### STANDARD CROSS-SECTION FOR SIX-LANE DIVIDED HIGHWAY

#### RFD/RAD-616.6-130

**Prepared by**: [Design Name]  
**Checked by**: [Checking Name]  
**Scale**: [Scale]  
**Dwg No**: CBG-2.3MM1  
**Date**: APRIL 2017

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### Centreline to Centreline Spacing

The design cross-section shall be based on design vehicle requirements provided in support for design vehicles in width of approach and as indicated on the plan. Where unavoidable, approach widths shall be increased to accommodate all design vehicles.

### Minimum Within the Right-of-Way Limits for Redistribution

The minimum within the right-of-way limits for redistribution on the 6 : 1 side slope as being unsuitable for salvage shall be utilized.

### Slope 6: Maximum

- **Slope 6**: Maximum
  - Use of Topsoil
    - Normal slope is 1:1
    - Maximum of 2.0m should be used only where maximum difference between adjacent slopes occur and where minimal for development.
    - Minimum depth of median cut 0.5m below subgrade shoulder.

### Rock Cut Section

The height of cut and slope of rock variable depending on material.

### Cut Width and Rounding of Backslope

1. **Cut Width and Rounding**
   - Use of Topsoil
     - Normal slope is 1:1
     - Maximum of 2.0m should be used only where maximum difference between adjacent slopes occur and where minimal for development.
     - Minimum depth of median cut 0.5m below subgrade shoulder.

### Earth Cut Section

1. **Earth Cut Section**
   - Use of Topsoil
     - Normal slope is 1:1
     - Maximum of 2.0m should be used only where maximum difference between adjacent slopes occur and where minimal for development.
     - Minimum depth of median cut 0.5m below subgrade shoulder.

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### Subgrade and Surfacing Dimensions

- **Z Values**: Based on CBG-3.25MM and CBG-3.25MM
- **Y Value**: Thickness is dependent on subgrade design.
- **X Value**: Readings are used to determine total subgrade thickness that may be based on CBG-3.25MM
- **Profile Grades**: As shown on the cross-sections above.

### Use of Topsoil

- **Topsoil**: Select topsoil shall be removed within the construction limits to the depth and width as directed by the Engineer and the use of topsoil shall be directed to the Engineer shall remove the excavated select topsoil to be utilized in the final grading of the subgrade.
- **Minimum Depth**: Minimum depth of median cut 0.5m below subgrade shoulder.

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### Table I: Rounding Cut Rounding

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<th>Fill Grade</th>
<th>Rounding Cut Category</th>
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### Reference

- **Technical Services Branch**
- **Date**: APRIL 2017
- **Approved by**: DES WILLIAMSON

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### Additional Notes

- **All Dimensions**: Expressed in metres unless otherwise noted.

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### Diagram

- **Standard Cross-Section Diagram**
  - Centreline to Centreline Spacing
  - Minimum Within the Right-of-Way Limits for Redistribution
  - Slope 6: Maximum
  - Rock Cut Section
  - Earth Cut Section
  - Use of Topsoil
  - Subgrade and Surfacing Dimensions
  - Table I: Rounding Cut Rounding
  - Reference Notes

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### Diagram Details

- **EARTH CUT SECTION**
  - Use of Topsoil
  - Normal slope is 1:1
  - Maximum of 2.0m should be used only where maximum difference between adjacent slopes occur and where minimal for development.
  - Minimum depth of median cut 0.5m below subgrade shoulder.

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### Additional Information

- **Guidelines for Design**
  - Use of Topsoil
  - Normal slope is 1:1
  - Maximum of 2.0m should be used only where maximum difference between adjacent slopes occur and where minimal for development.
  - Minimum depth of median cut 0.5m below subgrade shoulder.

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### Conclusion

The design cross-section is based on design vehicle requirements provided in support for design vehicles in width of approach and as indicated on the plan. Where unavoidable, approach widths shall be increased to accommodate all design vehicles.