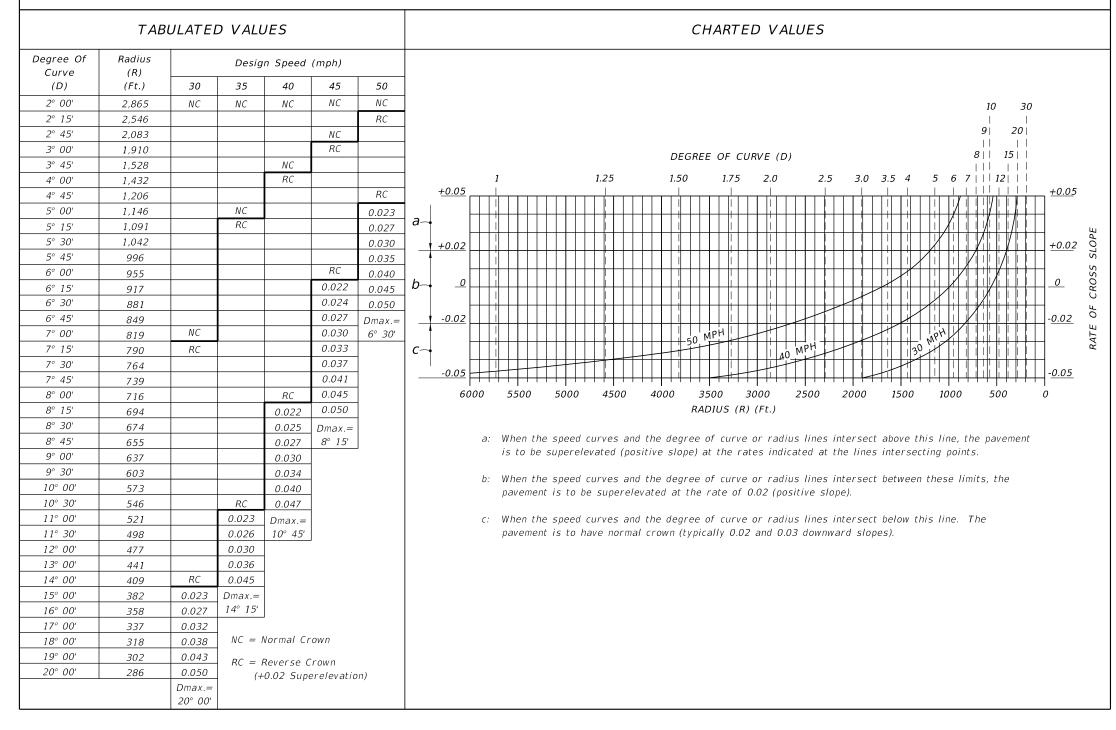
### SUPERELEVATION RATES (e) FOR URBAN HIGHWAYS AND HIGH SPEED URBAN STREETS $e_{max.} = 0.05$



