

DATE: January 14, 2025

TO: Public Registry

FROM: Barsha Sagan, P. Eng.
A/Senior Environmental Engineer
Industrial and Wastewater Section

SUBJECT: File 6193.00 – Crystal Spring Colony Wastewater Treatment Lagoon– Information for Public Registry

Please find attached the 1st round TAC correspondence related to Crystal Spring Colony Wastewater Treatment Lagoon (6193.00) for distribution to the public registries. The documents included are:

No	Technical Advisory Committee Member	Response Provided
1	Environment and Climate Change	
	Environmental Approvals Branch	
	• Air Quality Management	No response
	• Land Use, Waste Management, and Energy	November 3, 2023
	Environmental Compliance and Enforcement	
	• Regional Office	November 23, 2023
	• Hazardous Waste Program	No response
	Office of Drinking Water	October 24, 2023
	Environmental Programs and Remediation	No response
	Drainage and Water Rights Licensing Branch	October 23, 2023
	Water Science and Watershed Management	
	• Water Quality Management Section	November 15, 2023
	• Groundwater Management Section	No response
	Climate and Green Plan Implementation Office	No response
	Parks and Trails	No response
2	Natural Resources and Indigenous Futures	
	Wildlife and Fisheries Branch (wildlife)	No response
	Wildlife and Fisheries Branch (fisheries)	No response
	Forestry and Peatlands Branch	October 24, 2023
	Lands and Planning	No response
	Crown Land Specialist	No response
3	Business, Mining, Trade and Job Creation	
	Mines	November 10, 2023
	Petroleum	November 21, 2023
4	Sport, Culture, Heritage and Tourism - Historic Resources Branch	November 15, 2023
5	Municipal and Northern Relations	
	Community Planning Branch	November 15, 2023
	Office of the Fire Commissioner	No response
6	Labour and Immigration - Inspection and Technical Services	No response

7	Transportation and Infrastructure	
	<ul style="list-style-type: none"> • Environmental Services and Consultation 	No response
	<ul style="list-style-type: none"> • Hydrologic Forecasting & Water Management, Technical Services & 	No response
8	Health, Seniors and Long-Term Care – Southern Health-Santé Sud Regional Health Authority	November 20, 2023
9	Fisheries and Oceans Canada	November 09, 2023

DATE: November 3, 2023

TO: Housseini Coulibaly, Ph.D.
Environmental Approvals Branch
Environment and Climate Change
14 Fultz Boulevard
Winnipeg MB R3Y 0L6
Housseini.Coulibaly@gov.mb.ca
Tel: 431-276-6465

FROM: Asit Dey, P.Eng.
Engineering Manager
Land Use, Waste Management & Energy
Environmental Approvals Branch
Environment and Climate Change
14 Fultz Boulevard
Winnipeg MB R3Y 0L6

PHONE NO.: 204-794-3389
FAX NO.: 204-945-5229
E-MAIL: Asit.Dey@gov.mb.ca

SUBJECT: Crystal Spring Colony New Development
DOMESTIC Wastewater Lagoon
IN SE 28-18-3 EPM, RM OF ARMSTRONG
FILE: 6193.00

Thank you for your email dated October 23, 2023, seeking comments on the subject Environment Act proposal.

The proposed project is not in an area of water power interest. I do not have any further comments on the proposal.

ORIGINAL SIGNED BY

Asit Dey

Memorandum

Date November 23, 2023

To: Housseini Coulibaly
Environmental Approvals
Branch
Environment and Climate
14 Fultz Blvd.,
Winnipeg, MB R3Y 0L6

From: Mariah Whiter
Environmental Compliance and
Enforcement Branch
Environment and Climate Change
309 – 25 Tupper Street N.
Portage La Prairie, MB, R1N 3K1

SUBJECT: Environment Act Proposal – File 6193.00 - Crystal Spring Colony New Development – Wastewater Lagoon

Environmental Compliance and Enforcement has reviewed the Environment Act Proposal for the Crystal Springs Colony Lagoon and has the following comments:

Abattoir

- Is the blood from the animals being directed toward the lagoon? If so, what steps is the facility taking to minimize odour?

Weeping Tile

- Why is the water from the weeping tile being directed toward the lagoon?

Sagan, Barsha

From: +WPG569 - Drinking Water - Approvals
Sent: October 24, 2023 11:10 AM
To: Coulibaly, Housseini
Subject: RE: Request for Environment Act Proposal Review: File 6193.00 – Crystal Spring Colony
New Development - Wastewater Lagoon

No concerns.
Office of Drinking Water (ODW)

Cory Vitt, P.Eng. M.Eng. CPPA CMMA

(pronouns: they/them; please don't use "Mr. Vitt")

Acting Senior Approvals Engineer

Office of Drinking Water

Cell: 204-806-1363

Email: Cory.Vitt@gov.mb.ca

NEW ADDRESS:

Box 19

14 Fultz Blvd

Winnipeg, MB R3Y 0L6

Burland Ross, Siobhan

From: Caillier, Ginette
Sent: October-24-23 2:21 PM
To: Coulibaly, Housseini
Subject: RE: Request for Environment Act Proposal Review: File 6193.00 – Crystal Spring Colony New Development - Wastewater Lagoon
Attachments: 2023-WCW-0172 FINAL LICENSE.pdf; BMCE21-011-ISSUED FOR CONSTRUCTION-230330 (4).pdf

Good Afternoon,

On behalf of the Drainage and Water Rights Licensing Branch, there are no concerns at this time as there has been a licence issued for the proposed water control works. I have attached the final licence as well as the engineered report for your records.

Please let me know if you require any other information.

Sincerely,

Ginette Caillier
Senior Water Resource Officer

Licence to Construct
Water Control Works



Issued in accordance with the provisions
The Water Rights Act and regulations made thereunder.

Project: Crystal Spring Colony
File Number: 3.31.32
Licence No.: 2023-WCW-0172

Subject to the terms and conditions contained in this Licence, the Minister charged with administration of the Water Rights Act for the Province of Manitoba authorizes:

7317434 Manitoba Ltd.

in the Rural Municipality of Armstrong in the Province of Manitoba (the 'LICENSEE') to construct drainage or other works ("the WORKS") described as follows:

Construct drains and install culverts to improve local drainage conditions to accommodate colony development

And located on the following described lands:

28-18-3-E

- as more particularly located and shown on the attached Exhibit(s).
- This Licence is issued upon the express condition that it shall be subject to the provisions of The Water Rights Act and Regulations and all amendments thereto and, without limiting the generality of the aforesaid. The WORKS shall be constructed and operated in accordance with the terms and conditions described as follows:
- Construct drains to accommodate subdivision. Existing culverts to be reset at new drain grade bottom, sizes not to be altered. All works and specifications to be constructed in accordance with Burns Maendel Consulting Engineers Ltd: Crystal Spring Colony - New Colony Development dated March 30, 2023.
 - Additional terms and conditions include but are not limited to:
 - All WORKS conducted or outletting outside the legal landowners property holdings may only be done with the express written permission and completed to the satisfaction of the respective landowner.
 - The LICENSEE shall hold and maintain all other regulatory approvals that may be required and shall comply with all other regulatory requirements for the construction, operation, or maintenance of the WORKS or to divert water as provided by this Licence.
 - Notwithstanding anything preceding in this Licence, the LICENSEE must have legal control, by ownership or by rental, lease, or other agreement, of the lands on which the WORKS shall be placed.
 - The LICENSEE shall, within reasonable expectations, operate the WORKS in a manner so as not to cause undue damages, hardship, or inconvenience on private lands upstream and downstream of the WORKS, which are not in accordance with formal agreements that may exist between the LICENSEE and the owners of impacted lands.
 - Construction of the WORKS are to include adequate and effective erosion and sedimentation controls (erosion control blankets, side slopes, sediment barriers, straw mulch, silt curtains, rock rip-rap at drain outlet, minimum disturbance of existing vegetation cover, seeding excavated area to ensure vegetation growth.)
 - Manitoba reserves the right to request future modifications to this licence to correct unforeseen impacts or to ensure the WORKS identified in the attached Exhibit(s) are in accordance with approved watershed plans.
 - The LICENSEE does hereby remise, release and forever discharge His Majesty the King in Right of the Province of Manitoba, of and from all manner of action, causes of action, claims and demands whatsoever which against His Majesty the LICENSEE ever had, now has or may hereafter have, resulting from the construction and operation of the WORKS.
 - In the event that the rights of others are infringed upon and/or damage to the property of others is sustained as a result of the operation or maintenance of the WORKS and the rights herein granted, the LICENSEE shall be solely responsible and shall save harmless and fully indemnify His Majesty the King in Right of the Province of Manitoba, from

and against any liability to which His Majesty may become liable by virtue of the issue of this Licence and anything done pursuant hereto.

- 5. Upon the execution of this Licence the LICENSEE hereby grants the Minister or the Minister's agents the right of ingress and egress to and from the lands on which the WORKS are located for the purpose of inspection of the WORKS and the LICENSEE shall at all times comply with such directions and/or orders that may be given by the Minister or the Minister's agents in writing from time to time with regard to the operation and maintenance of the WORKS.
- 6. This Licence may be amended, suspended or cancelled by the Minister in accordance with The Water Rights Act by letter addressed to the LICENSEE at **Box 10, Ste. Agathe, Manitoba, R0G 1Y0, Canada** and thereafter this Licence shall be determined to be at an end.
- 7. The term of this Licence shall be in **Perpetuity** and this Licence shall become effective only on the date of execution hereof by a person so authorized under The Water Rights Act.

FOR OFFICE USE ONLY

Issued at the City of Winnipeg, in the Province of Manitoba, this 26th day of July A.D. 2023.

