(35316) Wt.46435/242 120,000 3/48 A.& E.W.Ltd Gp.685

O.S 355.

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse Traverse D, *Computer* ..... *Date* .....

Total Length 81.8 *Error* .....

BEARINGS

1

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610.40 200.70

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
12		-10'30				+	+		
D49	1 30		1 00	1.81		01745	99985	610.44	202.57
D48	36 00		25 30	3.10		43051	90259	611.81	205.33
D47	14 00		03 30	6.31		06105	99813	612.23	211.65
D46	82 30		72 00	1.30		95106	30902	613.09	212.05
D45	96 30		86 00	2.79		99756	06976	615.89	212.25
D44	167 30		157 00	5.77		39073	92050	619.19	207.96
D43	133 00		122 30	3.02		84339	53730	620.75	205.35
D42	151 00		140 30	4.92		63608	77162	623.92	201.57
D41	132 00		121 30	9.33		85264	52250	631.95	196.73
D40	158 00		147 30	13.70		53730	84339	639.41	185.22
D39	181 00		170 30	10.99		16505	98629	640.29	174.41
D38	277 00		266 30	4.84		99813	06105	636.50	173.11

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
D38 ↓ D37	0		0						
						−	−	5.12	3.06
D36	243 00		232 30	1.75′		79335	60876	634~~62~~	172~~84~~
						+	−	85′	8.8
D35′	157 30		147 00	12.19		54464	83867	641.~~26~~	162.~~67~~
								641.85	162.88
								+.59	+.26

SOLUTION OF UP-STATIONS, EXTRA BEARINGS, ETC.

(35316) Wt.46435/212 120,000 3/48 A.& E.W.Ltd. Gp.685

O.S 355.

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse..... *Computer*..... *Date*.....

Total Length..... *Error*.....

BEARINGS

1 Sheet 1.

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Station	Bearing ° VA	Corr.	Corrected Bearing	Distance W	diff. V.A. ft	Sine	Cosine	E. 753.8	N.
						Sign from VA			
C12 - D2	-18			7.62	25.00	− 30902	95106	746.12	7.25
D2 - D3	+90			2.44	8.00	+ 100000	100000	754.12	0
D3 - D4	+01			6.32	20.75	+ 01745	99985	754.46	6.32
D4 - D5	-17			4.72	15.50	− 29237	95630	749.9 50.1	4.51
D5 - D6	+10			3.66	12.00	+ 17365	98481	752.0 3	3.60
D6 - D7	+23			6.40	21.00	+ 39073	92050	760.2 5	5.89
D7 - D8	+90			3.05	10.00	+ 100000	100000	770.26	0
D8 - D9	+12			7.47	24.50	+ 20791	97815	775.37	7.31
D9 - D10	+38			2.74	9.00	+ 61566	78801	780.46 1.3	2.16
D10 - D11	-00½			2.36	7.75	− 00873	99996	780.46 1.3	2.36
D11 - D12	-11			3.96	13.00	− 19081	98163	778.3 9	3.89
D12 - D13	-22			3.28	10.75	− 37461	92718	774.3 9	3.04
D13 - D14	-01			3.20	10.50	− 01745	99985	774.1 8	3.20
D14 - D15	-07			2.82	9.25	− 12187	99255	772.9 3.6	2.80

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
						+		4.5	
D15 - D16	+ 03½			3.73	12.25′	06105	99813	773-7	3.72
						+		5.6	
D16 - D17	+ 03½			5.64	18.50	06105	99813	774-8	5.63
						−		8.3	
D17 - D18	− 29			4.65	15.25′	48481	87462	767-4	4.07
						−		1.3	
D18 - D19	− 19½			6.48	21.25′	33381	94264	760-3	6.11
						−		9.2	
D19 - D20	− 17			2.21	7.25′	29237	95630	758-2	2.11
						+		2.4	
D20 - D21	+ 31			1.83	6.00	51504	85717	761-3	1.57
						+		4.2	
D21 - D22	+ 13			2.44	8.00	22495	97437	763-1	2.38
						−		4.3	
D22 - D23	− 90			3.05	10.00	1.00000	00000	753-1	0
						−		4.0	
D23 - D24	− 02			2.90	9.50	03490	99939	752-8	2.90
						−		4.0	
D24 - D25	− 01			1.07	3.50	01745	99985	752-7	1.07
						+		5.4	
D25 - D26	+ 03			7.85	25.75′	05234	99863	754-1	7.84
						−		40.0	
D26 - D27	− 35			8.23	27.00	57358	81915	738-6	6.74
						−		20.2	
D27 - D28	− 49			8.00	26.25′	75471	65606	718-8	5.25′

SOLUTION OF UP-STATIONS, EXTRA BEARINGS, ETC.

(35316) Wt.46435/242 120,000 3/48 A.& E.W.Ltd. Gp.685

O.S 355.

