NOTES:
- ℓ SWALE TO MATCH GUTTER ELEVATION AT UPSTREAM END. LOWER GUTTER LIP TO MEET SWALE EDGE.
- SWALE EDGE TO MATCH GUTTER ELEVATION IN DOWNSTREAM END. LOWER GUTTER LIP TO MATCH ℓ OF SWALE.
- EXPANSION JOINTS TO BE CONSTRUCTED AT ENDS OF SWALE WHERE SWALE ABUTS GUTTERS.
- CONTRACTION JOINTS 50 DEEP AND 5 WIDE TO BE CONSTRUCTED 3m ON CENTERS ALONG SWALE.
- CROWN OF ROAD TO BE TAPERED, STARTING 15m FROM SWALE, TO PROVIDE SMOOTH VEHICULAR CROSSING OF SWALE.
- MINIMUM GRADE = 0.6%
- CONCRETE SWALE TO BE USED WHEN ASPHALT GRADE IS LESS THAN 1%
TYPICAL CROSS-SECTION A-A

NOTES:
1. TOOLED GROOVES 5mm WIDE X 10mm DEEP, BROOM FINISH GROOVE SPACING 150mm O.C. ADJACENT TO CURB.
2. WHERE RAMP IS TO BE USED AS A TRANSITION, USE THE CENTRE OF THE 150mm RAMP AS THE CENTRE OF THE TRANSITION.
3. WHERE CURB FACE IS 200mm, DISTANCE OF FLARE SHOULD BE 1600mm.
4. CURBS AND RAMPS TO BE Poured MONOLITHICALLY.
5. 150mm MINIMUM GRAVEL UNDER ALL CONCRETE STRUCTURES.

THE CITY OF SPRUCE GROVE

PLANNING AND INFRASTRUCTURE

REVISIONS

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<tbody>
<tr>
<td>03/13</td>
<td>GRANULAR BASE</td>
<td>SW</td>
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PARA RAMP DETAILS

DRAWN: T. CRAWFORD       DATE: MARCH 6, 2006
CHECKED: J. MUSTARD      SCALE: NOT TO SCALE
APPROVED: J. MUSTARD     DRAWING No.: TN-06
SEE DETAIL 1

R = 150

1200

DETAIL '1'

150x150 P18/P18 GAUGE
1.5m WIDE WELDED WIRE FABRIC

SECTION A-A STRAIGHT FACE

150mm MINIMUM GRANULAR BASE
CEMENT STABILIZED SUBGRADE

SECTION A-A ROLLED FACE

150mm MINIMUM GRANULAR BASE
CEMENT STABILIZED SUBGRADE

NOTES:
1. MAXIMUM SLOPE 8% UNLESS OTHERWISE APPROVED BY ENGINEER.
2. CROSSING TO BE Poured MONOLITHICALLY WITH CURB AND GUTTER.
3. BACK OF CROSSING DROP FOR EXISTING 200mm CURB/FACE IS 100mm.
4. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.
SAG = 50 FOR STRAIGHT FACE
= 20 FOR ROLLED FACE

SECTION A-A

NOTES:
1. MAXIMUM SLOPE 8% UNLESS OTHERWISE APPROVED BY ENGINEER.
NOTE: MEDIANs AND ISLANDS
TO BE CROWNED OR SLOPED TO PROVIDE
DRAINAGE TO GUTTER.

LEAVE 13mm WIDE X 30mm
DEEP SHAPED JOINT AT TOP.
FILL JOINT WITH APPROVED
ELASTIC TYPE CRACK FILLER.

150mmX10m BAR AT 1m
INTERVALs

150mm MINIMUM
GRANULAR BASE

SECTION A-A

THE CITY OF
SPRUCE GROVE

PLANNING AND INFRASTRUCTURE

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DATE DETAILS DRAWN
03/13 GRANULAR BASE SW

TYPICAL MEDIAN

DRAWN: T. CRAWFORD DATE: MARCH 6, 2006
CHECKED: J. MUSTARD SCALE: NOT TO SCALE
APPROVED: J. MUSTARD DRAWING No.: TN-09
DEPTH OF TOP LIFT DEFERRED

0.60m

0.15m MIN.

0.60m

ULTIMATE HEIGHT OF CURB TOP

BACK OF CURB

GUTTER

LIP

0.6m TRANSITION

DEPRESSED SECTION

0.6m TRANSITION

PLAN VIEW

NOTES:
1. TYPICAL CURB & GUTTER TREATMENT AT CATCH BASIN WHEN ASPHALT TOP LIFT IS DEFERRED. LOCATION TO BE DETERMINED BY ENGINEER.
NOTE:

SERVICE BOXES SHALL BE SET VERTICAL – 150mm ABOVE THE SIDEWALK/CURB ELEVATION WHEN THE SERVICE BOX IS IN THE EXTENDED POSITION. AT THE TIME OF SIDEWALK/CURB CONSTRUCTION THE LETTERS "CC" SHALL BE NEATLY MARKED INTO THE MOIST CONCRETE DIRECTLY OPPOSITE EACH SERVICE BOX.
SIDEWALK REQUIRED IN CUL DE SACS OF MORE THAN 10 LOTS TO MINIMUM MID-RADIUS OR EXTENDED TO THE NEXT PROPERTY LINE.

