

2013 Engineering Standards Modifications- Updated June 23, 2015

Please take a few minutes to review the following communication from the City of St. Albert Engineering department. The purpose of this modifications sheet is to provide a consistent message for all parties involved in development within the City of St. Albert.

Please note that while the City of St. Albert has made every attempt to highlight changes made to the City's Engineering Standards, through notations in the Engineering Standards and production of this modifications sheet, the City does not warrant that all changes have been captured through these activities. It is the responsibility of parties undertaking development activities within the City to ensure they have the most current version of the Engineering Standards and they are familiar with, and following the City's Engineering Standards.

Topic 1 – Transition to 2013 Standards

City of St. Albert's official position with respect to the 2013 Municipal Engineering Standards:

The 2013 Municipal Engineering Standards were officially posted upon the City webpage on April 5, 2013 with the understanding that any elements of construction that receive full CCC by October 15, 2013 can still be designed according to the 2006 Municipal Engineering Standards. Anything that is inspected after October 15, 2013 will be subject to comply with the new 2013 Municipal Engineering Standards.

Projects that have unique circumstances and/or carry over work into the 2014 construction season will be evaluated on a case by case basis.

Topic 2 – Communication of suggestions for the 2013 standards

Appendix G – Standards Revision Request Form is available as a formal method to address commentary on the 2013 standards.

Alternatively, email requests and drawing markups will be compiled into a common folder for review during the winter season of 2013/2014. If you choose this option, please address the subject line of the email to: 2013 Standards.

Topic 3 – Construction Modifications to the 2013 Standards

The 2013 Municipal Engineering Standards are to be followed for development, conditional to the Topic 1 statement above.

Over the course of the 2013 construction season, concerns over the details within the standards will be responded to as they arise (it is respected that this is a transitional process for all stakeholders). Any modification to the 2013 Standards related to development will be communicated in a Development Communication email.

Thank you for your attention to this message. Please continue reading for the details for each specific modification.

Engineering Standards Modifications

2013-04-30 Modification #1 – frequency of compaction testing on power trench re-conditioning

- During a meeting for the Erin Ridge North development, the topic of frequency for testing on power trench re-conditioning came up. There was confusion as to whether the testing frequency should be every 25m or every 50m for 150mm (max thickness) lifts.
 - **The testing frequency shall be every 50m for 150mm (max thickness) lifts.**

2013-05-14 Modification #2 – lot services within a cul de sac

- During a Genstar site meeting, the topic of augering versus open cut lot services within a cul de sac came up. Given that cul de sacs are heavily disturbed due to relative proximity of multiple services, these services can be open cut with uniform back fill for a cul de sac.
 - **Lot services within cul de sacs may be open cut provided uniform back fill is used.**

2013-05-28 Modification #3 – landscape topsoil thickness

- It has been noted that the 2013 Municipal Engineering Standards call for 250mm of topsoil in landscaped areas. This thickness should have been 200mm.
 - **Landscape topsoil thickness should be 200mm.**

2013-05-28 Modification #4 – asphalt trail gravel base thickness

- It has been noted that the 2013 Municipal Engineering Standards call for 150mm of gravel base for asphalt trails (Drawing 10.1). This thickness should have been 200mm.
 - **Asphalt trail gravel base thickness should be 200mm.**

2013-06-04 Modification #5 – clarification of structure underneath commercial curb crossing

- It has been noted that the 2013 Municipal Engineering Standards call for 50mm of compacted granular fill underneath the concrete curb crossing (Drawing 3.18). This thickness should have been 150mm, placed upon 150mm of prepared sub-grade compacted to 100% S.P.D.
 - **Commercial curb crossing gravel base thickness should be 150mm over 150mm of prepared sub-grade compacted to 100% S.P.D.**

Engineering Standards Modifications

2013-08-19 Modification #6 – clarification of drawing details and updated notes.

- Drawing 3.18 Commercial Curb Crossing- Drawing was updated to show references to straight face curb and gutter, LOG, and expansion board. Textual corrections or additions were made to Notes 3, 7, and 10.
- Drawing 3.22 Bus Stop Pad & Bus Shelter Pad- Drawing was updated to show the location details for the City's branding stamp. Note 5 was added.
- Drawing 3.23 Bus Stop Pad (On Collector No Bus Shelter) - Drawing was updated to show the location details for the City's branding stamp. Note 3 was added.

