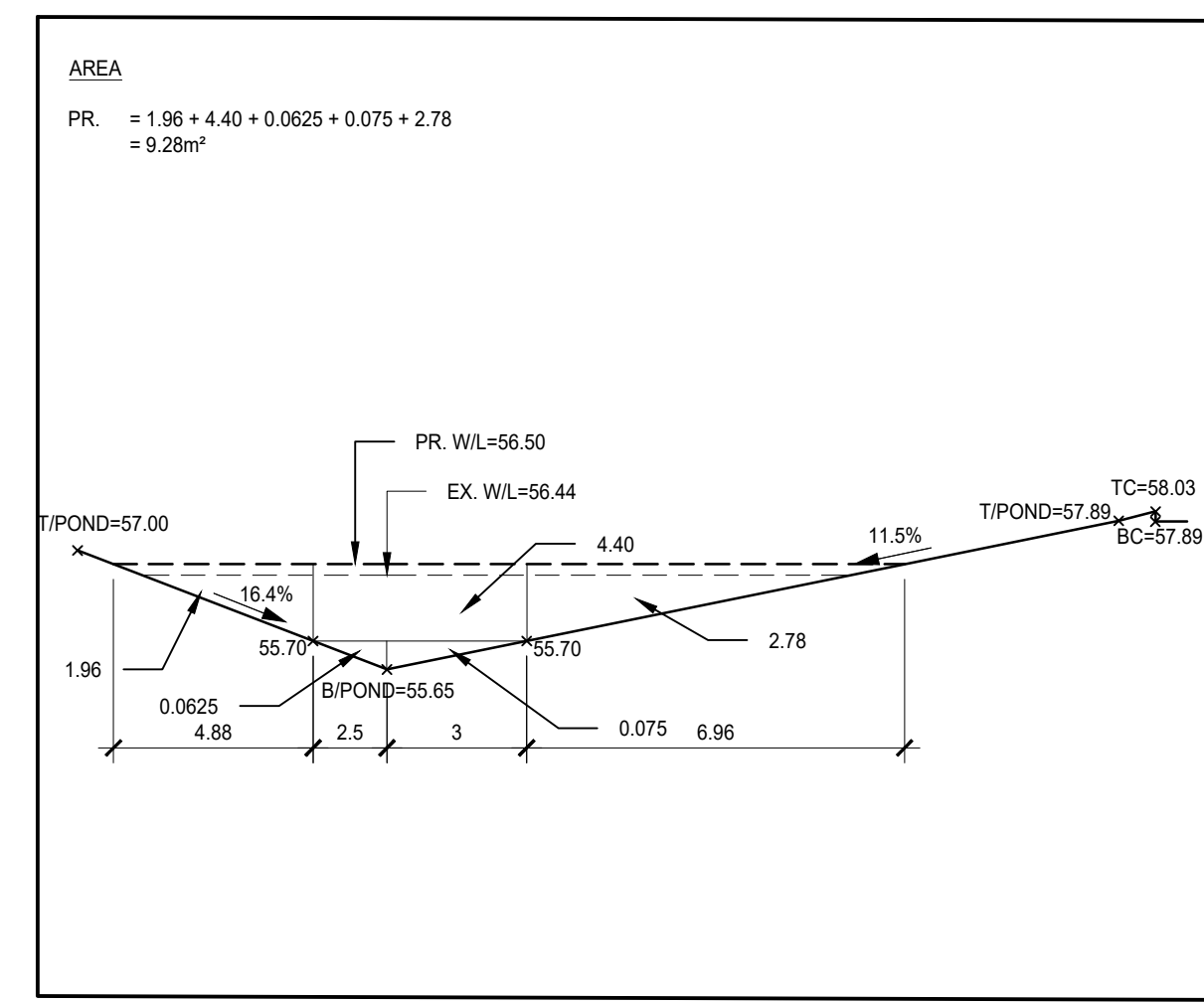


**SWM CALCULATIONS**

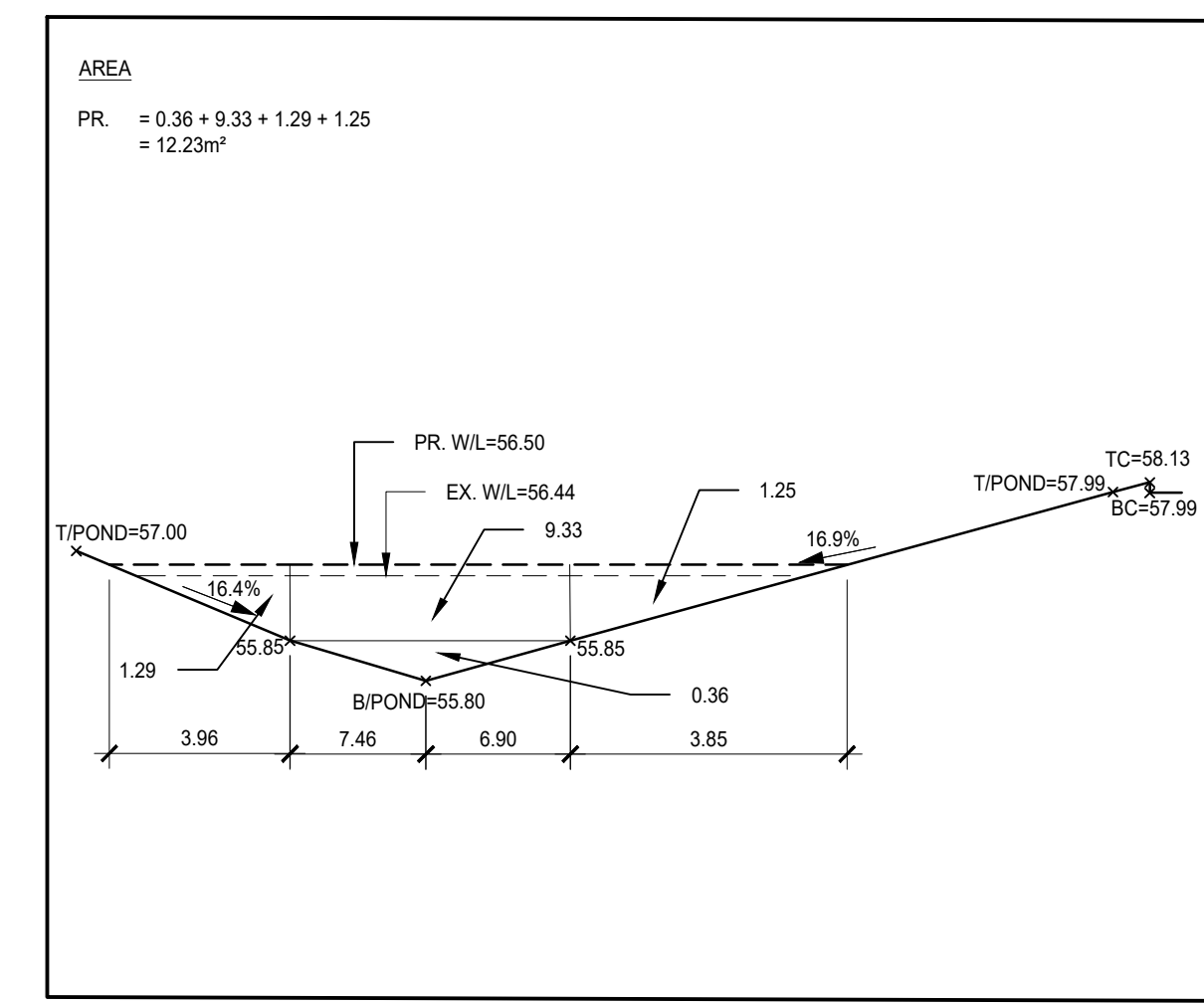
ASPHALT/CONCRETE = 9,848.66 m<sup>3</sup>  
 BUILDING = 7,698.40 m<sup>3</sup>  
 GRASS = 13,252.93 m<sup>3</sup>  
 TOTAL = 30,800.00 m<sup>3</sup> (3.08 ha)

A1 (UNCONTROLLED) = 0.15 ha C = 0.42  
 A2 (TO POND) = 0.98200 ha  
 ASPHALT = 0.76984 ha  
 BUILDING = 0.76984 ha  
 GRASS = 1.21500 ha  
 C =  $\frac{(1.215 \times 0.25) + (0.770 \times 0.95) + (0.982 \times 0.95)}{(0.982 + 0.770 + 1.215)}$   
 = 0.66 > 0.61

