

SURVEY NOTES & CALCULATIONS
FOR D.D.H.'s A-48, A-47, A-44, A-43,
A-40 & 81-AX-03

BY: D. ARMSWORTHY
J. MOROZ

DATE: MAY 27/81

GRUM TRAVERSE FOR

DDH'S A-48, 47, 44, 43, 40

£ B1-AX-03

DATE: MAY 27/81

BY: ARM-MOR

TEMP. RANGE $+14^{\circ}\text{C}$ - 24°C

@ BARR. PRES. of 30.03

CORREL. -8 PPM - +2 PPM

STA.	B.S. F.S.	HZ. <	Vt. <	H.D.	S.D.	V.D.	Ht. Pt.	REMARKS
	H.I.W. 1460	00-01-00						
H.I.W. 1459		26-12-54	86-12-24	760.910	762.616	+50.954		
+1.529	A	52-24-52	273-48-39	760.918	762.616	+50.807	+1.375	
			+03-48-07					
	H.I.W. 1459	00-01-00						
A		118-42-08	90-33-06	106.289	106.294	-1.060		
+1.618	B	237-23-06	269-28-15	106.288	106.292	-1.044	-1.492	

STA.	B.S. F.S.	HZ <	Vt. <	H.D.	S.D.	V.D.	Ht. Ft.	REMARKS
	A	00-01-00						
B		177-41-36	71-14-13	169.211	169.247	-3.835		
+1.640	C	355-22-00	268-46-50	169.203	169.248	-3.796	-1.300	
			(-)01-13-44					
	B	00-01-00						
L		198-00-03	84-11-50	91.206	91.664	+9.148		
+1.402	D	35-59-06	275-48-56	91.205	91.665	+9.158	-1.515	
			(+)05-48-33					
	L	00-01-00	92-04-12	145.741	145.874	-7.278		
D		156-50-54	267-8-46	145.742	145.876	-7.240	-1.586	
+1.611	E	313-40-46	62-03-43					

STA.	B.S. F.S.	HZ <	Vt. <	H.D.	S.D.	V.D.	Ht. Ft.	REMARKS
	B	00-01-00						
A		100-15-36	81-31-40	52.512	53.091	+7.752	+1.545	
+1.618	T.P. 1	200-29-54	278-29-33	52.516	53.080	+7.718		
	A	00-01-00						
TP ₁		169-57-45	83-23-32	48.922	49.234	+5.533		
+1.630	TP ₂	339-54-24	276-37-03	48.921	49.234	+5.537	-1.521	
	TP ₁	00-00-00						
TP ₂		48-29-15	-	60.831	61.140	-6.177	-1.220	
+1.604	A-47	96-58-40	-	60.830	61.138	-6.151		
		136-54-12	-	122.102	122.307	+7.066	-1.220	
	A-48	273-48-20	-	122.102	✓	+7.054		

STA	B.S. F.S.	HZ <	HT <	H.D.	S.D.	V.D.	H.P.T	REMARKS.
	D							
E		107-12-36		153.672	153.856	-7.523		
+1.684	A-43	14-25-18		153.670	153.854	-7.521	-1.22	
	HIW 1459	00-01-00	269-59-06	87.154	87.154	+0.089	-1.220	
F		256-09-24	270-03-08	✓	87.154	+0.077		
+1.645	T.R.3	152-17-00	89-50-02					
		48-24-48	89-57-42					
		304-32-26						

[illegible]

D.D.H. LOCATIONS

CALCULATION SHEET.