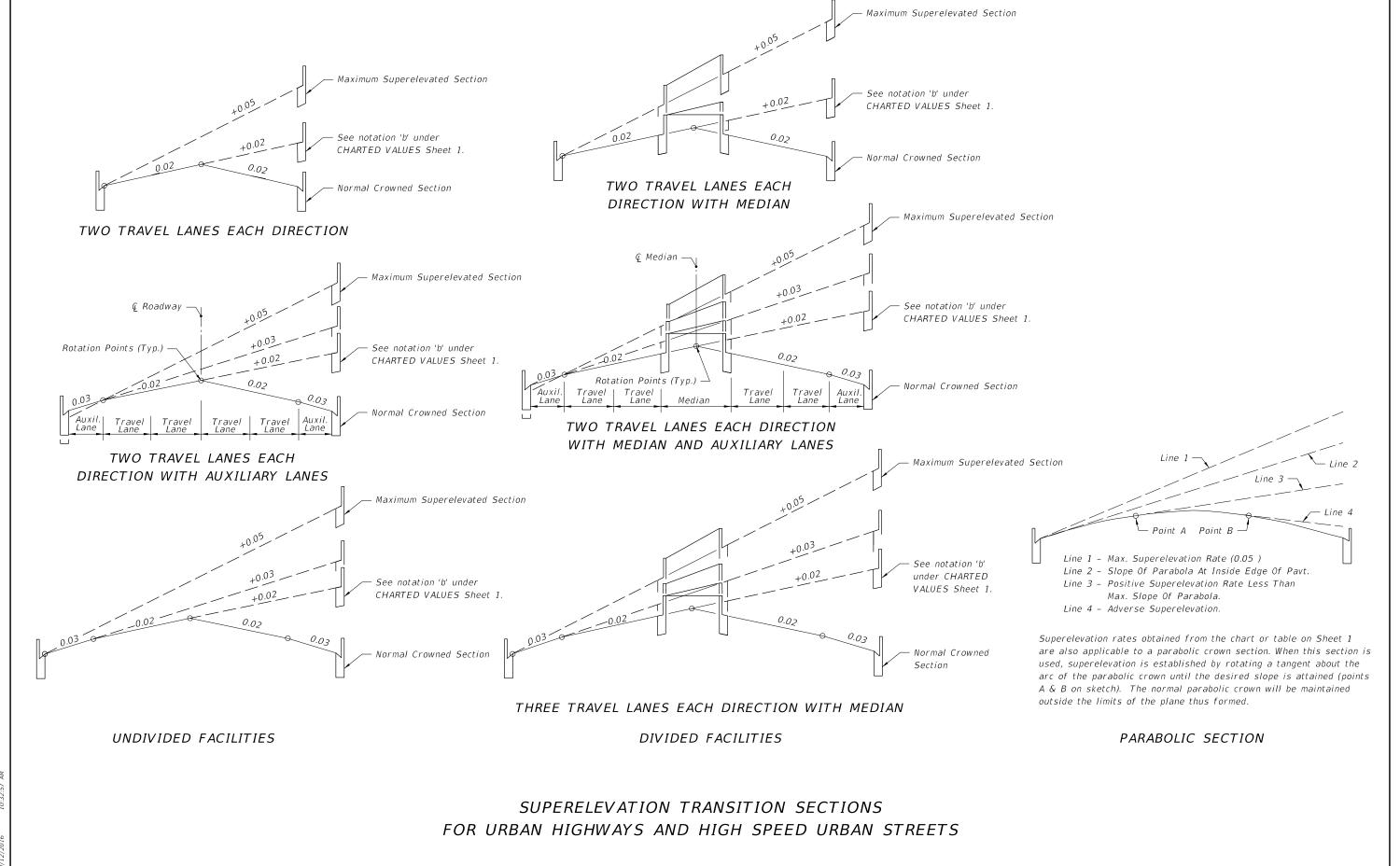
#### GENERAL NOTES

- 1. Maximum rate of superelevation for urban highways and high speed urban streets shall be 0.05.
- 2. Superelevation shall be obtained by rotating the plane successively about the break points of the section until the plane has attained a slope equal to that required by the chart. Should the rotation traverse the entire section and further superelevation be required, the remaining rotation of the plane shall be about the low edge of the inside travel lane. Crown is to be removed in the auxiliary lane to the outside of the curve only when the adjoining travel lanes require positive superelevation.
- 3. When positive superelevation is required, the slope of the gutter on the high side shall be a continuation of the slope of the superelevated pavement.
- 4. In construction, short vertical curves shall be placed at all angular profile breaks within the limits of the superelevation transition.
- 5. The variable superelevation transition length "L" shall have a minimum value of 50 feet for design speeds under 40 MPH and 75 feet for design speeds of 40 MPH or greater.
- 6. Roadway sections having lane arrangements different from those shown, but composed of a series of planes, shall be superelevated in a similar manner.
- 7. For superelevation of lower speed urban streets, see the FDOT 'Manual Of Uniform Minimum Standards For Design, Construction And Maintenance For Streets And Highways'. For superelevation of curves on rural highways, urban freeways and high speed urban highways, see Index No. 510.

