3	1
1	
1	J
	1

Gordens		V		/	/	V	/	/		1	V		1		
Tables & Berches		1	V		V,	V	Lat.		/	V	V				
Cabble ofones		1	1	V	/		Xar.			/	V		V		
One way		1		V				/			74	V	V		1.
Passible	X			X				X		X	X	X			

There are 6 possibilities

1. No change

2. Gardens, cobble dores, and one way

3. Gordens and one-way

4. Tables, Backs, and Labble stores

5. Cobolestones only

6. One way only

7. Cobolestone me one my

(3) A) P = 200000 = 6.5 years

Pa = 100000 = 7.69 years

Since Pretty Power has a guider paylanda period, it would be prefered

b) AW = -200000 (A/P, O, N, 10) +30000 (A/P, O. 1, 10) = 0.1(1.1)

6) AW = -200000 (A/P,0,1,10) +30000 (A/P,0.1,10) = 0.1(1.1) 10 (1.

 $AW_{a} = -100000 (A/P, 0.1, 20) + 13000 , (A/P, 0.1, 20) = (0.1)(1.1)^{20}$ = -11745.96 + 13000 = 1254.04

Since Paving Perfection has a higher arroad worth, it would be preferred

c) No, the brothers prefer different povers. The first brother's continual is that the investment into Pretty Power will return the money spent quicker. The Second brother's rational is that Paving Perfection would generate a return greater than the IMARR over its service life, and that Perfect Power would not. Depending on the size of the lasiness and non-labe Copital, either appearsh is valid.

7)
$$\frac{18}{25000}$$
 $P=25000+500(P/A,0.1,18)+25000(P/F,0.1,9)$
 $=25000+500\left[\frac{(1.1)^{18}-1}{0.1(1.1)^{18}}\right]+\frac{25000}{(1+0.1)^{9}}$

PB, by observation, in:tint cost B> Combined Cost for A over 18 years . . A preferred

$$= -40000 - 300 \left(\frac{1.19}{0.1(1.1)9} \right) + \frac{35000}{1.19}$$

: -39703.15

.. Lost of 8 lare are of years due to salvage value, 8 preferred.

assuming no salvege value. The second acknowledges a salvege value such that the other is cheaper. Both organists are valid

32653.33 ≥5V

$$AW_{0} = AW_{2}$$

$$AW_{0} = -5(A/P, 0.01, N) - 3.6$$

$$AW_{0} = -5(A/P, 0.01, N) - 3.6$$

$$AW_{1} = -3(A/P, 0.01, 2) - 4$$

$$AW_{2} > AW_{1}$$

$$-5\left[\frac{0.01(101)^{N}}{(101)^{N-1}}\right] - 3.6 = -3\left[\frac{0.01(101)^{2}}{(1.01)^{2}}\right] - 4$$

$$-5\left[\frac{0.01(101)^{N}}{1.01^{N-1}}\right] = -1.922537313$$

$$\frac{0.01(101)^{N}}{1.01^{N-1}} = 0.384507462$$

$$0.01(101)^{N} = 0.384507462$$

$$1.01^{N} = 1.026701736$$

$$V = In(1.026701736)$$

N= 2.648300478 months * 500 hours month

In (1.01)

= 1324.15 his 1325 his required