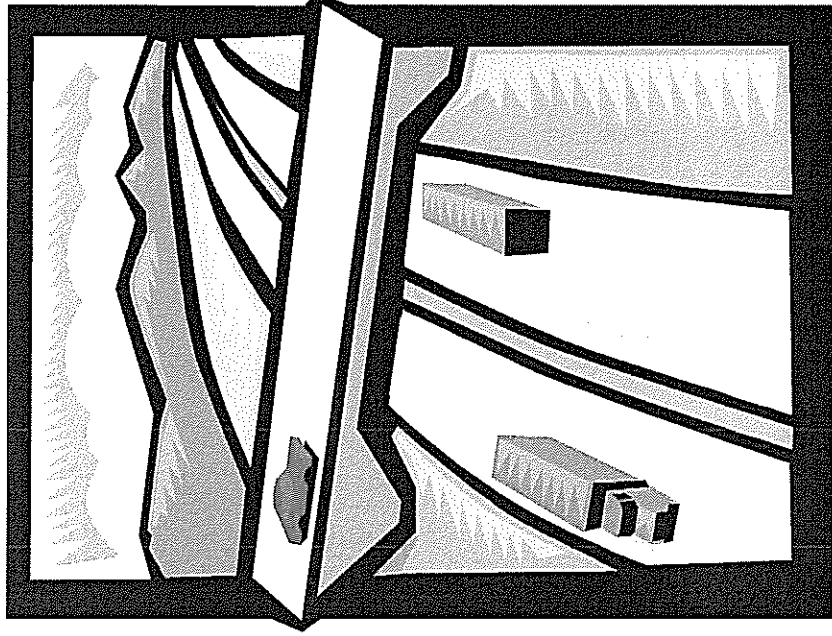


# APPENDIX E

# Winchester Bypass

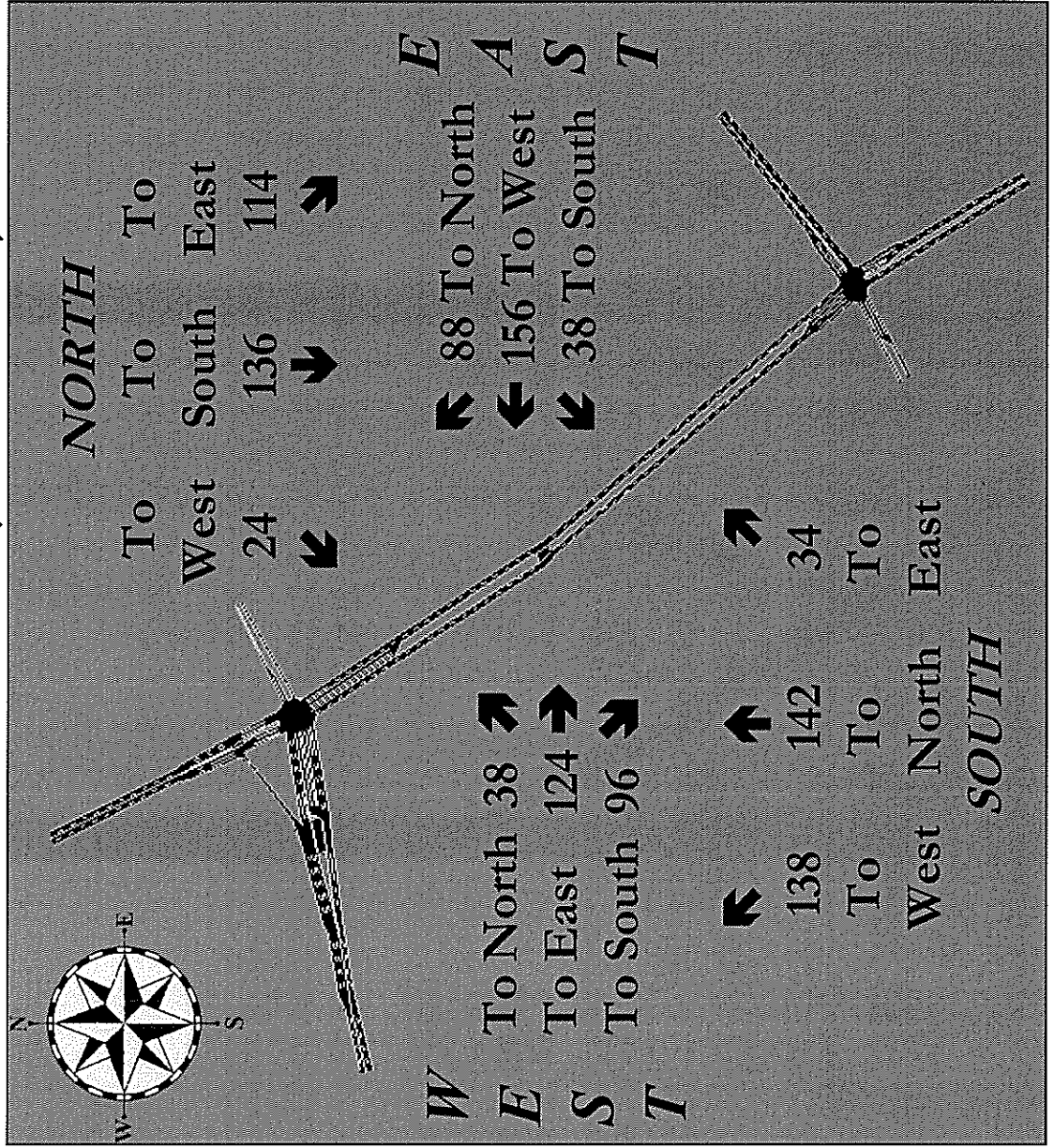


Alternate Study

May 1, 2003

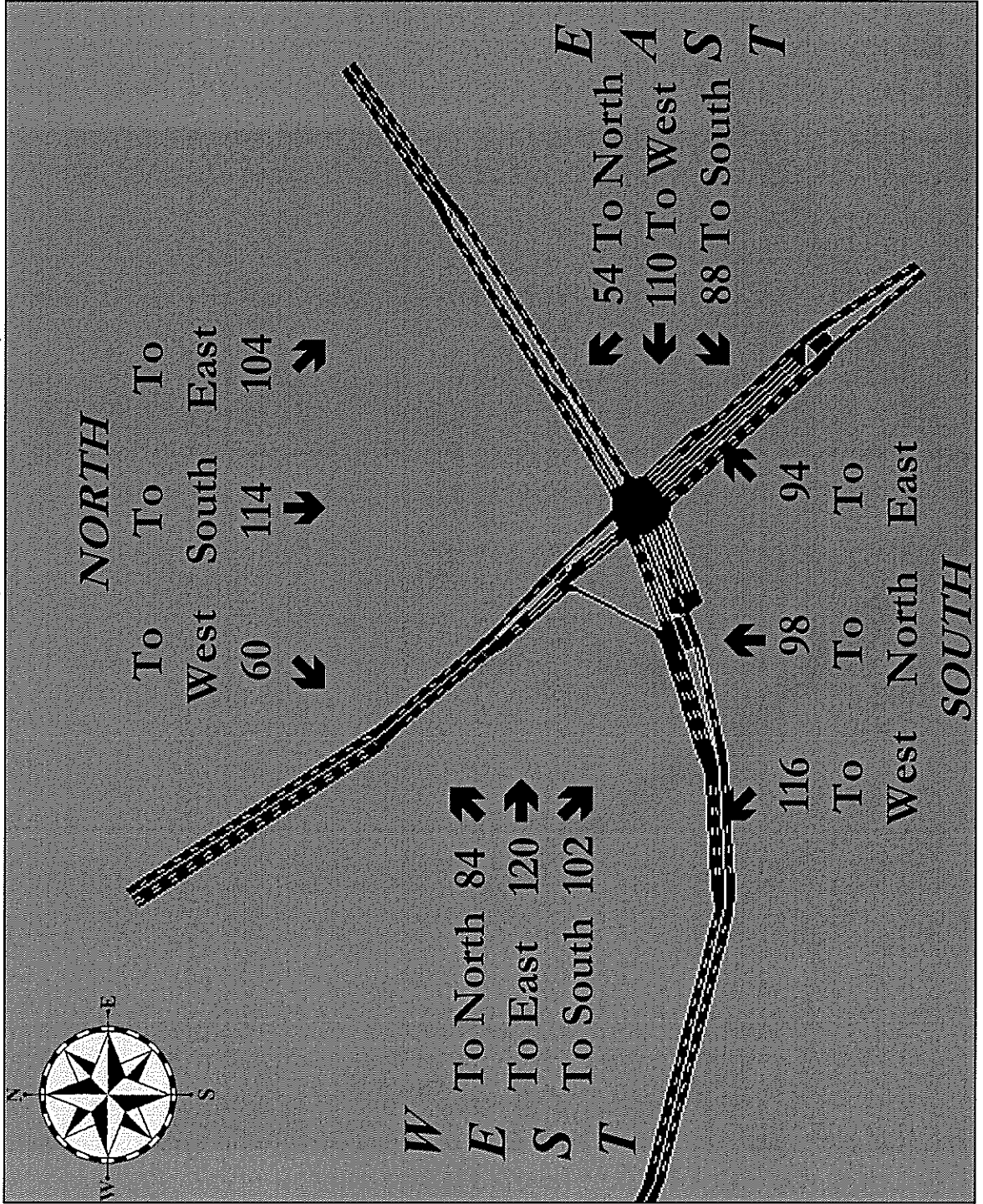
# Travel Time

## Alternate 1 (Seconds)



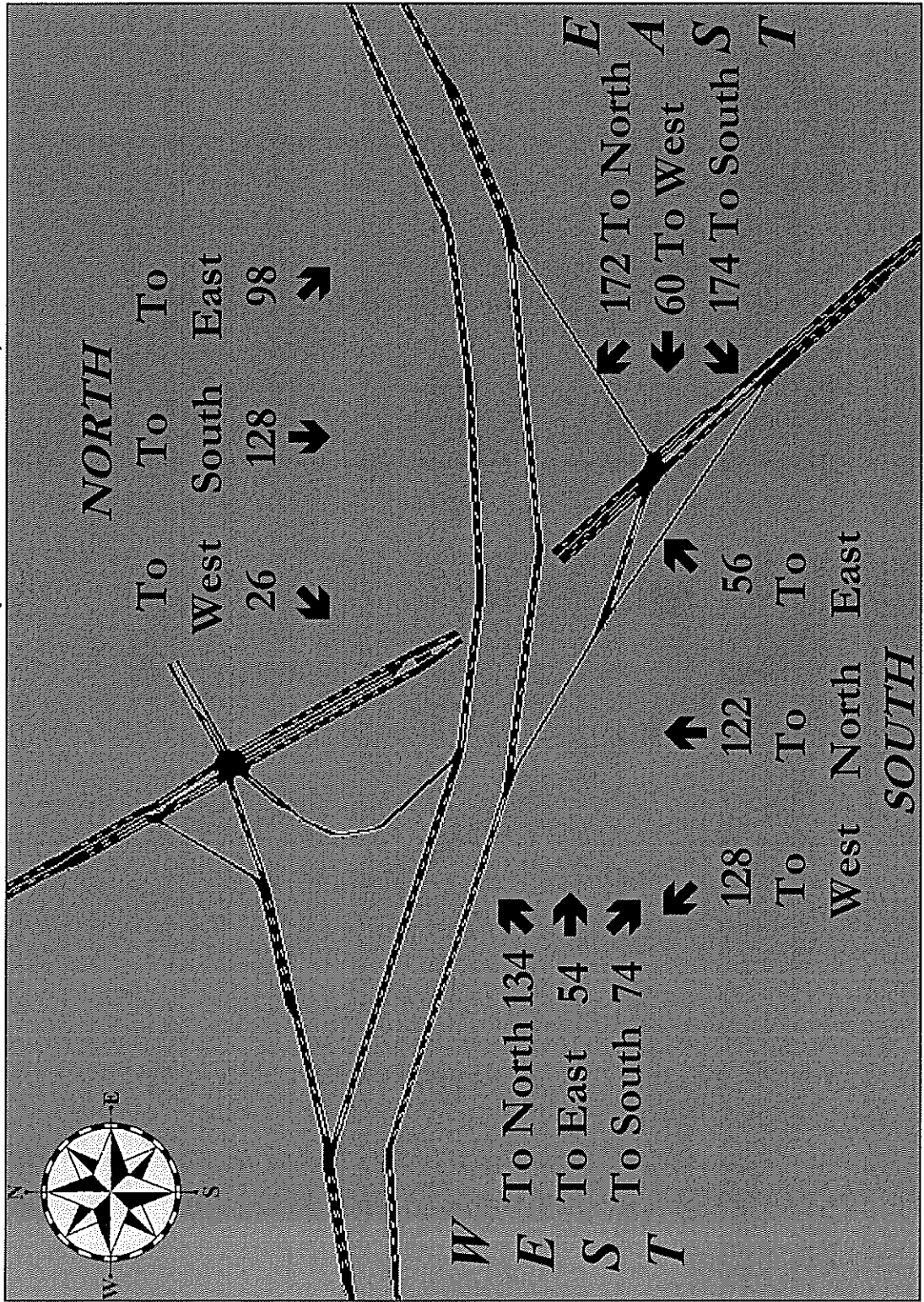
# Travel Time

## Alternate 2 (Seconds)



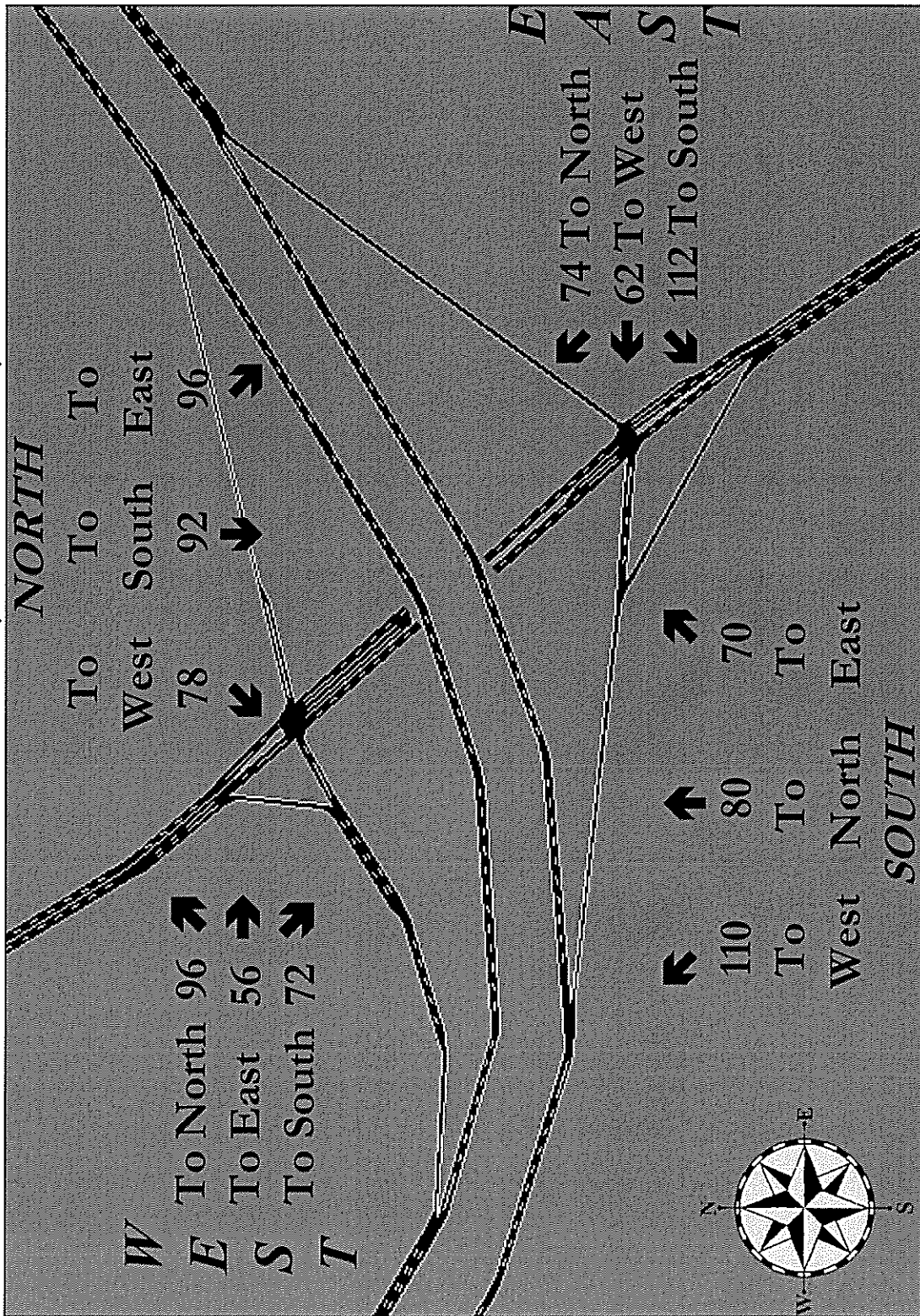
# Travel Time

## Alternate 3 (Seconds)



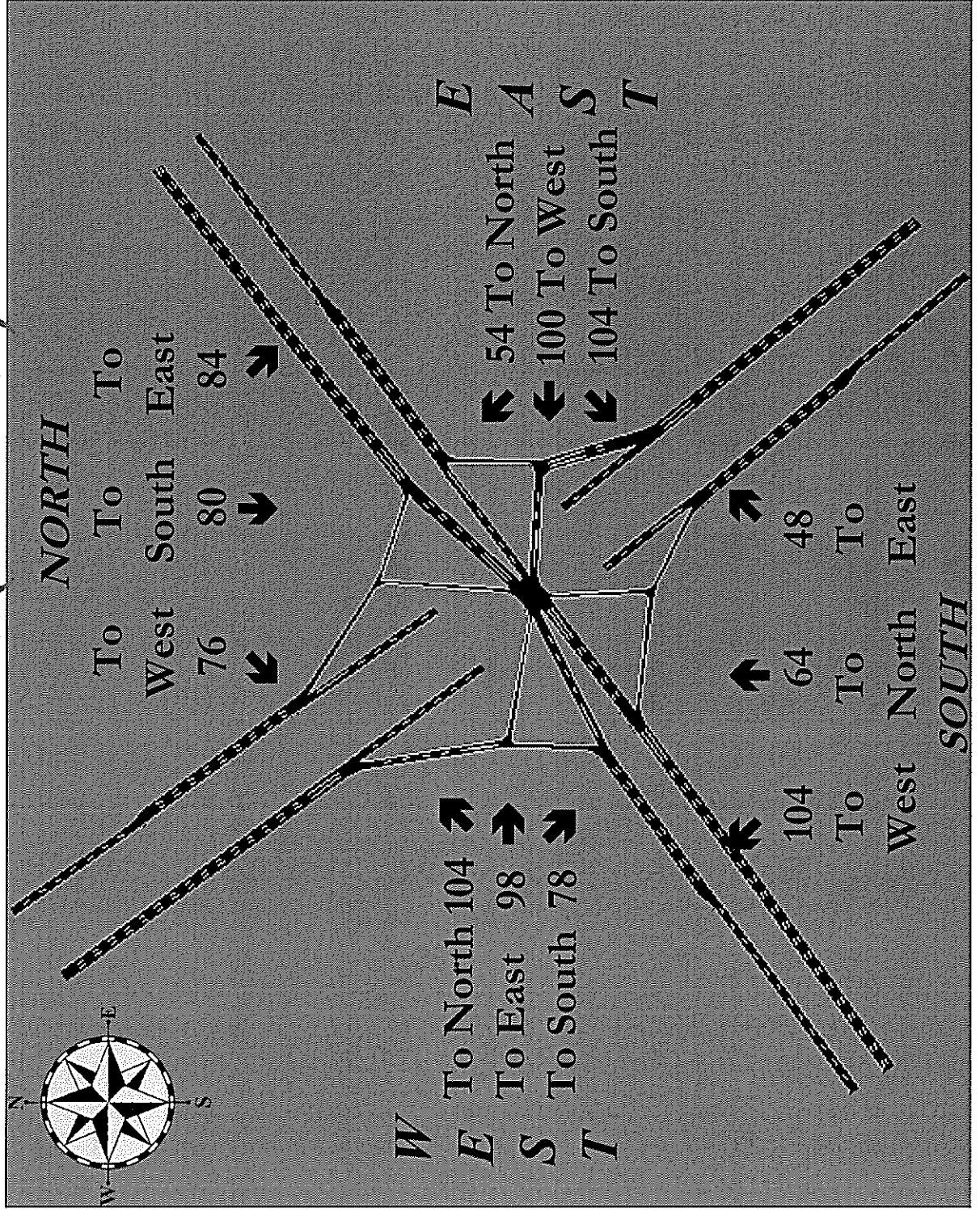
# Travel Time

## Alternate 4 (Seconds)



# Travel Time

## Alternate 5 (Seconds)



# Winchester Bypass

## Summary of Travel Times

ALTERNATE 1			ALTERNATE 2			ALTERNATE 3			ALTERNATE 4			ALTERNATE 5		
From	To	Travel Time (sec)	From	To	Travel Time (sec)	From	To	Travel Time (sec)	From	To	Travel Time (sec)	From	To	Travel Time (sec)
