag 3162 (corner of shack)	236-38-04	145.87	783.16		6,059,580.63	618,783.25	
	Tag 3163 (Nail In Hub)			786.19	786.3	6,059,476.90	618,656.75	
3166	20cm Spike			761.69	761.8	6,059,308.25	618,774.93	1
		40-53-07	23.699					
	Tag 3167 in 25cm Willow			764.88	763.2	6,059,065.81	618,483.50	
3168	20cm Spike			731.86	732.0	6,058,998.38	618,821.64	1
		277-58-11	357.071					
	Tag 3126 (DH-217)			766.92	766.9	6,059,047.89	618,467.99	
		198-40-29	25.568					
	Tag 3169 in 40cm Birch			734.62	732.2	6,058,974.16	618,813.45	

A2 SB

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3129	20cm Spike			728.73	728.8	6,058,817.94	618,842.77	1
		338-03-51	4.561					
	Tag 3130 (in 3cm Willow)			729.99	729.3	6,058,822.17	618,841.07	1
3131	20cm Spike			718.22	718.3	6,058,621.87	618,859.99	1
		173-06-35	6.805					
	Tag 3132 in 10cm Poplar			719.38	717.9	6,058,615.11	618,860.80	1
2659	75cm Iron Pin			657.92	657.9	6,058,698.33	619,569.78	4
		207-04-54	21.287					
	Tag 2660 in 30cm Pine			659.99		6,058,679.38	619,560.09	4
		77-46-49	31.928					
	Tag 2661 in 20cm Spruce			659.49		6,058,705.09	619,600.99	4
2589	75cm Iron Pin & Target							
		220-47-50	11.936					
	Tag 2590 in fence post			690.52	688.65	6,056,446.54	622,945.27	5
		302-07-50	8.96					
	Tag 2591 in fence post			689.81	688.41	6,056,460.35	622,945.48	5
	Rayed Point From #1609							
3147	20cm Spike			905.10	905.1	6,059,602.22	617,142.93	1
		168-04-09	6-575					
	Tag 3148 in 10cm Spruce			906.41	904.8	6,059,595.79	617,144.29	1
		07-29-58	48.233					
	Tag 3149 (DH 213)			907.77	907.3	6,059,650.04	617,149.22	1
	Rayed Point From #3161							
3163	Nail in Hub DH 216			786.18	786.2	6,059,476.90	618,656.75	1
		21-21-21	21.914					
	Tag 3164 in 10cm Willow			789.06	787.4	6,059,497.31	618,664.73	1
		269-34-03	20.206					
	Tag 3165 in 15cm Willow					6,059,476.75	618,636.54	1
	Rayed Point From #3168							
3126	Nail in Hub DH 217			766.92	766.9	6,059,047.89	618,467.99	1
		40-53-07	23.69					
	Tag 3128 in 20cm Poplar			768.88	767.38	6,059,065.81	618,483.50	1
		305-21-15	28.005					
	Tag 3127 in 25cm Poplar			771.35	769.95	6,059,064.09	618,445.15	1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DETAIL 'F'
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DETAIL - 'F'
DH-204
#2960
#1523

TRAVERSE #13 (SURVEY STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1599	75cm Iron Pin & Target			772.92	772.92	6,054,074.401	621,312.515	5
		81-47-06	294.364					
2676	75cm Iron Pin			760.197	760.2	6,054,116.460	621,603.858	5
		91-24-40	232.129					
2940	20cm Spike			760.108	760.2	6,054,110.744	621,835.918	5
		30-07-25	50.370					
2973	20cm Spike			760.865	761.0	6,054,154.311	621,861.197	5
		08-04-47	146.034					
2971	20cm Spike			751.843	751.9	6,054,298.896	621,881.723	5
		84-21-50	122.364					
2968	20cm Spike			751.852	752.0	6,054,310.913	622,003.497	5
		127-58-24	136.241					
2966	20cm Spike			758.362	758.5	6,054,227.084	622,110.895	5
		127-25-00	84.073					
2964	20cm Spike			759.088	759.2	6,054,176.000	622,177.669	5
		146-27-16	95.156					
2959	20cm Spike			763.966	764.0	6,054,096.692	622,230.252	5
		136-43-22	126.573					
2956	20cm Spike			769.332	769.4	6,054,004.539	622,317.021	5
		143-52-34	154.722					
2954	20cm Spike			780.220	780.3	6,053,879.562	622,408.234	5
		124-09-33	78.993					
2950	75cm Iron Pin			786.165	786.2	6,053,835.207	622,473.600	5
		328-18-38	7051.610					
3175	20cm Spike			802.354	802.4	6,059,835.473	618,769.274	Base 1

BSNW

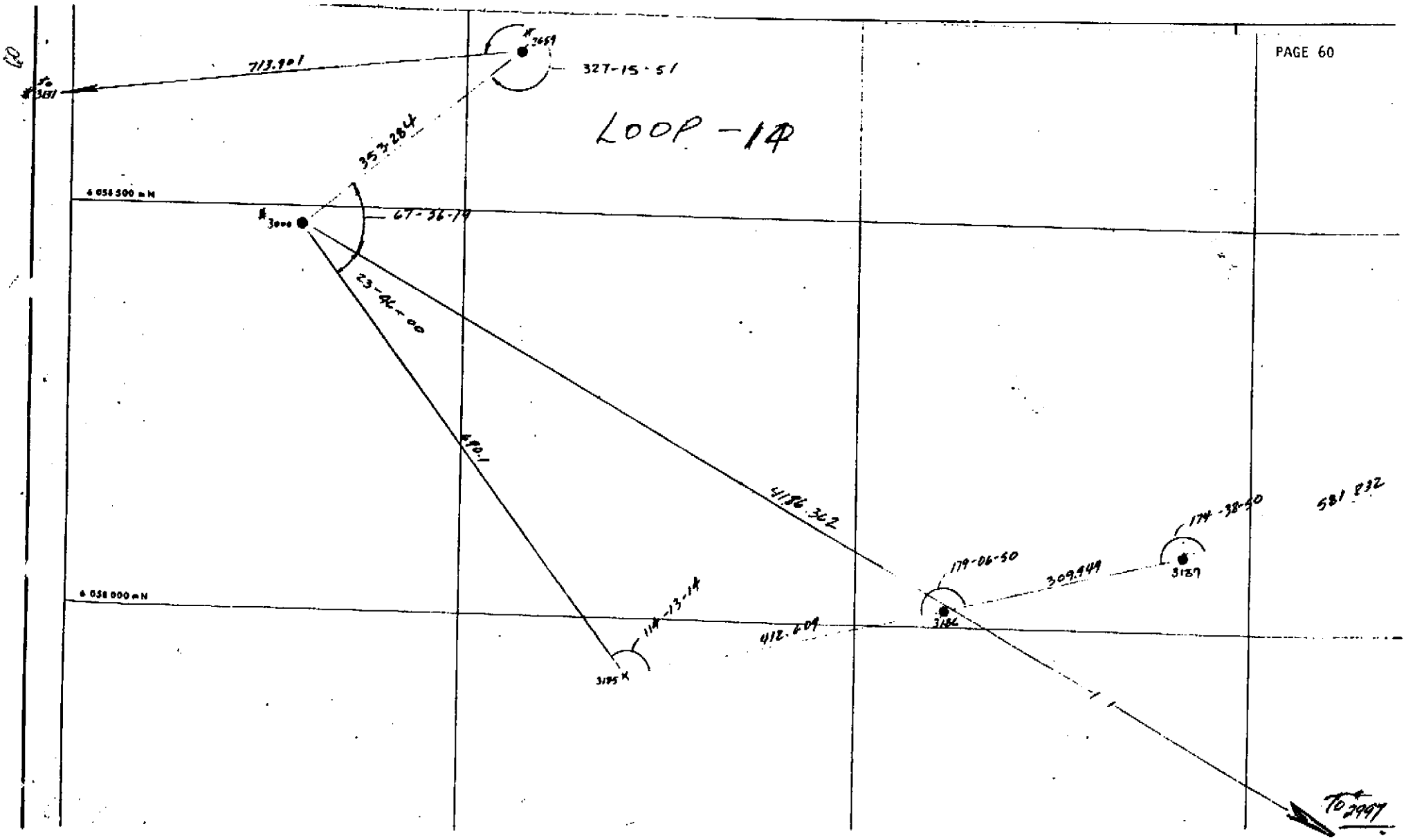
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1599	75cm Iron Pin & Target	88-03-17	72.21	772.899	772.9	6,054,074.40	621,312.51	5
	Tag 1600 in 60cm Cottonwood			767.13	765.5	6,054,076.85	621,384.69	
2676	75cm Iron Pin	128-20-33	16.41	760.21	760.2	6,054,116.46	621,603.86	5
	Tag 2677 (DH 219)	69-09-37	14.44	760.66	760.7	6,054,106.28	621,616.72	
	Tag 2678 in 8cm Alder			761.50	760.0	6,054,121.60	621,617.35	
2940	20cm Spike	321-11-49	19.03	760.108	760.2	6,054,110.74	621,835.92	5
	Tag 2941 in 40cm Birch	42-47-04	19.44	761.89	760.4	6,054,125.58	621,823.99	
	Tag 2942 in 15cm Fir			761.92	760.9	6,054,125.01	621,849.12	
2973	20cm Spike	122-39-13	3.73	760.87	761.0	6,054,154.31	621,861.20	5
	Tag 2974 in 50cm Spruce			762.49	761.1	6,054,152.30	621,864.34	
2971	20cm Spike	231-59-30	10.53	751.84	751.9	6,054,298.90	621,881.72	5
	Tag 2972 in 30cm Birch			754.62	752.9	6,054,292.41	621,873.43	
2968	20cm Spike	200-23-20	10.57	751.85	752.0	6,054,310.91	622,003.50	5
	Tag 2970 in 80cm Pine			754.61	753.1	6,054,301.01	621,999.82	
2966	20cm Spike	284-29-46	1.30	758.36	758.5	6,054,227.08	622,110.90	5
	Tag 2967 in 30cm Dead Birch			759.75	758.2	6,054,227.41	622,109.64	
2964	20cm Spike	129-09-32	1.54	759.09	759.2	6,054,176.00	622,177.67	5
	Tag 2965 in 30cm Spruce			760.57	759.3	6,054,175.03	622,178.86	

MVEB

TRAVERSE13 REFERENCE STATIONS

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2959	20cm Spike			763.97	764.0	6,054,096.69	622,230.25	5
		1-28-51	18.48					
	Tag 2962 in 30cm Willow			763.84	762.5	6,054,115.16	622,230.73	
		45-06-35	19.891					
	Tag 2960 (DH-204)			763.16	763.1	6,054,110.73	622,244.34	
		89-04-28	15.046					
	Tag 2961 in 20cm Spruce			765.15	763.9	6,054,096.94	622,245.30	5
2956	20cm Spike			769.33	769.4	6,054,004.54	622,317.02	5
		333-50-01	3.75					
	Tag 2958 in 20cm Spruce			770.83	769.3	6,054,007.90	622,315.37	
2954	20cm Spike			780.22	780.3	6,053,879.56	622,408.23	5
		328-11-30	9.65					
	Tag 2955 in 50cm Willow			781.46	780.0	6,053,887.76	622,403.15	
2950	75cm Iron Pin			786.17	786.2	6,053,835.21	622,473.60	5
		235-22-39	9.945					
	Tag 2951 in 5cm Alder			786.67	785.4	6,053,829.56	622,465.42	
		25-25-44	12.493					
	Tag 2952 in 30cm Poplar			786.15	784.9	6,053,846.49	622,478.96	
		323-12-34	9.421					
	Tag 2953 (DH 254)			784.94	784.9	6,053,842.75	622,467.96	

B3 Nw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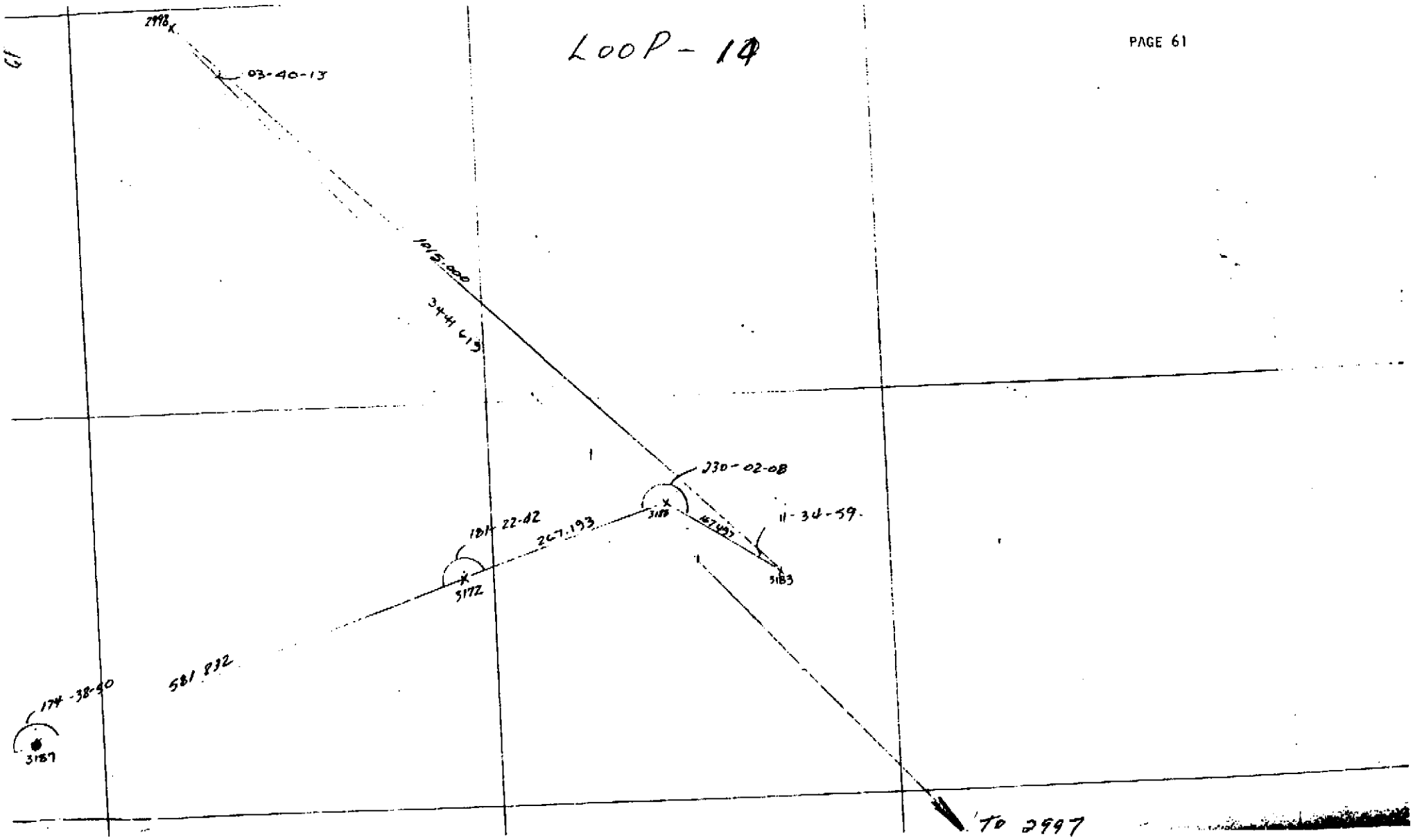
To 2997

LOOP - 14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174-38-40
3187
TO 2997