DA

T.P.s FOR A-48, 47, 44, 43, 40 & 81-AX-03 TRAVERSE

BACKSIGHT STATION FORESIGHT	"B" "A" T.P.	"A" T.P.(1) T.P.(2)	"F" T.P.(3)			
HORZ. DIST.	52.488 ✓	48.898 ✓	87.110 ✓			
H.I.	+1.618 ✓	+1.630 ✓	+1.645 ✓			
H.P.	-1.545 ✓	-1.521 ✓	-1.220 ✓			
DIFF.	+7.733 ✓	+5.535 ✓	+0.083 ✓			
STA. ELEV.	1216.881 ✓	1224.687 ✓	1180.026 ✓			
DIFF.	+7.806 ✓	+5.644 ✓	+0.508 ✓			
COLLAR	1224.687 ✓	1230.231 ✓	1180.534 ✓			
AZIMUTH FS		15-06-28				
TO - 180°		180-00-00				
B.S. AZIMUTH	274-52-01 ✓	195-06-28	114-02-49 ✓			
HORIZ. ∠	100-14-27 ✓	169-56-42 ✓	256-07-52 ✓			
AZIMUTH	15-06-28	05-03-10	10-10-41 ✓			
BEARING						
STA. NORTHING	6903870.013 ✓	6903920.687	6903555.340 ✓			
LAT.	+50.674	+48.708	+85.739 ✓			
N. E. CO-ORD.	6903920.687	693969.395	6903641.079 ✓			
STA. EASTING	593980.682 ✓	593934.362	593373.730 ✓			
DEP.	+13.680	+4.307	+15.393 ✓			
HOLE CO-ORD	593934.362	593938.669	593389.123 ✓			

D.D.H. LOCATIONS

CALCULATION SHEET.

DA

DDH: A-48, A-44, A-47, A-43, A-40 & 81-Ax-03

BACKSIGHT STATION FORESIGHT	T.P. ₁ T.P. ₂ A-48	"A" "B" A-44	T.P. ₍₁₎ T.P. ₍₂₎ A-47	"D" "E" A-43	"F" T.P. ₍₃₎ A-40	"A" "B" 81-Ax-03
HORZ. DIST.	122.041 ✓	35.240 ✓	60.801 ✓	153.594 ✓	82.768 ✓	50.837 ✓
H.I.	+1.604 ✓	+1.604 ✓	+1.604 ✓	+1.684 ✓	+1.696 ✓	+1.640 ✓
H.P.	-1.220 ✓	-1.220 ✓	-1.220 ✓	-1.220 ✓	-1.705 ✓	-1.220 ✓
DIFF.	+7.060 ✓	+3.036 ✓	-6.164 ✓	-7.522 ✓	+5.640 ✓	-12.523 ✓
STA. ELEV.	1230.331 ✓	1216.003 ✓	1230.331 ✓	1214.847 ✓	1180.534 ✓	1216.003 ✓
DIFF.	7.444 ✓	3.420 ✓	-5.780 ✓	-7.058 ✓	+5.631 ✓	-12.103 ✓
COLLAR	1237.775 ✓	1219.423 ✓	1224.551 ✓	1207.789 ✓	1186.165 ✓	1203.900 ✓
AZIMUTH FS	05-03-10	274-52-01 ✓	05-03-10	267-21-21 ✓	10-10-41 ✓	274-52-01 ✓
to 180°	180-00-00	180-00-00 ✓	180-00-00	180-00-00 ✓	180-00-00 ✓	180-00-00 ✓
B.S. AZIMUTH	185-03-10	94-52-01 ✓	185-03-10	87-21-21 ✓	190-10-41 ✓	94-52-01 ✓
HORZ. <	136-54-10 ✓	333-10-24 ✓	48-29-20 ✓	187-12-39 ✓	140-02-36 ✓	107-15-03 ✓
AZIMUTH	321-57-20	68-02-25 ✓	233-32-30 ✓	274-34-00 ✓	330-13-17 ✓	202-07-04 ✓
BEARING						
STA. NOOTHING	6903969.395	6903879.025 ✓	6903969.395	6903909.454 ✓	6903641.079 ✓	6903879.025 ✓
LAT.	96.111	+13.178 ✓	-36.130	+12.229 ✓	71.839 ✓	-47.096
HLE CO-ORD.	6904065.506	6903892.203 ✓	6903933.265 ✓	6903921.683 ✓	6903712.918 ✓	6903831.929 ✓
STA. EASTING	593938.669	593814.833 ✓	593938.669	593365.079 ✓	593389.123 ✓	593814.833 ✓
DEP.	-75.211	+32.683 ✓	-48.902	-153.106 ✓	-41.107 ✓	-19.141
HOLE CO-ORD	593863.458	593847.516 ✓	593889.767 ✓	593211.973 ✓	593348.016 ✓	593795.692 ✓

