

January 19, 2020

File No.: 10-08025-3.2

Johnathan Reid, P.Eng. LEED AP  
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Engineering Services  
City of St. Albert  
2<sup>nd</sup> Fl., St. Albert Place  
5 St. Anne Street  
St. Albert, AB. T8N 3Z9

Dear Sir:

**Re: Riverside 2020 NDR Amendment  
For Riverside NSP 2020 Amendment**

This NDR amendment in support of the Riverside 2020 NSP Amendment.

The Riverside 2020 NSP Amendment proposes to change the size of the north central stormwater management facility (SWMF) located immediately north of Mckenney in the center of the Neighbourhood as shown in Figure 1.

**Storm**

As per the existing approved NDR, SWMF 4 requires 55,800m<sup>3</sup> of storage as shown in Figure 3.5. SWMF 4 in the proposed ASP amendment, shown on Figure 3.5 R has a PUL area of 5.08 ha and provides 60,400m<sup>3</sup>. No revision is proposed to storm basin size or the runoff coefficients.

Should you have any questions or require additional information, please call me at 780-701-7564.

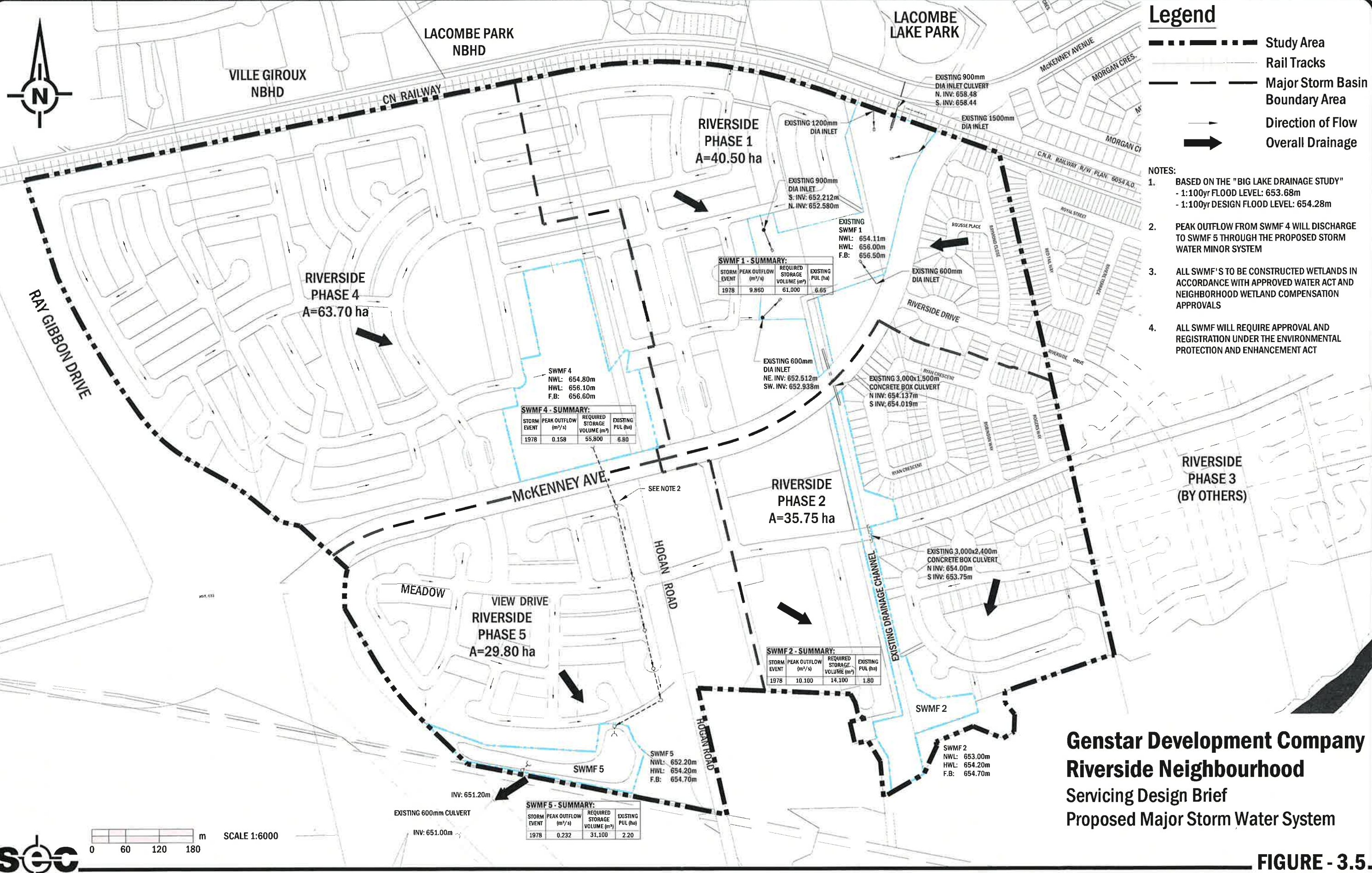
Sincerely,

**Select Engineering Consultants**



**Tannis Wisheu, P. Eng.**  
Senior Project Engineer  
twisheu@selecteng.ca

Attachments  
cc:



SAVED BY: FZERFASS PLOT DATE: March 5, 2015



**Genstar Development Company**  
**Riverside Neighbourhood**  
 Servicing Design Brief  
 Proposed Major Storm Water System

**FIGURE - 3.5**

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### Legend

- Study Area
- Rail Tracks
- Major Storm Basin Boundary Area
- Direction of Flow
- Overall Drainage

**NOTES:**

1. BASED ON THE "BIG LAKE DRAINAGE STUDY"
  - 1:100yr FLOOD LEVEL: 653.68m
  - 1:100yr DESIGN FLOOD LEVEL: 654.28m
2. PEAK OUTFLOW FROM SWMF 4 WILL DISCHARGE TO SWMF 5 THROUGH THE PROPOSED STORM WATER MINOR SYSTEM
3. ALL SWMF'S TO BE CONSTRUCTED WETLANDS IN ACCORDANCE WITH APPROVED WATER ACT AND NEIGHBORHOOD WETLAND COMPENSATION APPROVALS
4. ALL SWMF WILL REQUIRE APPROVAL AND REGISTRATION UNDER THE ENVIRONMENTAL PROTECTION AND ENHANCEMENT ACT

RAY GIBBON DRIVE

RIVERSIDE PHASE 4  
A=63.70 ha

RIVERSIDE PHASE 1  
A=40.50 ha

RIVERSIDE PHASE 2  
A=35.75 ha

RIVERSIDE PHASE 5  
A=29.80 ha

RIVERSIDE PHASE 3  
(BY OTHERS)

**SWMF 1 - SUMMARY:**

STORM EVENT	PEAK OUTFLOW (m <sup>3</sup> /s)	REQUIRED STORAGE VOLUME (m <sup>3</sup> )	EXISTING PUL (ha)
1978	9.860	61,000	6.65

**SWMF 4 - SUMMARY:**

STORM EVENT	PEAK OUTFLOW (m <sup>3</sup> /s)	REQUIRED STORAGE VOLUME (m <sup>3</sup> )	EXISTING PUL (ha)
1978	0.158	55,800	5.98

**SWMF 2 - SUMMARY:**

STORM EVENT	PEAK OUTFLOW (m <sup>3</sup> /s)	REQUIRED STORAGE VOLUME (m <sup>3</sup> )	EXISTING PUL (ha)
1978	10.100	19,100	1.80

**SWMF 5 - SUMMARY:**

STORM EVENT	PEAK OUTFLOW (m <sup>3</sup> /s)	REQUIRED STORAGE VOLUME (m <sup>3</sup> )	EXISTING PUL (ha)
1978	0.232	31,100	2.20

SWMF 4  
NWL: 654.80  
HWL: 656.30  
F.B.: 656.80  
BTM: 652.30

SWMF 5  
NWL: 652.20m  
HWL: 654.20m  
F.B.: 654.70m

SWMF 2  
NWL: 653.00m  
HWL: 654.20m  
F.B.: 654.70m

EXISTING 900mm DIA INLET CULVERT  
N. INV: 658.48  
S. INV: 656.44

EXISTING 1200mm DIA INLET

EXISTING 900mm DIA INLET  
S. INV: 652.212m  
N. INV: 652.580m

EXISTING SWMF 1  
NWL: 654.11m  
HWL: 656.00m  
F.B.: 656.50m

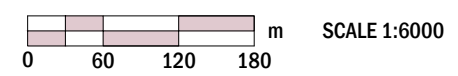
EXISTING 600mm DIA INLET

EXISTING 3,000x1,500mm CONCRETE BOX CULVERT  
N INV: 654.137m  
S INV: 654.019m

EXISTING 3,000x2,400mm CONCRETE BOX CULVERT  
N INV: 654.00m  
S INV: 653.75m

EXISTING 800mm CULVERT  
INV: 651.00m

INV: 651.20m



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**FIGURE - 3.5R**