North	South	136	North	South	114	North	South	128	North	South	92	North	South	80
East	East	114	East	East	104	East	East	98	East	East	96	East	East	84
West	West	24	West	West	60	West	West	26	West	West	78	West	West	76
South	North	142	South	North	98	South	North	122	South	North	80	South	North	64
East	East	34	East	East	94	East	East	56	East	East	70	East	East	48
West	West	138	West	West	116	West	West	128	West	West	110	West	West	104
East	North	88	East	North	54	East	North	172	East	North	74	East	North	54
South	South	38	South	South	88	South	South	174	South	South	112	South	South	104
West	West	156	West	West	110	West	West	60	West	West	62	West	West	100
West	North	38	West	North	84	West	North	134	West	North	96	West	North	104
South	South	96	South	South	102	South	South	74	South	South	72	South	South	78
East	East	124	East	East	120	East	East	54	East	East	56	East	East	98

**LEGEND:**

**BEST**  
**WORST**

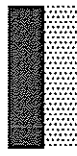


# Winchester Bypass

## Summary of Measures of Effectiveness

	ALTERNATE 1		ALTERNATE 2		ALTERNATE 3		ALTERNATE 4		ALTERNATE 5	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Total Delay (hr)										
Delay/Vehicle (s)										
Stop Delay (hr)										
Stop Delay/Vehicle (s)										
Total Stops										
Stops/Vehicle										
Travel Time (hr)										
Average Speed (mph)										
Fuel Used (gal)										
Fuel Efficiency (mpg)										
HC Emissions (g)										
CO Emissions (g)										
NO <sub>x</sub> Emissions (g)										

LEGEND:



BEST  
WORST