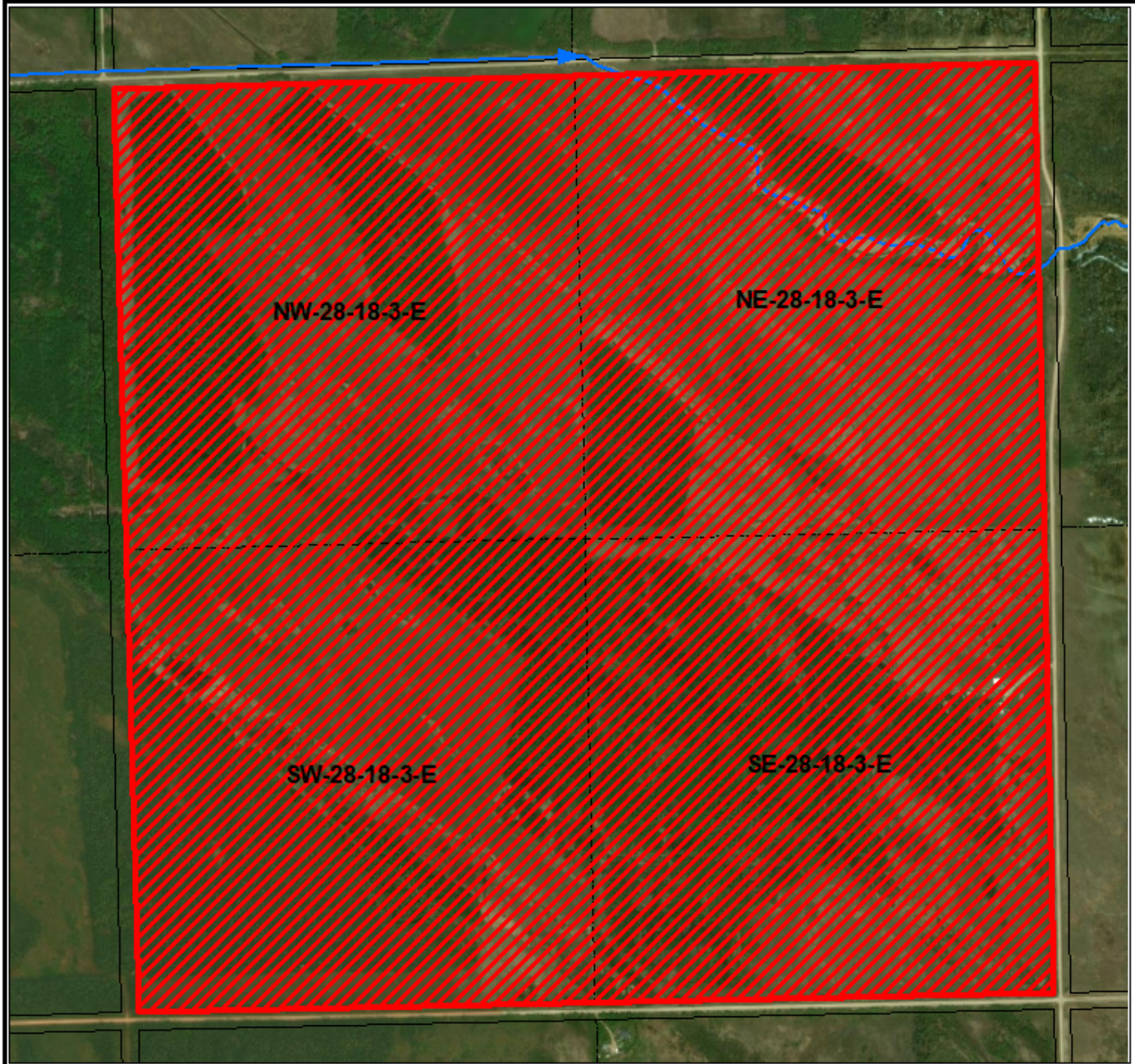
Darren Nicklin



Print Name

Signature

Signed by the Minister charged with the administration of the Water Rights Act (or her/his designate)

Licence to Construct
Water Control Works



<p>EXHIBIT "A"</p> <p>This Plan is an integral part of Licence #2023-WCW-0172 issued under The Water Rights Act.</p>	<p>Legend</p> <p> Existing Waterways</p> <p> Area of Proposed Drainage Works</p> <div data-bbox="594 1884 690 1983"></div> <p data-bbox="675 1951 922 1983">Date Prepared: July 11, 2023 Imagery Copyright: ESRI Digital Globe</p> <div data-bbox="1122 1884 1339 1929"></div> <p data-bbox="1198 1911 1258 1929">Kilometers</p> <div data-bbox="1122 1938 1469 1983"></div> <p data-bbox="1279 1964 1323 1983">Miles</p>
<p>7317434</p> <p>MANITOBA LTD.</p> <p>Licensed Water Control Works In and Through Section 28-18-3-E</p>	



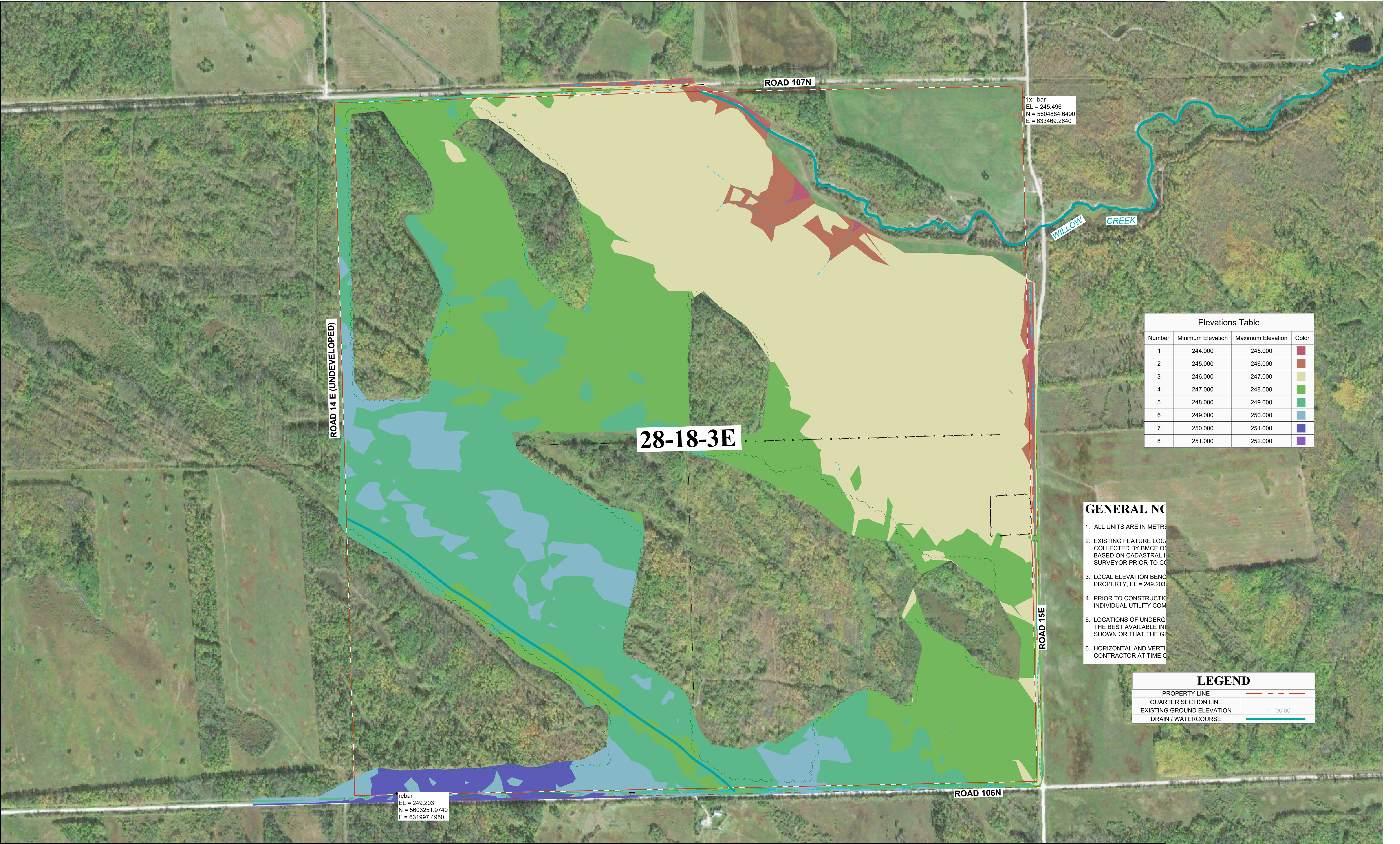
BURNS MAENDEL
CONSULTING ENGINEERS LTD.

1331 Princess Ave.
Brandon, Manitoba
R7A 0R4
Tel: (204) 728-7364
Fax: (204) 728-4418

CRYSTAL SPRINGS COLONY NEW COLONY DEVELOPMENT

28-18-3 EPM
RM OF ARMSTRONG, MB

CIVIL DRAWINGS		
DWG NO.	DRAWING NAME	REV
C1.1	TOPOGRAPHICAL SURVEY	0
C1.2	NORTH SURVEY	0
C1.3	SOUTH SURVEY	0
C1.4	PROPOSED SITE CONCEPT PLAN	0
C1.5	MAJOR DRAINAGE PLAN	0
C1.6	SITE GRADING PLAN - MAIN ACCESS ROAD	0
C1.7	SITE GRADING PLAN - FEED LOT AND INDUSTRIAL AREAS	0
C1.8	SITE GRADING PLAN - MAIN SHOP AND RESIDENTIAL AREAS	0
C3.1	CULVERT SECTIONS & DETAILS	0
C3.2	SECTIONS & DETAILS	0
DATE		PROJECT NO:
MAR 30, 2023		BMCE21-011



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	244.000	245.000	Red
2	245.000	246.000	Orange
3	246.000	247.000	Yellow
4	247.000	248.000	Light Green
5	248.000	249.000	Green
6	249.000	250.000	Blue
7	250.000	251.000	Dark Blue
8	251.000	252.000	Purple

GENERAL NOTES

1. ALL UNITS ARE IN METRES
2. EXISTING FEATURE LOCATIONS COLLECTED BY BMCE OR BASED ON CADASTRAL INFORMATION SURVEYOR PRIOR TO CONSTRUCTION
3. LOCAL ELEVATION BENCHMARK PROPERTY, EL = 249.203
4. PRIOR TO CONSTRUCTION INDIVIDUAL UTILITY COMPLETION
5. LOCATIONS OF UNDERGROUND UTILITIES SHOWN OR THAT THE GROUND CONTRACTOR AT TIME OF CONSTRUCTION

LEGEND	
PROPERTY LINE	---
QUARTER SECTION LINE	- - - - -
EXISTING GROUND ELEVATION	x 100.00
DRAIN / WATERCOURSE	---

					REVISIONS
0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION	
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW	
NO:	DATE	APP.	BY	DESCRIPTION	

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
Burns Maendel Consulting
Engineers Ltd.