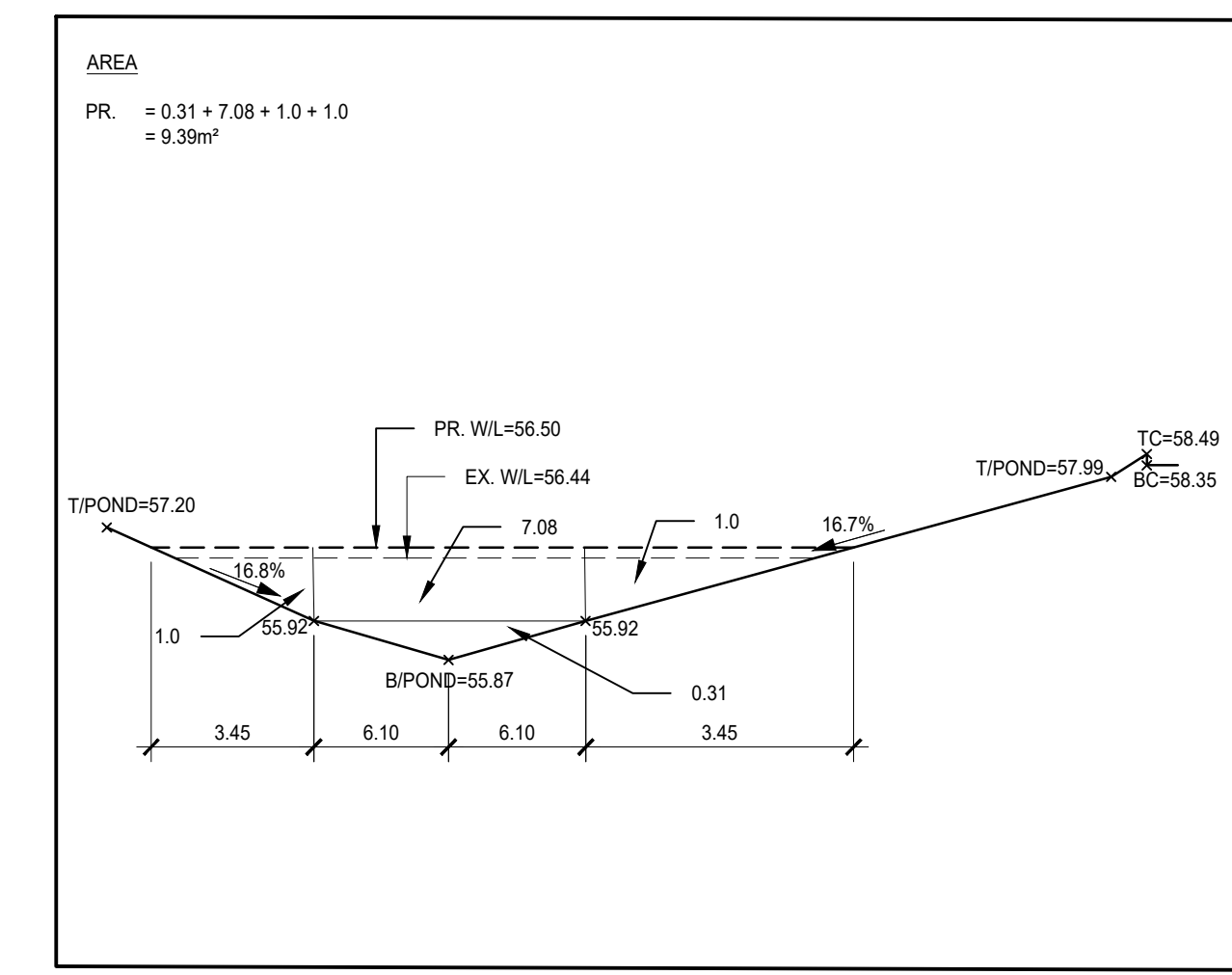
THEREFORE, 37m<sup>3</sup> MORE STORAGE IS REQUIRED IN POND. SEE APPENDIX B OF SWM REPORT BY MCG FOR MORE DETAILS