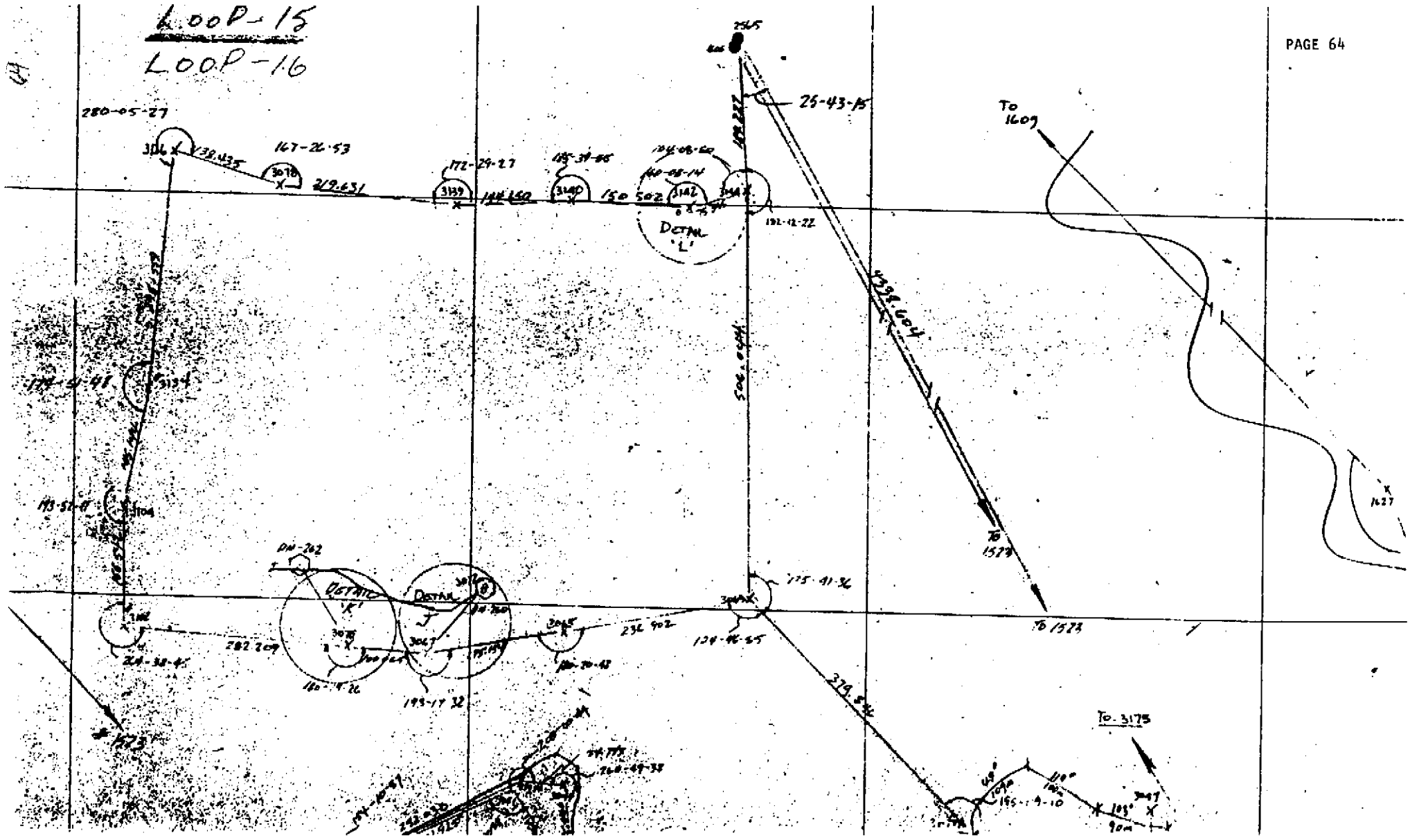
TRAVERSE #14 (SURVEY STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2997	20cm Spike			689.717	689.8	6,056,443.531	622,954.346	35NW 5
		299-03-14						
3000	75cm Iron Pin			661.467	661.4	6,058,476.560	619,294.780	4
		142-49-14	690.143					
3185	20cm Spike			568.401	568.4	6,057,926.692	619,711.845	4
		77-02-28	412.609					
3186	75cm Old Iron Pin			574.209	574.2	6,058,019.221	620,113.945	4
		76-09-18	309.949					
3187	75cm Old Iron Pin			575.339	575.3	6,058,093.391	620,414.889	4
		70-48-08	581.832					
3172	20cm Spike			580.094	580.2	6,058,284.717	620,964.365	4
		72-10-50	267.193					
3188	20cm Spike			580.831	580.9	6,058,366.484	621,218.739	4
		122-12-58	167.497					
3183	20cm Spike			583.536	583.6	6,058,277.189	621,360.450	4
		313-47-57	1015.000					
2998	20cm Spike			629.440	629.5	6,058,979.707	620,627.856	4
		137-28-10	3441.619					
2997	20cm Spike			689.717	689.8	6,056,443.531	622,954.346	35NW 5
		173-57-56						
1523	75cm Iron Pin & Target							

B2 SW

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3000	75cm Iron Pin			661.47	661.4	6,058,476.56	619,294.78	4
		6-05-04	4.29					
	Tag 3174 in 25cm Birch			662.86	661.6	6,058,480.82	619,295.23	4
3186	75cm Iron Pin			574.21	574.2	6,058,019.22	620,113.95	4
		97-36-28	10.12					
	Tag 3200 in 10cm Poplar			576.29	574.99	6,058,017.88	620,123.97	4
3187	75cm Iron Pin			575.34	575.3	6,058,093.39	620,414.89	4
		25-55-18	9.04					
	Tag 2583 (HV-21)			575.19	575.2	6,058,101.52	620,418.84	4
		94-47-18	17.65					
	Tag 2584 in 15cm Poplar			577.36	576.1	6,058,091.92	620,432.47	4
		215-08-18	13.972					
	Tag 2582 in 20cm Birch			577.46	576.1	6,058,082.05	620,406.90	4
3183	20cm Spike			583.54	583.6	6,058,277.19	621,360.45	4
		250-55-58	4.069					
	Tag 3184 in 10cm Pine			585.04	584.0	6,058,275.86	621,356.60	4
2998	20cm Spike			629.44	629.5	6,058,979.71	620,627.86	4
		36-25-34	9.109					
	Tag 2999 in 10cm Spruce			630.20	628.8	6,058,987.06	620,633.26	4
		235-19-40	11.894					
	Tag 2663 in 15cm Spruce			631.52	630.0	6,058,972.97	620,618.07	4
	Tag 2662 (HV-22) Iron Pin			629.46	629.46	6,058,982.84	620,621.43	4

B2SW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25-43-15
To 1609
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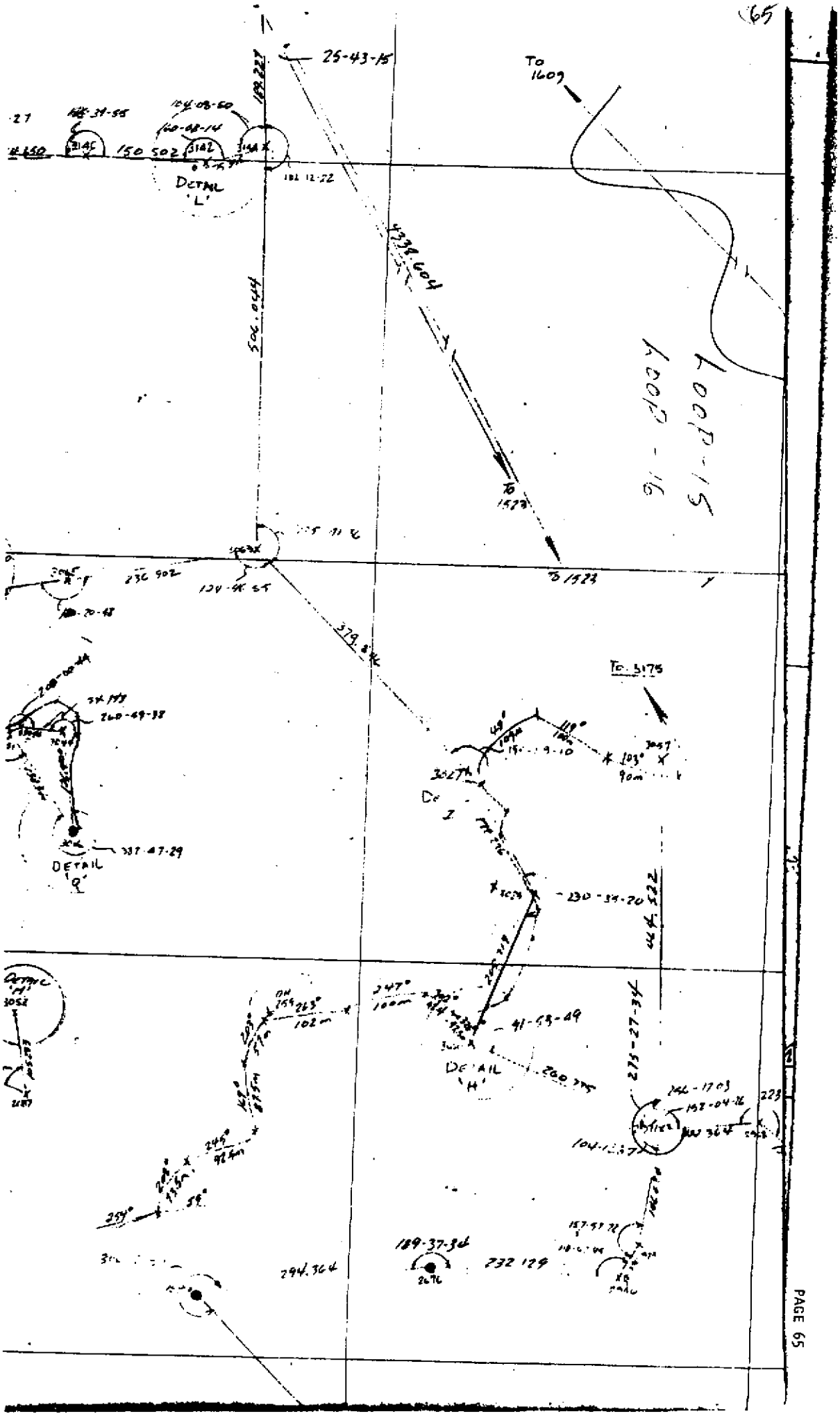
DETAIL 'K'
DETAIL
To 1573
To 3175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DETAIL 'Q'
DETAIL 'H'
230-34-20
41-53-49
273-27-34
189-37-36
232 129
294.364
LOOP-15
LOOP-16

TRAVERSE #15 (SURVEY STATIONS)

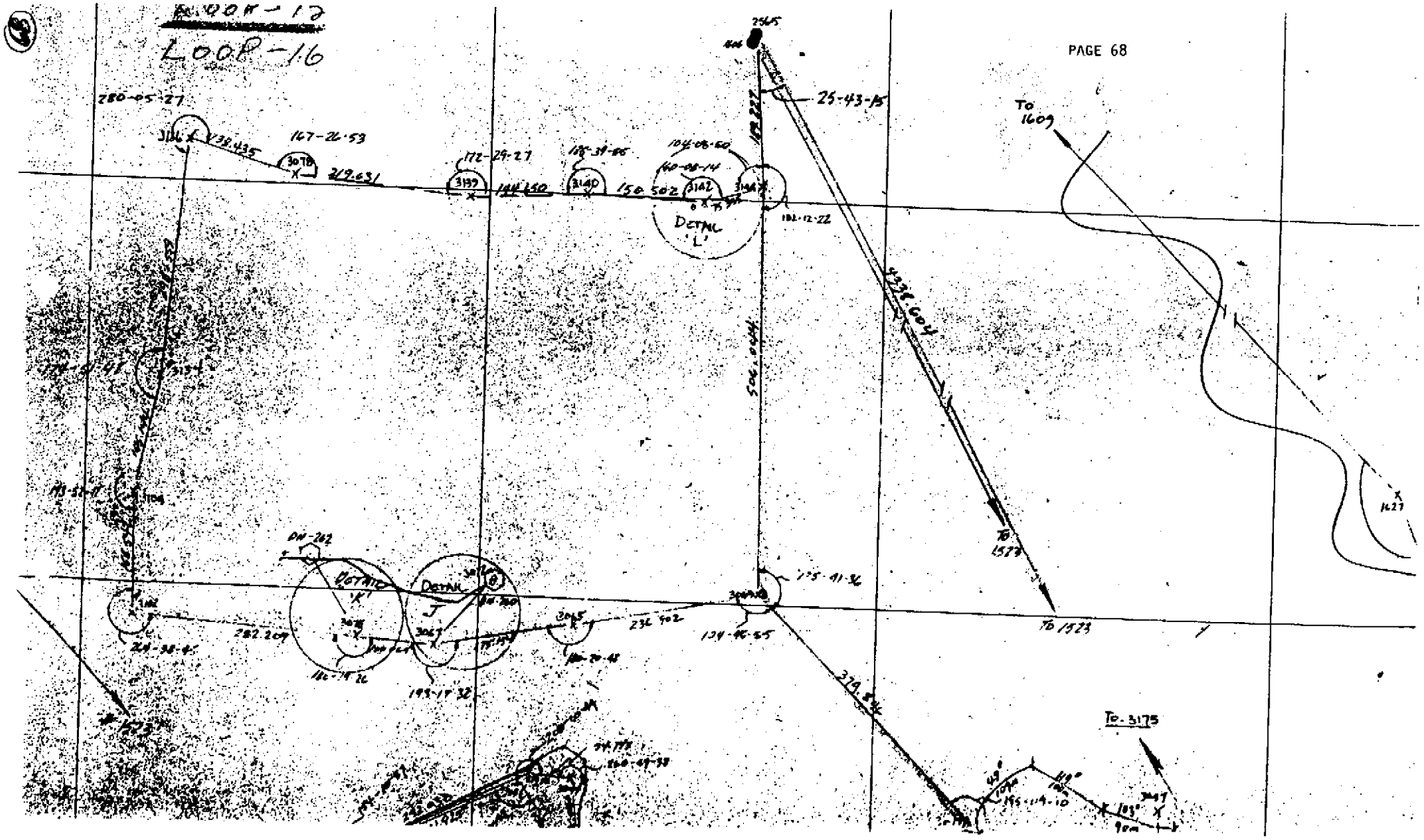
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1640								
		120-07-21						
1523	75cm Iron Pin & Target			1216.589	1216.15	6,051,910.710	623,433.521	BSSE 10
		331-01-53	4338.604					
2565	75cm Iron Pin & Target			676.724	676.7	6,055,706.543	621,332.298	5
		176-45-08	189.227					
3144	20cm Spike			688.917	689.0	6,055,517.620	621,343.019	5
		178-57-30	506.044					
3063	20cm Spike			712.179	712.3	6,055,011.659	621,352.219	5
		134-39-06	379.846					
3027	20cm Spike			722.395	722.5	6,054,744.712	621,622.447	5
		149-48-16	178.276					
3025	20cm Spike			729.437	729.5	6,054,590.628	621,712.115	5
		200-23-36	205.719					
3060	20cm Spike			743.930	744.0	6,054,397.802	621,640.432	5
		112-17-25	260.775					
2971	20cm Spike			751.843	751.9	6,054,298.896	621,881.723	5
		84-21-51						
2968	20cm Spike							5

BSNW

TRAVERSE 15 REFERENCE STATIONS

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2565	75cm Iron Pin & Target			676.72	676.7	6,055,706.54	621,332.30	5
		0-04-38	20.88					
	Tag 1608 in 60cm Cottonwood			678.85	677.40	6,055,727.43	621,332.54	
		199-48-38	11.61					
	Tag 1606 (Old Iron Pin)			677.46	677.4	6,055,695.62	621,328.37	
3144	20cm Spike			688.92	689.0	6,055,517.62	621,343.02	5
		280-15-37	22.35					
	Tag 3145 in 30cm Poplar			690.32	688.3	6,055,521.60	621,321.03	5
3063	20cm Spike			712.18	712.3	6,055,011.66	621,352.22	5
		222-44-05	6.69					
	Tag 3064 in power pole			713.61	712.3	6,055,006.75	621,347.68	5
3027	20cm Spike			722.40	722.5	6,054,744.71	621,622.45	5
		82-42-01	36.28					
	Tag 3029 in 40cm Birch			723.48	721.9	6,054,749.32	621,658.43	5
		58-04-51	45.29					
	Tag 3030 in 50cm Birch			722.34	721.1	6,054,768.66	621,660.89	5
3025	20cm Spike			729.44	729.5	6,054,590.63	621,712.12	5
		323-47-55	6.30					
	Tag 3026 in 60cm Birch			730.51	729.2	6,054,595.71	621,708.39	5
3060	20cm Spike			743.93	744.0	6,054,397.80	621,640.43	5
		181-44-20	29.94					
	Tag 3024 in 50cm Cottonwood			747.86	746.4	6,054,367.87	621,639.52	5
		78-45-35	15.971					
	Tag 3023 in 80cm Cottonwood			745.46	743.8	6,054,400.92	621,656.10	5
	"RAYED POINT FROM 2971"							
3057	20cm Spike			720.89	720.896	6,054,763.18	621,866.93	5
		187-53-10	36.173					
	Tag 3058 in 50cm Birch			724.179	722.5	6,054,727.35	621,861.97	5
		340-39-10	48.568					
	Tag 3059 in 40cm Birch			720.57	719.07	6,054,809.01	621,850.84	5

B34W


LOOP-16
280-05-27
167-26-53
229.631
172-29-27
DETAIL 'L'
25-43-15
To 1609
To 1579
To 1573
To 3175
DETAIL 'K'
DETAIL 'J'
282.209
236.902
1627

