

6. Roadway Pavement Assessment

The list of worst 5% of of the pavement segments found to be rougher than others in the CCMPO area in the Fall 2010 season and the corresponding lengths of rough segments within these are shown in **Table 8**. Pavement roughness results are shown in **Figure 22** for visual reference. The map illustrates the relative roughness of the roadway 0.1 mile segments driven. Only the worst 5% of segments are shown in this map.

Figure 23 shows a couple of examples of pavement roughness profiles. These can be constructed by plotting the attribute “Total Area Over Length” which represents the area under unit length of the roughness curve. A “Total Area Over Length” greater than 0.33 represents the worst 5% of the segments for this year’s routes studied. It should be noted that in general, only one direction of the route was driven to obtain the roughness profiles.

Table 8 – Worst 5% of Route segments for Pavement Roughness

Routeld	Route Name	Total Length of Rough Segments (miles)
4021	STAPLES - SB/WB	0.20
4025	WEBER -SB/WB	1.60
4039	MCKINZIE - SB	0.59
4040	MCKINZIE - NB	0.30
4041	FM 624 - EB	6.75
4042	FM 624 - WB	5.85
4046	US 181 - EB	0.68
4065	SH 44 (Cesar Chavez) - EB	0.22
4075	FM 665 (Old Brownsville) - NB/EB	1.60
4089	Flour Bluff - EB	0.20
4091	SH 361 - NB	0.51
4092	SH 361 - SB	0.10