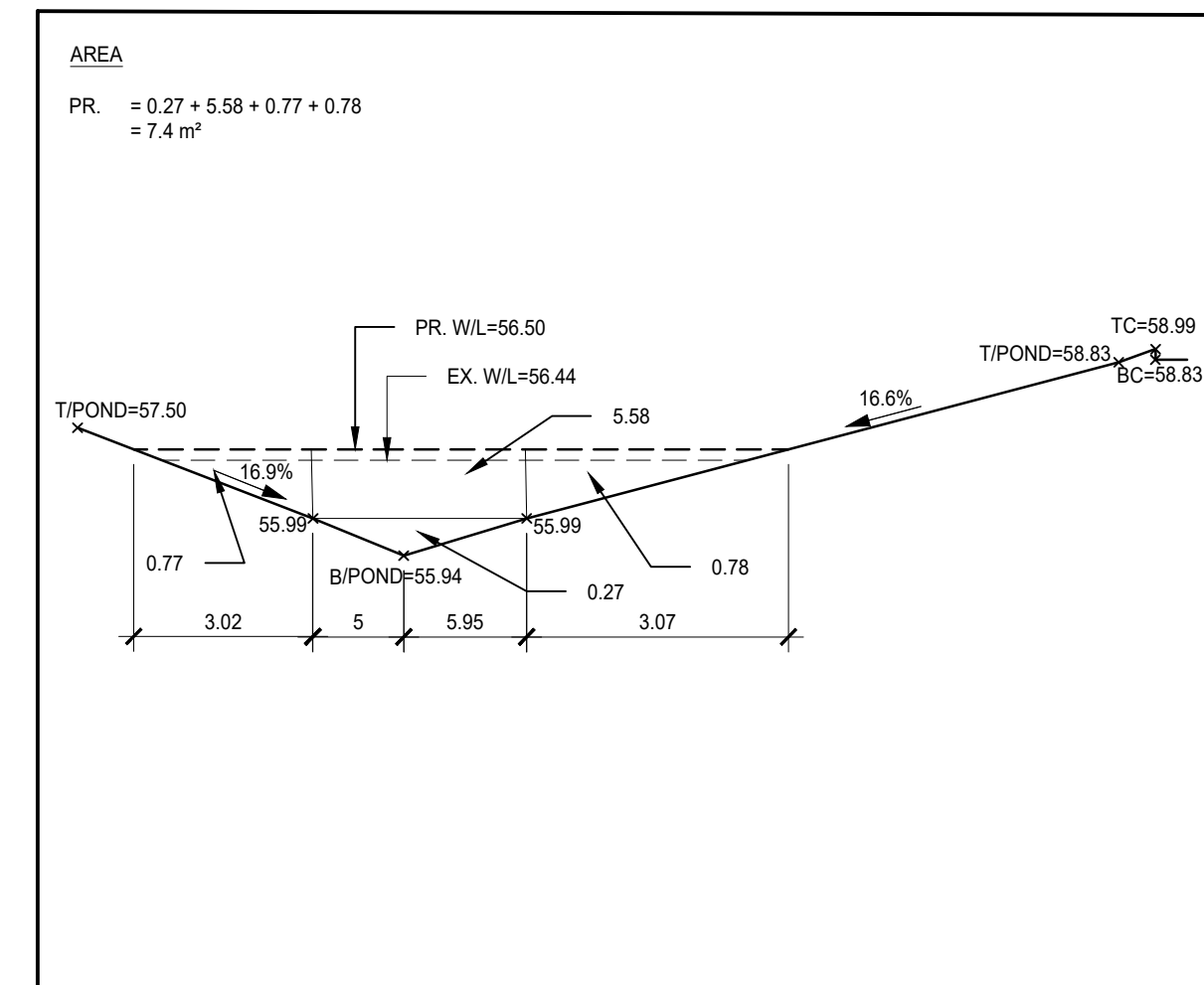
1 SECTION STA + 0  
 C4.20 SCALE: NOT TO SCALE



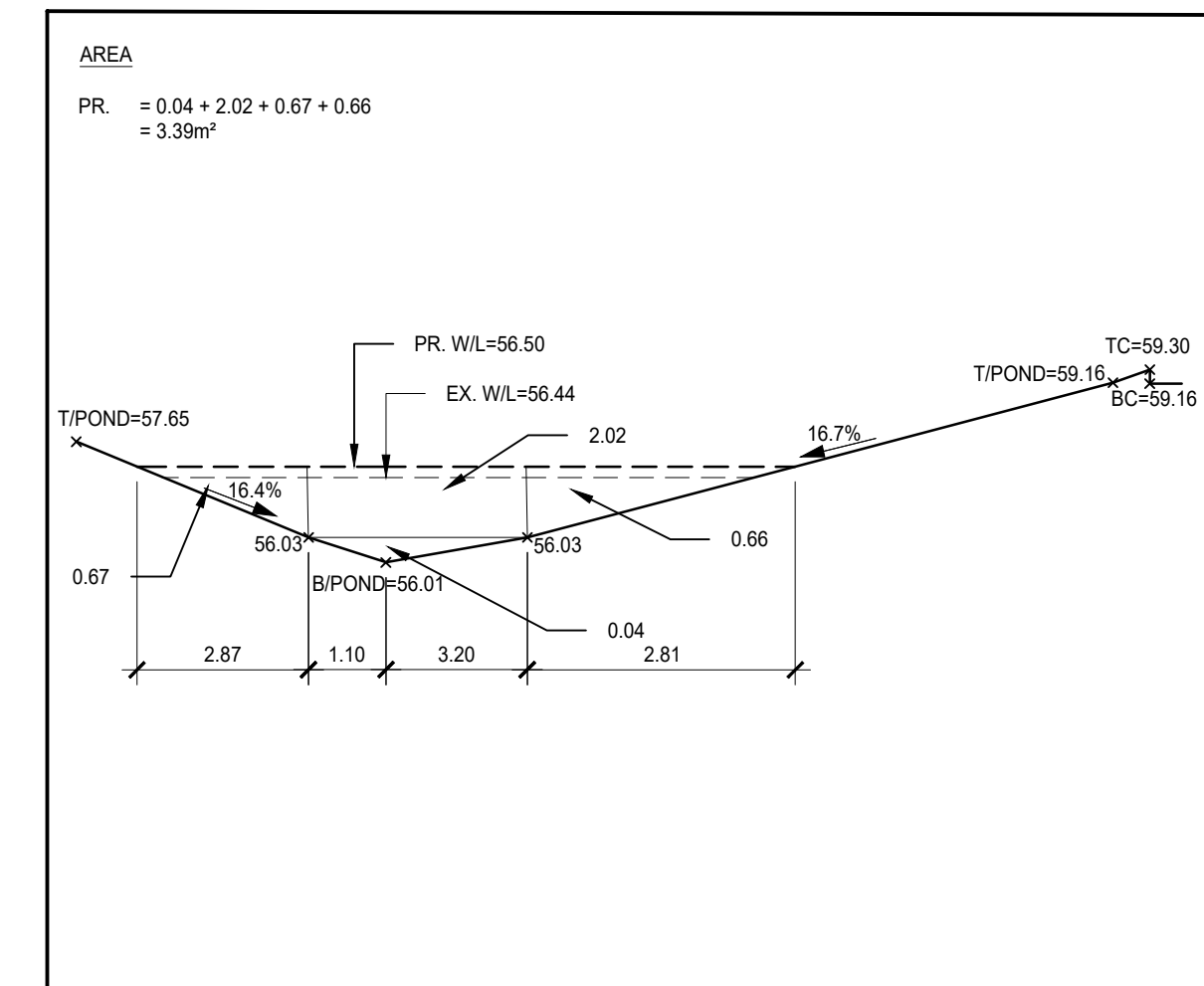
2 SECTION STA + 10  
 C4.20 SCALE: NOT TO SCALE



3 SECTION STA + 20  
 C4.20 SCALE: NOT TO SCALE



4 SECTION STA + 30  
 C4.20 SCALE: NOT TO SCALE



5 SECTION STA + 40  
 C4.20 SCALE: NOT TO SCALE

VOLUMES:

|                            |                       |               |
|----------------------------|-----------------------|---------------|
| $(0.28 \times 0) \times 2$ | $= 4.64 \times 2.37$  | $= 11.00m^3$  |
| $(12.23 + 9.28) \times 2$  | $= 10.755 \times 10$  | $= 107.55m^3$ |
| $(12.23 + 9.39) \times 2$  | $= 10.81 \times 10$   | $= 108.10m^3$ |
| $(0.39 + 7.4) \times 2$    | $= 8.40 \times 10$    | $= 84.00m^3$  |
| $(7.4 + 3.39) \times 2$    | $= 5.40 \times 10$    | $= 54.00m^3$  |
| $(3.39 + 0) \times 2$      | $= 1.695 \times 1.29$ | $= 2.187m^3$  |

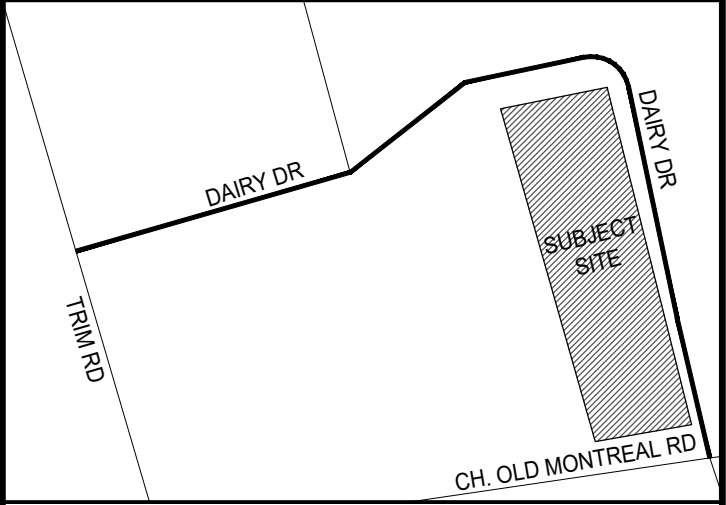
PR. VOLUME = 366.84m<sup>3</sup>

DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS SEALED BY A PROFESSIONAL ENGINEER. CONTRACTOR SHALL CHECK ALL DIMENSIONS ON DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE HEALTH AND SAFETY ACT.

| No. | DATE       | REVISION                         | BY |
|-----|------------|----------------------------------|----|
| 1   | 2021.09.10 | ISSUED FOR SITE PLAN APPROVAL    | GB |
| 2   | 2022.06.24 | ISSUED FOR OWNER'S REVIEW        | AT |
| 3   | 2022.09.07 | ISSUED FOR SECOND SPA SUBMISSION | AT |

**LEGAL INFORMATION**  
 PART OF  
 LOT 29  
 CONCESSION 1 (OLD SURVEY)  
 GEOGRAPHIC TOWNSHIP OF CUMBERLAND  
 CITY OF OTTAWA  
 FORMERLY IN THE CITY OF CUMBERLAND

- DRAWING REFERENCES:**
- TOPOGRAPHICAL INFORMATION SHOWN ON THIS PLAN WAS COLLECTED BY MALLOT CREEK GROUP INC.
  - LEGAL BOUNDARY INFORMATION SHOWN ON THIS PLAN WAS TAKEN FROM A PLAN PREPARED BY WEBSTER & SIMMONDS SURVEYING LTD., 2002, PLAN 4R-1795
  - GEOTECHNICAL INFORMATION SHOWN ON THIS PLAN WAS TAKEN FROM A REPORT PREPARED BY PATERSON GROUP INC., DATED JUNE 28TH 2021, REPORT: PG5861-1
  - INFORMATION RELATED TO THE EXISTING SERVICES ON DAIRY DRIVE WAS TAKEN FROM PLANS PREPARED BY ROBINSON CONSULTANTS FOR THE CITY OF OTTAWA, TITLED DAIRY DRIVE EXTENSION AND TRIM ROAD PARK & RIDE EXPANSION, GRADING AND DRAINAGE, DATED APRIL 26TH 2013, PROVIDED BY THE CITY OF OTTAWA.
  - ARCHITECTURAL INFORMATION SHOWN ON THIS PLAN WAS TAKEN FROM PLANS PREPARED BY MALLOT CREEK GROUP
  - EXISTING SERVICES FOR THE SITE WAS TAKEN FROM A PLAN PREPARED BY DAVID MCMANUS ENGINEERING LTD., TITLED SITE SERVICING AND GRADING PLAN, DATED MARCH 25TH 2002
  - LANDSCAPING PLANS PREPARED BY THAKAR ASSOCIATES DESIGN TREE CONSERVATION REPORT PREPARED BY ARBORSHERE



**KEY PLAN**  
 N.T.S.

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 info@mallotcreek.com  
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**apetito | HFS**  
 APETITO HFS  
 1010 DAIRY DR  
 OTTAWA, ON K4A 3N3

PROPOSED EXPANSIONS

STORMWATER MANAGEMENT POND  
 CROSS-SECTIONS

|                 |            |
|-----------------|------------|
| DESIGN BY:      | AT         |
| DRAWN BY:       | KW         |
| CHECKED BY:     | GB         |
| DATE:           | 2021.06.18 |
| SCALE:          |            |
| PROJECT NUMBER: | 21008      |

CURRENT REVISION: 3

C4.20