TRAVERSE #16 (SURVEY STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3144	20cm Spike							5
		178-57-30						
3063	20cm Spike			712.179	712.3	6,055,011.659	621,352.219	5
		259-26-01	236.902					
3065	20cm Spike			711.694	711.8	6,054,968.215	621,119.334	5
		259-46-49	175.134					
3067	20cm Spike			704.684	704.8	6,054,937.140	620,946.978	5
		273-04-11	100.065					
3075	20cm Spike			707.339	707.4	6,054,942.499	620,847.056	5
		273-23-37	282.209					
3102	20cm Spike			693.860	694.0	6,054,959.205	620,565.341	5
		358-02-22	155.542					
3104	20cm Spike			688.794	688.9	6,055,114.656	620,560.020	5
		11-54-33	145.144					
3134	20cm Spike			682.652	682.8	6,055,256.676	620,589.973	5
		06-46-21	295.559					
3136	20cm Spike			676.270	676.4	6,055,550.173	620,624.829	5
		106-51-48	138.435					
3078	20cm Spike			677.485	677.6	6,055,510.014	620,757.311	5
		94-18-41	219.631					
3139	20cm Spike			677.186	677.3	6,055,493.503	620,976.322	5
		86-48-08	144.650					
3140	20cm Spike			675.765	675.9	6,055,501.572	621,120.747	5
		92-28-03	150.502					
3142	20cm Spike			691.198	691.3	6,055,495.092	621,271.109	5
		72-36-17	75.355					
3144	20cm Spike			688.917	689.0	6,055,517.620	621,343.019	5
		356-44-50						
2565	20cm Spike							

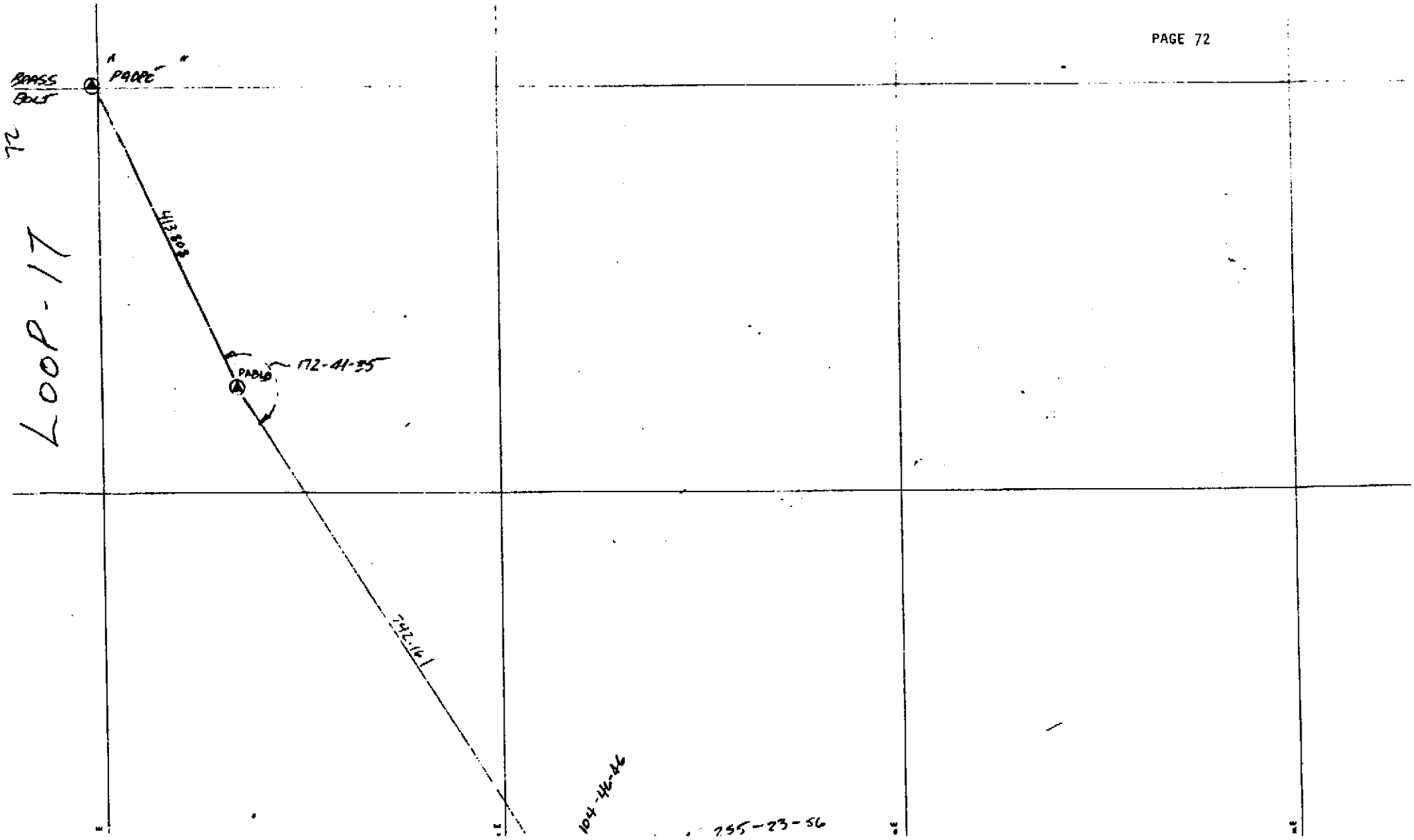
23NW

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3144	20cm Spike			688.92	689.0	6,055,517.62	621,343.02	5 ↑
		280-15-37	22.35					
	Tag 3145 in 30cm Poplar			690.32	688.3	6,055,521.60	621,321.03	
3063	20cm Spike			712.18	712.3	6,055,011.66	621,352.22	5
		222-44-05	6.69					
	Tag 3064 in power pole			713.61	712.3	6,055,006.75	621,347.68	
3065	20cm Spike			711.69	711.8	6,054,968.22	621,119.33	5
		135-54-55	6.42					
	Tag 3066 in 40cm Poplar			713.42	712.0	6,054,963.60	621,123.80	
3075	20cm Spike			707.34	707.4	6,054,942.50	620,847.06	5
		19-26-59	6.11					
	Tag 3076 in 30cm Poplar			708.44	707.5	6,054,948.26	620.849.09	
		326-17-20	122.61					
	Tag 3069 in 20cm Spike			690.59	690.6	6,055,044.50	620,779.01	
3102	20cm Spike			693.86	694.0	6,054,959.21	620,565.34	
		205-21-37	6.08					
	Tag 3103 in 20cm Poplar			695.94	694.4	6,054,953.70	620,562.73	
3104	20cm Spike			688.79	688.9	6,055,114.66	620,560.02	5
		255-00-31	2.05					
	Tag 3105 in 10cm Poplar			690.85		6,055,114.13	620,558.04	
3134	20cm Spike			682.65	682.8	6,055,256.68	620,589.97	
		158-46-46	4.79					
	Tag 3135 in 30cm Poplar			683.87	682.47	6,055,253.65	620,593.68	
3136	20cm Spike			676.27	676.4	6,055,550.17	620,624.83	5
		257-21-56	1.54					
	Tag 3137			677.88	676.7	6,055,549.84	620,623.32	
3078	20cm Spike	124-22-41	23.50	677.49	677.6	6,055,510.01	620,757.31	5
	Tag 3032 in 5cm Willow	200-39-19	20.61	679.42	678.1	6,055,496.74	620,776.71	
	Tag 3031 in 10cm Pine			679.96	678.5	6,055,490.73	620,750.04	
3139	20cm Spike	158-46-46	5.76	677.19	677.3	6,055,493.50	620,976.32	5 ↓
	Tag 3139A in 5cm Spruce			678.31	676.8	6,055,488.13	620,978.41	

BNW

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3140	20cm Spike			675.77	675.9	6,055,501.57	621,120.75	5
		274-20-02	4.183					
	Tag 3141 in 40cm Birch			676.98	676.0	6,055,501.89	621,116.58	5
3142	20cm Spike			691.20	691.3	6,055,495.09	621,271.11	5
		236-49-14	16.372					
	Tag 3082 (DH 264)			688.99	688.9	6,055,486.97	621,256.86	5
		312-39-54	2.673					
	Tag 3143 in 20cm Poplar			691.99	690.9	6,055,496.90	621,269.14	5
	"RAYED POINT FROM #3067"							
3072	Nail in Hub (DH-260)			697.49	696.5	6,055,019.04	621,019.44	5
		271-26-36	15.631					
	Tag 3073 in 50cm Cottonwood			697.92	696.4	6,055,019.43	621,003.81	5
		10-10-37	20.007					
	Tag 3074 in 50cm Cottonwood			696.70	695.2	6,055,038.73	621,022.98	5
	"RAYED POINT FROM #3075"							
3069	20cm Spike			690.59	690.6	6,055,044.68	620,778.89	5
		140-58-02	20.799					
	Tag 3070 in 15cm Spruce			692.544	691.1	6,055,028.52	620,791.99	5
		103-07-07	10.422					
	Tag 3077 (DH 262)			689.97	689.9	6,055,042.31	620,789.04	5

83 NW


72
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BRASS BOLT
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413.803
PABLO
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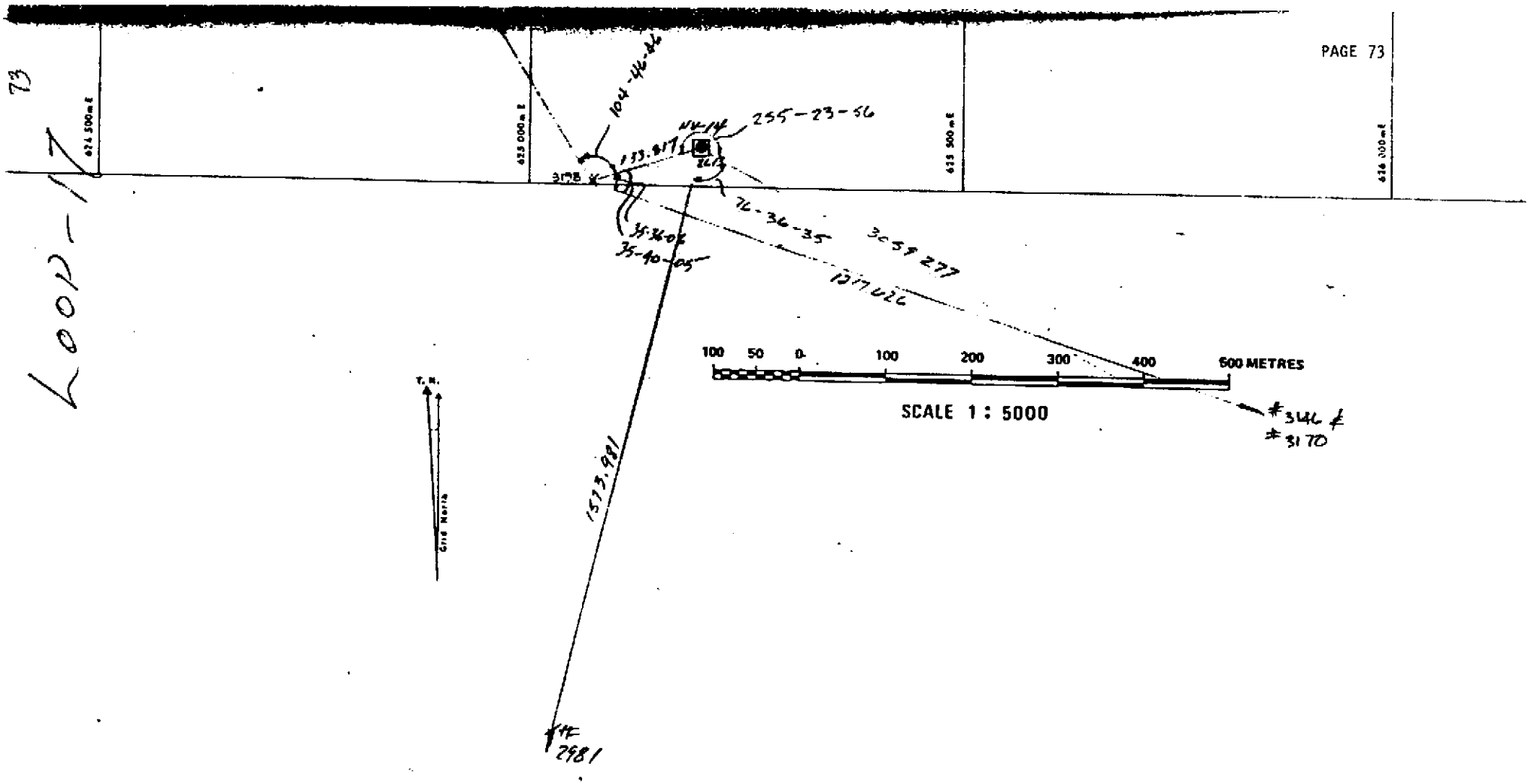
742.161
104-46-46
255-23-56

73

L00P-17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625 000m E
625 500m E
626 000m E
104-46-46
255-23-56
3178
76-36-35
35-36-05
35-40-05
1377.026
1513.981
T. N.
Grid North
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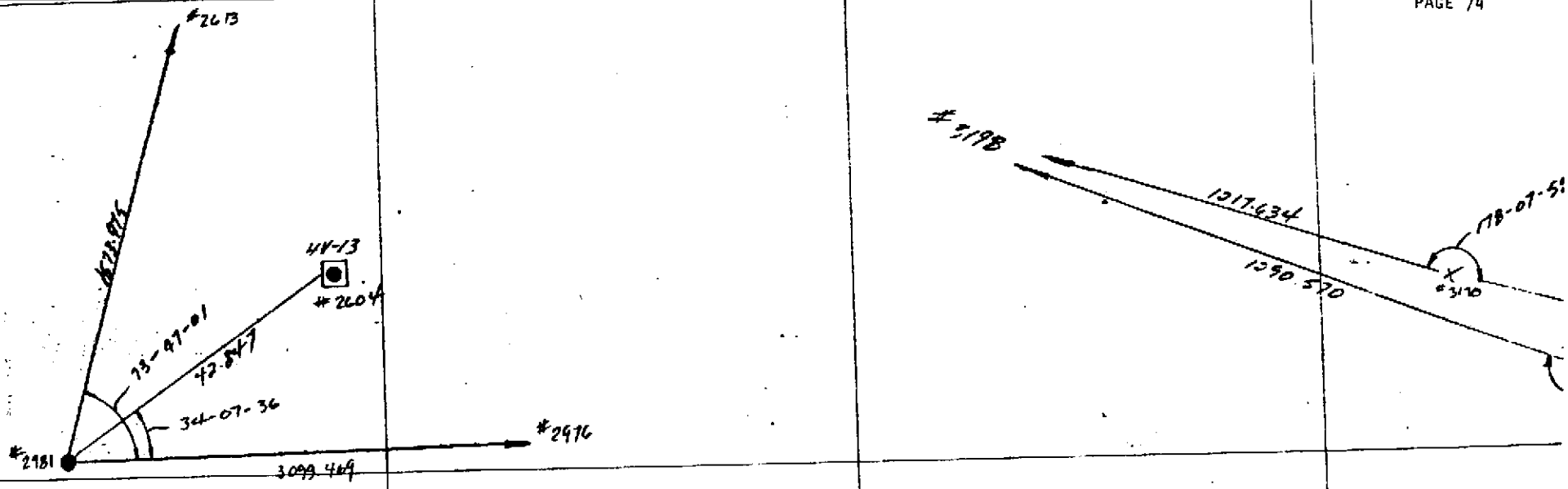
SCALE 1 : 5000
#3170

