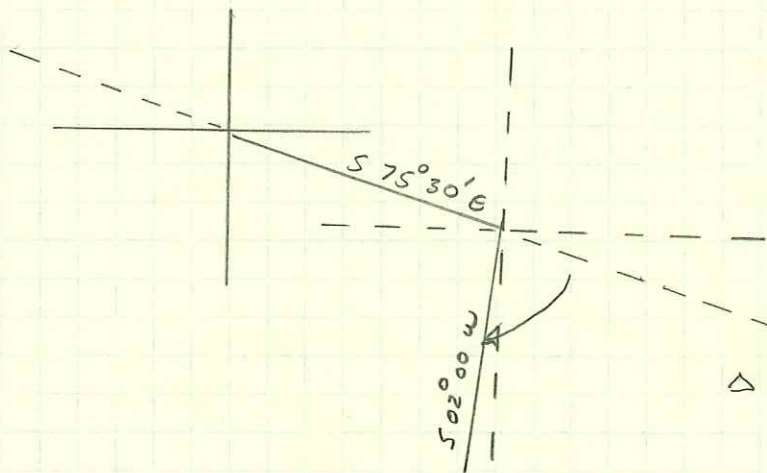


FROM FIELD NOTES:

STA	HD	BPG
7+20 ^o	400 ^o	
3+20 ^o		S 2° 00' W
0+00 ^o	320 ^o	S 75° 30' E

DESIGN RADIUS = 80'



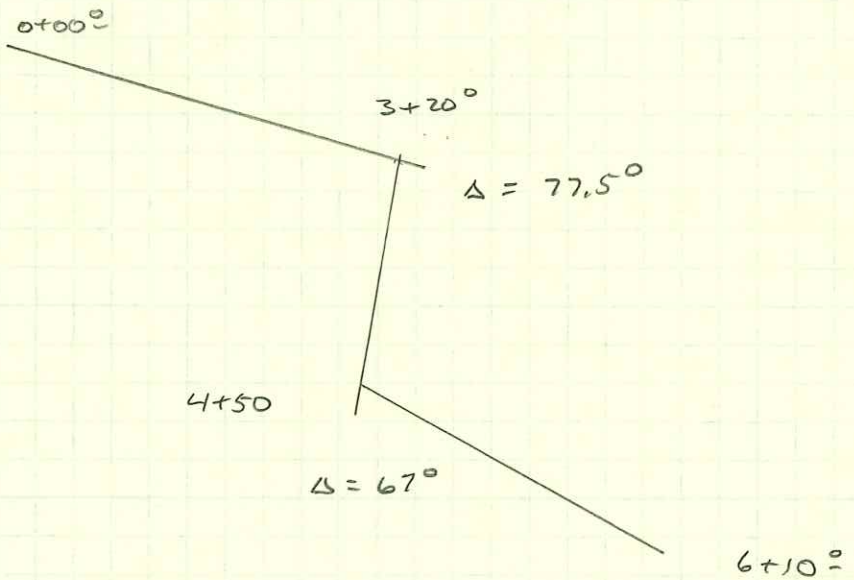
$$\Delta = 75.5^\circ + 2 = 77.5^\circ$$

- 1) $\Delta = 77.5^\circ$
- 2) $D = 5729.58 / 80' = 71.62^\circ$
- 3) $L = \frac{100'}{71.62} = \frac{L}{77.5} = 108.21$
- 4) $T = R \tan 77.5/2 = 64.2'$
- 5) $PC = PI - T = 320^{00} - 64.2 = 2+55.8$
- 6) $PT = PC + L = 255.8 + 108.21 = 3+64.0$

CHANGE TO FIT 2 CURVES

<u>STA</u>	<u>HD</u>	<u>B2G</u>
6+10°		
4+50°	160°	S 65°00' E
3+20°	130°	S 02°00' W
0+00°	320°	S 75°30' E

R = 80' FOR BOTH



CURVE 2

$$D = 5729.58 / 80 = 71.62$$

$$L = \frac{100'}{71.62} = \frac{L}{67} = 93.5'$$

$$T = R \tan 67/2 = 53.0'$$

$$\text{TOTAL } T_1 + T_2 = 64' + 53' = 117.2'$$

$$\text{TOTAL } P_1 \text{ TO } P_2 = 130' \therefore \text{LEAVES } 12.8'$$

FOR $R_2 = 70$

$T = 46.3$

LEAVES $19.4'$

FOR $R_2 = 60$

$T = 39.7$

LEAVES $26.1'$

FOR BOTH CURVES = 70

$T_1 = 56.2$

$T_2 = 46.3$

LEAVES $27.5'$

FOR BOTH CURVES = 60

$T_1 = 48.2$

$T_2 = 39.7$

LEAVES 42.1

BETTER