# $e_{max} = 0.05$ SUPERELEVATION FOR URBAN HIGHWAYS AND HIGH SPEED URBAN STREETS

**REVISION** 07/01/00

DESCRIPTION:



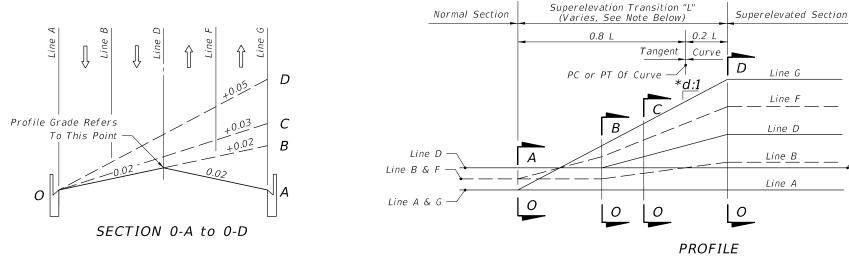
LAST REVISION 07/01/00

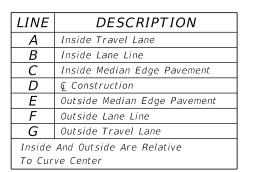
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FDOT

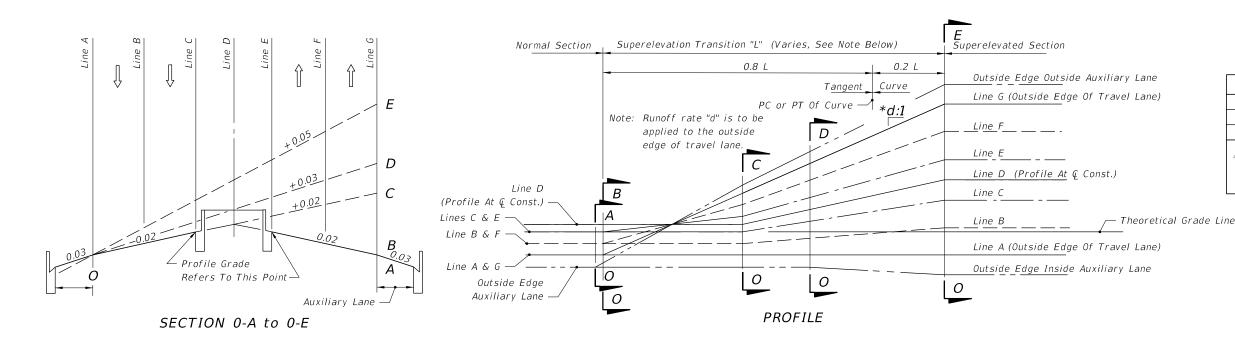
FY 2017-18

DESIGN STANDARDS









| *d (Slope   | Ratio) |
|-------------|--------|
| 30 MPH      | 1: 100 |
| 40 MPH      | 1: 125 |
| 45-50 MPH △ | 1: 150 |
|             |        |

△ 1: 125 May Be Used For 45 MPH Under Restricted Conditions.

### TWO LANES EACH DIRECTION WITH MEDIAN AND AUXILIARY LANE

The sections and profiles shown are examples of superelevation transitions. Similar schemes should be used for roadways having other sections.

## EXAMPLE SUPERELEVATION SECTIONS AND PROFILES FOR URBAN HIGHWAYS AND HIGH SPEED URBAN STREETS

DESCRIPTION: REVISION 07/01/00



FY 2017-18 **DESIGN STANDARDS**  Line G

Line F

Line D

Line B

Line A

Theoretical Grade Line