74

LOOP 17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73-47-01
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34-07-36
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#2976
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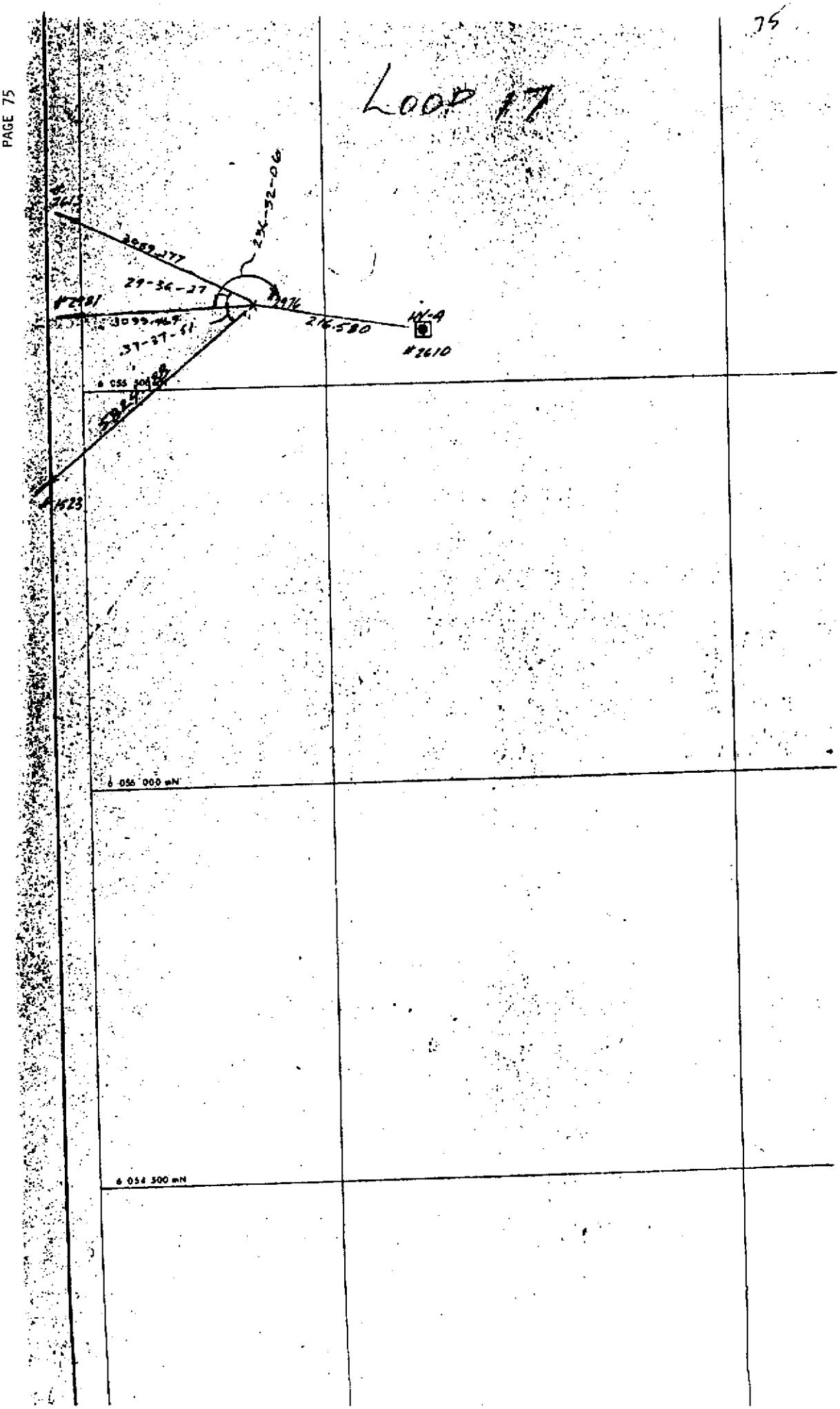
1217.634
1290.570
178-07-5
#3120


Loop 17
#2610
6 055 000 mN
6 054 500 mN

TRAVERSE #17 (SURVEY STATION)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
PADRE	BRASS BOLT - MON							8
		154-38-28						
PABLO	75cm Old Iron Pin			532.235	532.2	6,057,629.453	624,672.290	8
		147-20-08	742.146					
3198	20cm Spike			538.077	538.1	6,057,004.672	625,072.828	8
		72-06-54	133.811					
2613	75cm Iron Pin & Target			535.761	535.9	6,057,045.768	625,200.172	8
		194-07-32	1573.975					
2981	75cm Iron Pin			624.057	624.2	6,055,519.390	624,816.027	BSNE 9
		87-54-33	3099.469					
2976	Nail & Tag in Rock			797.868	797.8	6,055,632.477	627,913.433	BSNW 12
		230-16-47	5824.188					
1523	75cm Iron Pin & Target			1216.589	1216.15	6,051,910.710	623,433.521	BSSE 10
		300-07-21						

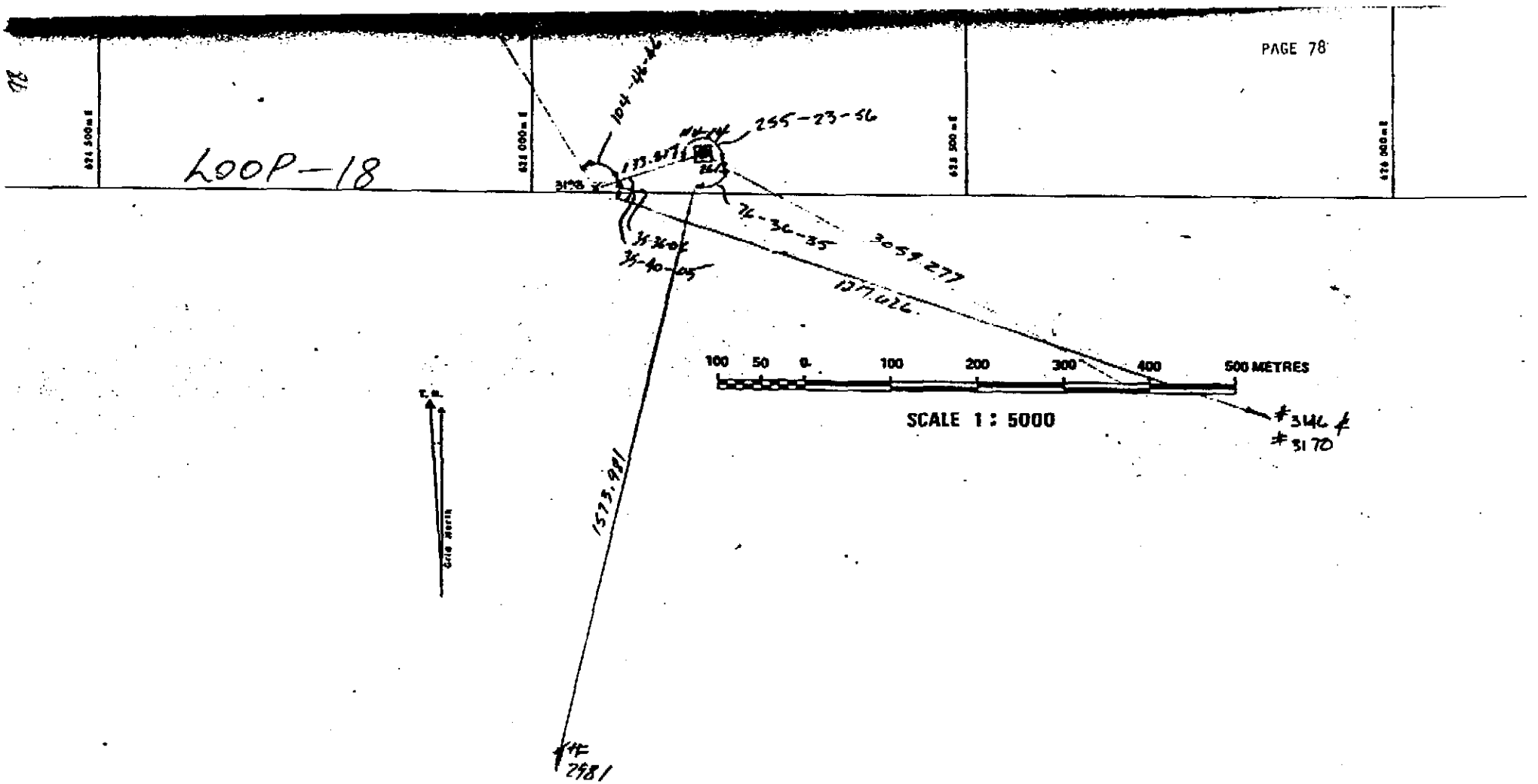
BASE

TRAVERSE 17 REFERENCE STATIONS

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2981	75cm Iron Pin			624.06	624.2	6,055,519.39	624,816.03	9
		226-39-53	1.29					
	Tag 2606 in 20cm Birch			624.64		6,055,518.51	624,815.09	9
		53-46-57	42.85					
	Tag 2604 75cm Iron Pin & Target			618.27	618.3	6,055,544.71	624,850.59	9
2976	Nail & Tag in rock			797.87	797.8	6,055,632.48	627,913.43	12
		16-12-10	6.09					
	Tag 2980 in 10cm Spruce			797.17	795.8	6,055,638.33	627,915.13	12
		241-41-18	5.86					
	Tag 2978 in 5cm Spruce			797.77	796.3	6,055,629.70	627,908.28	12
		106-48-59	216.58					
	Tag 2610 (HV-4)			785.48	785.18	6,055,569.82	628,120.76	12

B3NE

C3NW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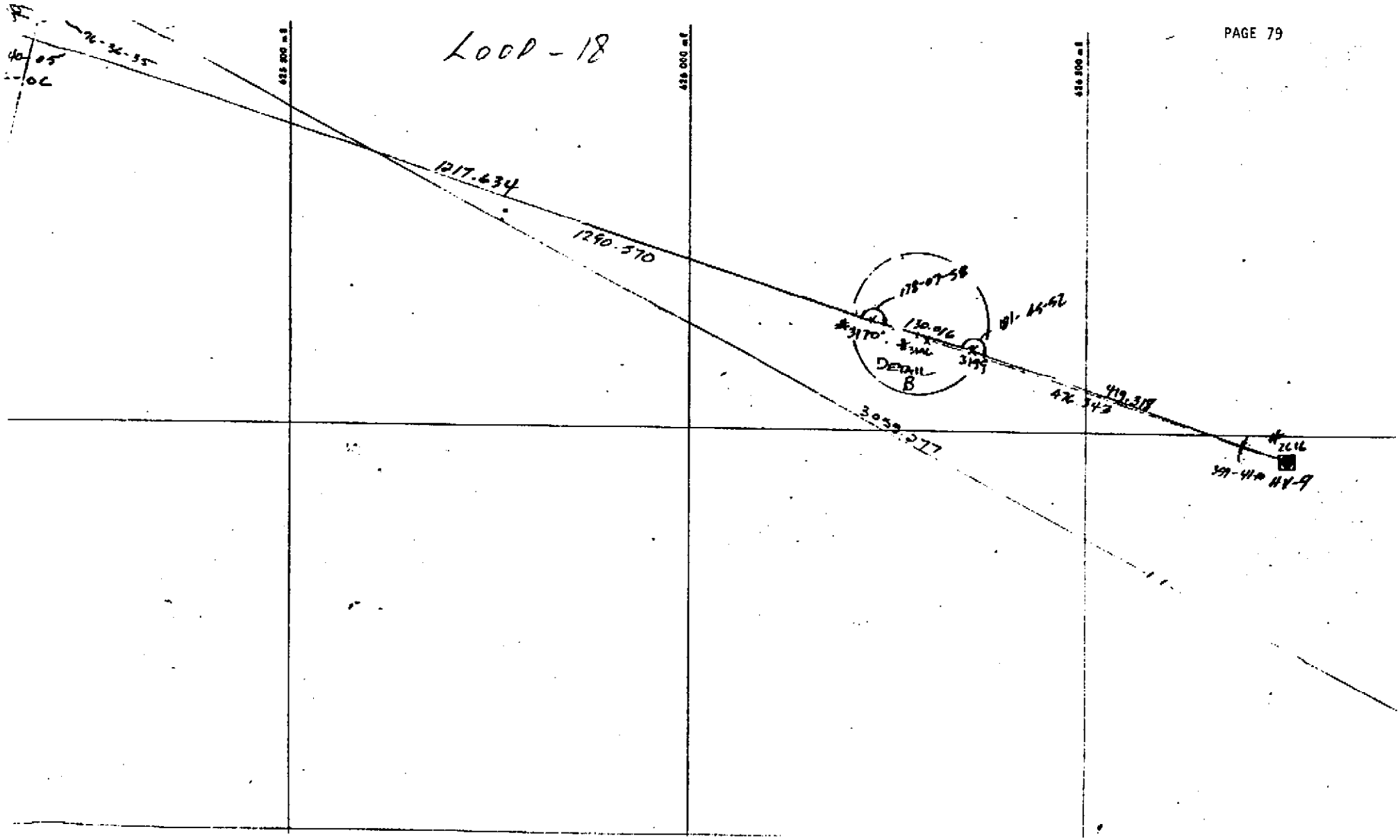
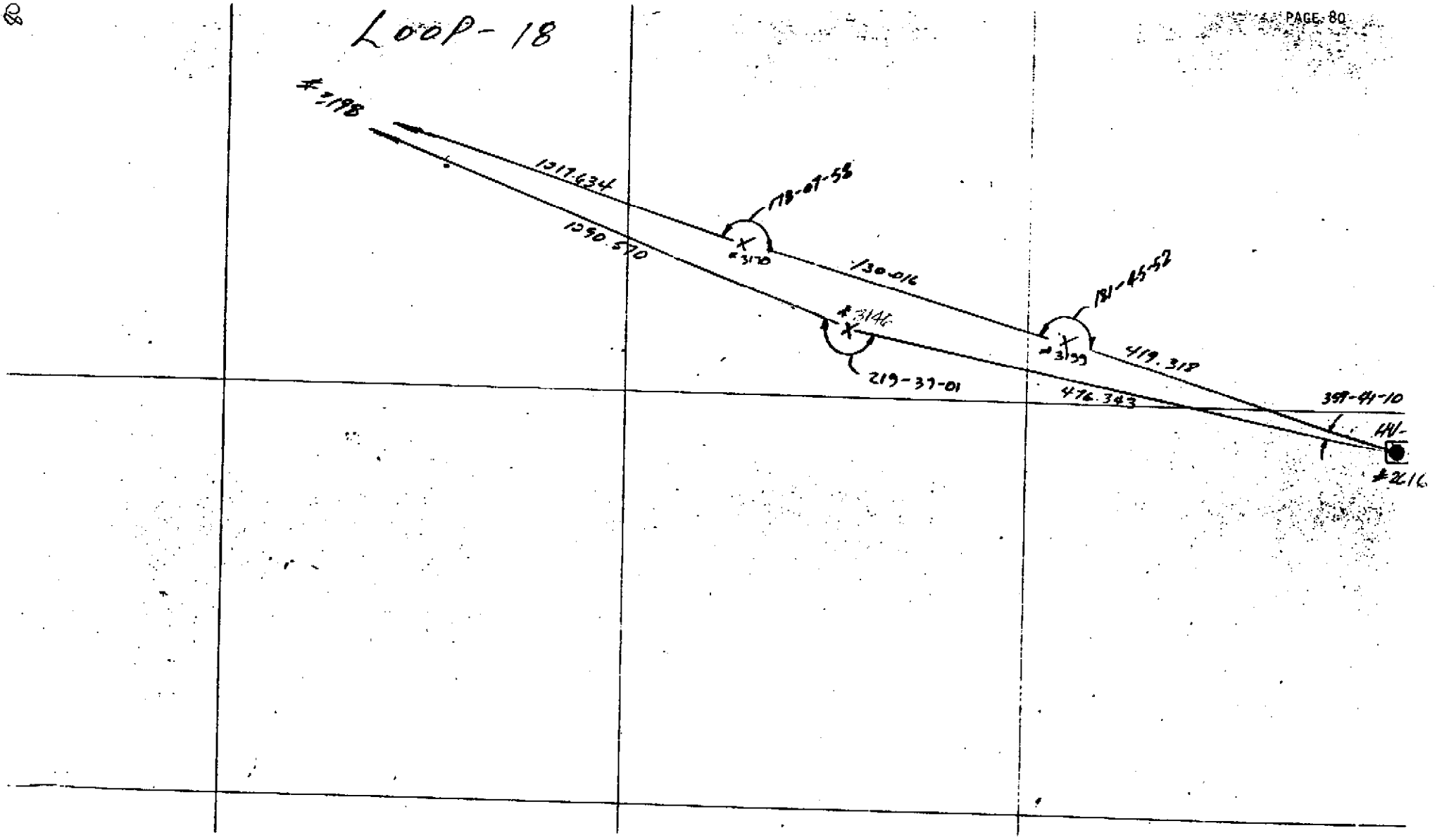
622 000m E
622 500m E
623 000m E
104-46-46
255-23-56
76-36-35
3059.277
1377.026
1573.981
#3146
#3170
#2981
100 50 0 100 200 300 400 500 METRES
SCALE 1 : 5000
T.N.
Grid North