TRAVERSE COMPUTATION – MACHINE METHOD

Name of Traverse..... *Computer*..... *Date*.....

Total Length..... *Error*.....

BEARINGS

1 Sheet 2.

2

3

4

Station	Bearing ° V.A.	Corr.	Corrected Bearing	Distance m	Cos. V.A.	Sine	Cosine	E.	N.
D28 - D29	- 12			13.11	43.00	− 20791	97815	11 3 709.8	12.82
D29 - D30	- 14			4.57	15.00	− 24192	97030	7.7 706.2	4.43
D30 - D31	- 22			5.49	18.00	− 37461	92718	701 0 699.4	5.09
D31 - D32	- 53			5.56	18.25	− 79864	60182	6.5 684.9	3.35
D32 - D33	- 24½			4.27	14.00	− 41469	90996	80.8 679.1	3.89
D33 - D34	+ 07			7.32	24.00	+ 12187	99255	93.7 682.0	7.27
D34 - D35	- 29½			18.75	61.50	− 49242	87036	653.5 651.7	16.32
D35 - D36	+ 11			12.42	40.75	+ 661.2 19081	D 98163	654.1 661.9 2.43	12.19
D36 - D37	00			1.75	5.75	661.2 00000	1 00000	4 661.9 2.3	1.75
D37 - D38	+ 90			3.28	10.75	+ 672 0 1.00000	1 00000	3.0 672.6	0
D38 - D39	+ 16			5.03	16.50	+ 676 6 27564	2 96126	6 677.2 76	4.84
D39 - D40	+ 13			11.28	37.00	+ 684 9 22495	2 97437	685.8	10.99
D40 - D41	+ 26			15.24	50.00	+ 706.8 43837	2 89879	707.4	13.70
D41 - D42	+ 37			11.68	38.33	+ 729 9 60182	3 79864	730.8	9.33

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
D42 - D43	+ 06½			4.95	16.25	+ 731.7 11320	3 99357	732.3	4.92
D43 - D44	+ 08½			3.05	10.00	+ 733.2 14781	4 98902	4.0 733.7	3.02
D44 - D45	+ 16½			6.02	19.75	+ 738.8 28402	4 95882	9.6 739.2	5.77
D45 - D46	+ 24			3.05	10.00	+ 742.9 40674	4 91335	6 743.5	2.79
D46 - D47	+ 60			2.59	8.50	+ 750.2 86603	5 50000	9 750.8	1.30
D47 - D48	- 18			6.63	21.75	− 743.5 30902	5 95106	2 744.10	6.31
D48 - D49	+ 41			4.11	13.50	+ 752.4 65606	6 75471	753.0	3.10
D49 - C12	+ 08			1.83	6.00	+ 753.2 13917	6 99027	753.8	1.81

SOLUTION OF UP-STATIONS, EXTRA BEARINGS, ETC.

O.S. 337

TRAVERSE ABSTRACT Traverse Traverse D1

Date..... Angle Book..... Sketch & Details of C. of S. Pegs on Reverse Side

Station	To		1st Round ° ′ ″	2nd	Mean ° ′ ″	Measured Dist.	R.P. Check	Vertical Angle ° ′ ″
35	▲Stn 36		337 30			40.75	↑	11 00
36	37		63 00			5.75	—	0 00
37	▲ 38	B11	0			10.75	↑	90 00
38	▲ 39	B10	97 00	277/0		16.50	↑	16 00
39	40		91 00	181		37.00	↑	13 00
40	41		338			50.00	↑	26 00
41	42		312 00			38.33	↑	37 00
42	43		331			16.25	↑	06 30
43	44		313			10.00	↑	08 30
44	▲ 45	B3	347 30			19.75	↑	16 30
45	▲ 46	B2	276 30			10.00	↑	24 00
46	▲ 47		262 30			8.50	↑	60 00
47	48		194			21.75	↓	18 00
48	49		216			13.50	↑	41 00
49	▲ △C 12	? 11 1/2 A8	191 30			86.00	↑	8 00

O.S.O. 45,500 10-46

Observer..... Abstracted by..... Length of Tapes .....