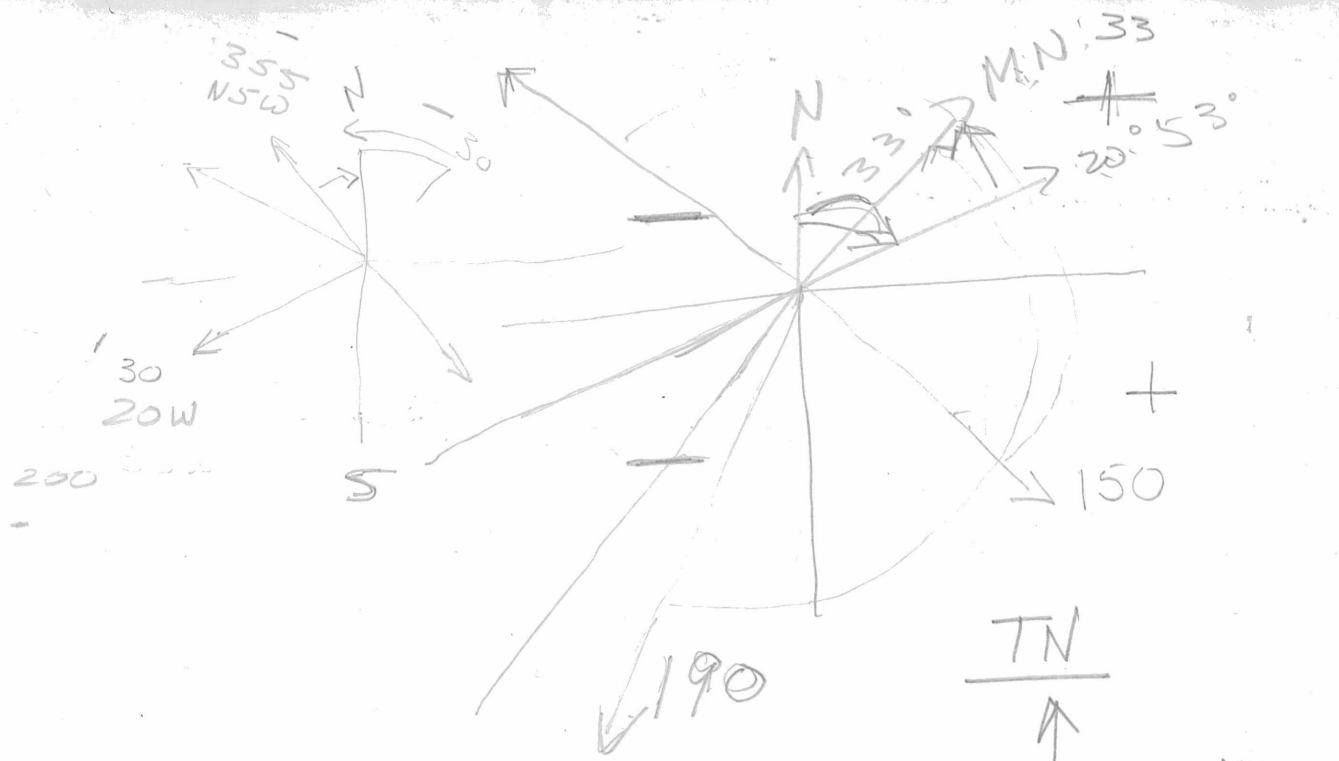
A-48, A-44, A-47, A-43
GRUM TRAVERSE FOR A-40 & 81-Ax-03

