

WORKSHOP EXERCISE

DEVELOP A SHORT, MEDIUM, AND LONG RANGE HIGHWAY PRESERVATION/ENHANCEMENT STRATEGY

For the existing east-west highway shown on the attachment, recommend a short, medium, and long range strategy to preserve the functionality of the highway for the next 50 years and beyond.

You will see that the highway segment shown has four different cross-sections:

- Segment 1 (westernmost): 4 lane freeway
- Segment 2: at-grade 4 lanes plus TWLTL; the DOT has approved an upgrade to a 4-lane freeway when needed
- Segment 3: at-grade 4 lanes TWLTL
- Segment 4: 4 lane freeway

The cross-section for segments 2 and 3 are as shown on the cross-section on the attachment.

Your assignment is to create a strategy to preserve as well as you can and enhance as needed the highway's functionality. Consider three periods:

- Short-term – 0-5 years
- Medium term – 5-20 years
- Long term – 20-50 years

Notice that both 20 and 50 year traffic projections have been provided on the attachment. So have ultimate cross-sections that have been proposed by the city and/or MPO.

The land uses on the north side of existing segment 3 are primarily retail and apartment buildings that back up to the setback line. On the south side of the local street south of the railroad track, most land is undeveloped; some parcels have older service buildings or apartment buildings that back up to the setback line. At present there is no land use master plan for the corridor.

Please use the "Strategy Sheet" to show your strategy.

STRATEGY SHEET

Short, Medium, and Long Range Strategy for a Sample State Highway

Time Period			Strategy	Comment
Short	Medium	Long		
			Planning and development coordination	
			Access management	
			Traffic operations	
			Minor roadway improvements	

			Major roadway improvements	
			Right of way actions	
			Other	

Instructors' Assessment

Time Period			Strategy	Comment
Short	Medium	Long		
✓			Planning and development coordination	
✓			Develop partnerships w/city, RR, other stakeholders	Facilitate cooperation, coordination
			Develop long range plan for corridor land use, etc.	Both sides of RR tracks
✓	✓	✓	Development overlay district	Manage development and reserve ROW for long term configuration
✓	✓	✓	DOT assists city development review	
✓	✓	✓	Make sure freeway ROW is on city's adopted thoroughfare plan and that city protects the future ROW	
			Access management	
	✓	✓	Raised medians	
✓	✓	✓	Increased driveway spacing	
✓	✓	✓	Increased intersection spacing	Consider future interchange locations
✓	✓	✓	Increased spacing of median openings	
✓	✓	✓	Driveway consolidation	
			Traffic operations	
✓	✓	✓	Traffic signal coordination	
	✓	✓	Peak period turn restrictions	
	✓	✓	Longer spacing between traffic signals	
			Minor roadway improvements	
	✓	✓	Double left turn lanes	
	✓	✓	Right turn lanes	
✓			Turn lane storage for when RR gates closed	Avoid queues in through lanes
	✓		If most crossings to remain, convert to 1-way pairs	Increase capacity with existing streets
			Major roadway improvements	
	✓		Widen to 6 lanes with median or convert hwy and local street to 1-way arterial pair	1-way pair may alleviate or postpone need for freeway
	✓		Improve and increase use on parallel arterials/collectors	
	✓		Railroad grade separations	
		✓	Relocate railroad to future center of freeway	
		✓	Upgrade to freeway with 2-lane frontage roads	
			Right of way actions	
✓	✓	✓	Preserve right of way for future freeway	
✓	✓	✓	Make funds available for protective purchases when needed	
✓	✓	✓	Acquire right of way through dedication, donation	
	✓	✓	If needed, expand ROW to south	Much less development on south side
			Other	
	✓		Complete "early environmental"	For freeway and interim 6 lanes

Example

Time Period			Strategy	Comment
Short	Medium	Long		
			Planning and development coordination	
✓	✓	✓	Development overlay district	Manage development and reserve ROW for long term configuration
			Access management	
✓	✓	✓	Increased intersection spacing	Consider future interchange locations
			Traffic operations	
			Minor roadway improvements	
			Major roadway improvements	
			Right of way actions	
			Other	

STRATEGY SHEET

Short, Medium, and Long Range Strategy for State Highway

Group _____

Time Period			Strategy	Comment
Short	Medium	Long		
			Planning and development coordination	
			Access management	
			Traffic operations	
			Minor roadway improvements	
			Major roadway improvements	
			Right of way actions	
			Other	