O.S. 337

TRAVERSE ABSTRACT

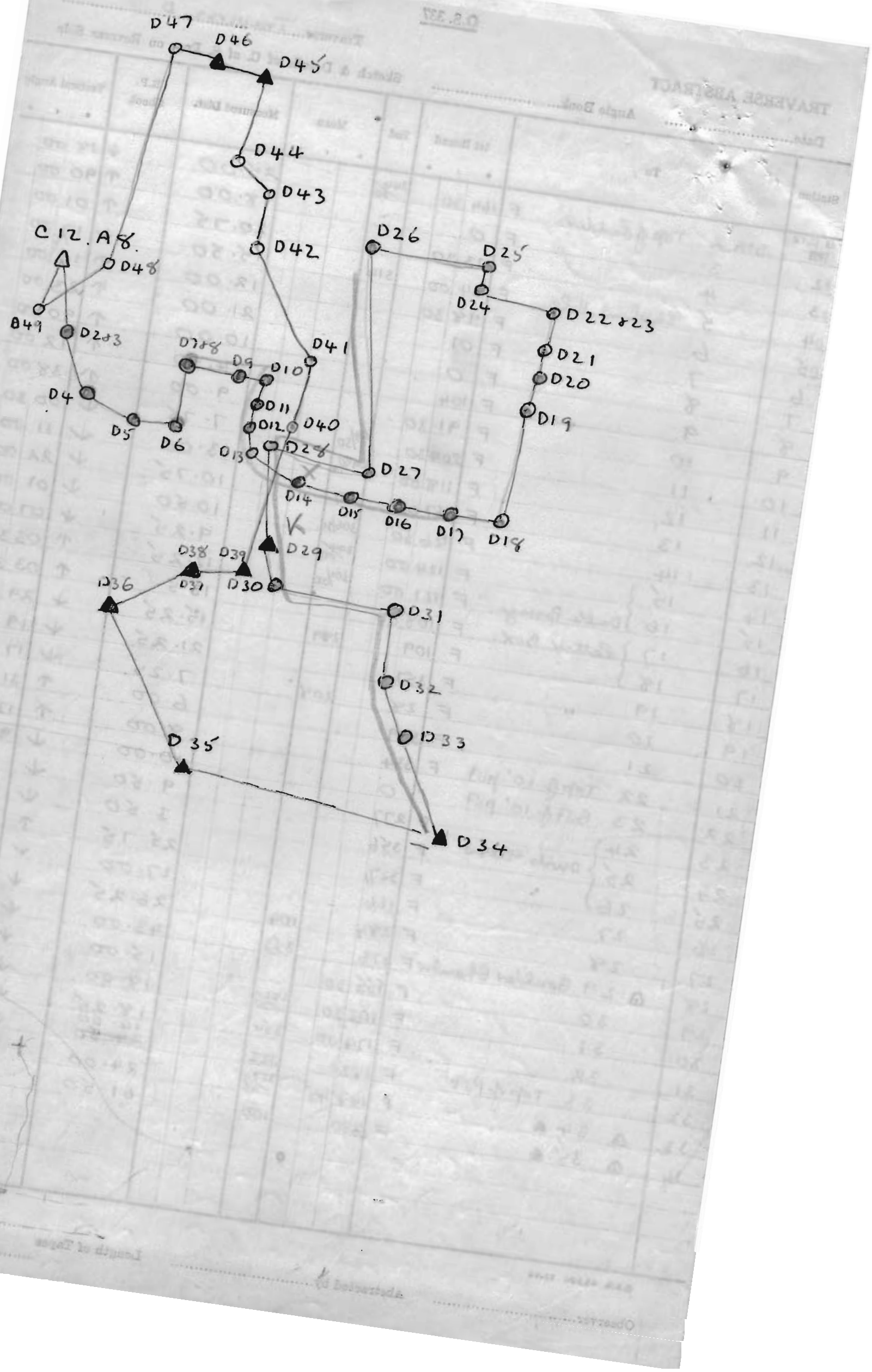
Traverse.... Traverse D

Date..... Angle Book..... Sketch & Details of C. of S. Pegs on Reverse Side

Station	To		1st Round ° ′ ″	2nd	Mean ° ′ ″	Measured Dist.	R.P. Check	Vertical Angle ° ′ ″
B C.12								
B	Stn 2 Top of Ladder.	F	164 30	344/30		25.00	↓	18 00
D2	3	F	0			8.00	↑	90 00
D3	4	F	173 30			20.75	↑	01 00
D4	5 Elephant Hole	F	134 00	314		15.50	↓	17 00
D5	6	F	98 30			12.00	↑	10 00
6	7	F	01			21.00	↑	23 00
7	8	F	0			10.00	↑	90 00
8	9	F	104			24.50	↑	12 00
9	10	F	91 30			9.00	↑	38 00
10	11	F	204 30	24/30		7.75	↓	00 30
11	12	F	118 00	298/00		13.00	↓	11 00
12	13	F	167 00	347		10.75	↓	22 00
13	14	F	126 30	306/30		10.50	↓	01 00
14	15	F	124 00	304/00		9.25	↓	07 00
15	16 Double Passage.	F	121 00	301/00		12.25	↑	03 30
16	17 Letter Box.	F	108 00			18.5	↑	03 30
17	18	F	109	289		15.25	↓	29 00
18	19	F	357			21.25	↓	19 30
19	20	F	28	208		7.25	↓	17 00
20	21	F	349			6.00	↑	31 00
21	22 Top of 10' post	F	334			8.00	↑	13 00
22	23 Bot of 10' post		0			10.00	↓	90 00
23	24	F	271			9.50	↓	2 00
24	25 Devils Elbow	F	356			3.50	↓	1 00
25	26	F	327			25.75	↑	3 00
26	27	F	166			27.00	↓	35 00
27	28	F	284	104		26.25	↓	49 00
28	△ 29 Boulder Shambles	F	173	353		43.00	↓	12 00
29	30	F	155 30			15.00	↓	14 00
30	31	F	102 30	282/30		18.00	↓	22 00
31	32	F	174 00	354		18.25	↓	53 00
32	33 Top of Post	F	142	322		~~24.50~~ 14.00	↓	24 30
33	△ 34 ▲	F	147 45	327/45		24.00	↑	07 00
34	△ 35 ▲	F	280	100		61.50	↓	29 30

O.S.O. 45,500 10-46

Observer..... Abstracted by..... Length of Tapes .....