2013-09-30 Modification #7 –updated text in standards, and clarification of drawing details.

- Text changes to 1.21 As-Built Drawings and Record Drawings-
- Text changes to 1.21.6 was updated to remove the requirement to submit one mylar print of the as-built record drawings.
- Text changes to 3.21 Roadway Signage- was updated to show correct street signage requirements.
- Drawing 3.22 Bus Stop Pad & Bus Shelter Pad (Wide (6.5m) Boulevard)- Drawing was updated to show the location details of the bus shelter pad in relation to property lines, show the distance from the sidewalk to the Front of Curb (FOC) is 2.5m, not the Back of Curb (BOC). Drawing title was modified to include reference to this detail being relevant to areas with wide boulevards (6.5m).
- Drawing 3.22A Bus Stop Pad & Bus Shelter Pad (Short (4.5m) Boulevard)- New drawing was added to show the location details of the bus shelter pad in relation to the boulevard. Drawing was added to address the need for an additional bus shelter location in areas with short boulevards (4.5m).
- Drawing 3.23 Bus Stop Pad (On Collector No Bus Shelter) - Drawing was updated to show the distance from the sidewalk to the Front of Curb (FOC) is 2.5m, not the Back of Curb (BOC).

2015-03-15 Modification #8- Updates to standards.

- Text changes to 1.0, 2.1.2, 2.1.3, 2.2.8, 2.2.9, 5.1.3, 6.2.8, 6.3.1, 6.23.1, 7.2.2.b, 7.2.2.e, 7.3.4.b, 7.3.7.f, 7.4.2, 7.8.8, 7.11.2.g

2014-04-24 Modification #9- Updates to standards and drawings.

- Text changes to 1.10.1.b Development Agreement application requirements- Stripping and grading permit
- Text changes to 3.7.2 Driveways.
- Text changes to 4.3.2 Curb and Gutter bollard requirements.
- Text changes to 5.2.8. Water Mains- added item i).

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- Text changes to 6.8.7 Manhole frames and covers.
- Text changes to 6.22.5 Pipe Installation- Manhole Break-Ins.
- Text changes to 7.16.8 Manhole frames and covers.
- Text changes to 7.17.4 Catch basins frames and covers
- Text changes to 7.9 Oil and Grit Interceptors (OGIs).
- Text changes to 10.4.3 Design Guidelines - Pathway entrances/wheelchair ramps
- Text changes to 10.4.5 Design Guidelines – Maximum Grades
- Text changes to 14.12 Bollards
- Drawing changes to Engineering standards drawings 3.1, 3.2, 3.3, 3.4, 3.14, 3.15, 3.16, 3.17, 3.18, 3.22A, 3.22B, 3.25, 3.26, 3.27, 6.7, 6.8, 6.9, 7.2, 7.8A, 7.8B, 7.8C, 7.9, 14.18
- Drawing changes to Landscaping standards drawings 11.1, 11.2, 11.3, 11.5, 11.6, 11.10, 11.11A, 11.12, 11.13, 11.7, 11.8, 11.9, 13.1, 14.11, 14.12, 14.15, 15.0, 18.1, 18.2, 18.3, 18.4, 18.5

2014-06-25 Modification #10- Updates to standards and drawings.

- Text changes related to manholes made in 6.8.7 and 7.16.8.
- Drawing changes to landscaping drawings 11.0 and 11.1 in Appendix D and typographical error corrected in engineering drawing 7.2 in Appendix A.

2014-10-03 Modification #11- Updates to standards and drawings.

- Text changes related to manholes made in 6.3.9, 6.23 and 7.16.
- Drawing changes to: 6.1, 6.2, 6.7, 6.8, 6.9, 7.1, and 7.3.

2015-01-21 Modification #12- Updates to standards.

- Text changes to 1.1.1 As-Built definition.
- Text changes to 1.20.1 Warranty- related to warranty period effective date.
- Text changes to 1.21.5, 1.21.6, and addition of 1.21.8
- Text changes to Appendix B-2 CCC Request Form
- Text changes to Appendix B-3 FAC Request Form

2015-04-15 Modification #13- Updates to standards and drawings.