LOOP - 18
1217.634
1290.370
3059.277
419.317
DETAIL B

LOOP-18


#3198
1217.634
1050.570
118-07-56
#3110
130.016
#3146
219-37-01
181-45-52
#3139
419.318
476.343
359-44-10
HW-
#2616

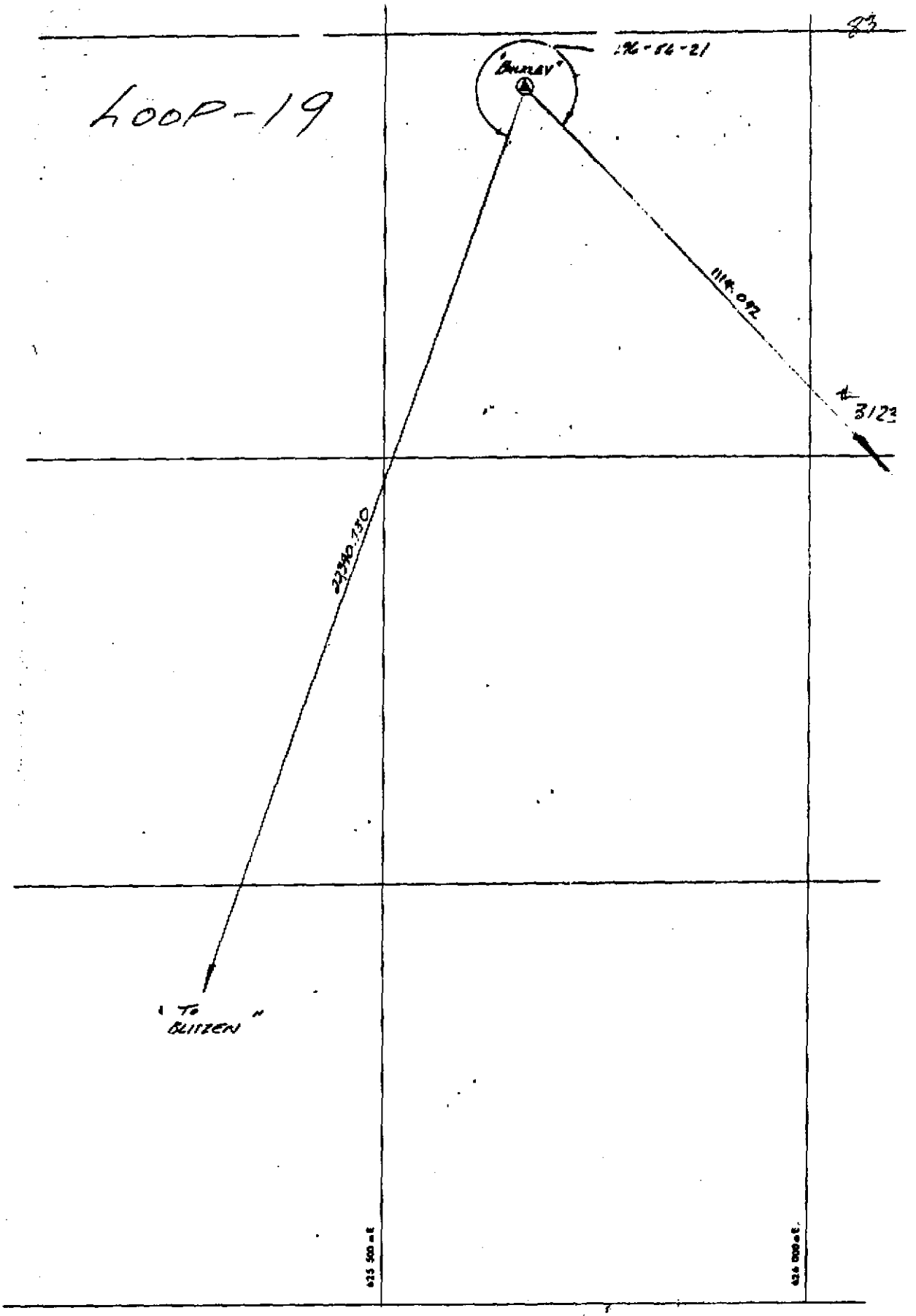
TRAVERSE #18 (SURVEY - STATIONS)

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
PABLO	75cm Old Iron Pin							
		147-20-12						
3198	75cm Old Iron Pin			538.077	538.1	6,057,004.672	625,072.828	8
		107-47-03	1217.634					
3170	20cm Spike			559.042	559.1	6,056,632.742	626,232.268	9
		105-54-56	130.016					
3199	20cm Spike			561.622	561.7	6,056,597.086	626,357.300	9
		107-40-48	419.318					
2616	75cm Iron Pin & Target			565.258	565.26	6,056,469.731	626,756.811	9
		287-21-58	476.343					
3146	20cm Spike			560.569	560.5	6,056.611.898	626,302.177	9
		287-43-11	1290.570					
3198	20cm Spike			538.077	538.1	6,057,004.672	625,072.827	8
		327-20-12						
PABLO	75cm Old Iron Pin							

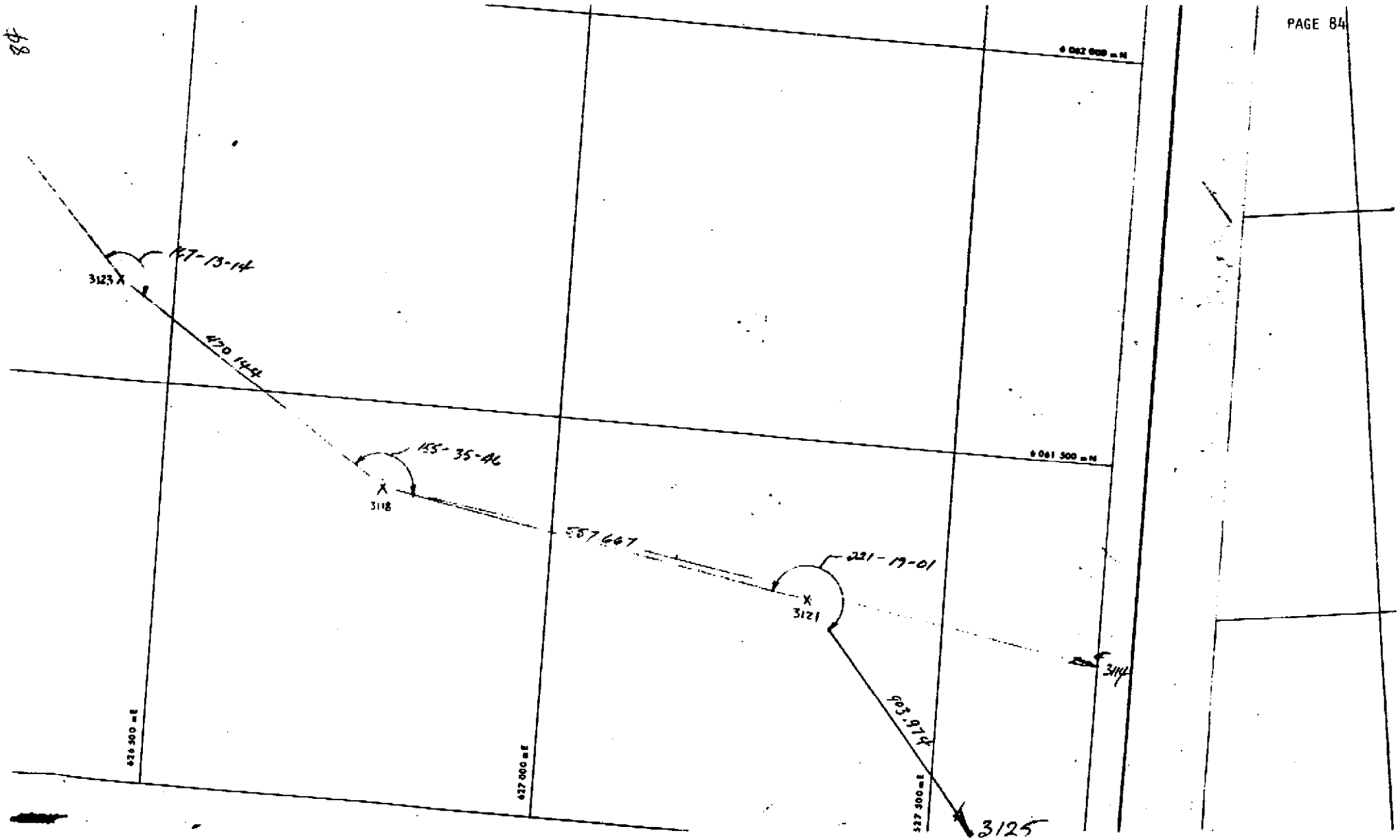
TRAVERSE 18 REFERENCE STATIONS

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2616	75cm Iron Pin & Target			565.26	565.2	6,056,469.73	626,756.81	9
		235-30-22	15.46					
	Tag 2617 in 30cm Poplar			565.85	564.5	6,056,460.98	626,744.07	9
		152-00-27	23.78					
	Tag 2618 in 30cm Birch			568.25	566.8	6,056,448.73	626,767.97	9
3170	20cm Spike							
		224-01-53	4.83					
	Tag 3171 in 40cm Spruce			562.62	561.2	6,056,629.27	626,228.91	9

BEAVER



100 50 0 100 200 300 400 500 METRES


6 062 000 m N
6 061 500 m N
626 500 m E
627 000 m E
627 500 m E
3123
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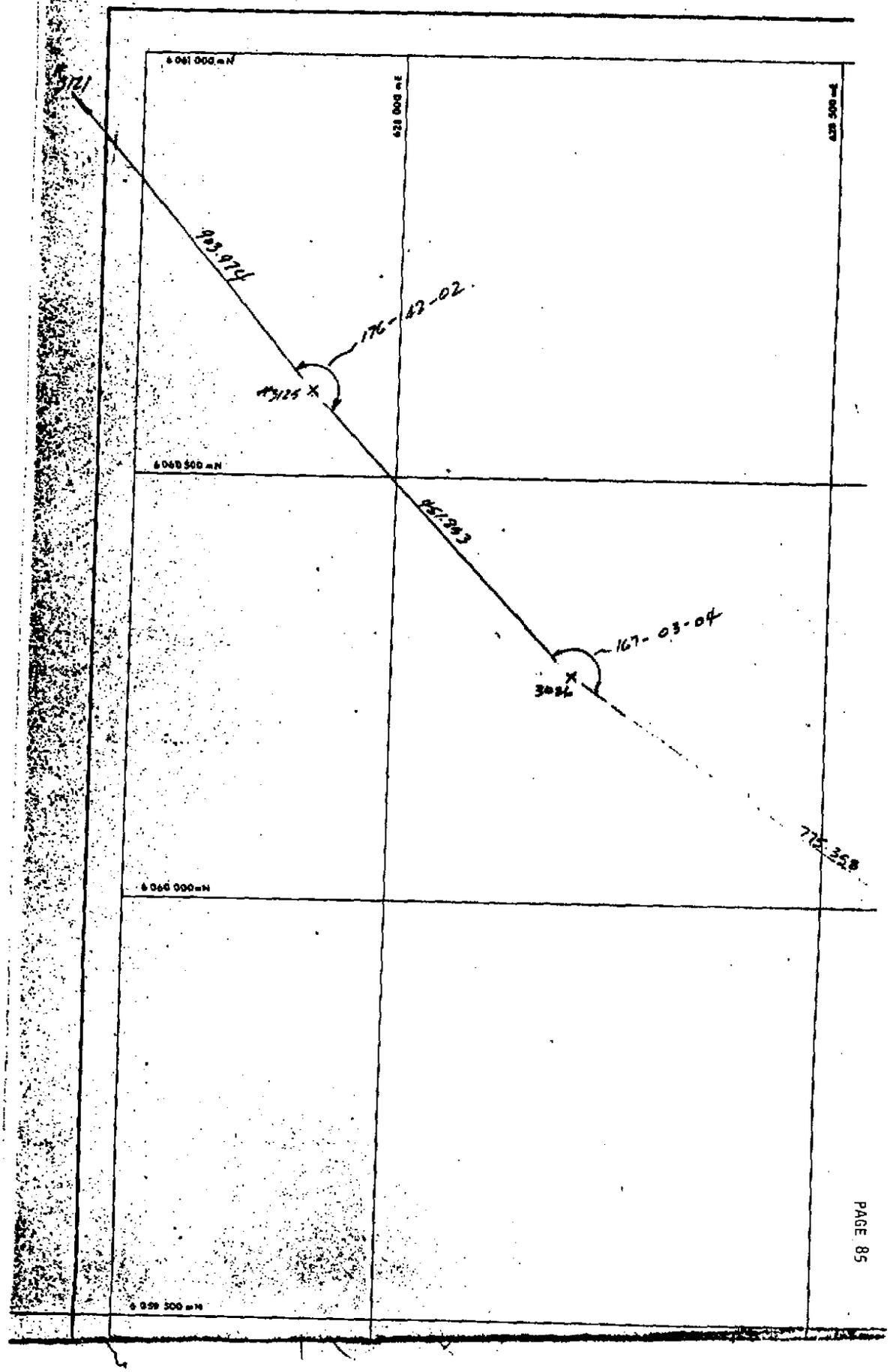
155-35-46
3118
557.667
221-19-01
3121
903.974
3125
3114

48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4125
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3026
772.358
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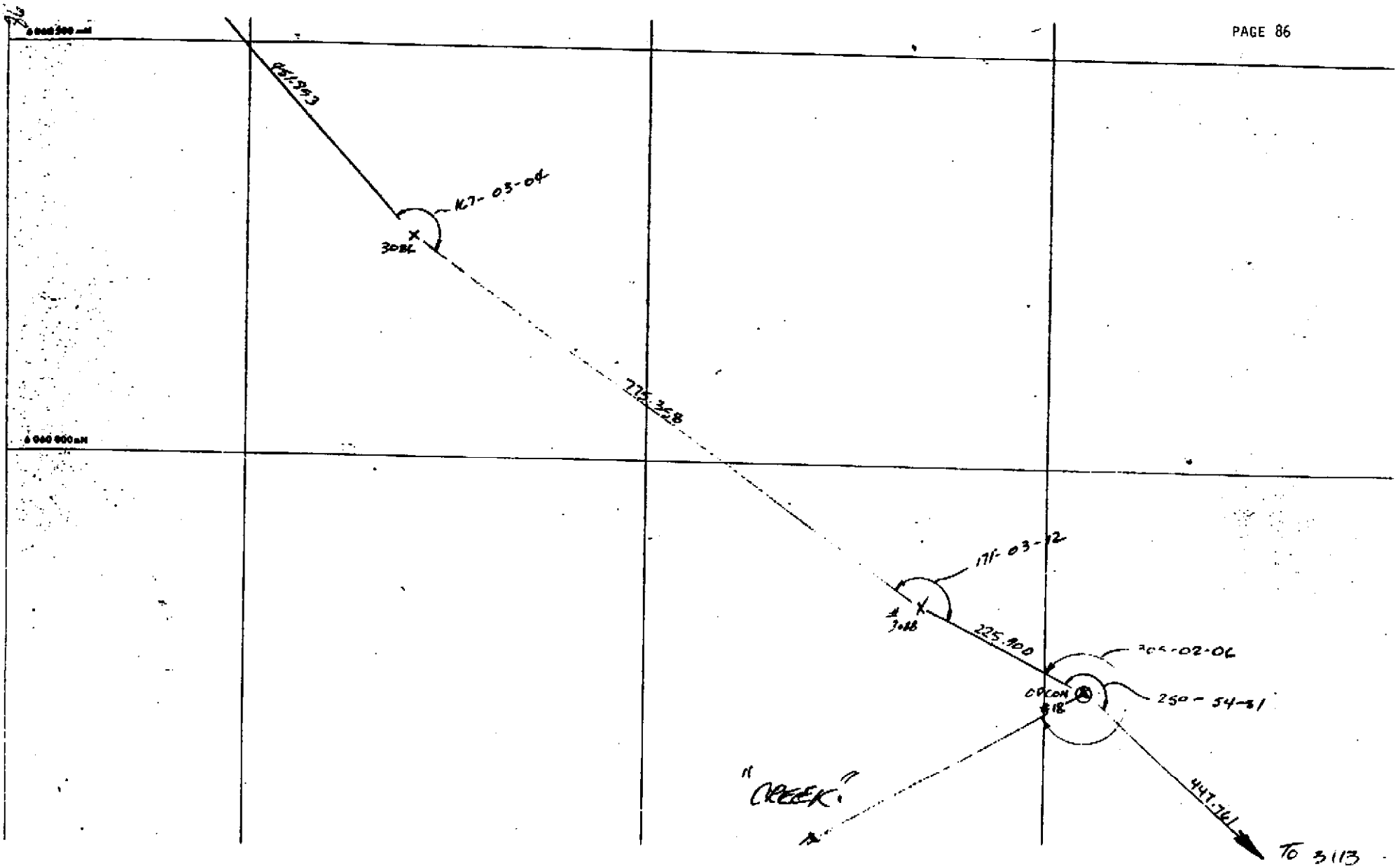
6 059 500 mN


167-03-04
3086
775.358
171-03-12
3088
225.900
204-02-06
250-54-41
"CREEK"
447.761
To 3113

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
BLITZEN								
		19-42-23						
BULKLEY	Brass Plate			530.962	530.1	6,062,436.993	625,665.768	7
		136-38-44	1114.052					
3123	20cm Spike			524.973	525.0	6,061,627.035	626,430.674	7
		123-51-58	420.144					
3118	20cm Spike			522.953	523.0	6,061,392.947	626,779.564	7
		99-27-44	557.667					
3121	20cm Spike			523.55	523.7	6,061,301.289	627,329.648	7
		140-46-45	903.974					
3125	20cm Spike			548.316	548.4	6,060,601.035	627,901.325	11
		137-28-47	451.853					
3086	20cm Spike			537.103	537.2	6,060,268.039	628,206.751	11
		124-31-51	775.358					
3088	20cm Spike			553.376	553.5	6,059,828.600	628,845.557	11
		115-35-03	225.900					
OP-CON-18	BRASS PLATE			552.096	552.1	6,059,731.067	629,049.318	11
		240-37-09						
CREEK								11