DESIGNED BY: --	REVIEWED BY: DB	PROJECT NAME: CRYSTAL SPRING COLONY NEW COLONY SITE DEVELOPMENT 28-18-3 EPM, RM OF ARMSTRONG, MB
DRAWN BY: CR		
PROJECT START DATE: MARCH 26, 2021		
PLOT SIZE: A1 (594x841)		
SCALE: 1:4000		 BURNS MAENDEL CONSULTING ENGINEERS LTD.
		903 Rosser Ave. Brandon, Manitoba R7A 0L3 Tel: (204) 728-7364 Fax: (204) 728-4418



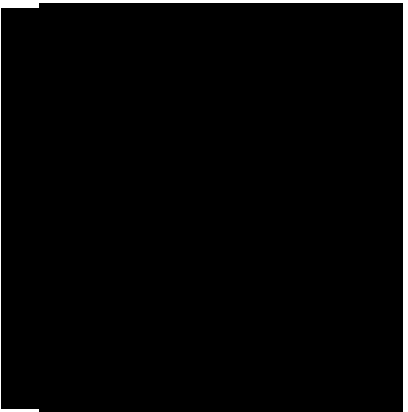
GENERAL NOTES:

1. ALL UNITS ARE IN METRES AND DECIMALS
2. EXISTING FEATURE LOCATION INFORMATION COLLECTED BY BMCE ON MAR 10 - 12, 2021. BASED ON CADASTRAL INFORMATION ONLY. SURVEYOR PRIOR TO CONSTRUCTION.
3. LOCAL ELEVATION BENCHMARK PROVIDED PROPERTY, EL = 249.203.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT INDIVIDUAL UTILITY COMPANIES FOR LOCATION OF UTILITIES.
5. LOCATIONS OF UNDERGROUND STRUCTURES SHOWN ARE THE BEST AVAILABLE INFORMATION. NO GUARANTEE IS GIVEN THAT THE GIVEN LOCATIONS ARE ACCURATE.
6. HORIZONTAL AND VERTICAL CONTROL TO BE PROVIDED BY THE CONTRACTOR AT TIME OF CONSTRUCTION.

LEGEND	
PROPERTY LINE	---
QUARTER SECTION LINE	----
EXISTING GROUND ELEVATION	x 100.00
DRAIN / WATERCOURSE	---

0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
Burns Maendel Consulting
Engineers Ltd.

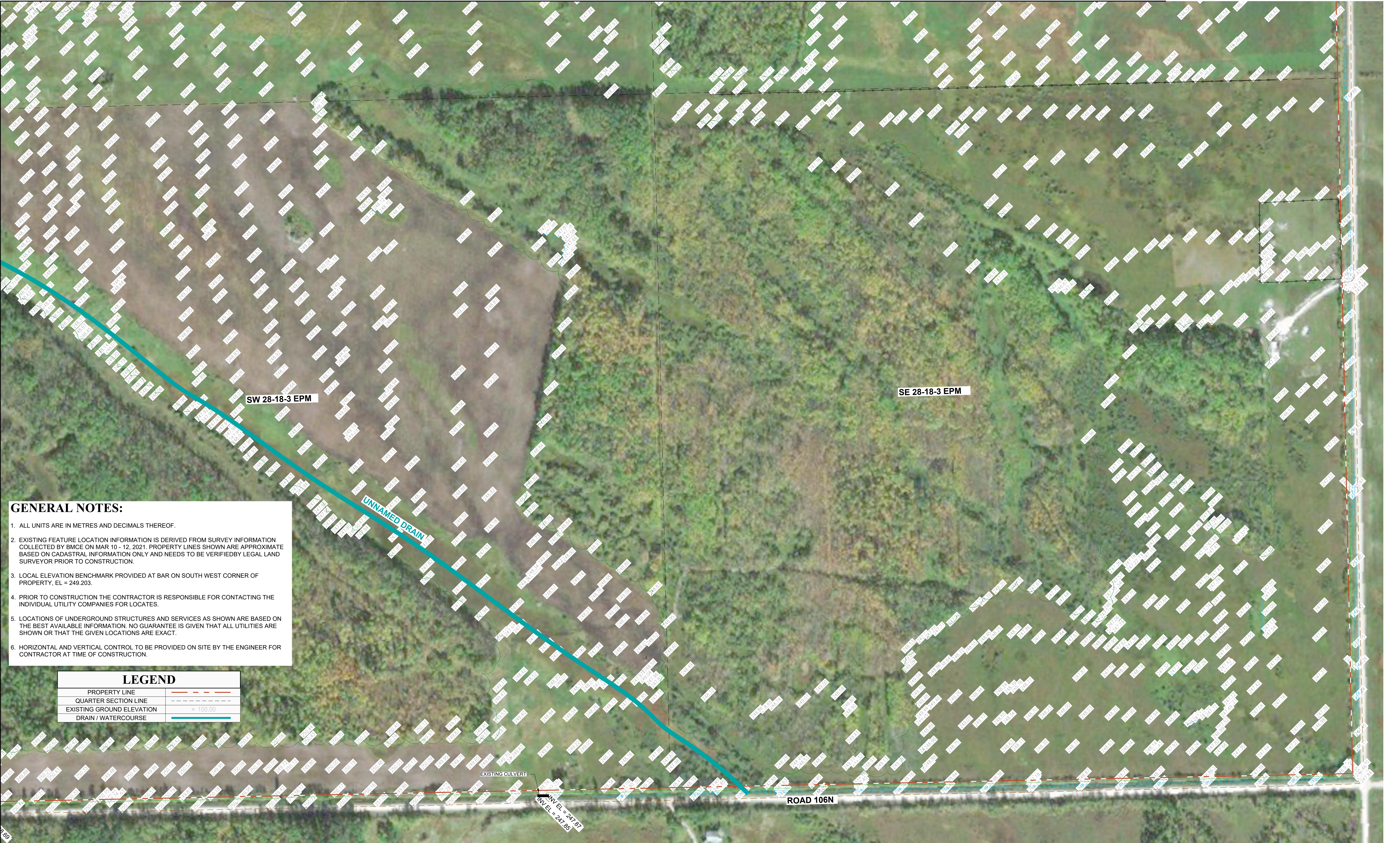



DESIGNED BY:	REVIEWED BY:
--	DB
DRAWN BY:	
CR	
PROJECT START DATE:	
MARCH 26, 2021	
PLOT SIZE:	
A1 (594x841)	
SCALE:	
1:2000	

PROJECT NAME:
**CRYSTAL SPRING COLONY
NEW COLONY SITE DEVELOPMENT
28-18-3 EPM, RM OF ARMSTRONG, MB**

**BURNS MAENDEL
CONSULTING ENGINEERS LTD.**

903 Rosser Ave.
Brandon, Manitoba
R7A 0L3
Tel: (204) 728-7364
Fax: (204) 728-4418

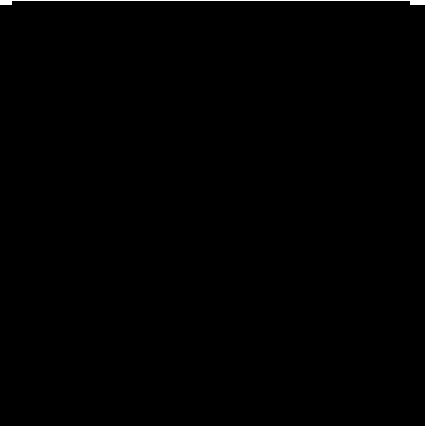


- GENERAL NOTES:**
1. ALL UNITS ARE IN METRES AND DECIMALS THEREOF.
 2. EXISTING FEATURE LOCATION INFORMATION IS DERIVED FROM SURVEY INFORMATION COLLECTED BY BMCE ON MAR 10 - 12, 2021. PROPERTY LINES SHOWN ARE APPROXIMATE BASED ON CADASTRAL INFORMATION ONLY AND NEEDS TO BE VERIFIED BY LEGAL LAND SURVEYOR PRIOR TO CONSTRUCTION.
 3. LOCAL ELEVATION BENCHMARK PROVIDED AT BAR ON SOUTH WEST CORNER OF PROPERTY, EL = 249.203.
 4. PRIOR TO CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE INDIVIDUAL UTILITY COMPANIES FOR LOCATES.
 5. LOCATIONS OF UNDERGROUND STRUCTURES AND SERVICES AS SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. NO GUARANTEE IS GIVEN THAT ALL UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT.
 6. HORIZONTAL AND VERTICAL CONTROL TO BE PROVIDED ON SITE BY THE ENGINEER FOR CONTRACTOR AT TIME OF CONSTRUCTION.

LEGEND	
PROPERTY LINE	---
QUARTER SECTION LINE	----
EXISTING GROUND ELEVATION	x 100.00
DRAIN / WATERCOURSE	—

0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
Burns Maendel Consulting
Engineers Ltd



DESIGNED BY: --	REVIEWED BY: DB	PROJECT NAME: CRYSTAL SPRING COLONY NEW COLONY SITE DEVELOPMENT 28-18-3 EPM, RM OF ARMSTRONG, MB  BURNS MAENDEL CONSULTING ENGINEERS LTD. 903 Rosser Ave. Brandon, Manitoba R7A 0L3 Tel: (204) 728-7364 Fax: (204) 728-4418	
DRAWN BY: CR			
PROJECT START DATE: MARCH 26, 2021			
PLOT SIZE: A1 (594x841)			
SCALE: 1:2000			