- Text changes to 1.16.1 Construction- related to noise & vibration monitoring.
- Text changes to Table 3.4 – Pavement Structure Minimum Thicknesses in 3.8.2.
- Text changes to table in 11.1.1 Landscaping- minimum setback requirements.
- Drawing changes to: Please note drawings included in this update may show change dates from Jan. – April, 2015
 - 3.2 - 9.0m Local (Residential)
 - 3.3 - 11.0m Minor Collector (Residential & Commercial)
 - 3.4 - 12.0m Major Collector (Residential & Commercial)

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- 3.5 - 15.0m Undivided Arterial
- 3.6 - 20.5m Divided Arterial
- 3.14 - Driveway Residential Crossing 2 Car Garage (Max 7.5m)
- 3.15 - Driveway Residential Crossing 3 Car Garage (Max 7.5m)
- 3.16 - Driveway Residential Crossing for Small Lots (< 12.2m)
 - was drawing 3.17
- 3.17 - Traditional Style Commercial Curb Crossing
- 3.18 - Commercial Curb Crossing
- 3.21 - Bus Stop Pad (on Existing Monowalk)
- 3.22 - Bus Stop Pad and Bus Shelter Pad- Collector Roadway
 - drawing 3.22A and 3.22B combined into one drawing
- 3.23 - Bus Stop Pad and Bus Shelter Pad- Arterial Roadway
- 6.5 - Internal Drop Manhole
- 6.6 - Sanitary Sewer Service with Riser

2015-05-13 Modification #14- Updates to drawings.

- Drawing changes to:
 - 3.17 – clarification of construction details
 - 3.18 – clarification of construction details
 - 5.1 – clarification of hardware
 - 5.2A – revised application for 25mm residential water service
 - 5.2B – NEW 50mm water service drawing
 - 5.2C – (formerly drawing 5.2B) renamed and clarification of hardware.
 - 5.4A - clarification of hardware
 - 5.4B - clarification of hardware

2015-06-12 Modification #15- Updates to standards and drawings.

- Text changes to 1.3.2 - Added LED lighting requirement for new development areas
- Text changes to 5.2.9(d) - Clarified air release valve details
- Text changes to 5.6.3 - Corrected size of water service to 25mm
- Text changes to 5.6.5 - Standardized depth of bury for water service to 3.0 m at property line
- Text changes to 5.6.11 - Clarify lot water service termination
- Text changes to 5.8.7 - Clarified hydrant connection details
- Text changes to 5.9.1(j) - Added brass stem as an accepted alternate
- Text changes to 5.9.2(a) - Corrected butterfly valve specifications
- Text changes to 5.11.1(a) - Updated water service size and materials
- Text changes to 5.11.1(e) - Added specifications for PEXa materials
- Text changes to 5.11.4(b) - Included PEXa option for main stops
- Text changes to 5.11.5 - Specified non-draining curb stops
- Text changes to 5.11.5(e) - Added details to service box
- Text changes to 5.12.1 - Clarified cathodic protection requirements

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- Text changes to 5.29.2 - Uniform backfill for water services
- Text changes to 5.29.11(a) - Service support block materials
- Text changes to 6.24.2 - Uniform backfill for sanitary services
- Text changes to 6.4.3 - Clarify lot service details for sanitary
- Text changes to 6.4.5 and 6.5.5 - Clarify depth of bury for wastewater service connection
- Text changes to 6.5.12 - Clarify lot sanitary service termination
- Text changes to 6.5.16 - Sampling manhole clarification – sanitary
- Text changes to 6.8.4 - Clarify pre-benched and pre-cored wastewater manholes
- Text changes to 6.23.1(g) - Added ladder content to sanitary manholes
- Text changes to 6.24.5 - Clarify lot sanitary service termination
- Text changes to 7.7.2 - Clarify lot storm service termination
- Text changes to 7.11.2(g) - Added 3m easement width requirement for swales
- Text changes to 7.16.5 - Clarify pre-benched and pre-cored stormwater manholes
- Text changes to 7.34 - Added content to the setting of catch basins
- Text changes to 7.35 - Clarify lot service details for storm
- Drawing changes to 3.24, 5.2A, 5.3A, 5.3B, 5.4A, 5.4B, 7.8A, 7.8B, and 7.8C

2015-06-23 Modification #16- Updates to drawings.

- Drawing changes to:
 - 5.2A – revised
 - 5.2B – revised
 - 5.4 – replaced 5.4A, deleted 5.4B