D47
D46
D45
D44
D43
D42
C12. A8.
D48
B49
D2&3
D7&8
D9
D10
D41
D4
D5
D6
D11
D12.
D40
D13
D28
D27
D14
D15
D16
D17
D18
D38
D39
D29
D36
D37
D30
D31
D32
D33
D35
D34
D26
D25
D24
D22&23
D21
D20
D19

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse D/X Traverse *Computer* *Date*

Total Length 152.0 *Error*

BEARINGS

1

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610.40 200.70

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
C 12						+	−		3
D 2				7.25		43837	89879	613.58	15 194.18
~~D3~~									
D 4				6.32		+ 29237	− 95630	615.43	5 09 188.14
D 5				4.51		+ 83389	− 55194	619.19	7 58 185.65
D 6				3.60		+ 99939	+ 03490	622.78	8 70 185.78
D 7/8				5.89		− 16505	+ 98629	621.81	10 49 191.59
X 5				6.96		+ 99994	− 01105	628.77	13 38 191.51
X 4				2.70		+ 80247	− 59665	630.94	14 76 189.90
X 3				3.72		+ 84214	− 53926	634.07	15 74 187.89
X 2				4.11		+ 75318	− 65781	637.17	17 02 185.79
X 1				5.19		+ 62751	− 77861	640.42	19 0.96 181.15
D 17				7.99		+ 98800	− 15442	648.32	22 69 179.91
D 18				4.07		+ 98902	− 14781	652.34	23 08 179.31

(36232) Wt.20773/261 80,000 8/48 A.& E.W.Ltd. Gp.685

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
		-10° 22'				−	+	621·81	191·49
D/78 ✱ -X6a	312 00		301 38	7·52		85142	52448	615·41	195·43
								630·94	189·76
X4 - X4a	350 00		339 38	2·16		− 34803	+ 93748	630·19	191·10
X4 - X4B	338 00		327 38	4·98		− 53583	+ 84433	628·27	193·28
X4C	348 00		337 38	7·19		− 38053	+ 92477	625·54	199·93
X4D	338 00		327 38	4·51		− 53583	+ 84433	623·12	203·74

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse TRAVERSE D. *Computer* ..... *Date* .....

Total Length ..... *Error* .....

BEARINGS

1

2

3

4

610·40 200·70

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
AC 12						+	−		
D 2	164° 30′	-10 30	154 00	7·25		43837	89879	613·58	194·18
D 3	00		349 30	0					
						+	−		
D 4	173 30		163 00	6·32		29237	95630	615·43	188·14
						+	−		
D 5	134 00		123 30	4·51		83389	55194	619·19	185·65
						+	+		
D 6	98 30		88 00	3·60		99939	03490	622·78	185·78
						−	+		
D 7	01 00		350 30	5·89		01745	98629	621·90	191·90
							+		
D 8	00		349 30	0		18224	−		
						+	−		
D 9	104 00		93 30	7·31		99813	06105	629·49	191·14
						+	+		
D 10	91 30		81 00	2·16		98769	15643	631·27	191·28
						−	−		
D 11	204 30		194 00	2·36		24192	97030	630·67	189·17
						+	−		
D 12	118 00		107 30	3·89		95372	30071	634·38	188·02
						+	−		
D 13	167 00		156 30	3·04		39875	91706	635·59	185·23
						+	−		
D 14	126 30		116 00	3·20		89879	43837	638·47	183·55
			113			*	−		
						55194	83389		
D 15	124 00		113 30	2·80		91706	39875	637·01	181·47
						+	−		
D 16	121 00		110 30	3·72		93667	35021	640·50	180·10
						+	−		
D 17	108 00		97 30	5·63		99144	13053	646·08	179·37
						+	−	+2·52	+·23
D 18	109 00		98 30	4·07		98902	14781	652·62	179·00

