## **Taper Slope Decision Matrix**

I-40 On-Ramp Country Club Team

Decision Matrix						
Slope	Capacity	Cost	Constraints	Speed	Total	
8:1	2	2	3	1	8	
15:1	1	1	2	2	6	

Rank	Description
1	Poor
2	Moderate
3	Excellent

## <u>Summary</u>

For the proposed additional right turn lane on S Country Clube Drive, taper slopes of 8:1 and 15:1 were examined and compared through a decision matrix found above. After ranking each desired aspect, including projected cost, expected increase in capacity, least added constraints, and lowest impact on speed, it was determined that a taper slope of 8:1 was the best choice for this project.

## **Supplemental Information**

Factor	Description		
Capacity	Will the taper slope increase capacity of the proposed right turn lane?		
Cost	Will the taper slope decrease/minimize costs with respect to project?		
Constraints	Will taper slope minimize conflict with project constraints?		
Speed	Will the taper slope minimize disruption in delay due to changes in speed?		