Appendix J

Design Criteria
### Project Name and Location:
Coronation Road EA – CPR Crossing of New Coronation Road – Rossland Road to Twin Streams Road

**Town of Whitby**  
Consultant  
Project Manager: Horace Look  
Project Manager: Gene Chartier

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**CRITERIA** | **REFERENCE/NOTES** | **DESIGN STANDARDS** | **PROPOSED STANDARDS**
--- | --- | --- | ---
Classification | Town of Whitby – Official Plan  
TAC Table 1.3.2.1 (Page 1.3.2.2) | Type B Arterial Road  
UAU70 | Type B Arterial Road  
UAU70
Design Speed | | 70 km/h  
70km/h
Posted Speed | Current Corridor Conditions | 60km/h  
60km/h
Minimum Radius | Town of Whitby – Geometric Design Table C3.01 (per TAC) | 190m  
N/A
Minimum Stopping Sight Distance | Town of Whitby – Geometric Design Table C3.01 | 140m  
140m
Minimum Decision Sight Distance | TAC Table 1.2.5.7 (Page 1.2.5.1) | B-250m  
B-250m
Minimum 'K' Value: | Crest | Town of Whitby – Geometric Design Table C3.01 | 36  
36
| Sag | Town of Whitby – Geometric Design Table C3.01 | 32  
16  
32  
16
Headlight Control  
Comfort Control
Grades: | Town of Whitby – Geometric Design Table C3.01 | 0.5% Min., 5% Max.  
0.5% Min., 5% Max.
Maximum Grade for Through Roads at Intersection | Town of Whitby – Geometric Design Table C3.01 | 2.5%  
N/A*
Maximum Grade for Stop Roads at Intersection | Town of Whitby – Geometric Design Table C3.01 | 1.5%  
N/A*
Minimum Radius at Intersection | Town of Whitby – Standard Drawing #409 | 12.0m  
N/A*
Lane Width: | Through Lanes | TAC Table 2.2.2.3 (iii) (Page 2.2.2.2) | 3.5–3.7m  
3.5–3.75m
| Left Turn Lanes (If Applicable) | TAC Page 2.2.3.1 | 3.3m  
N/A*
| Right Turn Lanes (If Applicable) | | N/A  
N/A*
## Roadway Design Criteria

### Minimum Crossfall
- **CRITERIA**: Minimum Crossfall
- **REFERENCE/NOTES**: Town of Whitby – Geometric Design Table C3.01
- **DESIGN STANDARDS**: 2%
- **PROPOSED STANDARDS**: 2%

### Minimum Crossfall Through Intersection
- **CRITERIA**: Minimum Crossfall Through Intersection
- **REFERENCE/NOTES**: Town of Whitby – Geometric Design Table C3.01
- **DESIGN STANDARDS**: 1%
- **PROPOSED STANDARDS**: N/A*

### Shoulder Width (Rural Roads)
- **REFERENCE/NOTES**: N/A
- **DESIGN STANDARDS**: N/A
- **PROPOSED STANDARDS**: N/A

### Paved Shoulder Width (Rural)
- **REFERENCE/NOTES**: N/A
- **DESIGN STANDARDS**: N/A
- **PROPOSED STANDARDS**: N/A

### Boulevard Slope
- **REFERENCE/NOTES**: Town of Whitby – Standard Drawing #208
- **DESIGN STANDARDS**: 2% Min., 8% Max.
- **PROPOSED STANDARDS**: 2% Min., 8% Max.

### Boulevard Width (Face of Curb to ROW)
- **REFERENCE/NOTES**: N/A
- **DESIGN STANDARDS**: N/A
- **PROPOSED STANDARDS**: Varies (0- 5.75m)

### Sidewalk Width (West Side)
- **REFERENCE/NOTES**: Town of Whitby – Standard Drawing #208
- **DESIGN STANDARDS**: 1.5m
- **PROPOSED STANDARDS**: Varies (1.5-2.0m)

### Multi-Use Path Width (East Side)
- **REFERENCE/NOTES**: Town of Whitby – Standard Drawing #214
- **DESIGN STANDARDS**: 3.0m
- **PROPOSED STANDARDS**: 3.0m

### Right of Way Width
- **REFERENCE/NOTES**: Town of Whitby – Official Plan
- **DESIGN STANDARDS**: 30-36m
- **PROPOSED STANDARDS**: 36m (varies)

* Rossland Road and Twin Stream Road intersection design is to be completed during Detailed Design phase.

### Other Information to be Submitted:

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<th>Submission</th>
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<tr>
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<td>Drainage Report</td>
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<tr>
<td>Other (Specify):</td>
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Prepared by: W. Sanabria P. Eng. Date: January 23, 2014
Checked by: G. Chartier P. Eng. Date: January 23, 2014
Approved by: Horace Look P.Eng. Date: January 23, 2014

NOTES: