

Via email: <u>bernam@ecolecatholique.ca</u>

June 8th , 2019

Our File Ref.: 180550

Conseil des Écoles Catholiques du Centre-Est (C.E.C.C.E) 4000, rue Labelle Ottawa Ontario K1J 1A1

Attention: Melissa Bernard, Project Agent.

Subject: SWM Design Brief- New 8 Car Parking Lot Construction Monfort Elementary School, 350 De Haag Drive, Ottawa, Ontario

Dear Ms. Bernard,

LRL associates Ltd. was retained by the Conseil des Écoles Catholiques du Centre-Est (C.E.C.C.E) to complete a Stormwater Management (SWM) design brief complete with other documents to fulfill the City of Ottawa Site Plan Control (SPC) requirements for the above-mentioned project. The proposed work in question involves the construction of a new eight (8) car parking lot and pedestrian sidewalk located at the S.E. corner of the existing school, adjacent to the existing school drop off loop.

SWM Quantity and Quality Review and Requirements:

During the design stage, the City of Ottawa and Rideau Valley Conservation Authority (RVCA) representatives were consultated and SWM quality and quantity requirements were discussed. The new parking lot and sidewalk construction corresponds to a new impervious surface of approximately $190m^2$ where grass will be converted into asphalt/concrete surfaces. LRL, the City of Ottawa Representatives as well as the RVCA acknowledges that the increased runoff is negligible (C=0.528 in pre development conditions, and C=0.533 in post development conditions); therefore, eliminating the introduction of quantity control measures on site. Any surplus of stormwater runoff generated from the additional parking spaces will drain back into the paved bus loading area on site (as the grass did originally in pre development

conditions) and be collected via an existing catch basin (CB no.8) located at the west end of the drop off zone. Refer to Appendix E - Genivar Plan C.01, Site Servicing & Grading Plan for more details. When evaluating the post development to pre development runoff increase generated from these surfaces, the rational formula was used. Refer to the SWM calculations in Appendix A for more info.

Considering that half of the proposed 190m² of new impervious area will be comprised of concrete sidewalks, generating or conveying no surface pollutants or hydrocarbons, we assume that the new asphalt parking lot, (roughly 95m²) will have no, or very little, negative impact in relation to the quality of the runoff. Keeping in mind that the site outlet to major waterways is more than 2 km away, and any low impact development treatment options are not plausible within the area of construction nor favorable with the proposed design, the RVCA gave us their consent for the proposed parking lot addition without having to do any SWM quality treatment. Refer to RVCA correspondence in Appendix B for more details.

Sediment and Erosion Control Measures:

Like any other development, either big or small, sediment and erosion control measures are mandatory and will be implemented before, during and after the construction of this project. For this project, a silt fence will be erected along the perimeter of the new parking lot and sidewalk area. Refer to the Erosion and Sediment Control Plan C101 in Appendix D for more details.

LRL believes that the above assessment and details outlines satisfies the City of Ottawa Stormwater Management brief requirements to obtain Site Plan Control. Please do not hesitate to contact the undersigned if you have any questions or comments.

Yours truly, LRL Associates Ltd. Prepared by

Philippe Paquette, C.E.T.



Virginia Johnson, P. Eng.

Encl. Appendix A -SWM calculations.
Appendix B -RVCA email Correspondence.
Appendix C -Site Grading and Drainage Plan C301.
Appendix D -Erosion and Sediment Control Plan C101.
Appendix E -Genivar Plan C.01, Site Servicing & Grading Plan.

Appendix A SWM calculations.

LRL Associates Ltd. Storm Watershed Summary



LRL file No: Project: Location: Date: Designed:

o: 180550 Montfort School 350 Prom. Den Haag, Ottawa June 5, 2019 P. Paquette

Pre-Development Catchments

WATERSHED	C = 0.20	C = 0.90	Total Area (ha)	Combined C	
TOTAL	1.2234	1.076	2.2996	0.528	

Post-Development Catchments

WATERSHED	C = 0.20	C = 0.90	Total Area (ha)	Combined C	
TOTAL	1.205	1.095	2.2996	0.533	

Runoff Increase Calculations

A= from grass to asphalt (Ha.)	0.019	
I= 1/5 year event, Tc=15 min. (mn	85.60	
C=Pre-Dev.Runoff Coefficient	0.20	
C=Post-Dev.Runoff Coefficient	0.90	
Qpeak (pre-dev) = 2.78 CIA		
Q peak Pre-Dev (L/s)		
Qpeak (post-dev) = 2.78 CIA		
Q Post Pre-Dev (L/s)		
Total flow increasse (L/s)		

Appendix B RVCA email Correspondence.

Philippe Paquette

From:	Jamie Batchelor <jamie.batchelor@rvca.ca></jamie.batchelor@rvca.ca>
Sent:	Tuesday, June 4, 2019 10:55 AM
То:	Eric Lalande; Philippe Paquette
Subject:	RE: New parking lot addition- Ecole Monfort, De Haag Street Ottawa Ont.

Good Morning Phillipe,

Based on the distance from the outlet and the small scope of the additional parking being provided, the constraints associated with the existing grades on site, the RVCA would accept the site serving as originally proposed.

Jamie Batchelor, MCIP, RPP Planner, ext. 1191 Jamie.batchelor@rvca.ca



3889 Rideau Valley Drive PO Box 599, Manotick ON K4M 1A5 T 613-692-3571 | 1-800-267-3504 F 613-692-0831 | www.rvca.ca

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From: Eric Lalande <eric.lalande@rvca.ca>
Sent: Friday, May 31, 2019 8:44 AM
To: 'Philippe Paquette' <ppaquette@lrl.ca>
Cc: Jamie Batchelor <jamie.batchelor@rvca.ca>
Subject: RE: New parking lot addition- Ecole Monfort, De Haag Street Ottawa Ont.

Hi Philippe,

We would be happy to discuss the matter as needed. If you can provide us with a site plan ahead of meeting, as we can likely provide comments over email/phone too.

Typically, we look for 80% TSS removal, being provided on-site or through downstream SWM facilities prior to out letting to a watercourse. The site appears to be approximately 2 km from it's outlet, whereby we may be able to recommend best management practices over our standard requirements.

I have added Jamie Batchelor to this email as he would be the primary contact for this area.

Merci,

Eric Lalande, MCIP, RPP Planner, Rideau Valley Conservation Authority 613-692-3571 x1137 From: Philippe Paquette <<u>ppaquette@lrl.ca</u>>
Sent: Thursday, May 30, 2019 2:56 PM
To: Eric Lalande <<u>eric.lalande@rvca.ca</u>>
Cc: Mélissa Bernard <<u>bernam@ecolecatholique.ca</u>>; Maxime Longtin <<u>mlongtin@lrl.ca</u>>
Subject: New parking lot addition- Ecole Monfort, De Haag Street Ottawa Ont.

Hello Eric,

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As mentioned in my voice mail I left you earlier, we are working on a new parking lot expansion (8 spots max) at the above mentioned school. The city of Ottawa is asking us to go Thru SPC and produce a SWM plan and brief. They advised me to contact you to get the RVCA quality control requirements for this project. Would it be possible to meet you 30 min. max at your office to go over the project and explain to you our approach and options? Please call me or email me back asap. Many thanks

Bonne journée

Philippe Paquette, CET.

Certified Engineering Technologist



LRL Associates Ltd.

5430 Canotek Road Ottawa, Ontario K1J 9G2

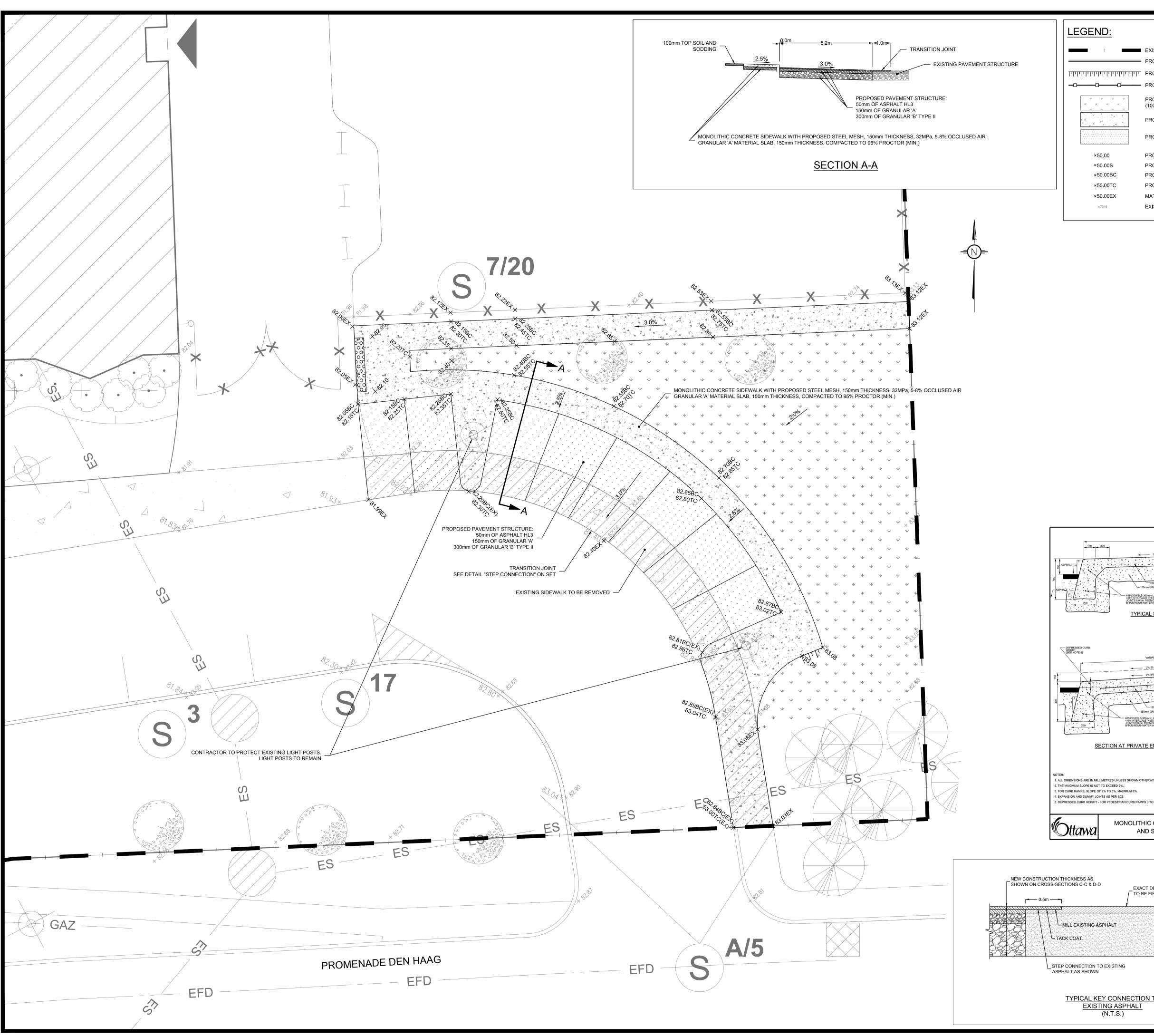
T (613) 842-3434 or (877) 632-5664 ext 209

- **C** (613) 880-9793
- **F** (613) 842-4338
 - E ppaquette@lrl.ca
 - W www.lrl.ca

We care deeply, so let us know how we did by completing our Customer Satisfaction Survey.



Appendix C Site Grading and Drainage Plan C301.



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EXISTING PROPERTY LINE TO REMAIN PROPOSED CURB

PROPOSED SILT FENCE AS PER OPSD 219.110

> PROPOSED GRASS AREA (100mm TOP SOIL & SOD)

PROPOSED CONCRETE FEATURES/SLAB

PROPOSED LIGHT DUTY ASPHALT

PROPOSED ELEVATION

PROPOSED SWALE ELEVATION PROPOSED BOTTOM OF CURB ELEVATION PROPOSED TOP OF CURB ELEVATION MATCH INTO EXISTING ELEVATION EXISTING ELEVATION

VARIABLE (1.8m MINIMUM) 2% SLOPE (SEE NOTE 2) REINSTATE SURROUNDING MATERIAL 100mm GRANULAR "A" TYPICAL SIDEWALK SECTION ARIABLE (1.8m MINIMUM) 2% SLOPE (SEE NOTE 2)_____ _____ 2%-5% SLOPE (SEE NOTE 3) REINSTATE-SURROUNDIN MATERIAL -150mm CONCRETE SURFACE REINFORCING MESH 150x150mm MW9.1xMW9.1 SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS

DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 25mr

MAY 2001 MONOLITHIC CONCRETE CURB MARCH 2016 AND SIDEWALK /G. No.: SC2 EXACT DEPTH OF EXISTING ASPHALT TO BE FIELD DETERMINED

N.T.S.

EXISTING GRANULARS

TYPICAL KEY CONNECTION TO EXISTING ASPHALT (N.T.S.)

USE AND INTERPRETATION OF DRAWINGS

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THE DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER CONFIRMS THAT HE HAS REVIEWED AND AND APPROVED THE DRAWINGS. THE CONTRACTOR CONFIRMS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS, CADD FILES OR OTHER ELECTRONIC MEDIA AND COPIED THERE OF FURNISHED BY THE ENGINEER ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT, INCLUDING REPEATS OF THE PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ENGINEER.

UNLESS THE REVISION TITLE IS "ISSUED FOR CONSTRUCTION", THESE DRAWINGS SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A CONSTRUCTION DOCUMENT.

THESE DRAWINGS ILLUSTRATES THE WORK TO BE DONE. THE ENGINEER IS NOT THESE DRAWINGS ILLUSTRATES THE WORK TO BE DONE. THE ENGINEER IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK, OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THESE DRAWINGS EXPRESSED OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL DETERMINE ALL CONDITIONS AT THE SITE AND SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS ACKNOWLEDGEMENT OF THE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING. UNAUTHORIZED CHANGES:

IN THE EVENT THE CLIENT, THE CLIENT'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE CLIENT IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY LEL ASSOCIATES LTD. (LRL) WITHOUT OBTAINING LRL'S PRIOR WRITTEN CONSENT, THE CLIENT SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE CLIENT AGRES TO WAIVE ANY CLAIM AGAINST LRL AND TO RELEASE LRL FROM ANY LIABILITY ARISING DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED CHANGES.

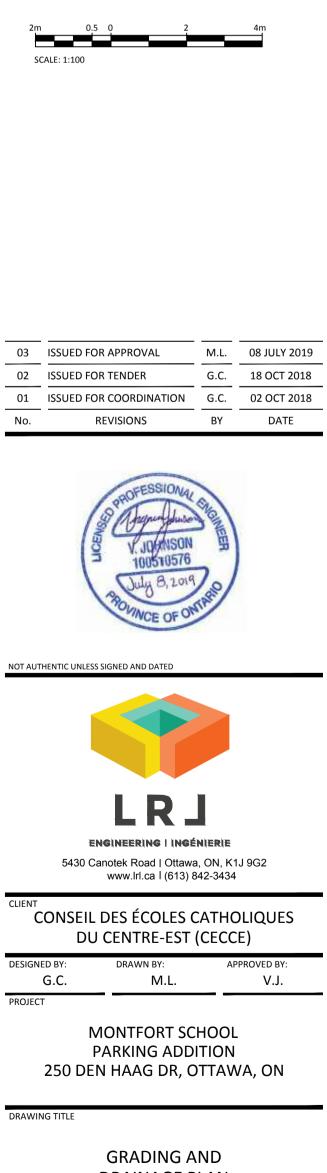
IN ADDITION, THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS LRL FROM ANY DAMAGES, LIABILITIES OR COST, INCLUDING REASONABLE ATTORNEY'S FEES AND COST OF DEFENSE, ARISING FROM SUCH CHANGES.

IN ADDITION, THE CLIENT AGREES TO INCLUDE IN ANY CONTRACTS FOR CONSTRUCTION APPROPRIATE LANGUAGE THAT PROHIBITS THE CONTRACTOR OR ANY SUBCONTRACTORS OF ANY TIER FROM MAKING ANY CHANGES OR MODIFICATIONS TO LRL'S CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN APPROVAL OF LRL AND THAT FURTHER REQUIRES THE CONTRACTOR TO INDEMNIFY BOTH LRL AND THE CLIENT FROM ANY LIABILITY OR COST ARISING FROM SUCH CHANGES MADE WITHOUT SUCH PROPER AUTHORIZATION. GENERAL NOTES:

EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE RECORDS, BUT MAY NOT BE COMPLETE OR TO DATE. CONTRACTOR SHALL VERIFY IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING OR PERFORMING WORK

CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS BEFORE START OF CONSTRUCTION.

THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.



DRAINAGE PLAN

C301

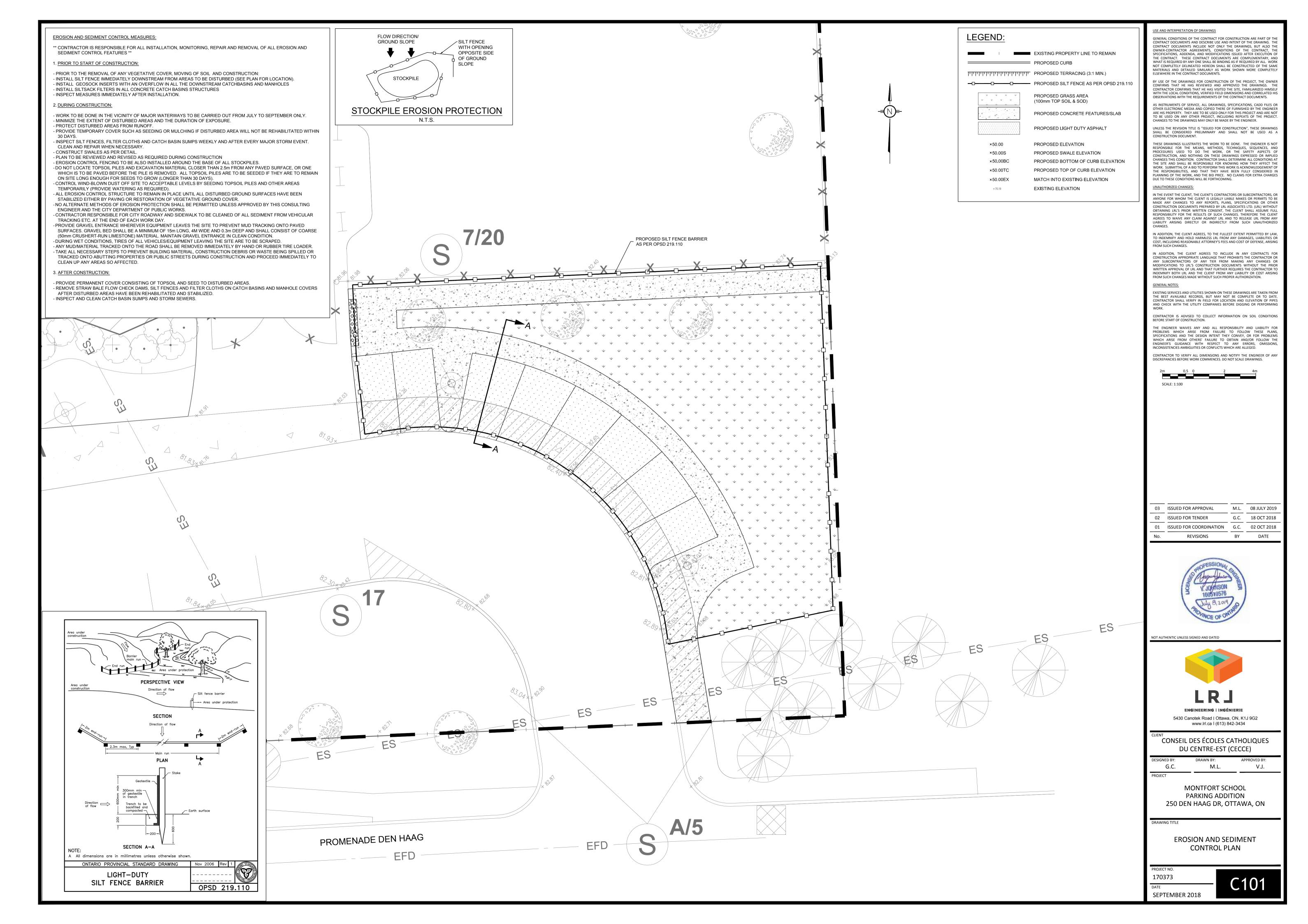
PROJECT NO

170373

SEPTEMBER 2018

DATE

Appendix D Erosion and Sediment Control Plan C101.



Appendix E Genivar plan C.01, Site Servicing & Grading Plan.



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