R2NE

R2SW

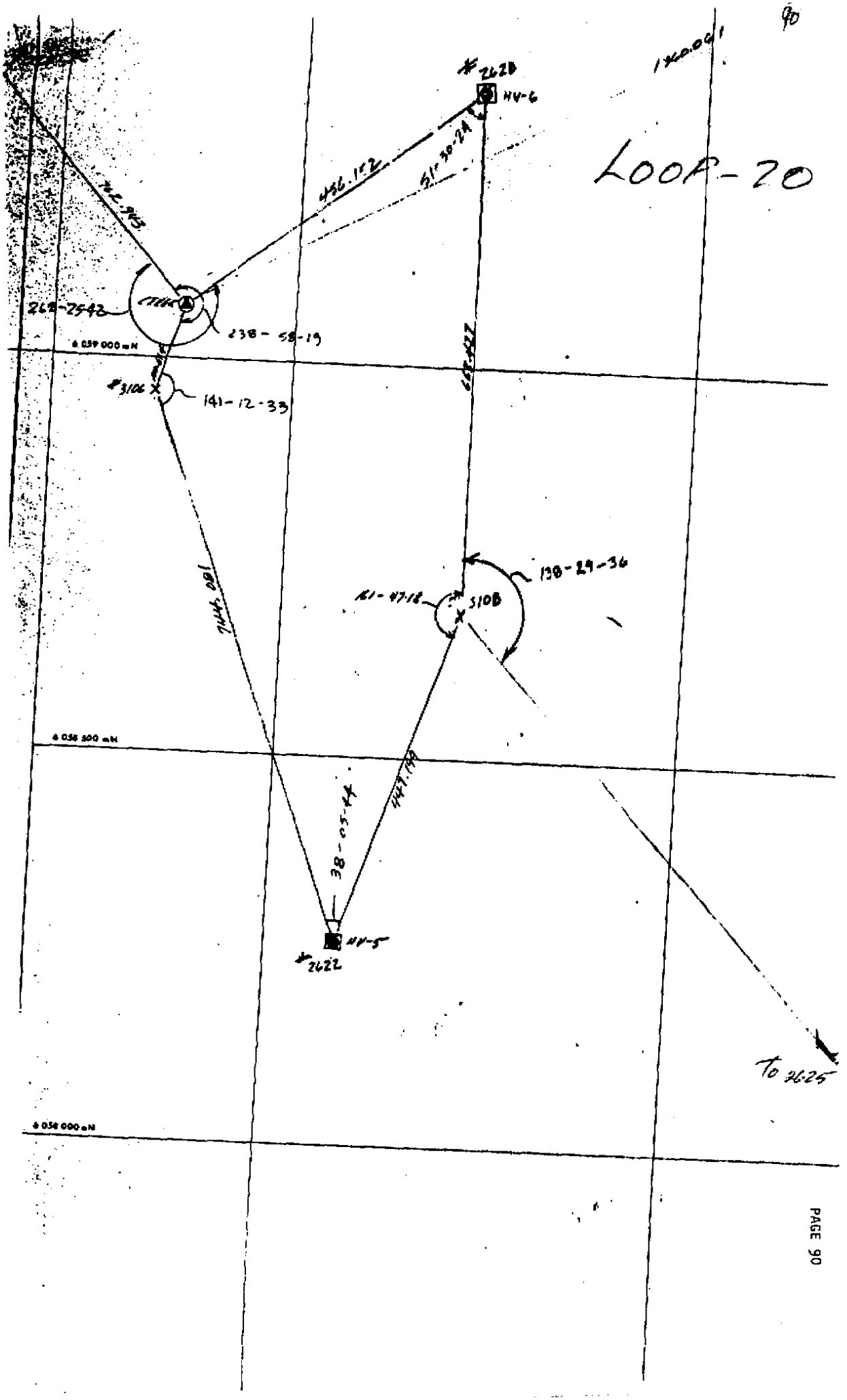
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
"BULKLEY"	Brass Plate			530.96	530.1	6,062,436.99	625,665.77	7
3123	20cm Spike	269-58-50	9.52	524.97	525.0	6,061,627.04	626,430.67	7
	Tag 3124 in power pole			526.22	525.1	6,061,627.03	626,421.15	7
3118	20cm Spike	268-11-26	18.83	522.95	523.0	6,061,392.95	626,779.56	7
	Tag 3119 in power pole (HV-11)	288-17-08	70.74	523.01	521.2	6,061.392.35	626,760.75	7
	Tag 3120 in Road℄ (HV-1)	245-43-28	80.22	521.53	521.53	6,061,415.15	626,712.39	7
	Tag 3033 small tree (HV-11)			519.71	519.7	6,061,359.96	626,706.43	7
3121	20cm Spike	264-10-51	15.25	523.55	523.7	6,061,301.29	627,329.65	7
	Tag 3122 in power pole			523.31	521.6	6,061,299.74	627,314.47	7
3125	20cm Spike	75-39-20	3.52	548.32	548.4	6,060,601.04	627,901.33	11
	Tag 3085 in 2cm Willow			550.06	548.5	6,060,601.91	627,904.73	"
3086	20cm Spike	163-26-32	12.33	537.10	537.2	6,060,268.04	628,206.75	11
	Tag 3087 in 5cm Spike			536.04	534.5	6,060,256.22	628,210.27	"
3088	20cm Spike	242-34-46	6.24	553.38	553.5	6,059,828.60	628,845.56	11
	Tag 3089 in Fence Post			554.05		6,059,825.73	628,840.02	"
	"RAYED POINT FROM 3118"							
3114	75cm Iron Pin	263-00-15	95.25	600.86	600.8	6,061,032.86	629,118.47	11
	Tag 3116 fence intersection	262-14-13	88.17	598.32	596.8	6,061,021.26	629,023.92	"
	Tag 3115 of driveway	20-35-48	2.246	597.15	597.2	6,061,020.95	629,031.10	"
	Tag 3117			602.08	600.8	6,061,034.97	629.119.26	"

BZ NE

C2SW

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
	"RAYED POINT FROM "P.CON-18"							
3113	Concrete Nail			549.57	549.57	6,059,434.18	629,384.50	"
		240-00-23	53.60					
	Tag 3112 (south west corner of slab)			543.22	543.22	6,059,407.38	629,338.07	"
		218-42-11	20.800					
	Tag 3111 (NE corner of slab			546.18	546.18	6,059,417.94	629,371.49	"

C2 SW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LOOP-20
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HV-6
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51-30-24
262-2542
238-58-19
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#3106
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190-29-36
161-47-18
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38-05-44
447.148
HV-5
#2622
To 2625
6 056 000 mN

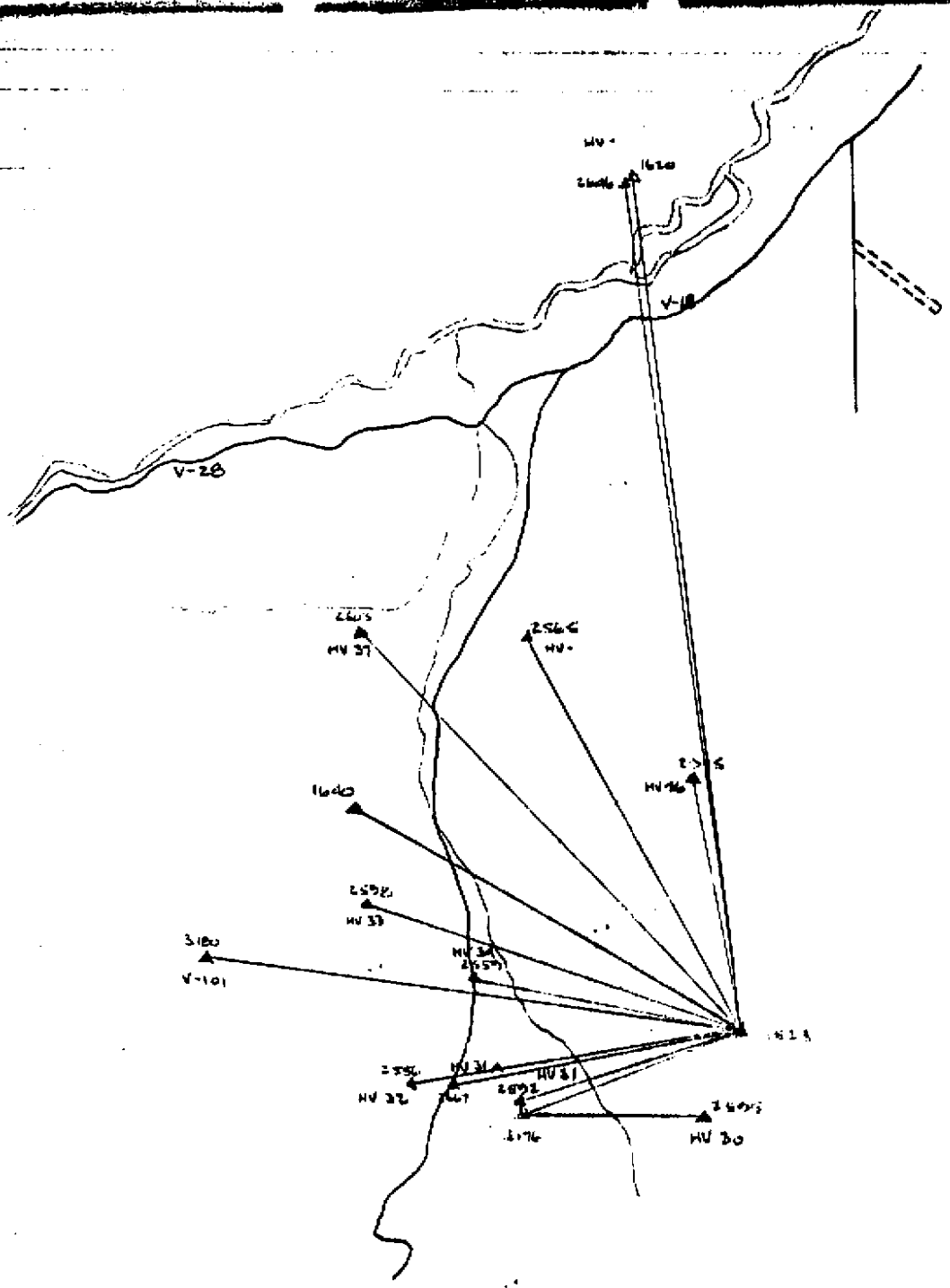
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
POWER	Iron Pin (74HN007) (Tag #33)					6,059,644.004	627,368.733	BASE 8
		139-30-43						
CREEK	ALUM.DISC (74H2579) (Tag #34)			516.659	516.6	6,059,063.755	627,864.105	11
		198-29-02	110.554					
3106	20cm Spike			520.982	521.1	6,058,958.904	627,829.055	11
		159-41-35	744.081					
2622	75cm Iron Pin & Target			521.818	521.82	6,058,261.071	628,087.291	11
		17-47-19	447.199					
3108	20cm Spike			521.745	521.8	6,058,686.890	628,223.915	11
		359-34-37	663.427					
2628	75cm Iron Pin & Target			510.286	510.29	6,059,350.302	628,219.016	11
		231-05-01	456.152					
CREEK	ALUM.DISC (74H2579)			516.659	516.6	6,059,063.755	627,864.104	11
		319-30-43						
POWER	Iron Pin (74HN007)					6,059,644.004	627,368.733	BASE 8

MS2

TRAVERSE 20 REFERENCE STATIONS

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3106	20cm Spike			520.98	521.1	6,058,958.90	627,829.06	11
		316-07-57	24.06					
	Tag 3107			522.08	520.7	6,058,976.25	627,812.38	11
2622	75cm Iron Pin & Target			521.82	521.82	6,058,261.07	628,087.29	11
		214-34-58	15.43					
	Tag 2624 in 10cm Spruce			523.40	521.9	6,058,248.36	628,078.53	11
		89-34-58	36.97					
	Tag 2623 in 30cm Poplar			524.72	523.3	6,058,261.34	628,124.26	11
3108	20cm Spike			521.75	521.8	6,058,686.89	628,223.92	11
		295-52-50	10.39					
	Tag 3109 in 30cm Poplar			522.56	519.9	6,058,691.43	628,214.56	11
2628	75cm Iron Pin & Target			510.29	510.29	6,059,350.30	628,219.02	11
		60-28-15	19.26					
	Tag 2629 in			511.70	510.3	6,059,359.80	628,235.78	11
		128-09-30	48.22					
	Tag 2630			511.91	510.5	6,059,320.51	628,256.93	11
	"RAYED POINTS" from 3108							
2625	75cm Iron Pin & Target			534.78	534.70	6,057,642.79	629,161.707	11
		03-46-25	29.17					
	Tag 2626 in 30cm Poplar			535.82	534.5	6,057,671.91	629,163.63	11
		81-03-31	23.945					
	Tag 2627 in 10cm Spruce			536.95	535.55	6,057,646.52	629,185.36	11

C2 Sw


V-28
1640
HV 37
HV 33
V-101
HV 32
HV 30

"RAYED POINTS FROM #1523

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1523		288-10-37	3755.101					B3SE10
2598	75cm Iron Pin & Target			792.944	792.9	6,053,082.13	619,865.810	B3NW5
1523		316-13-05	5307.372					B3SE10
2603	75cm Iron Pin & Target			699.452	699.5	6,055,742.523	619,761.273	B3NW5
1523		348-29-23	2481.256					B3SE10
2975	20cm Spike			756.526	756.5	6,054,342.066	622,938.406	B3NW5
1523		249-04-10	2210.302					
3176	Nail In Stump			863.662	863.6	6,051,121.113	621,369.066	B3SE10
		90-28-48	1723.523					
2595	75cm Iron Pin & Target			961.801	961.5	6,051,106.672	623,092.537	B3SW6
		120-07-21						
1523								10
		351-45-05	8279.858					
2646	75cm Iron Pin & Target			585.885	585.9	6,050,104.908	622,245.708	4
		37-56-49	23.447					
1620				585.65	585.6	6,060,123.398	622,260.23	4
		171-52-10	8296.074					
1523	75cm Iron Pin & Target			1216.589	1216.6	6,051,910.709	623,433.520	10
		300-07-21						

"RAYED POINTS" FROM #1523

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1640	75cm Iron Pin & Target					6,054,057.139	619,734.099	5 B3NW
		120-07-21	4277.017					
1523	75cm Iron Pin & Target			1216.589	1216.4	6,051,910.710	623,433.521	10B3SE
		249-04-10	2210.302					
3176	Nail & Tag in Stump			863.662	863.6	6,051,121.113	621,369.066	6
		14-15-25	7.350					
2592	75cm Iron Pin & Target			862.498	862.5	6,051,128.237	621,370.826	6
1523								10B3SE
		249-13-33	2206.085					
2592	75cm Iron Pin & Target			862.498	862.5	6,051,128.247	621,370.861	6B3SW
1523								10B3SE
		259-02-10	2782.876					
2667	75cm Iron Pin & Target			859.119	859.1	6,051,381.438	620,701.440	6B3SW
1523								10B3SE
		259-43-38	3170.012					
2556	75cm Iron Pin & Target			854.965	855.0	6,051,345.392	620,314.324	6 B3SW
1523								A3SE
		277-30-50	5130.655					
3180	75cm Iron Pin			830.147	830.1	6,052,611.217	618,350.912	No Map
1523								10B3SE
		280-12-25	2583.647					
2559	75cm Iron Pin & Target			779.922	779.9	6,052,368.547	620,890.763	6 B3SW