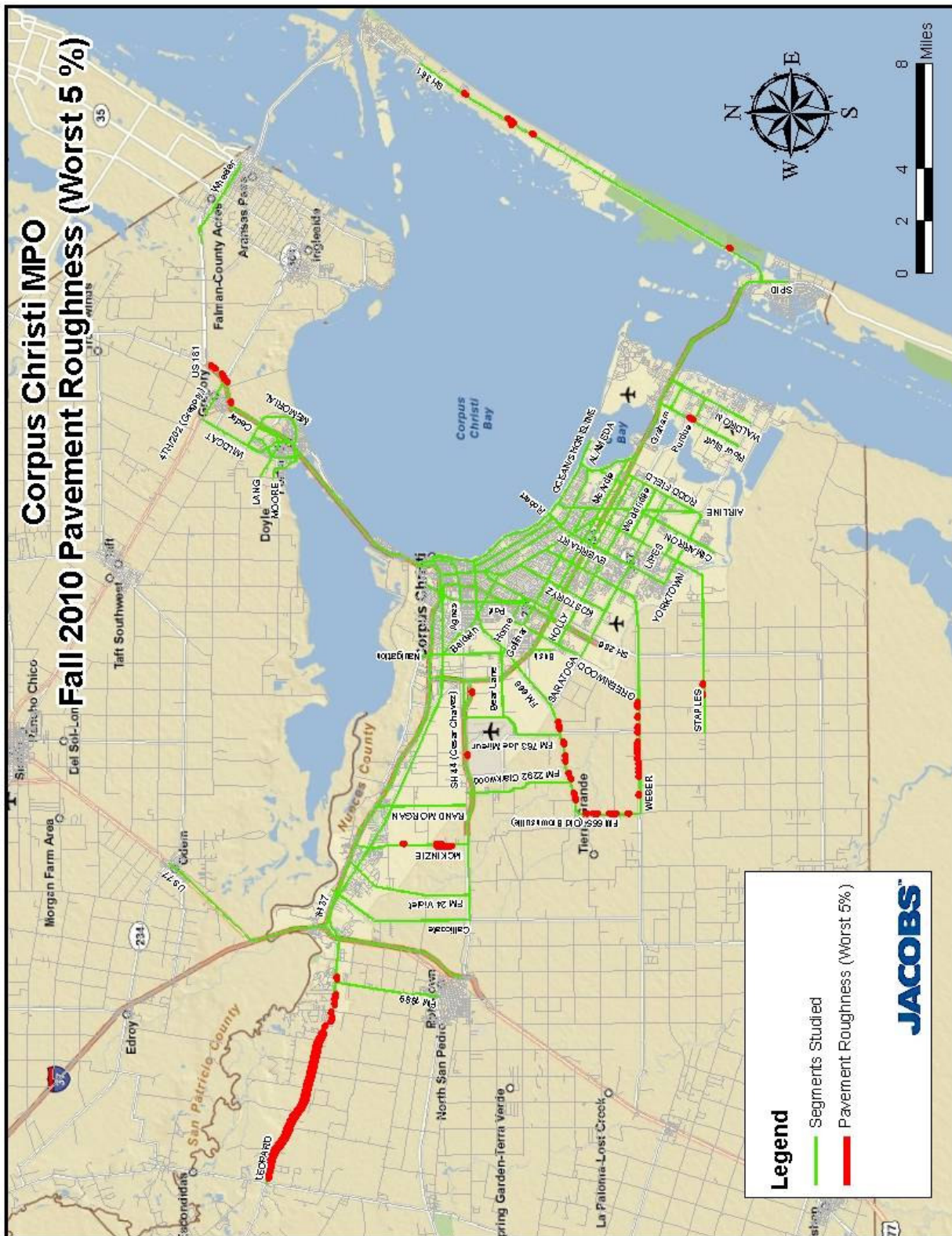


Figure 22 – Pavement Roughness

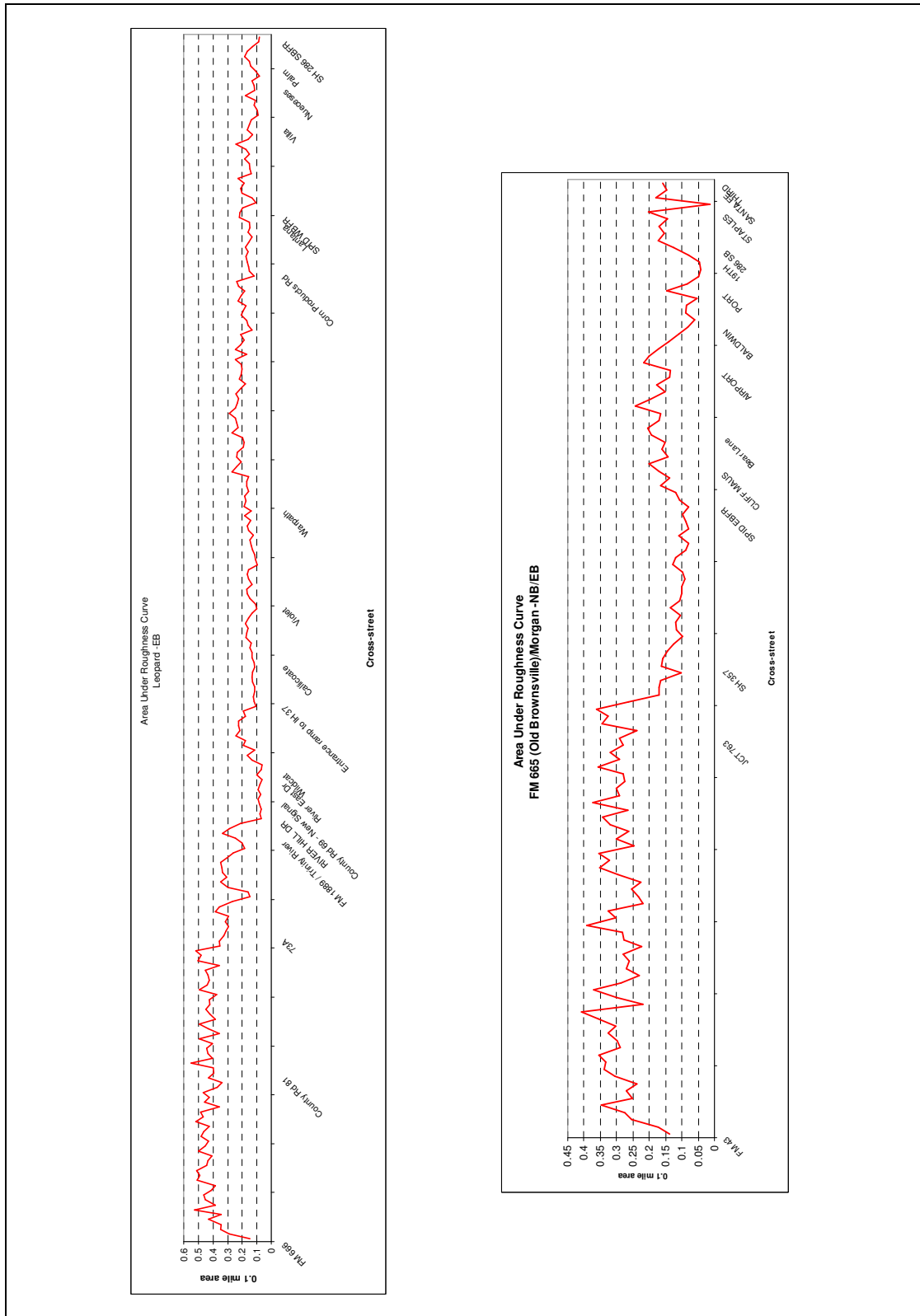


Figure 23 – Example Pavement Roughness Profiles