GENERA

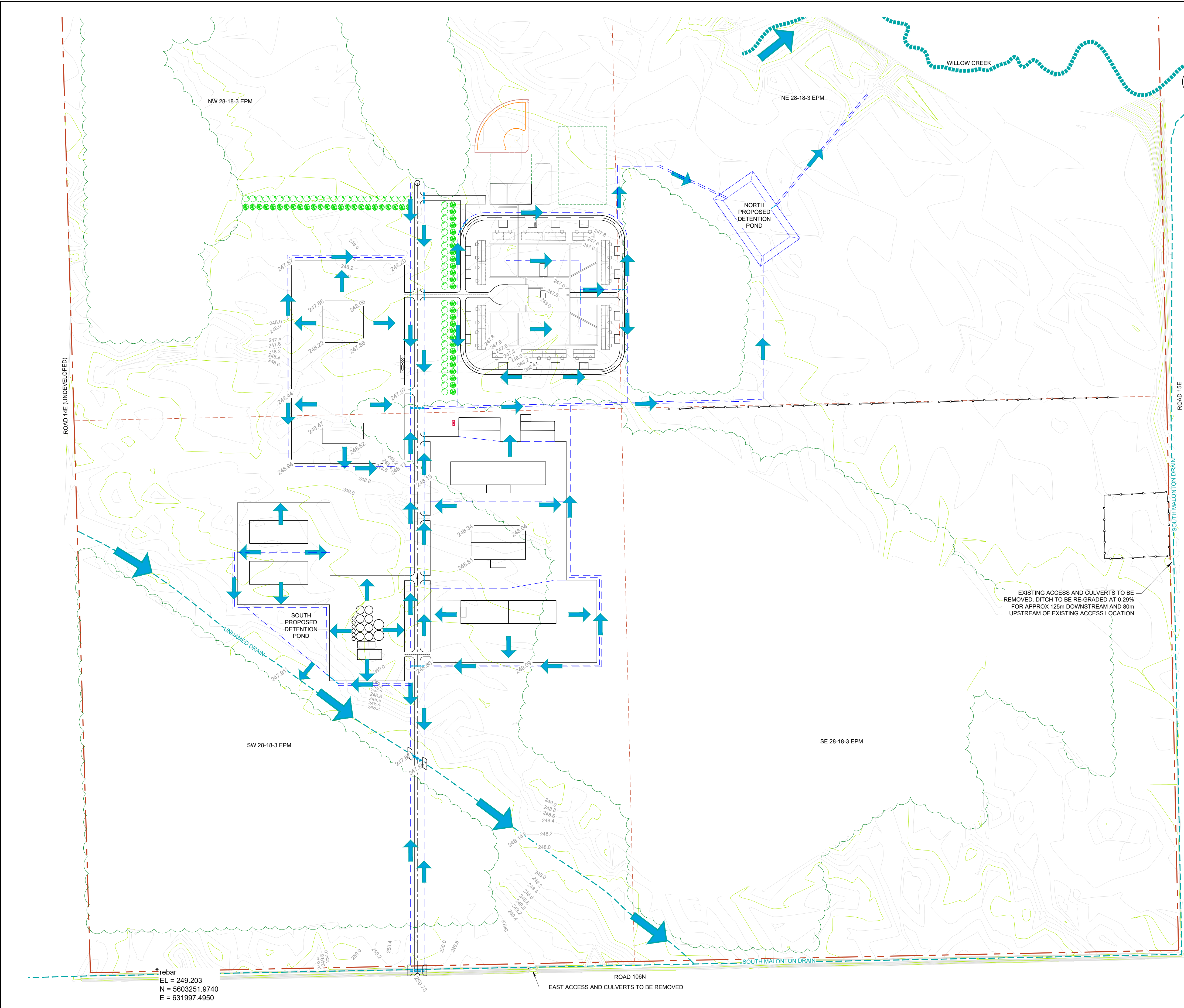
1. ALL UNITS ARE
2. EXISTING FEAT INFORMATION ARE APPROXIM VERIFIED BY LE
3. LOCAL ELEVAT PROPERTY, EL
4. PRIOR TO CON THE INDIVIDUA
5. LOCATIONS OF BASED ON THE UTILITIES ARE :
6. HORIZONTAL A FOR CONTRAC

LEGEND	
PROPERTY LINE	---
QUARTER SECTION LINE	----
EXISTING GROUND ELEVATION	x 100.00
MAJOR CONTOUR (1.0m INTERVAL)	100.0
BUSH LINE	~
MAJOR DRAINAGE ARROW	→
DITCH / SWALE	---
GRADE BREAK	---
PROPOSED ELEVATION	x 100.00
PROPOSED GUTTER / DITCH	x 100.00
GRADE AT BUILDING ELEV.	100.00
GRADE SLOPE	2.0%
GRADE SLOPE w/ DISTANCE	10.0m @ 2.0%

0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				



DESIGNED BY: JK	REVIEWED BY: DB	PROJECT NAME: CRYSTAL SPRING COLONY NEW COLONY SITE 28-18-3 EPM, RM OF ARMSTRONG, MB	
DRAWN BY: JK			
PROJECT START DATE: JUNE 2021			
PLOT SIZE: A1 (594x841)			903 Rosser Ave. Brandon, Manitoba R7A 0L3 Tel: (204) 728-7364 Fax: (204) 728-4418
SCALE: 1:3000			



GENERAL NOTES:

1. ALL UNITS ARE IN METRES AND DECIMALS
2. EXISTING FEATURE LOCATION INFORMATION: MAR 10 - 12, 2021. PROPERTY LINES SHOW AND NEEDS TO BE VERIFIED BY LEGAL LAI
3. LOCAL ELEVATION BENCHMARK PROVIDED
4. PRIOR TO CONSTRUCTION THE CONTRACT COMPANIES FOR LOCATES.
5. LOCATIONS OF UNDERGROUND STRUCTURES: INFORMATION. NO GUARANTEE IS GIVEN THAT EXACT.
6. HORIZONTAL AND VERTICAL CONTROL TO OF CONSTRUCTION.

DRAINAGE NOTES:

1. RATIONAL METHOD USED FOR ALL DRAINAGE
2. GIMLI, MB #5031042 STATION, IDF EQUATION
3. TIME OF CONCENTRATION WAS CALCULATED CHANNEL FLOW EQUATIONS.
4. MANNING'S KINEMATIC SOLUTION:
N = 0.15 FOR PRAIRIE GRASS.
N = 0.24 FOR DENSE GRASS.
5. SHALLOW FLOW:
K = 0.213 FOR SHORT GRASS PASTURE
K = 0.457 FOR GRASSED WATERWAY
6. CHANNEL FLOW:
N = 0.03 FOR GRASSED DITCHES
7. RUNOFF COEFFICIENTS:
C = 0.15 (GRASS)
C = 0.25 (MEADOWS AND PASTURE)
C = 0.60 (GRAVEL AREAS)
C = 0.90 (ROOF, ASPHALT AND CONCRETE)
8. PRE-DEVELOPMENT CONDITIONS:
WEIGHTED "C" = 0.25
T_C = 134 MIN.
Q₅ = 0.35 m³/s
9. POST-DEVELOPMENT CONDITIONS:
WEIGHTED "C" = 0.43
T_C = 64 MIN.
Q₂₅ = 1.42 m³/s
10. IN ORDER TO LIMIT THE POST-DEVELOPMENT RATE, THE FOLLOWING MINIMUM STORAGE POND SIZING:


VOLUME = 4,963 m³
11. THE PROPOSED PONDS HAVE THE FOLLOWING:
SOUTH POND:
VOLUME = 702 m³
OUTLET: UNNAMED DRAIN SOUTH C ALONG RD 106N.

NORTH POND:
VOLUME = 4,261 m³
OUTLET: WILLOW CREEK VIA EXISTING
12. THE 25 YEAR FLOWS WILL BE REDUCED TO PROPOSED POND:
SOUTH POND:
OUTFLOW CONTROL: 0.175m ORIFICE
POST-DEVELOPMENT CONTROLLED

NORTH POND:
OUTFLOW CONTROL: 0.390m ORIFICE
POST-DEVELOPMENT CONTROLLED

LEGEND	
PROPERTY LINE	---
QUARTER SECTION LINE	----
EXISTING GROUND ELEVATION	× 100.00
MAJOR CONTOUR (1.0m INTERVAL)	100.0
BUSH LINE	~
MAJOR DRAINAGE ARROW	➔
DITCH / SWALE	----
GRADE BREAK	----
PROPOSED ELEVATION	× 100.00
PROPOSED GUTTER / DITCH	× 100.00
GRADE AT BUILDING ELEV.	100.00
GRADE SLOPE	2.0%
GRADE SLOPE w/ DISTANCE	10.0m @ 2.0%
UNDERGROUND POWER	-P-

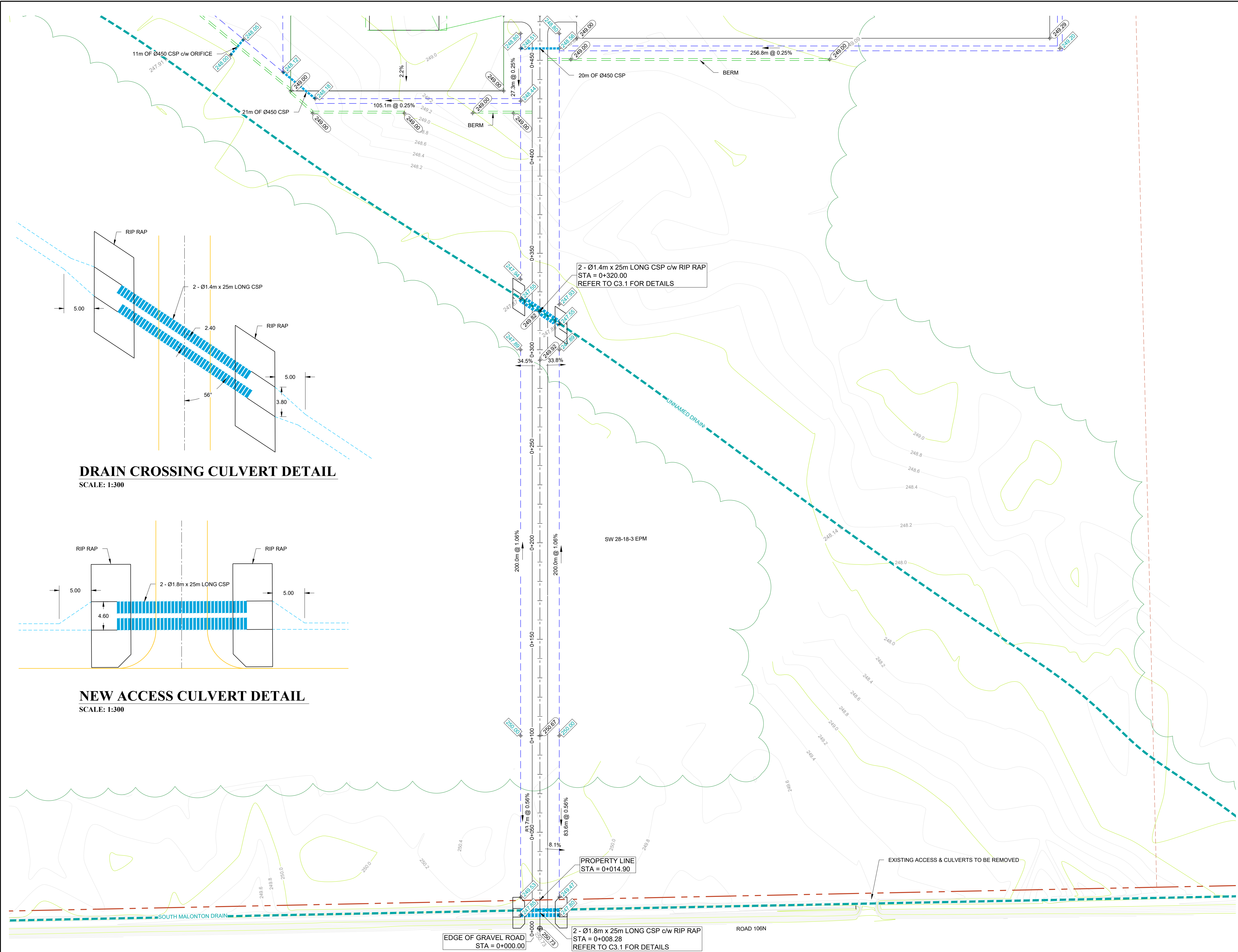
0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				



**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
Burns Maendel Consulting
Engineers Ltd.



DESIGNED BY: R.J.	REVIEWED BY: D.B.	PROJECT NAME: CRYSTAL SPRINGS COLONY NEW COLONY DEVELOPMENT 28-18-03 EPM, RM OF ARMSTRONG, MB
DRAWN BY: J.K.		
PROJECT START DATE: MAR 2021		
PLOT SIZE: A1 (594x841)		
SCALE: AS NOTED		
		903 Rosser Ave. Brandon, Manitoba R7A 0L3 Tel: (204) 728-7364 Fax: (204) 728-4418



GENERAL

1. ALL UNITS ARE II
2. EXISTING FEATU
COLLECTED BY E
APPROXIMATE B
VERIFIED BY LEC
3. LOCAL ELEVATIC
PROPERTY, EL =
4. PRIOR TO CONS
INDIVIDUAL UTILI
5. LOCATIONS OF L
ON THE BEST AV
ARE SHOWN OR
6. HORIZONTAL ANI
FOR CONTRACT

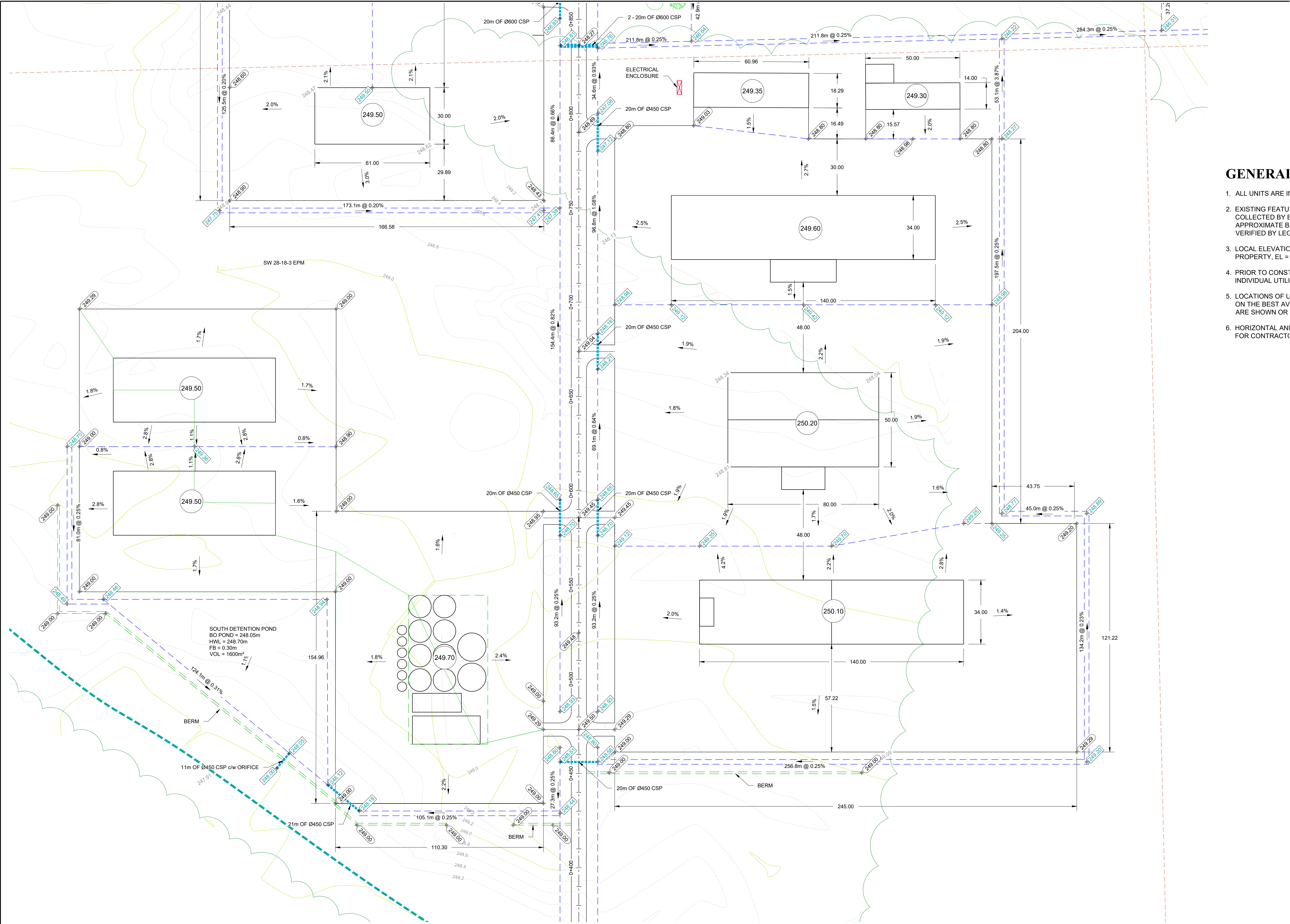
LEGEND

PROPERTY LINE	---
QUARTER SECTION LINE	----
EXISTING GROUND ELEVATION	x 100.00
MAJOR CONTOUR (1.0m INTERVAL)	100.0
BUSH LINE	~
MAJOR DRAINAGE ARROW	➔
DITCH / SWALE	----
GRADE BREAK	----
PROPOSED ELEVATION	⊗ 100.00
PROPOSED GUTTER / DITCH	⊗ 100.00
GRADE AT BUILDING ELEV.	⊙ 100.00
GRADE SLOPE	2.0%
GRADE SLOPE w/ DISTANCE	10.0m @ 2.0%
UNDERGROUND POWER	-P-

0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
Burns Maendel Consulting
Engineers Ltd.

DESIGNED BY: R.J.	REVIEWED BY: D.B.	PROJECT NAME: CRYSTAL SPRINGS COLONY NEW COLONY DEVELOPMENT 28-18-03 EPM, RM OF ARMSTRONG, MB
DRAWN BY: J.K.		
PROJECT START DATE: MAR 2021		
PLOT SIZE: A1 (594x841)		
SCALE: AS NOTED		 BURNS MAENDEL CONSULTING ENGINEERS LTD.
		903 Rosser Ave. Brandon, Manitoba R7A 0L3 Tel: (204) 728-7364 Fax: (204) 728-4418



GENERAL

1. ALL UNITS ARE II
2. EXISTING FEATU
COLLECTED BY E
APPROXIMATE B
VERIFIED BY LEC
3. LOCAL ELEVATIC
PROPERTY, EL =
4. PRIOR TO CONST
INDIVIDUAL UTILI
5. LOCATIONS OF U
ON THE BEST AV
ARE SHOWN OR
6. HORIZONTAL ANI
FOR CONTRACT

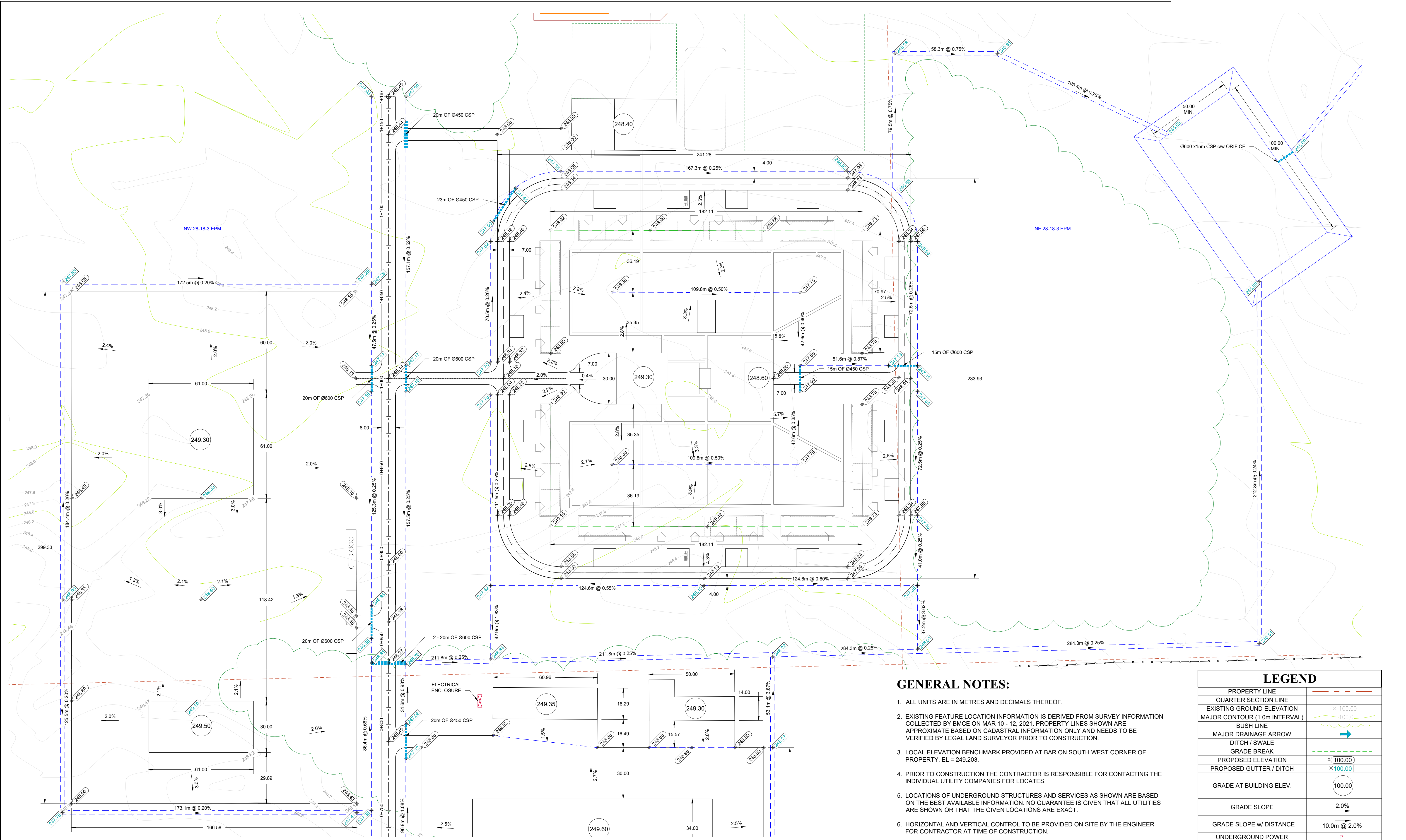
LEGEND

PROPERTY LINE	---
QUARTER SECTION LINE	---
EXISTING GROUND ELEVATION	× 100.00
MAJOR CONTOUR (1.0m INTERVAL)	100.0
BUSH LINE	~
MAJOR DRAINAGE ARROW	→
DITCH / SWALE	---
GRADE BREAK	---
PROPOSED ELEVATION	× 100.00
PROPOSED GUTTER / DITCH	× 100.00
GRADE AT BUILDING ELEV.	100.00
GRADE SLOPE	2.0%
GRADE SLOPE w/ DISTANCE	10.0m @ 2.0%
UNDERGROUND POWER	---

0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
B	OCT 19, 2022	D.B.	J.K.	ADDED PROPOSED ELECTRICAL PAD LOCATIONS. ISSUED TO CLIENT FOR CONFIRMATION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				



DESIGNED BY: R.J.	REVIEWED BY: D.B.	PROJECT NAME: CRYSTAL SPRINGS COLONY NEW COLONY DEVELOPMENT 28-18-03 EPM, RM OF ARMSTRONG, MB  903 Rosser Ave. Brandon, Manitoba R7A 0L3 Tel: (204) 728-7364 Fax: (204) 728-4418
DRAWN BY: J.K.		
PROJECT START DATE: MAR 2021		
PLOT SIZE: A1 (594x841)		
SCALE: AS NOTED		



GENERAL NOTES:

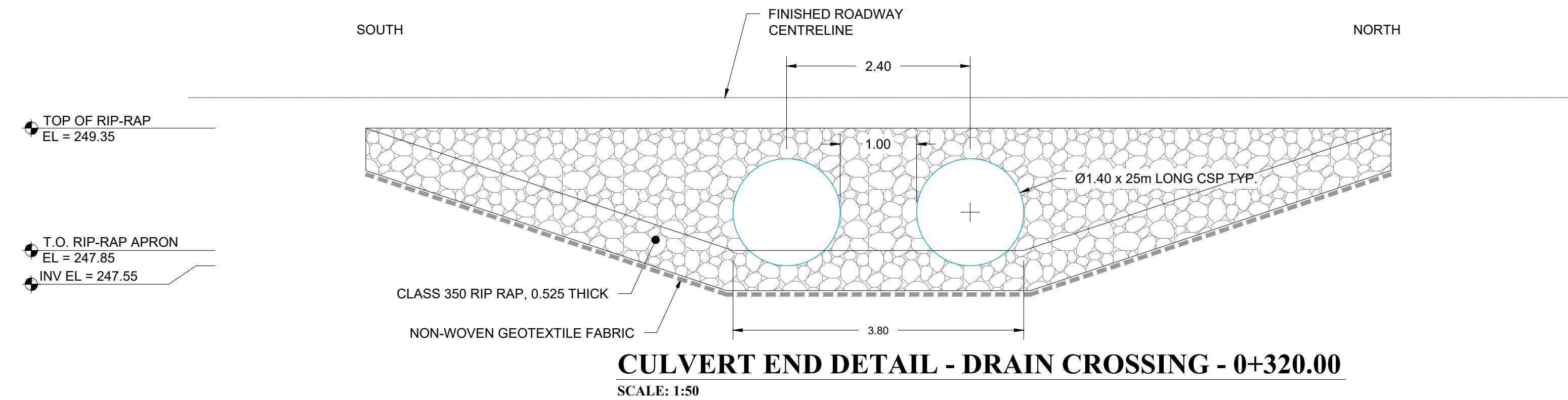
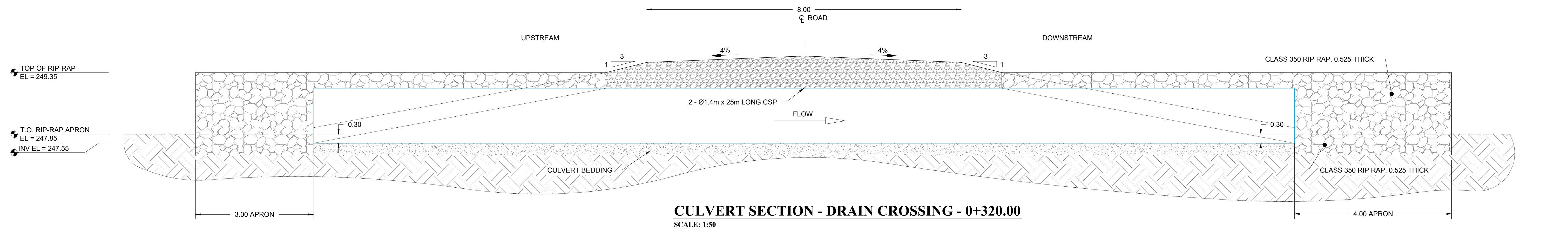
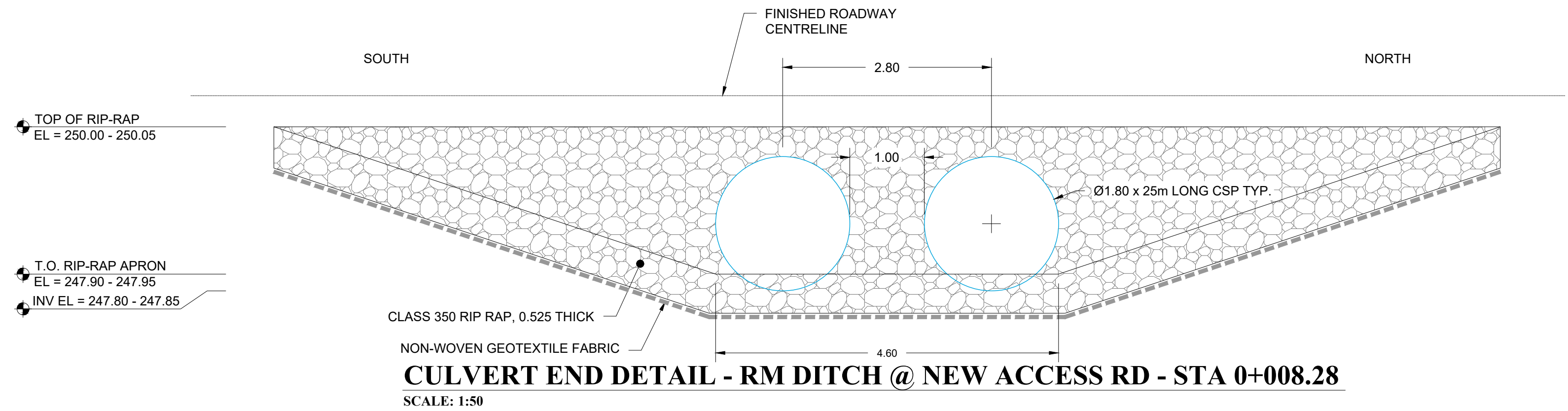
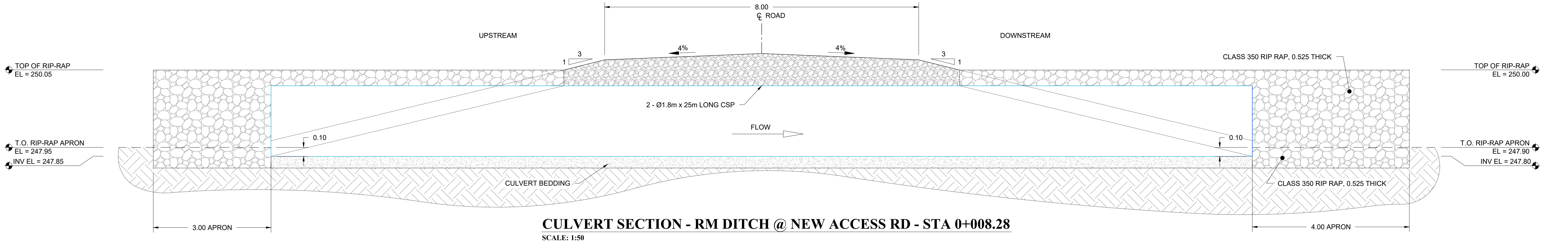
- ALL UNITS ARE IN METRES AND DECIMALS THEREOF.
- EXISTING FEATURE LOCATION INFORMATION IS DERIVED FROM SURVEY INFORMATION COLLECTED BY BMCE ON MAR 10 - 12, 2021. PROPERTY LINES SHOWN ARE APPROXIMATE BASED ON CADASTRAL INFORMATION ONLY AND NEEDS TO BE VERIFIED BY LEGAL LAND SURVEYOR PRIOR TO CONSTRUCTION.
- LOCAL ELEVATION BENCHMARK PROVIDED AT BAR ON SOUTH WEST CORNER OF PROPERTY, EL = 249.203.
- PRIOR TO CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE INDIVIDUAL UTILITY COMPANIES FOR LOCATES.
- LOCATIONS OF UNDERGROUND STRUCTURES AND SERVICES AS SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. NO GUARANTEE IS GIVEN THAT ALL UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT.
- HORIZONTAL AND VERTICAL CONTROL TO BE PROVIDED ON SITE BY THE ENGINEER FOR CONTRACTOR AT TIME OF CONSTRUCTION.

LEGEND	
PROPERTY LINE	---
QUARTER SECTION LINE	----
EXISTING GROUND ELEVATION	x 100.00
MAJOR CONTOUR (1.0m INTERVAL)	100.0
BUSH LINE	~
MAJOR DRAINAGE ARROW	→
DITCH / SWALE	---
GRADE BREAK	---
PROPOSED ELEVATION	x 100.00
PROPOSED GUTTER / DITCH	x 100.00
GRADE AT BUILDING ELEV.	100.00
GRADE SLOPE	2.0%
GRADE SLOPE w/ DISTANCE	10.0m @ 2.0%
UNDERGROUND POWER	P

