

NORTH TUNNEL TRAVERSING

CLOSURE AZIMUTH 25-16-19

RAW AZIMUTH 25-17-31

$(\Delta^+ 00-01-12 \text{ Error})$

23 Turns Total

* SUBTRACT 00-00-03 FROM EACH AZIMUTH TO BALANCE ANGLES

- AFTER ANGLES ARE BALANCED

$\Delta \text{ MIS-CLOSURE (H)} X = 0.285'$ DEPARTURE

$(+H) Y = 0.835'$ LATITUDE

0.883

NOTE: ALL EAST CONNECTIONS ARE SUBTRACTED WEST CONNECTIONS ARE ADDED...

NORTH SUBTRACTED
SOUTH ADDED

COURSE	LENGTH	LATITUDE		DEPARTURE						
		STO 1	STO 2	STO 1	STO 2					
		LOS ERROR TRIM. DIST.	CONNECTION	RAW LATH.	CORRECT LATH.	LENGTH	DEP. ERROR TRIM. DIST.	CONNECTION	RAW DEPT.	CORRECT DEPT.
A-5	483.29	0.835	0.041 (-)	60.67 (N)	60.63 (N)	483.29	0.285	0.014 (-)	479.47 (E)	479.46 (E)
S-6	211.68	0.716839	0.018 (-)	10.68 (N)	10.66 (N)	211.68	0.006		211.41 (E)	211.40 (E)
6-7	272.14		0.023 (-)	6.77 (N)	6.75 (N)	272.14	0.008		272.06 (E)	272.05 (E)
7-8	509.96		0.045 (-)	12.55 (N)	12.50 (N)	509.96	0.015		509.81 (E)	509.79 (E)
8-9	510.38		0.048 (-)	12.61 (N)	12.58 (N)	510.38	0.015		510.22 (E)	510.20 (E)
9-10	503.28		0.043 (-)	12.47 (N)	12.43 (N)	503.28	0.015		503.13 (E)	503.11 (E)
10-11	439.05		0.043 (-)	12.22 (N)	12.18 (N)	439.05	0.015		438.90 (E)	438.88 (E)
11-12	502.08		0.045 (-)	12.37 (N)	12.33 (N)	502.08	0.015		501.93 (E)	501.91 (E)
12-13	491.76		0.042 (-)	12.07 (N)	12.03 (N)	491.76	0.014		491.61 (E)	491.60 (E)
13-14	486.61		0.042 (-)	11.85 (N)	11.81 (N)	486.61	0.014		486.47 (E)	486.46 (E)
14-15	421.80		0.036 (-)	10.34 (N)	10.30 (N)	421.80	0.012		421.67 (E)	421.66 (E)
15-16	276.86		0.024 (-)	2.52 (N)	2.50 (N)	276.86	0.008		276.85 (E)	276.84 (E)
16-17	288.58		0.025 (+)	3.89 (S)	3.91 (S)	288.58	0.008		288.55 (E)	288.54 (E)
7-18	465.06		0.040 (+)	16.06 (S)	16.10 (S)	465.06	0.014		464.78 (E)	464.77 (E)
18-19	456.71		0.039 (+)	15.71 (S)	15.75 (S)	456.71	0.013		456.44 (E)	456.43 (E)
19-20	477.50		0.041 (+)	16.63 (S)	16.67 (S)	477.50	0.014		477.21 (E)	477.20 (E)
20-21	475.41		0.041 (+)	16.57 (S)	16.61 (S)	475.41	0.014		475.12 (E)	475.11 (E)
21-22	481.55		0.041 (+)	16.79 (S)	16.84 (S)	481.55	0.014		481.26 (E)	481.25 (E)
22-23	472.72		0.040 (+)	16.45 (S)	16.49 (S)	472.72	0.014		472.43 (E)	472.42 (E)
23-24	477.10		0.041 (+)	16.68 (S)	16.72 (S)	477.10	0.014		476.81 (E)	476.80 (E)
24-25	583.13		0.052 (-)	34.68 (N)	34.63 (N)	583.13	0.017		582.10 (E)	582.07 (E)
25-2	421.74		0.036 (-)	18.47 (N)	18.43 (N)	421.74	0.012		421.34 (E)	421.33 (E)

HOLDS

CP 2 NORTHING: 673389.83 RAW ADD CP 2 EASTING: 888345.29 ADJ 9759.28 (E)

CP 4 - NORTHING: 673279.18 118.78 (S) 119.09 (S) CP 4 EASTING: 878586.01 111.49 (N) 110.65 9759.28 (E)

$\Delta 110.65$ ✓ $\Delta 9759.28$ ✓ 0 (W) ✓