O.S. 337

E

TRAVERSE ABSTRACT

Traverse Traverse E

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 ° ′ ″
1.	BO. 2.				19′ 2″	— D.	20 42 —
	TREE (WHITE PAPER)	23 18 00	120	23 15 —			
	STAKE.	177 00 00	48.	177 24 —			
	TREE.	211 12 00	24.	211 18 —			
2.	BO. 1.						
	3.	116 24 —	24	116 24 —	10′. 8″ ~~12′ 5″~~	— D	42 45 —
3.	BO 2.						
	4.	203 24 00	00	203 12 —	10′ 5″	—	28 51 —
4	BO 3						
	5.	157 54 —	159 06	158 00 —	23′	— D	42 18 —
5.	BO 4						
	6.	159 12 —	160·48 158 24	159 26 —	24′ - 5½	— D	23 03 —
6.	BO 5.						
	7.	211 48 —	54	211 51 —	28′ 11″	— D	34 25 30
7.	BO. 6.						
	8.	160 00 —	159 57	159 57 —	49′ 4″	— D	21 37 30
8.	BO. 7.						
	Broken Boss.	353 06 —	12	353 09 —			
	B.M. C.12.	240 42 —	12	240 27 —	7′ — 10″	+ E.	18 06 —
	Stalactite.	50 54 —	36.	50 45 —			
	Magnetic Bg						
	5-6. 136° 30″	5-6.	131.		25 45.		
	6-5. 312.	6-5	313.		25 45		
	6-7. 319.						
	7-8. 137.						

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

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

E

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

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

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

BEARINGS 1 – 3. 25 45 00 — 2 30 00 00.

1 — 177 24 00 — 23 15 00.

2 208 21 00 — 206 45 00

2

3

4

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
								590 · 18.	237 · 76.
E1								~~1000.~~	~~1000.~~
E 2	208 21 00			5 · 46.		− 47486.	− 88006.	587 · 587. ~~997 · 407.~~	232 · 955. ~~992 · 19~~
	28								
	116 24 00								
E 3	144 45 00			2 · 39		+ 57715.	− 81667.	588 · 967. ~~993 · 787.~~	231 · 003. ~~993 · 243~~
	324								
	203 12 00.								
E 4	167 57 00			2 · 79		+ 20877.	− 97797.	589 · 549. ~~999 · 369.~~	228 · 275. ~~990 · 515~~
	347								
	158 00 00.							592 · 450	223 · 983.
E 5	145 57 00			5 · 13.		+ 55992.	− 82855.	~~1002 · 270.~~	~~986 · 223~~
	325								
	159 26. 00.							598 · 042.	220 · 010.
E 6	125 23 00			6 · 86.		+ 21530.	− 57907.	~~1007 · 862.~~	~~983 · 250~~
	305								
	211 51 00							600 · 856.	213 · 307.
E 7	157 14 00			7 · 27.		+ 38698.	− 92309.	~~1010 · 676.~~	~~975 · 597.~~
	337								
	159 57 00							610 · 357.	203 · 052.
E 8.	137 11 00			13 · 99.		+ 67965.	− 73353	~~1020 · 477.~~	~~965 · 222~~
C.12.	317								
	240 27 00.							609 · 670.	200 · 889
B.M.	197 38 00			2 · 27.		− 30292.	− 95301	~~1019 · 490.~~	~~763 · 177~~

E

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

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

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

BEARINGS

1

2

3

4

Station	Bearing V a	Corr.	Corrected Bearing	Distance ++	Cos. V.A. Metres	Sine	Cosine	E. Vat dist. 830	N. Hor dist.
E1									
1-2	- 20 42		-	19.167	5.84	− 35347	93544	823.2	5.46
2-3	- 42 45		-	10.667	3.25	− 67880	73432	816.0	2.39
3-4	- 28 51		-	10.417	3.18	− 48252	87589	811.0	2.79 9.72
4-5	- 42 18		-	23.000	7.01	− 67301	73963	795.5	5.18
5-6	- 23 03		-	24.458	7.46	− 39153	92016	785.9	6.86
6-7	- 34 25 30		-	28.917	8.81	− 56533	82487	769.6	7.27
7-8	- 21 37 30		-	49.333	15.04	− 36853	92962	751.4	13.98
8-C12	- 18 06 00		+	7.833	2.39	+ 31068	95052	753.8	2.27

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

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

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

BEARINGS

1

2

3

4

Dist

Station	~~Bearing~~ V.A.	Corr.	Corrected Bearing	Distance ft	Lat. V.A. M.	Sine	Cosine	E.	D. M.
						−	+		
1-2				19.167	5.842	35347	93544		5.465
						−	+		
2-3				10.667	3.251	67880	73432		2.387
						−	+		
3-4				10.417	3.175	48252	87589		2.781
						−	+		
4-5				23.000	7.010	67301	73963		5.185
						−	+		
5-6				24.458	7.455	39153	92016		6.860
						−	+		
6-7				28.917	8.814	56533	82487		7.270
						−	+		
7-8				49.333	15.037	36853	92962		13.979 ~~2.270~~
						+	+		
8-B.M.C12				7.833	2.388	31068	95052		2.270

E

O.S. 355

TRAVERSE COMPUTATION — MACHINE METHOD

Name of Traverse Traverse E (Astra Compass Computer) *Date* 28.6.49

Total Length 46.4 *Error*

BEARINGS

1 5-6 132 / 10 / 122 — 7-8 138 / 10 / 128

2 — C1 — 584.72 — 232.64

23° 00 — 5.029 — 39073 — 92050

3

4 — 431 — 647

590.68 — 237.26

Station	Bearing	Corr.	Corrected Bearing	Distance	Cos. V.A.	Sine	Cosine	E.	N.
E1 - Stn	25 42					—	+	590.18	237.76
	177 24							11 / 8.09	49 / 45
E 2	208 18			5.46		47409	88048	582.09	232.95
	28 18					+	—	50 / 9.47	55 / 0.50
	116 24								
E 3	144 42			2.39		57786	81614	588.97	233.00
	324 42					+	—	11 / 90.06	84 / 7.77
	203 12								
E 4	167 54			2.79		20962	97778	589.56	225.23
	347 54					+	—	3.03 / 96	58 / 48
	158 00								
E 5	145 54			5.18		56064	82806	592.46	223.98
	325 54					+	—	66 / 50	67 / 19.52
	159 26								
E 6	125 20		134	6.86		81580	57833	598.06	220.02
	305 20					+	—	51 / 1.38	3.01 / 2.82
	211 51								
E 7	157 11			7.27		38778	92175	600.88	213.32
	337 11					+	—		
	159 57								
E 8	137 08		160	13.98		68029	73294	11.08 / 610.89	86 / 2.57 / 203.07
	317 08					—	—	40	70
	240 27							10.20	40
C 12	197 35		198	2.27		30209	95328	609.70	200.90
								610.40	200.70
								+.20	+.30