(36232) Wt.20773/261 80,000 8/48 A.& E.W.Ltd. Gp.685

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
D18		-10'30				−	+	651·80	184·94
D19	357 00		346 30	6.11		23345	97237	650·92	185·35
D20	28 00		17 30	2.11		+ 30071	+ 95372	651·55	186·95
D21	349 00		338 30	1.57		− 36650	+ 93042	650·98	188·73
D22	334 00		323 30	2.38		− 59482	+ 80386	649·56	190·64
D23	00 00		0	0					
D24	277 00		266 30	2.90		− 99813	− 06105	646·67	190·46
D25	356 00		345 30	1.07		− 25037	+ 96815	646·40	191·50
D26	327 00		316 30	7.84		− 68835	+ 72537	641·00	197·18
D27	166 00		155 30	6.74		+ 41469	− 90996	643·80	191·05
D28	284 00		273 30	5.25		− 99813	+ 06105	638·56	191·37
D29	173 00		162 30	12.82		+ 30071	− 95372	642·41	179·15
D30	155 30		145 00	4.43		+ 57358	− 81915	644·95	175·52
D31	102 30		92 00	5.09		+ 99939	− 03490	650·04	175·34
D32	174 00		163 30	3.35		+ 28402	− 95882	650·99	172·13
D33	142 00		131 30	3.89		+ 74896	− 66262	653·90	169·55
D34	147 45		137 15	7.27		− 67880	− 73432	658·84	164·21
D35	280 00		267 24 269 30	17.00 16.32		− 99897 99996	− 04536 00873	641·86	163·44
								1·85	2·88
									−0·56

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse Boulder Chamber *Computer* ..... *Date* .....

Total Length ..... *Error* .....

BEARINGS

1

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3

4

Station	~~Bearing~~ Va	Corr.	Corrected Bearing	Distance ++	~~Cos.~~ V.A.	Sine	Cosine	E.	N.
D26 a	+26			13.81 ~~14.00~~	4.21	+ 43837	89879		3.78
D26 b	0			18.50 25'	5.56	1			15.56
D26 c	0			9.87 ~~10.00~~	3.01				3.01
D26 d	0			12.83 ~~13.00~~	3.91				3.91
D26 e	0			7.89 ~~8.00~~	2.40				2.40
D26 f	+5'			57' 13.73	4.14	+ 08716	99619	755.4 +1.18 756.6	4.12
f - g	+23			41.44 ~~42.00~~	12.63	+ 39073 ~~3746~~	92050	+17.37 772.8	11.63
g - h	+22			9.87 ~~10.00~~	3.01	+ 37461	92718	+21.07 776.5	2.79
g - j	+12			6.91 ~~7.00~~	2.11	+ 20791	97815	774.2	2.06
j - k	-23			9.87 ~~10.00~~	3.01	— 39073	92050	770	2.77
k - a	-20			23.68 ~~24.00~~	7.22	— 34202	93969		6.78
k - m	+25'			19.73 ~~20.00~~	6.01	+ 42262	90631		5.45
k - n	+35'			29.60 ~~30.00~~	9.02	+ 57358	81915	787	7.39

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse Boundary Chamber. *Computer* ..... *Date* .....

Total Length 31 *Error* .....

BEARINGS

1

2

3

4

213 871

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E. 641·077	N. 196·979
D26		-1020				+	+	8 4 53 76	3 80 91
f	54°	~~433~~	43 38	4·12		69004	72377	643 ~~84~~	199·~~86~~
						—	+	34 9·11 34	14 33 ~~44~~
f – g	344°		333 38	11·63		44411	89597	638 ~~68~~	210·~~30~~
						—	—	38 8 46 ~~69~~	16 39 ~~50~~
g – J	208°		197 38	2·06		30292	95301	638·~~05~~	208·34
						—	—	43 7·02 ~~25~~	18 00 6·11
J – K	220°		209 38	2·77		49445	86921	636·68	205·93
						+	—	58 89 ~~12~~	24 00 200. ~~10~~
K – a	164°		153 38	6·78		44411	89597	639·~~70~~	199·~~86~~
						+	—	62 77 ~~00~~	27 80 ~~90~~
a – D26	159°		148 38	3·78		52051	85385	641·66	196·63
								~~·00~~	·90
								—·66	+·27
						+	+	40.49 ~~8·95~~	76
g – h	40		29 38	2·79		49445	86921	639·~~72~~	212·~~87~~
						+	—	7·01	4·92
D26 – B	120		109 38	5·56		94186	33600	646 ~~24~~	195·~~03~~
						—	—	1·16	84
D26 – C	202		191 38	3·01		20165	97946	640 ~~39~~	193·~~95~~
						+	+	5·24	59
D26 – D	73		62 38	3·91		88808	45968	644 ~~47~~	198·70
						—	—	9·64	69
D26 – e	253		242 38	2·40		88806	45968	638 ~~87~~	195·80
						+	+		
~~g – h~~	40		~~29 38~~	2·79					
						—	+	87	44
K – m	335		324 38	5·45		57881	81546	633·~~10~~	210·~~55~~
						—	+	30.60	
K – n	310		299 38	7·39		46921	49445	629·~~83~~	65 209·76

26	a	+26	13.83	9 6418 1.1899	0.7817	6.0
a	K	+20	23.7	9 5341 1.3747	0.9088	8.11
K	J	+23	9.9	0.9956 9.5915	0.5871	3.87
J	G	−12	6.9	9.3179 0.8388	0.1567	18.0 1.4
G	F	−23	41.4	9.5919 1.6170	1.2089	4 16.
F	26	−5	13.6	8.9403 1.1335	0.0738	1.19

D 26 755.4

+6.05

a 761.45 +12 761.6

+8.11

K 769.56 +24 769.8

J +3.87

773.43 +36 773.8

−1.43

G 772.00 +48 772.5

−16.17

F 755.83 +60 756.4

−1.19

26 754.64 +72

L

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse L *Computer* *Date*

Total Length *Error*

BEARINGS

1

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E. 648.32	N. 179.91
D17		−10 22				+	±		
D18? L1	11 ~~299~~ 0		108 ~~288~~ 38	3.87		94758 −	31951 +	651.99	178.65
L2	354 30		354 08	5.38		10221 +	99476 +	651.44	184 03
L3	15 00		04 38	3.19		08078 −	99673 +	651.69	187.20
L4	355 30		345 08	1.80		25657 −	96653 +	651.23	188.94
(D22) L5	328 45		318 23	2.07		66414	74760	649.85	190.49
(D23) L6									
						−	+		
L7	286 30		276 08	2.558		99428 −	10684 +	647.29	190.77
L8	343 30		333 08	1.15		45192 −	89206 +	646.77	191.79
D26	325 30		315 08	7.61		70546	70875	641.40	197.19

K

O.S. 337

TRAVERSE ABSTRACT

Town G.B.

Traverse K. (A 35-34-D.26)

Date 10.9.49. Angle Book

Sketch, Distances, etc., on Reverse Side

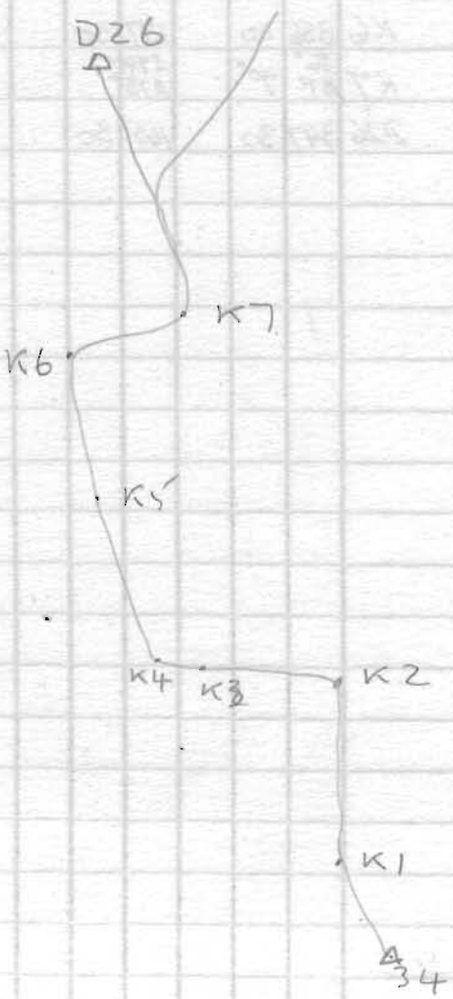
Station	To	1st Round ° ′ ″	2nd	3rd	4th	5th	6th	Mean Dist. ° ′ ″	R.P. Dist.	R.P. Check
										VA.
D.34	Ro. D.35	~~12~~								
	K1	52° 12′ 00	54°	48′				53 30 00	21 ~~22~~·167′	+41°27′
K1	K2	329 00	150	00				329 30	30·750′	+5°
K2	K3	279 30	100	00				279 45	13·750′	+20°
K3	K4	305 30	128°	127°	129°			307 22	8·333′	+11°
K4	K5	352 00	172	00				352 00	30·835′	+4°
K5	K6	356 00	177	30				356 45	19·167′	+8°30′
K6	K7	86° 87° 90°	274° 275°					90 24	28·500′	+55°
K7	D26	347 30	165	30				346 30	24·000	+32°

(*35202) Wt.44019/239 25,000 3/48 A.& E.W.Ltd. Gp.685
(*36224) Wt.20773/261 130,000 8/48 " "

Observer

Abstracted by

Leg	Distances			Tape No.	Temp.			V.A.			Tapes	
	Feet	Metres	Mean		Ft.	M	Mean	°	′	″	No	Value



K

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse..... *Computer*..... *Date*.....

Total Length..... *Error*.....