(REFERENCE POINTS) RAYED POINTS FROM #1523

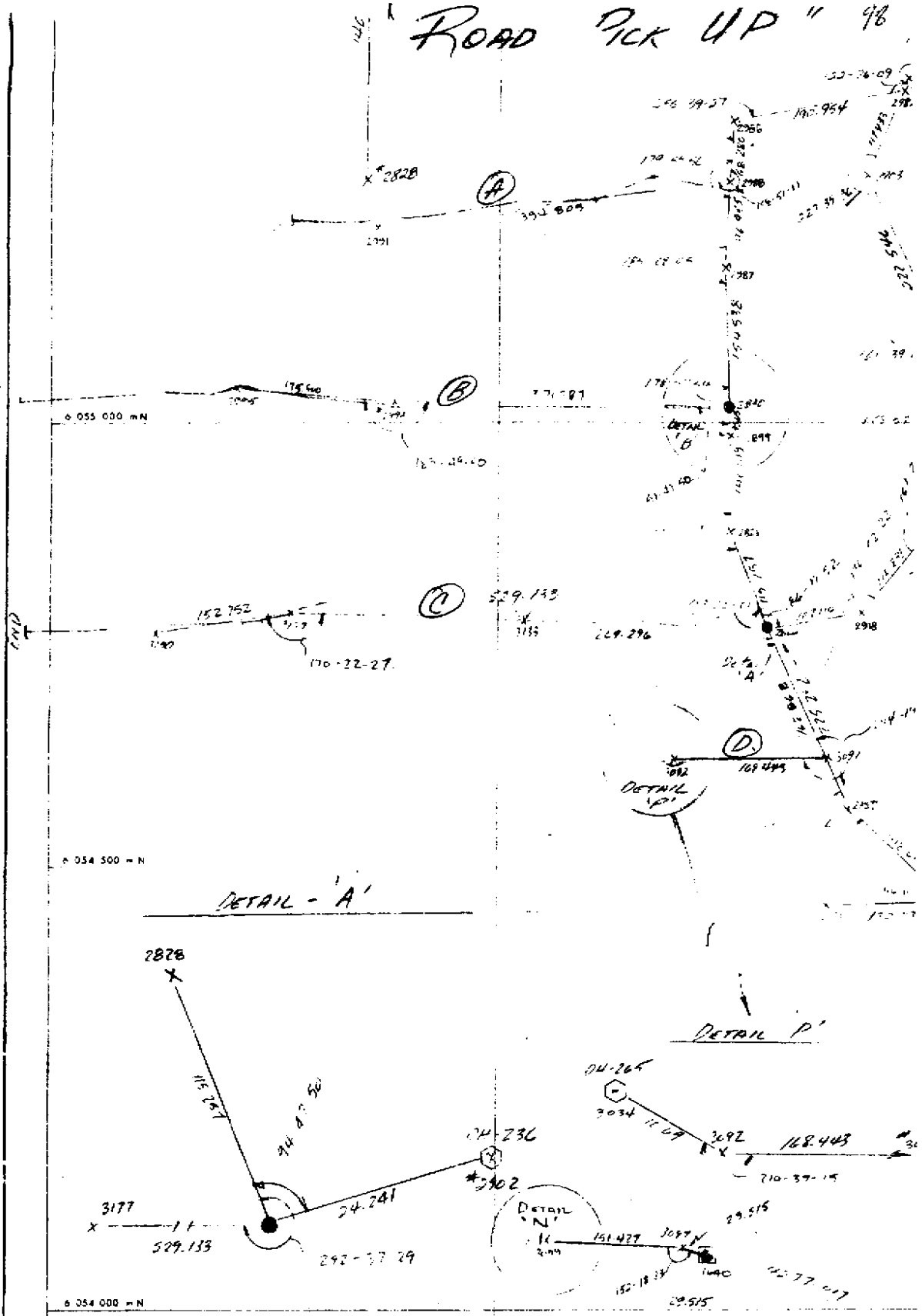
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2592	75cm Iron Pin & Target (HV-31)			862.50	862.5	6,051,128.25	621,370.86	
	Tag 2593 in 20cm Spruce	310-46-21	15.169	862.61	860.5	6,051,138.15	621,359.37	6
	Tag 2594 in 10cm Fir	220-52-27	28.39	866.09	864.7	6,051,106.78	621,352.28	B3SW
2595	75cm Iron Pin & Target (HV-30)			961.80	961.5	6,051,106.67	623,092.54	
	Tag 2596 in 50cm Stump	72-45-03	8.03	963.73	963.4	6,051,109.05	623,100.21	B3SW
	Tag 2597 in 5cm Spruce	170-31-06	8.176	962.79	960.8	6,051,098.61	623,093.88	
2667	75cm Iron Pin & Target (HV-31-A)			859.12	859.1	6,051,381.44	620,701.44	
	Tag 2668 in 20cm Pine	36-35-00	39.35	859.61	857.8	6,051,413.04	620,724.89	6
	Tag 2669 in 7cm Poplar	113-23-10	29.98	861.33	859.9	6,051,369.54	620,728.96	B3SW
2556	75cm Iron Pin & Target (HV-32)			854.97	854.97	6,051,345.39	620,314.32	
	Tag 2557 in 20cm Fir	03-47-44	35.372	853.87	852.37	6,051,380.69	620,316.66	6
	Tag 2558 in 20cm Fir	102-31-48	20.55	855.82	854.42	6,051,340.93	620,334.39	B3SW
3180	75cm Iron Pin			830.14	830.1	6,052,611.217	618,350.91	
	Tag 3181 (V-101-A)	313-15-30	12.785	828.65	828.65	6,052,619.98	618,341.60	A3SE
	Tag 3179 (V-101-B)	19-59-10	55.23	827.59	827.59	6,052,663.12	618,369.79	
2559	75cm Iron Pin & Target (HV-34)			779.92	779.92	6,052,368.55	620,890.76	
	Tag 3182 Nail in Stump	202-22-30	10.895	783.37	---	6,052,358.47	620,886.62	6
	Tag 2561 (HV-34)	329-18-14	32.725	766.11	---	6,052,396.69	620,874.06	B3SW

 VISUAL

(REFERENCE POINTS) RAYED POINTS FROM #1523

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2598	75cm Iron Pin & Target			792.94	792.94	6,053,082.13	619,865.81	
		342-27-07	42.04					
	Tag 2599 in 35cm Spruce			794.59	792.6	6,053,122.22	619,853.13	5
		246-45-31	39.08					B3NW
	Tag 2600 in 20cm Spruce			797.32	795.3	6,053,066.71	619,829.90	
2603	75cm Iron Pin & Target (HV-37)			699.45	699.45	6,055,742.52	619,761.27	
		81-00-11	8.011					
	Tag 2601			700.64	---	6,055,743.78	619,769.18	5
		341-29-29	9.560					B3NW
	Tag 2602			700.11	---	6,055,751.59	619,758.24	
2565	75cm Iron Pin & Target			676.72	676.45	6,055,706.54	621,332.30	
		199-48-38	11.611					
	1606 (U.I.P.)			677.47	677.4	6,055,695.62	621,328.36	B3NW
		00-40-38	20.88					
	1608 in 60cm Cottonwood			678.84	677.45	6,055,727.42	621,332.54	
2975	20cm Spike			756.53	756.5	6,054,342.06	622,938.41	5
		302-47-26	3.95					
	Tag 2574 (HV-36)			756.43	756.4	6,054,344.21	622,935.08	B3NW
		303-55-17	25.802					
	Tag 2575 (Nail in Log)			757.42	755.9	6,054,356.46	622,916.99	
		61-44-17	29.136					
	Tag 2576 (Dead Tree)			759.42	756.4	6,054,355.86	622,964.07	

"ROAD PICK UP" 98



DETAIL 'N'

* NOTE (measured by (R.L.)) * 3101

SURVEY STATIONS OFF TRAVERSES LOOP #10

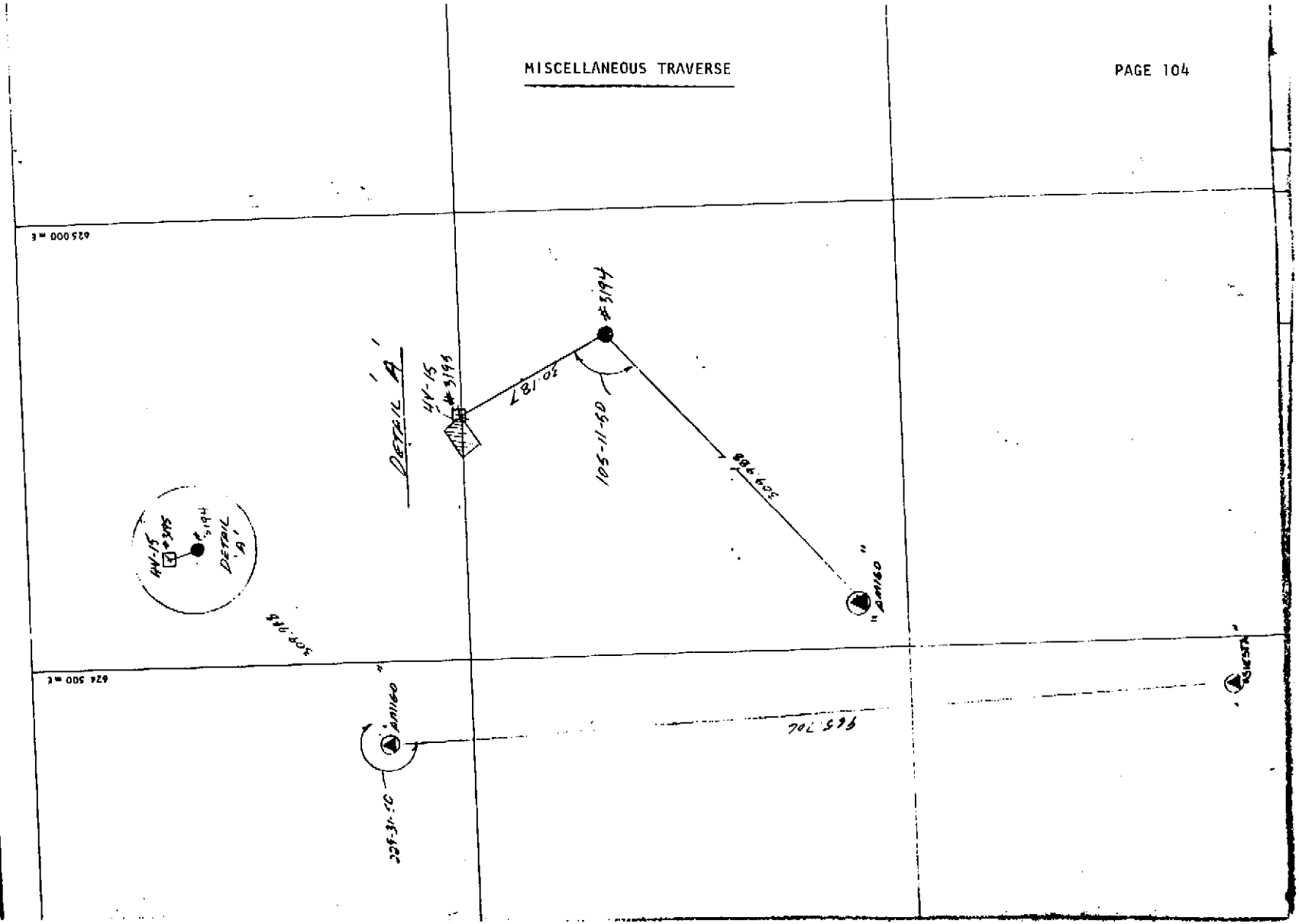
	STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
				TR. B1					
	2986	20cm Spike			716.36	716.5	6,055,337.503	619,759.056	5
			183-15-24	68.280					
(B-1)	2988	20cm Spike			717.896	717.9	6,055.269.333	619,755.177	5
			262-06-35	394.805					
	2991	20cm Spike			727.480	727.5	6,055,215.134	619,364.110	5
				TR. C1					
	2828	20cm Spike			737.90	738.0	6,054,877.473	619,756.795	5
			359-09-29	140.620					
(C-1)	2830	75cm Iron Pin			732.955	732.9	6,055,018.078	619,754.729	5
			270-57-19	371.787					
	2993	20cm Spike			731.935	731.9	6,055,024.276	619,382.994	5
			274-47-09	175.900					
	2995	20cm Spike			732.890	732.9	6,055,038.952	619,207.707	5
				TR. D					
	2828	20cm Spike			737.97	738.0	6,054,877.473	619,756.795	5
			158-57-48	115.25					
(B)	2826	75cm Iron Pin			733.479	733.5	6,054,769.898	619,798.168	5
			271-35-17	269.96					
	3133	20cm Spike			733.558	733.6	6,054,777.36	619,528.976	5
			271-35-17	259.84					
	3177	20cm Spike			736.706	736.7	6,054,784.565	619,269.238	
			261-57-44	152.75					
	3190	20cm Spike			747.437	747.5	6,054,763.207	619,117.987	
				TR. F					
	2826	20cm Spike			733.479	733.5	6,054,769.898	619,798.168	5
			155-31-48	162.868					
	3091	20cm Spike			733.681	733.7	6,054,621.659	619,865.631	
			269-46-09	168.443					
	3092	20cm Spike			737.295	737.3	6,054,620.980	619,697.189	

BSW

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
	"TRAVERSE 'A' FROM 2988"							
2991	20cm Spike	236-00-13	6.37	727.48	727.5	6,055,215.13	619,364.11	5 B3W
	Tag 2992 in 15cm Fir			728.80	727.6	6,055,211.57	619,358.83	B3W
	"TRAVERSE 'B' FROM 2830"							
2993	20cm Spike	64-24-29	12.316	731.94	731.9	6,055,024.28	619,382.99	5
	Tag 2994 in 30cm Spruce			734.28	732.8	6,055,029.60	619,394.10	5
2995	20cm Spike	203-36-25	5.17	732.89	732.9	6,055,038.95	619,207.71	5 B3W
	Tag 2996 in 50cm Spruce			733.89	732.3	6,055,034.21	619,205.64	5
	"TRAVERSE 'C' FROM 2826"							
3133	20cm Spike	322-28-52	21.48	733.56	733.6	6,054,777.36	619,528.98	5
	Tag 3095 in 20cm Spruce	52-22-35	20.23	735.88	734.8	6,054,794.40	619,515.89	5
	Tag 3096 in 30cm Spruce			735.64	734.4	6,054,789.71	619,544.99	5
3177	20cm Spike	325-15-57	9.395	736.71	736.7	6,054,784.57	619,269.24	5 B3W
	Tag 3178 in 40cm Fir			738.54	737.2	6,054,792.28	619,263.89	5
3190	20cm Spike	109-30-40	2.64	747.44	747.5	6,054,763.21	619,117.99	5
	Tag 3191 in 30cm Spruce			749.10	747.50	6,054,762.32	619,120.48	5

REFERENCE STATIONS FOR "MISCELLANEOUS TRAVERSE"

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
	"RAYED POINT FROM OLD TRAVERSE - 1 (STA 2687)"							
2687	20cm Spike			753.87	753.9	6,054,320.01	621,092.88	B3NW
		348-31-02	105.287					
3052	20cm Spike			746.23	746.2	6,054,423.19	621,071.92	B3NW
		247-02-35	16.099					
	Tag 3055 in 40cm Cottonwood			747.20	745.9	6,054,416.91	621,057.09	B3NW
		136-19-44	15.558					
	Tag 3054 in 40cm Birch			748.94	747.4	6,054,411.94	621,082.66	B3NW
		164-24-49	13.216					
	Tag 3053 (DH-259)			747.12	747.1	6,054,410.46	621,075.47	B3NW
	TRAVERSE FROM OLD TRAVERSE - #1 (STA 1640)							
1640	75cm Iron Pin & Target							
		300-07-21	29.524					
3097	20cm Spike			760.19	760.2	6,054,071.95	619,708.57	B3NW
		272-25-54	151.478					
3099	20cm Spike			762.47	762.5	6,054,078.38	619,557.28	B3NW
	REFERENCE STATIONS							
3097	20cm Spike			760.19	760.2	6,054,071.95	619,708.57	
		133-25-15	10.20					
	Tag 3098 in 15cm Pine			761.65	760.2	6,054,064.94	619,715.98	
		272-25-54	151.43					
3099	20cm Spike			762.47	762.5	6,054,078.38	619,557.28	B3NW
		51-13-34	31.84					
	Tag 3101 in 50cm Pine			763.84	762.04	6,054,098.31	619,582.10	
		114-25-39	20.08					
	Tag 3100 in 10cm Spruce			763.76	762.26	6,054,070.07	619,575.56	


625 000 m E
624 500 m E
DETAIL A
HW-15
#3195
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509.988
"AMIGO"
"AMIGO"
"WEST"
665.704
225-31-50
308.118
DETAIL A
HW-15
#3195
#3194

"MISCELLANEOUS TRAVERSE"

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3192	75cm Iron Pin ("AMIGO")			536.30	536.3	6,060,595.45	624,405.40	
		46-57-02	309.99					
3194	75cm Iron Pin			534.59	534.6	6,060,807.06	624,631.92	
		332-08-42	30.20					
	Tag 3195 corner of house			536.47	533.5	6,060,833.76	624,617.81	
		38-25-32	12.10					
	Tag 3197 (Power Pole)			536.17	534.6	6,060,816.53	624,639.44	
		22-09-22	22.958					
	Tag 3196 (℄ of road & driveway)			534.28	534.2	6,060,828.32	624,640.58	
								B25E
	Reference Station							
3192	75cm Iron Pin ("AMIGO")			536.30	536.3	6,060,595.45	624,405.40	
		204-13-52	6.87					
	Tag 3193 in 30cm Pine			537.61	536.6	6,060,589.18	624,402.57	