TYP. 18m R.O.W.
F.O.C.

RADIUS
RECOMMENDED: 13.15m
MINIMUM: 11.15m
NOTES:
1. PROVIDE A BUS STOP & AMENITIES PAD WITH WIDTH "X" AND LENGTH "Y" IN ACCORDANCE WITH THE DRAWING NOTES AND TABLE A (SEE BELOW). PROVIDE APPROPRIATE CRACK CONTROL JOINTS THROUGHOUT.
2. IF REQUIRED PAD WIDTH "X" IS LESS THAN 1.0m FROM SIDEWALK, POUR THE CONCRETE PAD TO THE SIDEWALK. OTHERWISE, PROVIDE A 3.0m WIDE WALK CONNECTION AT THE HEAD OF THE PAD.

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>DISTANCE &quot;Z&quot; TO SIDEWALK</th>
<th>REQUIRED PAD WIDTH &quot;X&quot; (m)</th>
<th>REQUIRED PAD WIDTH &quot;Y&quot; (m)</th>
<th>BUS STOP SIGN LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVER-CONSTRAINED</td>
<td>Z &lt; 2.25m</td>
<td>NOT PERMISSIBLE</td>
<td>NOT PERMISSIBLE</td>
<td>NOT PERMISSIBLE</td>
</tr>
<tr>
<td>CONSTRAINED</td>
<td>2.25m &lt;= Z &lt; 3.0m</td>
<td>&quot;X&quot; = &quot;Z&quot;</td>
<td>&quot;Y&quot; = &quot;Z&quot; (MAX 4.1m)</td>
<td>3m BACK FROM HEAD</td>
</tr>
<tr>
<td>NOT CONSTRAINED</td>
<td>3.0m &lt;= Z</td>
<td>&quot;X&quot; = &quot;Z&quot;</td>
<td>&quot;Y&quot; = &quot;Z&quot; (MAX 4.1m)</td>
<td>HEAD OF PAD</td>
</tr>
</tbody>
</table>

SECTION A-A

NOTES:
1. CEMENT STABILIZED SUBGRADE, and
2. 150mm MINIMUM GRANULAR BASE UNDER ALL CONCRETE

THE CITY OF SPRUCE GROVE
PLANNING AND INFRASTRUCTURE

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TRANSIT STOP — SEP. WALK

DRAWN: R. PEDLAR     DATE: FEBRUARY 1, 2013
CHECKED: J. MUSTARD  SCALE: NOT TO SCALE
APPROVED: J. MUSTARD  DRAWING No.: TN-13
NOTES:
1. PROVIDE A BUS STOP & AMENITIES PAD WITH WIDTH "X" AND LENGTH "Y" IN ACCORDANCE WITH THE DRAWING NOTES AND TABLE A (SEE BELOW). PROVIDE APPROPRIATE CRACK CONTROL JOINTS THROUGHOUT.
2. MAINTAIN MIN. 0.3m CLEARANCE BETWEEN PROPERTY LINE AND AMENITIES PAD.

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>DISTANCE &quot;Z&quot; TO PROPERTY LINE</th>
<th>REQUIRED PAD WIDTH &quot;X&quot; (m)</th>
<th>REQUIRED PAD LENGTH &quot;Y&quot; (m)</th>
<th>BUS STOP SIGN LOCATION BEHIND SIDEWALK</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVER-CONSTRAINED</td>
<td>&quot;Z&quot; &lt; 2.4m</td>
<td>2.1m</td>
<td>0.9</td>
<td>HEAD OF PAD</td>
</tr>
<tr>
<td>CONSTRAINED</td>
<td>2.4m ≤ &quot;Z&quot; &lt; 3.8m</td>
<td>&quot;Z&quot; ≤ 0.3m (MAX. 3.0m)</td>
<td>1.0</td>
<td>3m BACK FROM HEAD</td>
</tr>
<tr>
<td>NOT CONSTRAINED</td>
<td>&quot;Z&quot; &gt; 3.8m</td>
<td>&quot;Z&quot; ≤ 0.3m (MAX. 4.1m)</td>
<td>0.5</td>
<td>HEAD OF PAD</td>
</tr>
</tbody>
</table>

SECTION A-A

NOTES:
1. CEMENT STABILIZED SUBGRADE, and
2. 150mm MINIMUM GRANULAR BASE UNDER ALL CONCRETE

THE CITY OF SPRUCE GROVE

PLANNING AND INFRASTRUCTURE

REVISIONS

TRANSPORT STOP — MONO WALK

DRAWN: R. PEDLAR  DATE: FEBRUARY 1, 2013
CHECKED: J. MUSTARD  SCALE: NOT TO SCALE
APPROVED: J. MUSTARD  DRAWING No.: TN—14