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March 5, 2019

Ironclad Developments Inc.
101-57158 Symington Road 20E
Springfield, MB
R2J 4L6

ADDENDUM # 1

Re: 800 Eagleson Road - Reduction of Dwelling Units from 143 units to 130 units

Kollaard Associates has been informed that the design of the proposed 6 storey apartment building has been reduced from a total of 143 units to 130 units. We have reviewed the impacts of this change in regards to the storm water management and servicing designs for the development and have concluded the following:

- 1) The storm water management design remains the same.
- 2) a) The Total Peak Sanitary Flow has been reduced from 3.33 L/sec to 3.15 L/sec
b) The total fixture count has been reduced from 2024 fixture units to 1924 fixture units
c) The sanitary service lateral will remain the same (200mm dia. pipe sloped at 2% min.)
- 3) a) The average daily water demand has been reduced from 104125 Litres/day or 1.21 L/s to 98630 Litres/day or 1.14 L/s.
b) The maximum daily water demands has been reduced from 3.01 L/s to 2.85 L/s
c) The peak hourly water demand has been reduced from 6.63 L/s to 6.27 L/s
d) The fire flow demand has reduced insignificantly
e) The water service pipe will remain the same (200mm dia. PVC DR 18 C150 pressure pipe)

After our review, we confirm that the storm water management and servicing design will remain the same as previously submitted on the Civil Drawings (File # 180084 - Rev # 5, dated Feb 20, 2019), and in the Servicing and SWM Report (File # 180084 - Rev # 3, Feb 7, 2019).

Sincerely,
KOLLAARD ASSOCIATES INC.



Steven deWit, P.Eng.