SURVEY CALCULATION SHEET											
Station	Horiz. Angle	Azimuth	Slope Dist.	Vert. Angle	Horiz. Dist.	Lat.	Dep.	Calculated		Adjusted	
								Northings	Eastings	Northings	Eastings
					ADJUSTED TO UTM BY .9995						
HIW 1460											
HIW 1459	(-02)	309-59-06						6903174.255	594227.774		
	26-11-56					(-011)	(+1.020)				
"A"	(-02)	536-11-00			760.534	+695.769	-307.112			6903870.013	593920.682
	118-41-03					(-001)	(+1.003)				
"B"	(-02)	274-52-01			106.235	+9.013	-105.852			6903879.025	593814.833
	177-40-30					(-002)	(+1.004)				
"C"	(-02)	272-32-29			169.122	+7.449	-168.956			6903886.522	593645.891
	197-59-03					(-001)	(+1.002)				
"D"	(-02)	290-31-50			91.160	+31.962	-85.373			6903918.483	593560.510
	156-49-53					(-003)	(+1.005)				
"E"	(-02)	267-21-21			195.644	-9.026	-195.436			6903909.454	593365.079
	91-14-48					(-005)	(+1.009)				
"F"	(-02)	178-36-07			354.214	-354.109	+8.642			6903555.310	593375.730
	115-26-44					(-013)	(+1.026)				
HIW 1459	(-03)	1-14-02-49			935.18-1	-381.072	+054.018			6903174.255	594227.774
	15-56-20										
HIW 1460		309-59-06				(+0.036)	(-0.069)				
					Σ D 2612.090						
ACTUAL		309-59-06									
	DIFF	(17")			LINEAR ERROR 3	1233,563					

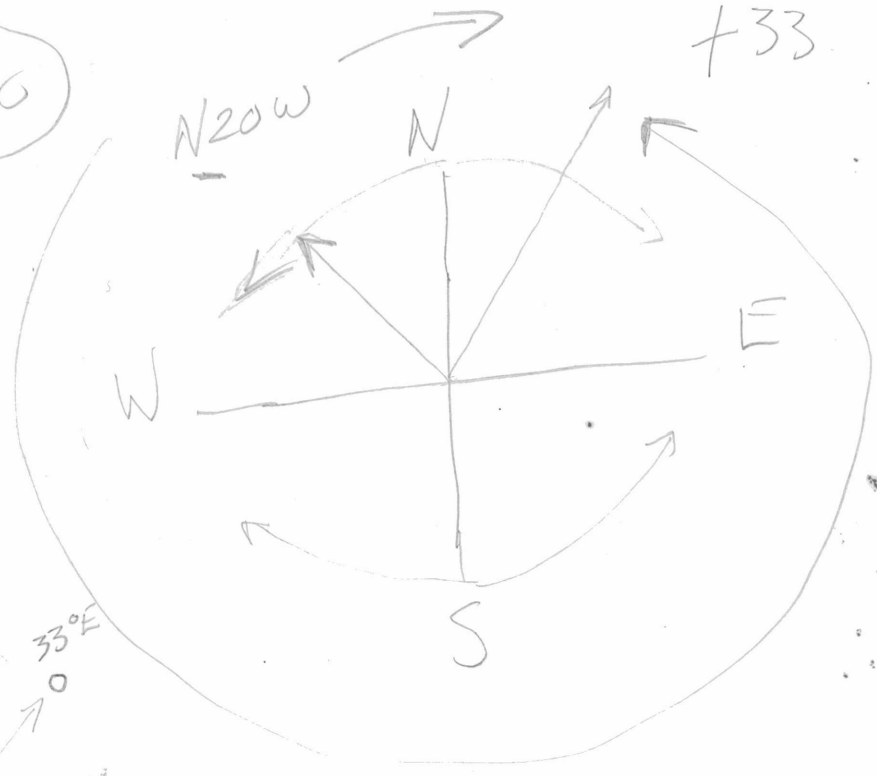
A40 d 81-AK-03

GRUMI TRAVERSE FOR

1.



360



TN

M 33 E

N

33° E

0° T

N25E

25° E M.

360

+ 33°

True Az

294° M

N33W

N 33 E

0 M

N66E

66° T Az

246° T Az

S66W

180

246

S33W M 180° M

S 33 E 114° M

180° T Az

T.

HIW
1459

02-95-51

26-11-56

935.649 m
(not to scale)

HIW
1460

115-26-44

CLOSED TRAVERSE FOR

D.D.H.'S A-48, A-47, A-44, A-43

A-40, 31-AX-03

SURVEYED BY: D. ARMSWORTHY

J. MORAZ

DATE: MAY 27/81

SCALE: 1" = 2000

760.914 m
(not to scale)

"A"

118-41-03

106.288 m

"B"

177-40-30

169.207 m

"C"

197-59-03

91.205 m

"D"

156-49-53

91-11-18

"E"

354.391 m

"F"