BEARINGS

1

2

3

4

641.8 196.8

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
D26			-10 22			+	−	641.80	196.80
K7	166 30		156 08	6.15		40461 ~~23345~~	91449 ~~97237~~	643.89	191.59
K6	270 ~~90~~ 24		260 02	4.94		− 98491	− 17308	639.02	190.71
K5	176 45		166 23	5.73		+ 23542	− 97189	640.37	185.14
K4	172 ~~352~~ 00		161 ~~341~~ 38	9.30		+ 31510	− 94906	643.20	176.37
K3	127 ~~307~~ 22		117 ~~297~~ 00	2.47		+ 89101	− 45399	645.60	175.19
K2	99 ~~279~~ 45		89 ~~269~~ 23	3.91		+ 99994	+ 01096	649.41	175.23
K1	149 ~~329~~ 30		139 ~~319~~ 08	9.25		+ 65430	− 75623	655.47	168.24
D34	155 30		145 08	4.77		+ 57167	− 82048	658.19	164.33
D35				14.00		− 99897	− 04536	641.21	163.56
								.85 / +.64	2.88 / +.32 / −.68
								6	

O.S. 337

TRAVERSE ABSTRACT

Town G.B.

Traverse K. (Δ35-34-D26)

Date 10 Sept Angle Book Sketch, Distances, etc., on Reverse Side

Station	To	1st Round Forward	2nd	3rd Back	4th	5th	6th	Mean Dist.	R.P. Dist. V.A.	R.P. Check
035.	34.	97·7 ✓		277·0 (278·0).						
D34	K1. (Astro Compass)									
H.I. T.A 2'6".	35	307·6	127·6							
	K1	255·4	72·8					21' 2"	+40.9	+42.
	35	307·6.	127·6.							
Back Bearing K1 → 34		155·5° ?								
K1	K2.	329		150				30' 9"	+5	
2	3	279·5		100				13' 9"	+20	
3	4	305·5		128	129	127		8' 4"	+11	
4	5	352		172				30' 10"	+4	
5	6	356		177·5				19' 2"	+8·5	
6	7	86 27 90 ?		274	275 ✓			28' 6"	+55	
7	D26.	347·5		165·5				24' 0"	+32.	
	Detail Station	Left	Right		Floor			Roof		
	K1	3	0		2½					
	K2	1½	1½		4			10		
	3	0	2½		5			6		
	4	2	4		6			10		
	5	3	2		2			25		
	6	2	4		2½			35		
	7	4	4		10			10		

(*35202) Wt.44019/239 25,000 3/48 A.& E.W.Ltd. Gp.685
(*36224) Wt.20773/261 130,000 8/48 " "

Tape shrinkage 1st 50' 5ins 2nd 50' 1in.

Observer Abstracted by

DXLK

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse D X L K Trav. *Computer* *Date*

Total Length 149 *Error*

BEARINGS

1

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	~~Sine~~	Cosine	E.	N.
					ft	Cos Va			
D2				7.25				613.61	194.15
D4				6.32				615.48	188.08
D5				4.51				619.27	185.57
D6				3.60				622.87	185.68
D7/8				5.89				621.93	191.46
X5 ~~D3~~				6.96				628.92	191.35
X4				2.70				630.10	189.73
X3				3.72				634.25	187.70
X2				4.11				637.37	185.98
X1				5.19				640.64	181.92
D1				7.99				648.57	179.64
L1				3.87				652.26	178.38
L2				5.38				651.73	184.03
L3				3.19				651.99	187.87
L4				1.80				651.54	188.61
L5				2.07				650.17	190.15
L6									

(36232) Wt.20773/261 80,000 8/48 A.& E.W.Ltd. Gp.685

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
								33 62	35 42
L7				2.58				647.29	190.77
								34 701	38 43
L8				1.15				646 77	191.79
								37 77	40 6.79
D26				7.61				641.40	197.19
								40 4.29	42 44
K7			⊕	6.15				643.89	191.56
								42 44	45 26
K6				4.94				639.02	190.71
								45 82	47 4.67
K5				5.73				640.37	185.14
								48 78	51 5.81
K4				9.30				643.30	176.32
								49 99	52 4.67
K3				2.47				645.50	175.19
								51 92	54 4.70
K2				3.91				649.41	175.24
								55 6.02	58 7.66
K1				9.25				655.47	168.24
								57 76	60 3.73
D34				4.77				656.19	164.33
								64 85	68 2.88
D35				17.00				641.21	163.56
								1.85	2.88
								+.64	−.68

DKLX

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse DXLK TRAV. *Computer* DS *Date*

Total Length *Error*

BEARINGS

1

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E. 753.8	N. CORRECTED.
C12								04 .03	
D2								746.~~87~~	746.03
D3								754.07	753.99
D4								754.44	754.32
D5								749.90	749.74
D6								751.99	751.79
D7/8								760.19	759.95
D8								770.19	769.91
X5								774.22	773.89
X4								783.72	783.45
X3								779.04	778.63
X2								774.53	774.08
X1								773.93	773.54
D17								774.85	774.32
L1								768.24	767.67
L2								759.81	759.20
L3								757.59	756.94
L4								754.52	753.83
L5								754.99	754.26
L6								747.76	746.99