C.N.R.I. TELKWA PROJECT

1981 & 1982 TARGETS & PHOTO CONTROL POINTS

IV#	TAG #	DESCRIPTION	NORTHING	EASTING	ELEVATIONS STATION	GROUND	TARGE
IV17 (82)	2589	IP & Target	6,056,455.58	622,953.07	689.50	689.50	689.50
IV31 (82)	2592	IP & Target	6,051,128.25	621,370.86	862.50	862.50	862.60
IV30 (82)	2595	IP & Target	6,051,106.67	623,092.54	961.80	961.50	961.90
IV33 (82)	2598	IP & Target	6,053,082.13	619.865.81	792.94	792.94	792.94
IV37 (82)	2603	IP & Target	6,055,742.52	619,761.27	699.45	699.45	699.45
IV13 (82)	2604	IP & Target	6,055,544.71	624,850.59	618.27	618.27	618.27
IV4 (82)	2610	IP & Target	6,055,569.82	628,120.76	785.48	785.18	785.31
IV14 (82)	2613	IP & Target	6,057,045.77	625,200.17	535.76	535.96	536.06
IV9 (82)	2616	IP & Target	6,056,469.73	626,756.81	565.26	565.26	565.26
IV5 (82)	2622	IP & Target	6,058,261.07	628,087.29	521.82	521.82	521.82
IV2 (82)	2625	IP & Target	6,057,642.80	629,161.71	534.77	534.77	534.77
IV6 (82)	2628	IP & Target	6,059,350.30	628,219.02	510.29	510.29	510.29
/20 (82)	2634	IP & Target	-------	-------	505.80	505.64	505.80
IV-(82)	2646	IP & Target	6,060,104.91	622,245.71	585.88	585.88	585.88
IV39 (82)	2659	IP & Target	6,058,698.34	619,569.78	657.92	657.92	657.92
HV22	2662	IP & Target	6,058,982.84	620,621.43	629.46	629.46	629.46
OH 111	2664	Nail & Target	6,057,981.03	616,496.76	787.36	787.36	787.36
HV31A (82)	2667	IP & Target	6,051,381.44	620,701.44	859.12	859.12	859.12
DH20B	2714	IP & Target	6,053,663.90	620,971.55	785.81	785.81	785.81
HV-(82)	2742	IP & Target	6,052,019.652	621,908.128	859.43	859.43	859.43
DH226	2779	IP & Target	6,054,287.25	619,764.13	762.10	762.10	762.15
HV11 (82)	3033	Small Tree	6,061,359.96	626,706.43	----	519.71	----
V"A"	3037	℄ Intersections Hwy & Road	-------	-------	----	506.44	----
V"B"	3038	℄ Road	-------	-------	----	500.78	----
V"C"	3039	℄ Driveway opp Barn	-------	-------	----	487.17	----
V"D"	3040	℄ Road Intersection	-----	-------	----	533.55	----
V"E"	3041	℄ Road Intersection	-----	-------	----	534.37	----
IV1- (82)	3111	Nail @ Con. Cor.	6,059,417.94	629,371.49	546.18	546.18	----
IV1- (82)	3112	Nail @ House Cor.	6,059,407.38	629,338.07	543.22	543.22	----
/1 (82)	3113	Nail in Park Lot	6,059,434.18	629,384.50	549.57	549.57	----
/3 (82)	3115	Nail in Road ℄	6,061,020.95	629,031.10	597.15	597.15	----
13 (82)	3116	Nail in Fence Post	6,061,021.26	629,023.92	598.32	596.8	----
IV11 (82)	3119	Nail in Power Pole	6,061,392.35	626,760.75	523.01	521.2	----
/11 (82)	3120	Nail @ Road ℄	6,061,415.15	626,712.39	521.53	521.53	----
IV101 (82)	3179	Nail @ Road ℄	6,052,663.12	618,369.79	827.59	827.59	----
/101 (82)	3181	Nail @ Road ℄	6,052,619.98	618,341.60	828.65	828.65	----
IV15 (82)	3195	House Corner	6,060,833.76	624,617.81	536.47	533.54	----
15 (82)	3196	Nail @ Road ℄	6,060,828.32	624,640.58	534.28	534.28	----

November 3, 1982

Donald E. Watson B.C.L.S.

FILE #4275

C.N.R.I. TELKWA PROJECT

1981 & 1982 TARGETS & PHOTO CONTROL POINTS

HV#	TAG #	DESCRIPTION	NORTHING	EASTING	ELEVATIONS STATION	GROUND	TARGET
HV (82)	79HA-364	P.CON. & Target	----	----	580.156	580.16	580.16
V3 (81)	1519	R.R. Tracks	----	----	----	507.18	----
HV12 (81)	1521	Nail in Tree	6,062,442.84	614,407.63	893.50	892.2	----
HV12 (81)	1522	Nail in Tree	6,062,410.45	614,392.64	893.47	892.22	----
HV-(82)	1523	IP & T	6,051,910.71	623,433.52	1216.59	1216.15	1216.15
V13 (81)	1588	Nail @℄ Road Int.	----	----	579.19	579.19	----
HV14 (81)	1589	House Corner	6,061,639.78	625,336.81	----	517.03	
HV14 (81)	1590	House Corner	6,061,598.82	625,299.11	----	516.98	----
HV12(81)	1591	House Corner	6,057,948.37	624,410.08	544.72	544.72	----
HV12(81)	1592	House Corner	6,058,086.24	624,441.85	540.16	540.16	----
HV4(81)	1597	Nail & T on Roof	6,052,962.55	622,507.56	911.86	909.96	912.16
HV-(82)	1599	IP & Target	6,054,074.40	621,312.52	772.92	772.92	772.92
HV-(82)	1602	IP & Target	6,052,663.40	621,673.91	858.70	858.70	858.70
HV5 (81)	1605	Nail in Road	6,055,728.05	621,339.41	676.62	676.62	----
HV5 (81)	1607	Nail in Tree	6,055,683.58	621,319.48	680.16	678.66	----
HV5 (81)	1608	Nail in Tree	6,055,727.43	621,332.54	678.85	677.45	----
HV9 (81)	1611	Nail on Roof Corner	6,059,987.12	617,163.77	946.92	944.92	----
HV8 (81)	1614	Nail in Tree	6,052,314.97	617,515.33	836.06	834.45	----
HV8 (81)	1615	Nail in Tree	6,052,273.08	617,555.06	836.11	834.91	----
HV10 (81)	1618	Nail in Tree	6,058,018.45	616,448.16	791.95	790.64	----
HV10 (81)	1619	Nail in Tree	6,057,997.50	616,537.87	788.87	787.06	----
HV6 (81)	1621	Nail @℄ Road	6,060,114.58	622,287.65	584.16	584.16	----
HV6 (81)	1622	Nail in Tree	6,060,107.01	622,292.91	585.56	584.36	----
HV6 (81)	1623	Nail in Tree	6,060,150.84	622,295.17	584.89	583.29	----
HV (82)	1624	IP & Target	6,052,884.00	621,825.78	887.84	888.04	888.24
HV-(82)	1629	IP & Target	6,055,199.49	622,182.90	698.26	698.26	698.26
HV-(82)	1640	IP & Target	6,054,057.14	619,734.10	760.39	760.39	760.39
HV1 (81)	1643	IP	6,049,400.44	625,716.92	1392.88	1392.83	----
HV1 (81)	1644	Nail in Tree	6,049,400.53	625,710.84	1393.12	1391.92	----
HV1 (81)	1645	Nail in Tree	6,049,379.11	625,726.88	1390.98	1389.58	----
HV11 (81)	1647	Nail in Tree	6,050,801.14	613,762.03	1033.43	1032.33	----
HV11 (81)	1648	Nail in Tree	6,050,808.74	613,613.65	1033.80	1032.5	----
HV7 (81)	1649	IP	6,047,786.67	620,240.65	992.40	992.10	----
HV7 (81)	1650	Nail in Tree	6,047,811.51	620,251.45	992.93	991.63	----
HV32 (82)	2556	IP & Target	6,051,345.39	620,314.32	854.97	854.97	854.97
HV34 (82)	2559	IP & Target	6,052,368.55	620,890.76	779.92	779.92	779.92
HV-(82)	2565	IP & Target	6,055,706.54	621,332.30	676.72	676.72	676.72
DH201	2568	Nail & Target	6,054,644.06	620,815.84	718.94	717.47	717.47
DH202	2569	Nail & Target	6,054,191.98	621,050.24	758.23	758.23	758.23
HV36 (82)	2574	IP & Target	6,054,344.21	622,935.08	756.43	756.43	756.43
V18 (82)	2578	IP & Target	------	-----	561.35	561.35	561.35
HV21 (82)	2583	IP & Target	6,058,101.52	620,418.84	575.19	575.19	575.19
V28 (82)	2585	IP & Target	------	-----	575.74	575.48	575.48

CROWS NEST RESOURCES LIMITED

TELKWA PROJECT

CO-ORDINATES OF 1981 and 1982 TARGETS AND PHOTO CONTROL POINTS

SURVEYED: 14-20 July 1981
26 July - 2 Aug 1982
7 - 21 Sept 1982

NOTE: ELEVATIONS are on Geodetic Datum and are derived by reciprocal Trigonometric levelling from bench marks 79HA 362,364,366,369,372, and 244A

CO-ORDINATES are on UTM (Zone 9) grid and are derived from Government Stations "AMIGO", "BLITZEN", "BULKLEY", "CREEK", "MUCHO", "PABLO", "P.CON.18", "POWER", & "TACK"

NOVEMBER 3, 1982

D.E. Watson B.C.L.S.

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* Denotes holes tied by CNRL Geologists

DRILL HOLE	Coalicenc	TAG #	NORTHING	EASTING	TAG ELEVATION	GROUND ELEVATION
233	3710	2786	6,054,269.52	619,255.17	770.58	770.2
234	3710	2856	6,054,451.59	619,710.37		751.2
235	OOFH	2837	6,053,794.11	622,069.14	783.53	782.9
236	3876	2922	6,054,776.68	619,821.44	733.79	733.1
237	OOFH	2917	6,054,858.19	619,986.87	731.22	730.2
238	3876	2943	6,053,800.46	621,608.64	784.80	783.6
239	OOFH	2906	6,055,035.62	620,020.20	726.65	725.6
240	OOFH	2898	6,055,452.68	620,033.61	712.03	711.2
241	OOFH	2861	6,053,154.82	621,253.79	817.52	816.6
242	OOFH	2900	6,055,016.50	619,768.95	733.58	732.5
243	OOFH	2862	6,053,108.269	621,396.46	829.47	828.5
244	3877	2866	6,052,607.78	621,533.20	839.70	838.8
245	3876	2863	6,053,094.32	621,649.97	859.91	859.1
246	3877	2868	6,052,344.83	621,653.55	840.28	840.3
247	[illegible]	2864	6,053,110.32	621,870.18	861.25	860.2
248	3877	2869	6,052,041.16	621,840.70	852.22	852.2
249	3876	2865	6,053,128.79	622,109.17	868.50	867.5
250	3877	2873	6,052,083.16	622,070.54	868.74	867.8
251	[illegible]	2890	6,052,867.54	621,583.54	871.90	871.9
252	[illegible]	2876	6,052,072.79	622,346.72	886.99	887.0
253	[illegible]	2889	6,052,592.31	622,276.44	903.34	903.3
254	3876	2953	6,053,842.75	622,467.96	784.94	784.9
255	3876	3035	6,053,469.29	621,656.57	802.29	802.3
256	3877	3189	6,052,584.50	622,016.71	891.29	890.3
257	OOFH	3043	6,054,640.01	621,141.42	730.15	728.6
259	OOFH	3053	6,054,410.46	621,075.47	747.12	747.1
260	OOFH	3072	6,055,019.04	621,019.44	697.49	696.5
261	[illegible]	3090	6,054,451.29	619,536.20	755.41	755.4
262	OOFH	3077	6,055,042.31	620,789.04	689.97	689.9
263	OOFH	4	6,055,520.00	620,745.0		680.0
264	OOFH	3081	6,055,486.97	621,256.86	688.99	688.9
265	3710	3034	6,054,626.39	619,687.97	737.32	737.3
*266	OOFH	5	6,055,282.0	620,670.0		688.0
*267	4271	7	6,054,091.28	619,565.22		762.25
*268	3709	8	6,054,395.93	621,643.33		745.2
*269	OOFH	2	6,052,240.0	620,775.0		814.0
*270	OOFH	3	6,052,615.00	620,525.00		804.5
*271	[illegible]	9	6,054,751.54	621,651.13		721.6
*272	[illegible]	6	6,055,142.0	621,633.0		707.5

PROPOSED DRILL HOLES (REFERENCE POINTS)

A	3095	6,054,794.40	619,515.89	735.88	734.8
	3096	6,054,789.71	619,544.99	735.64	734.4
B	3058	6,054,727.35	621,861.97	724.18	722.5
	3059	6,054,809.01	621,850.84	720.58	719.1
C	2927	6,052,394.74	621,873.53	858.69	857.2
	2928	6,052,365.20	621,856.39	857.10	855.8
D	2934	6,052,363.67	622,144.96	890.40	889.3
	2935	6,052,385.74	622,120.34	889.53	888.1
E	2938	6,052,330.09	622,367.50	900.87	899.4
	2939	6,052,355.58	622,395.87	901.14	899.9
F (July)	2845	6,052,929.99	622,103.21	894.65	892.7
	2846	6,052,911.14	622,083.15	896.37	895.2

TELKWA PROJECT

FINAL LIST OF DRILL HOLES

* Denotes holes tied by CNRL Geologists or Aero Geometrics

DRILL HOLE	TAG #	NORTHING	EASTING	TAG ELEVATION	GROUND ELEVATION
TW81R (101) 4271	1628	6,055,183.06	622,157.27	696.19	696.31
TW81R (104) OOFH	1601	6,054,097.77	621,352.98	767.55	767.52
TW81R (105) 3877	1604	6,052,692.25	621,675.84	860.34	860.33
TW81R (107) 3709	1642	6,054,078.26	619,774.33	760.60	760.60
TW81R (111)	1616	6,057,981.03	616,496.76	787.36	787.36
TW81R (112) 3876	1625	6,052,883.11	621,815.31	888.29	888.34
DC-81-D-101		6,028,816.50	610,885.53		1269.4
DC-81-D-102		6,031,723.93	611,604.50		1214.8
201 CL OOFH	2568	6,054,644.06	620,815.84	718.94	717.47
202 OOFH	2569	6,054,191.98	621,050.24	758.23	758.2
*203 4264	19	6,047,868.0	620,675.0		921.0
204 3877	2960	6,054,110.73	622,244.34	763.16	763.1
*205	14	6,048,358.0	620,667.0		955.0
*206 4264	15	6,048,779.0	620,279.0		979.0
*207 4264	20	6,049,330.0	620,137.0		962.0
208 OOFH	2714	6,053,663.89	620,971.55	785.81	785.8
209	2777	6,053,886.04	619,618.07	765.64	765.2
210 OOFH	2773	6,054,463.2	620,036.61	731.13	729.5
*211 4293	16	6,062,132.00	615,560.0		991.0
*212	18	6,061,020.0	615,370.0		907.0
213	3149	6,059,650.04	617,149.22	907.77	907.3
214	3155	6,059,806.12	618,179.73	866.34	866.5
*215	17	6,061,645.0	615,505.0		903.0
216	3163	6,059,476.90	618,656.75	786.19	786.3
217	3126	6,059,047.89	618,467.99	766.92	766.9
218	3158	6,059,835.33	618,791.87	799.62	799.60
219 3876	2677	6,054,106.28	621,616.72	760.66	760.7
220	2675	6,053,784.85	621,378.68	785.50	785.5
221	113	6,054,402.98	620,680.55	724.3	723.2
222	21	6,054,189.20	621,049.60		758.3
223 OOFH	2721	6,053,833.24	621,047.29	777.92	777.9
224 OOFH	2701	6,054,054.77	620,653.00	733.84	732.6
225 OOFH	2816	6,053,453.52	621,252.19	793.96	794.0
226	2779	6,054,287.25	619,764.13	762.10	762.1
227	2817	6,053,449.46	621,386.73	798.24	797.3
228	2774	6,054,243.75	619,938.48	750.63	750.6
229 OOFH	2794	6,053,455.63	621,896.57	806.72	806.7
*230 3710	1	6,053,895.00	619,790.00		764.0
231 3710	2778	6,054,312.52	619,511.67	763.03	762.2
232 3876	2812	6,053,797.05	621,777.74	781.09	779.1

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CROWS NEST RESOURCES LIMITED

TELKWA PROJECT

CO-ORDINATES OF 1981 & 1982 DRILL HOLES LIST

SURVEYED: 14-20 July 1981
26 July - 2 Aug 1982
7 - 21 Sept 1982

NOTE: ELEVATIONS are on Geodetic Datum and are derived by reciprocal Trigonometric levelling from bench marks 79HA 362,364,366.369,372, and 244A

CO-ORDINATES are on UTM (Zone 9) grid and are derived from Government Stations "AMIGO", "BLITZEN", "BULKLEY", "CREEK", "MUCHO", "PABLO", "P.CON.18", "POWER", & "TACK"

NOVEMBER 10, 1982

D.E. Watson B.C.L.S.

FILE #4275