(36232) Wt.20773/261 80,000 8/48 A.& E.W.Ltd. Gp.685

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N. CORRECTED
L7								746.43	745.62
L8								746.49	745.64
D26								749.56	748.67
K7								736.95	736.02
K6								713.80	712.82
K5								710.99	709.97
K4								708.85	707.79
K3								707.28	706.18
K2								702.61	701.47
K1								699.95	698.77
D34								686.06	684.84
D35								655.78	654.52
								654.5	
								1.3	

DXLK O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse L *Computer* *Date*

Total Length *Error*

BEARINGS

1

2

3

4

Station	~~Bearing~~ Va	Corr.	Corrected Bearing	Distance tt	~~Cos.~~ V.A. M	Sine	Cosine	E.	N.
						−		775·6.	
D17-L1	−27 30			14·~~50~~ 31	4·36	46175	88701	12. ·87 768·99	3·87
L2	−25 30			19·~~83~~ 57	5·96	− 43051	90259	24 ·33 760·57	5·38
L3	−12 00			10·~~83~~ 69	3·26	− 20791	97815	35 1·99 758·34	3·19
L4	+27 30			6·~~75~~ 66	2·03	+ 46175	88701	47 0·95 761·42	1·80
L5	+4 00			6·~~92~~ 83	2·08	+ 06976	99756	59. ·31 761·90	2·07
L6	−90 00			7·~~33~~ 23	2·20	~~1·0 15643~~	~~0 98769~~	71 3·96 754·67	~~2·58~~
L7	−9 00			8·~~67~~ 55	2·61	− 15643	98769	82. 2·51 753·33	2·58
L8	+1 00			3·~~83~~ 78	1·15	+ 01745	99985	94 2·35 753·39	1·15
D26	+7 00			25·~~50~~ 16	7·67	+ 12187	99255	106. 5·4 756·46	7·61
								755·4 −1·06.	

D X L K

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse K. *Computer* ..... *Date* .....

Total Length ..... *Error* .....

BEARINGS

1

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance ft	~~Cos.~~ V.A. M	Sine	Cosine	E.	N.
				20.99		+ 66197	74953	13.89	4.80
D34-K1	+41° 27'			21.167	6.40	66632	74567	+13.99	4.77
				49		+		55	
K1-K2	+ 5°			30.75	9.29	08716	99619	16.65	9.25
				64		+		22	
K2-K3	+20°			13.75	4.16	34202	93969	21.71	3.91
				26		+		79	
K3-K4	+ 11°			8.33	2.52	19081	98163	22.89	2.47
				57		+		24 93	
K4-K5	+ 4°			30.83	9.32	06976	99756	25.02	9.30
				01		+		74	
K5-K6	+ 8° 30'			19.17	5.79	14781	98902	27.83	5.73
				26		+		89	
K6-K7	+55°			28.50	8.61	81915	57358	50.98	4.94
				23.80		+		50	
K7-D26	+32°			24.00	7.25	52992	84805	63.59	6.15

D X L K

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse K *Computer* *Date*

Total Length *Error*

BEARINGS

1

2

3

D34 662.12

4

D35' 61.5' 49242

Station	Bearing Va	Corr.	Corrected Bearing	Distance ft	Cos. V.A. M	Sine	Cosine	E. 683.80	N. HD
D34						+		697.6	
K1	+41° 27			20.99 21.67	6.40	66197	74953	669.9	4.80
K1 K2	+5			49 30.75	9.29	+ 08716	99619	700.4 672.6	9.25
K2 K3	+20			64 13.75	4.16	+ 34202	93969	705.0 677.2	3.91
K3 K4	+11			26 8.33	2.52	+ 19081	98163	706.6 678.8	2.47
K4 K5'	+4			58.1 30.84	9.32	+ 06976	99756	708.7 680.9	9.30
K5 K6	+8° 30'			01 19.17	5.79	+ 14781	98902	711.5 683.7	5.73
K6 K7	+55			26 28.50	8.61	+ 81915	57358	734.7 706.9	4.94
K7 D26	+32			23.80 24.00	7.25	+ 52992	84805	747.3 719.5	6.15
								755.4	

D X ∠ K.

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse..... *Computer*..... *Date*.....

Total Length..... *Error*.....

BEARINGS

1

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
D 7/8		-10 22				+	−	621·81	191·59
−X5	101 00		90 38	6·96		99994	01105	628·77	191·51
X4	137 00		126 38	2·70		+ 80247	− 59669	630·94	189·90
X3	133 00		122 38	3·72		+ 84214	− 53926	634·07	187·90
X2	141 30		131 08	4·11		+ 75318	− 65781	637·16	185·19
X1	151 30		141 08	5·19		+ 62751	− 77861	640·42	181·15
D17	109 15		98 53	7·99		+ 98800	− 15442	648·32	179·92
D18				4·07		+ 99902	− 14781	652·34	179·32
D19				6 11		− 23345	+ 97237	650·91	185·26