0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				



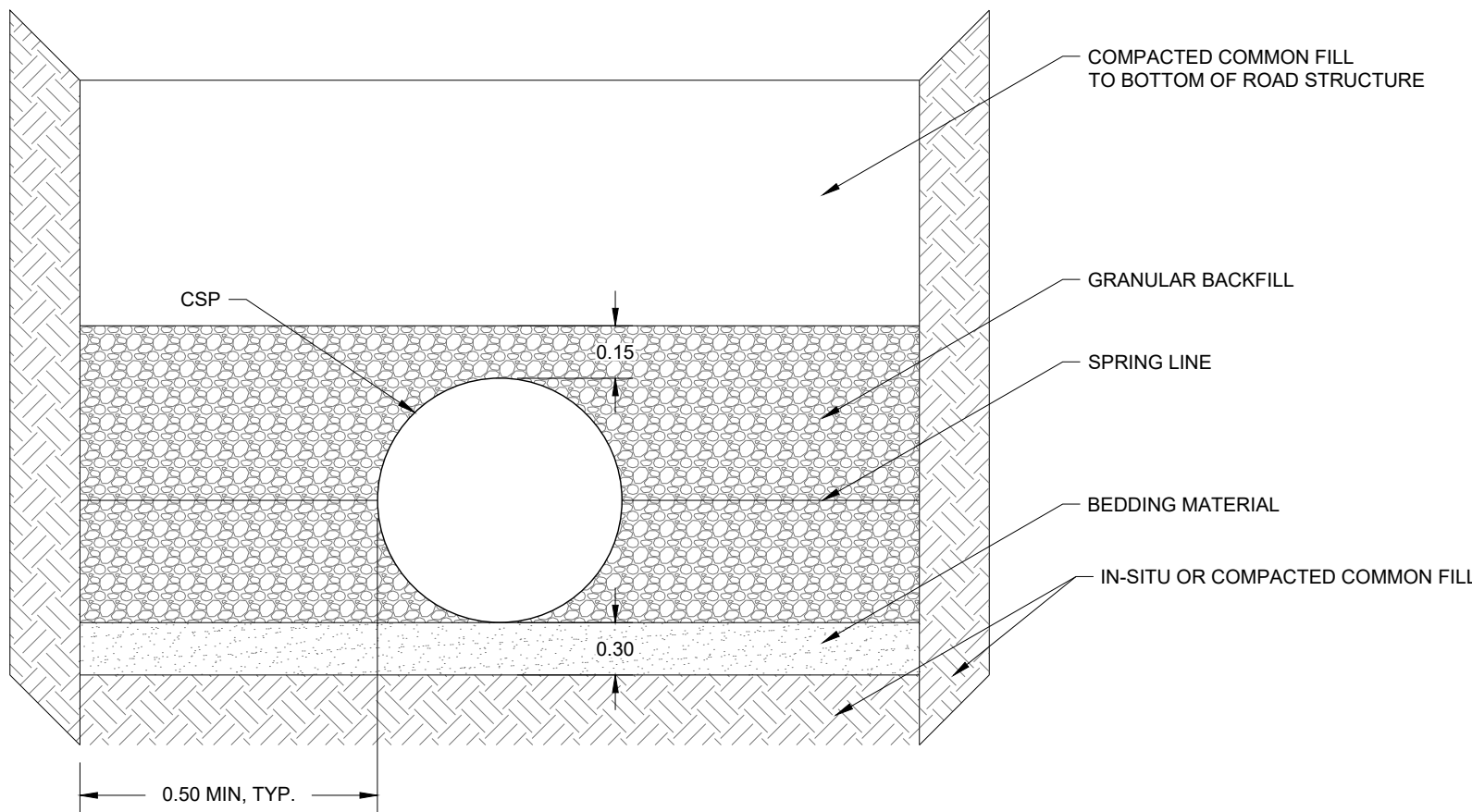
DESIGNED BY: R.J.	REVIEWED BY: D.B.	PROJECT NAME: CRYSTAL SPRINGS COLONY NEW COLONY DEVELOPMENT 28-18-03 EPM, RM OF ARMSTRONG, MB	
DRAWN BY: J.K.			
PROJECT START DATE: MAR 2021			
PLOT SIZE: A1 (594x841)			903 Rosser Ave. Brandon, Manitoba R7A 0L3
SCALE: AS NOTED			Tel: (204) 728-7364 Fax: (204) 728-4418



REVISIONS				
NO:	DATE	APP.	BY	DESCRIPTION
0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW

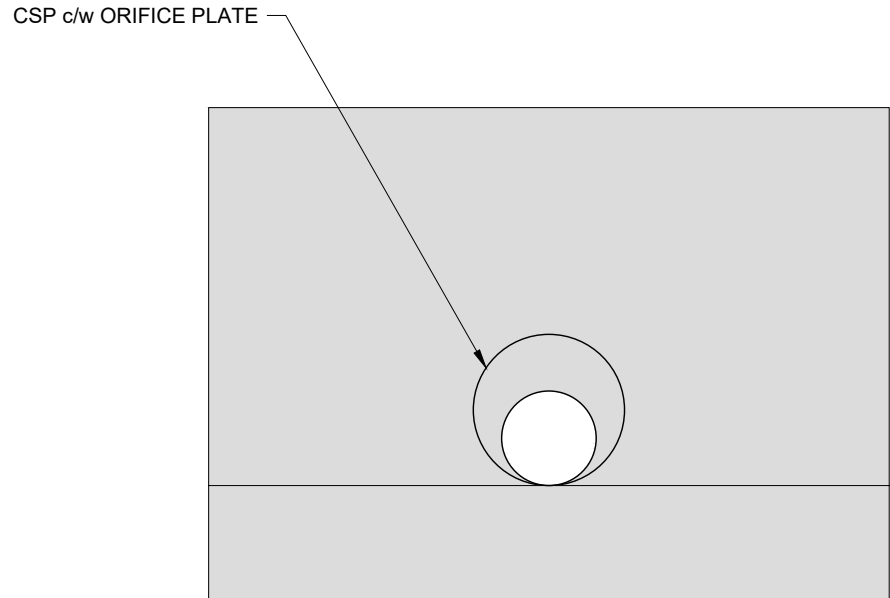


DESIGNED BY: R.J.	REVIEWED BY: D.B.	PROJECT NAME: CRYSTAL SPRINGS COLONY NEW COLONY DEVELOPMENT 28-18-03 EPM, RM OF ARMSTRONG, MB
DRAWN BY: J.K.		
PROJECT START DATE: MAR 2021		
PLOT SIZE: A1 (594x841)		
SCALE: AS NOTED		
		903 Rosser Ave. Brandon, Manitoba R7A 0L3 Tel: (204) 728-7364 Fax: (204) 728-4418



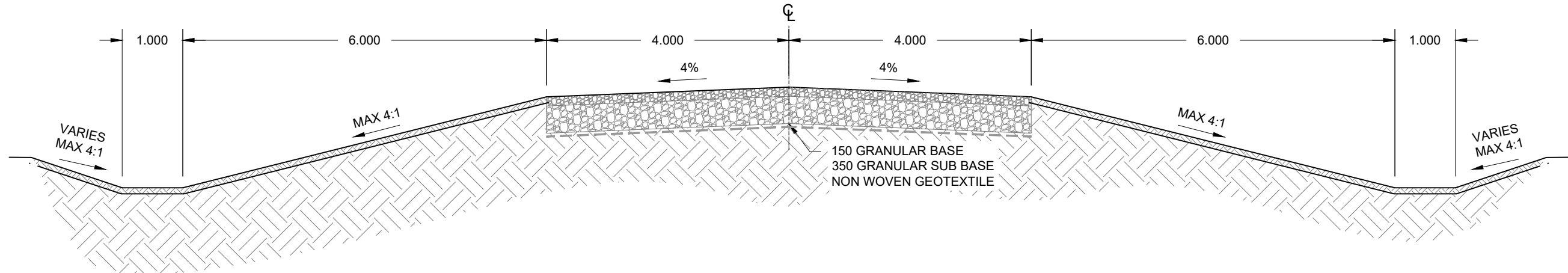
TYPICAL CULVERT BACKFILL DETAIL

SCALE: NTS



TYPICAL ORIFICE PLATE DETAIL

SCALE: 1:20

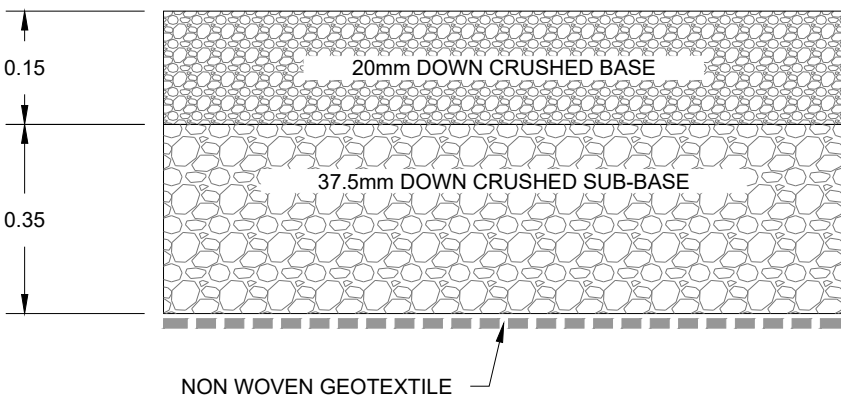


TYPICAL ROAD SECTION

SCALE: 1:75

CULVERT INSTALLATION NOTES:

- CULVERT FOUNDATION
 - 1) THE CULVERT FOUNDATION MEANS THE NATURAL SOIL, UNDERLYING THE EXCAVATION, UPON WHICH THE CULVERT BEDDING OR THE CULVERT IS TO BE PLACED.
 - 2) THE CULVERT FOUNDATION SHALL BE PREPARED AND COMPACTED TO THE STAKED GRADELINE AND FOR A WIDTH SUFFICIENT TO PERMIT COMPACTION OF THE BEDDING UNDER THE CULVERT HAUNCHES. BED EXCAVATION TO HAVE A MINIMUM WIDTH OF 0.5 m FROM OUTSIDE EDGE OF CULVERT.
 - 3) UNSUITABLE MATERIAL FROM BELOW THE STAKED GRADELINE SHALL BE REMOVED TO AN APPROVED DEPTH AND REPLACED WITH SUITABLE BEDDING AND SUITABLE GEOTEXTILE IF REQUIRED, TO PROVIDE UNIFORM CONTINUOUS SUPPORT.
- CULVERT PLACEMENT
 - 1) CULVERTS SHALL BE PLACED AT THE LOCATION, GRADE AND ALIGNMENT AS INDICATED ON THE PLAN OR AS DIRECTED BY ENGINEERING REPRESENTATIVE.
 - 2) CULVERT SECTIONS SHALL BE PLACED SO THAT THE COUPLER CORRUGATIONS SHALL PROPERLY ENGAGE PIPE CORRUGATIONS WITH THE MINIMUM GAP BETWEEN SECTION ENDS. COUPLER BOLTS SHALL BE FULLY TIGHTENED.
- CULVERT BEDDING
 - 1) THE CULVERT BEDDING MEANS A LAYER OF SELECTED MATERIAL, GENERALLY CULVERT GRAVEL, CONSTRUCTED ON THE CULVERT FOUNDATION SO AS TO UNIFORMLY SUPPORT THE CULVERT.
 - 2) CULVERT GRAVEL SHALL BE WELL GRADED AND SHALL CONSIST OF SOUND, DURABLE PARTICLES OF GRAVEL, STONE, SAND AND FINES, FREE FROM SOD, ROOTS AND ORGANIC MATERIAL. THE SHALE CONTENT SHALL NOT EXCEED 25% BY WEIGHT OF THE PARTICLES RETAINED ON A 4.75 mm SIEVE. THE CULVERT GRAVEL SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:
PASSING 37.5 mm - 100%
PASSING 4.75 mm - 80%
PASSING 425 um - 15 - 40%
PASSING 75 um - 6 - 18%
 - 3) CULVERT GRAVEL FOR BEDDING SHALL BE SPREAD UNIFORMLY ALONG THE FULL LENGTH OF THE CULVERT FOUNDATION. THE BEDDING SHALL BE PLACED SO THAT AFTER COMPACTING, A DEPTH OF AT LEAST 300 mm OF GRAVEL REMAINS UNDER THE FULL LENGTH OF THE CULVERT.
 - 4) AFTER THE CULVERT HAS BEEN INSTALLED AND ASSEMBLED ON THE LOOSE BEDDING, THE BEDDING ON BOTH SIDES OF THE CULVERT SHALL BE COMPACTED. CULVERT BEDDING SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT TO A MINIMUM OF 95% AASHTO STANDARD DRY DENSITY.
- CULVERT BACKFILLING - BELOW SPRINGLINE
 - 1) FILL MATERIAL UNDER HAUNCHES SHALL BE PLACED ALTERNATELY IN 150 mm LAYERS ON BOTH SIDES OF THE PIPE AND COMPACTED. THE MATERIAL UNDER THE HAUNCHES MUST BE IN FIRM CONTACT WITH THE ENTIRE BOTTOM SURFACE OF THE STRUCTURE. BACKFILL AND COMPACTION UNDER HAUNCHES IS A MANUAL JOB, CONSISTING OF SHOVEL PLACEMENT, TIMBER RAMMER OR HAND HELD PACKERS.
 - 2) COMPACTION TO SPRINGLINE - AFTER THE HAUNCH AREA HAS BEEN BACKFILLED AND COMPACTED, ADDITIONAL BEDDING MATERIAL SHALL BE PLACED ADJACENT TO THE PIPE HAUNCHES IN LIFTS NOT EXCEEDING 150 mm. EACH LIFT SHALL BE COMPACTED WITH A PLATE TYPE MECHANICAL COMPACTOR. BEDDING MATERIAL SHALL BE PLACED IN THIS MANNER UP TO THE LEVEL OF THE SPRINGLINE. MATERIAL PLACED ABOVE THE SPRINGLINE SHALL BE PLACED AS DESCRIBED IN BACKFILL.
- CULVERT BACKFILLING - ABOVE SPRINGLINE
 - 1) BACKFILL WILL MEAN CULVERT GRAVEL OR SELECTED MATERIAL USED FOR FILL ADJACENT TO AND OVER AN ASSEMBLED CULVERT. THE LEVEL OF BACKFILL ON BOTH SIDES OF THE CULVERT SHALL BE MAINTAINED APPROXIMATELY EQUAL AT ALL TIMES TO PREVENT DISTURBING THE CULVERT.
 - 2) EXCAVATED MATERIAL OR MATERIAL SIMILAR TO THE ROADWAY EMBANKMENT SHOULD BE ENCOURAGED AS BACKFILL IN FROST SUSCEPTIBLE SOILS. HEAVY CLAY MATERIAL SHALL NOT BE USED AS BACKFILL.
 - 3) WHEN CULVERT GRAVEL IS NOT USED, MATERIAL PLACED UNDER THE HAUNCHES SHALL BE CAREFULLY SELECTED TO ENSURE THAT IT IS FREE OF ROCKS AND LUMPS.
 - 4) CULVERTS SHALL BE BACKFILLED IN UNIFORM LAYERS NOT EXCEEDING 150 mm AND SHALL BE COMPACTED TO A MINIMUM OF 95% AASHTO STANDARD DRY DENSITY.
 - 5) BACKFILL SHALL BE PLACED AND COMPACTED IN UNIFORM LAYERS UNTIL THE EMBANKMENT HAS BEEN CONSTRUCTED TO A SUFFICIENT HEIGHT ABOVE THE TOP OF THE CULVERT SO THAT NORMAL GRADING EQUIPMENT CAN OPERATE WITHOUT DISTORTING THE CULVERT.
- CHANNEL EXCAVATION
 - 1) THE DRAIN MAY REQUIRE EXCAVATION UPSTREAM AND DOWNSTREAM TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING CHANNEL.
 - 2) THE LIMITS OF THE CHANNEL TRANSITION SHALL BE AS INDICATED ON THE PLAN OR AS DIRECTED BY ENGINEERING REPRESENTATIVE
- RIPRAP
 - 1) THE CLASS 350 RIPRAP WILL BE WELL-GRADED, ROUNDED, CLEAN FIELD STONE OR QUARRIED CRUSHED ROCK WITH THE FOLLOWING GRADATION: 100% < 350 mm, 50% > 200 mm AND 80% > 100 mm.
 - 2) RIPRAP TO BE PLACED OVER ARMETEC 230 NON-WOVEN GEOTEXTILE OR EQUIVALENT

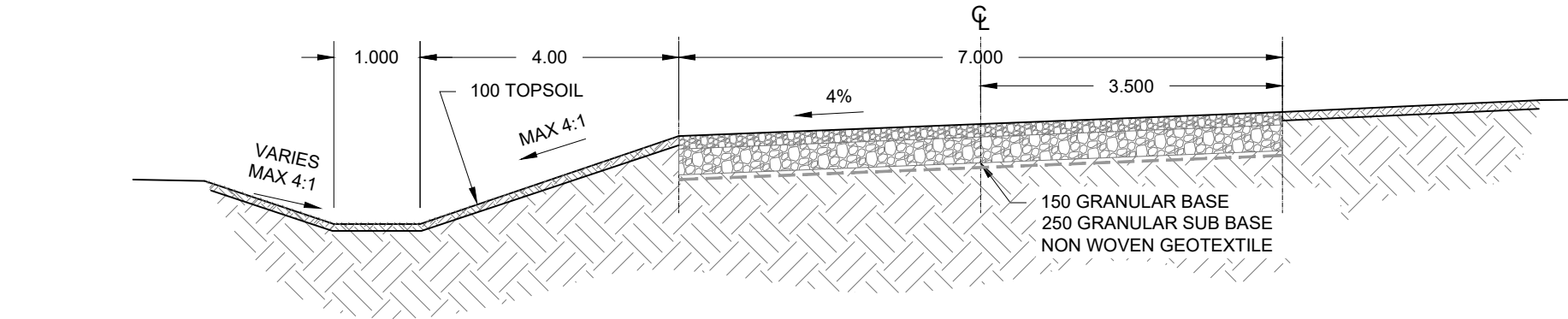


TYPICAL GRAVEL PAD SECTION

SCALE: NTS

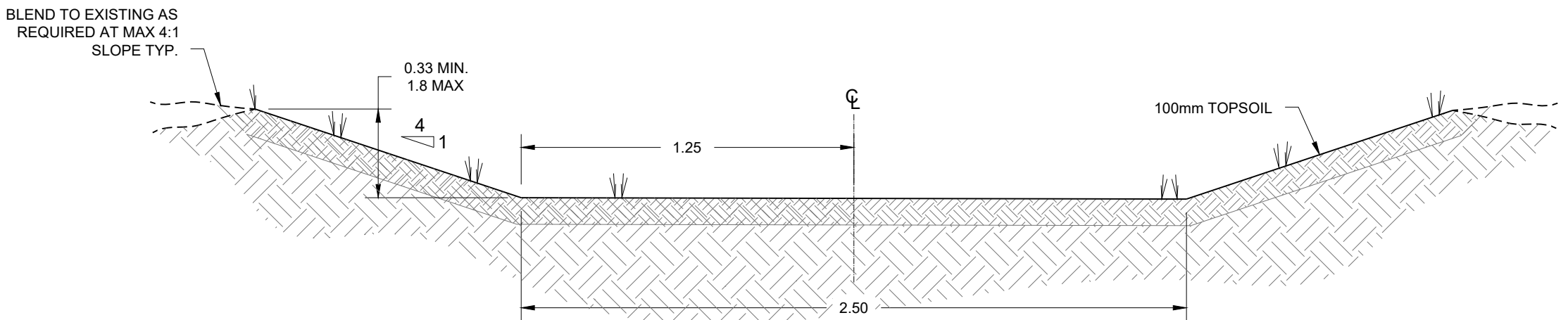
GRAVEL PAD / ROAD CONSTRUCTION NOTES

- ORGANICS, LOOSE SAND, FILLS, AND ANY OTHER DELETERIOUS MATERIAL SHOULD BE STRIPPED SUCH THAT THE SUBGRADE CONSISTS OF COMPACT TO DENSE SILT TILL, COMPACT TO DENSE SAND, STIFF TO HARD SILT AND CLAY, OR STIFF TO VERY STIFF SILTY CLAY.
- EXCAVATION SHOULD BE COMPLETED WITH AN EXCAVATOR EQUIPPED WITH A SMOOTH-BLADED BUCKET AND OPERATING FROM THE EDGE OF THE EXCAVATION IN ORDER TO MINIMIZE DISTURBANCE TO THE EXPOSED SUBGRADE.
- AFTER EXCAVATION, THE SUB-GRADE SHOULD BE INSPECTED BY TREK PERSONNEL. THE SUB-GRADE SHOULD BE PROOF-ROLLED WITH A FULLY LOADED TANDEM AXLE TRUCK TO DETECT SILT OR SOFT AREAS. SILT OR SOFT AREAS SHOULD BE REPAIRED AS PER DIRECTIONS PROVIDED BY TREK. THIS WILL LIKELY CONSIST OF EXCAVATING AN ADDITIONAL 150 TO 300 MM, PLACING A NON-WOVEN GEOTEXTILE ON THE SUB-GRADE, AND BACKFILLING WITH A 37.5 MM DOWN CRUSHED GRANULAR FILL. THE GRANULAR FILL SHOULD BE PLACED IN LIFTS NO GREATER THAN 150 MM AND COMPACTED TO A MINIMUM OF 95% OF THE SPMD.
- THE SUB-GRADE SHOULD BE PROTECTED FROM FREEZING, DRYING, INUNDATION WITH WATER OR DISTURBANCE AT ALL TIMES. IF ANY OF THESE CONDITIONS OCCUR THE SUB-GRADE SHOULD BE SCARIFIED, MOISTURE CONDITIONED AS APPROPRIATE, AND RE-COMPACTED TO A MINIMUM OF 95% OF THE SPMD.
- A NON-WOVEN GEOTEXTILE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON THE PREPARED SUB-GRADE PRIOR TO PLACEMENT OF GRANULAR FILL.
- THE GRANULAR SUB-BASE AND BASE MATERIALS SHOULD BE PLACED IN LIFTS NOT EXCEEDING 150 MM AND COMPACTED TO 98% OF THE SPMD.



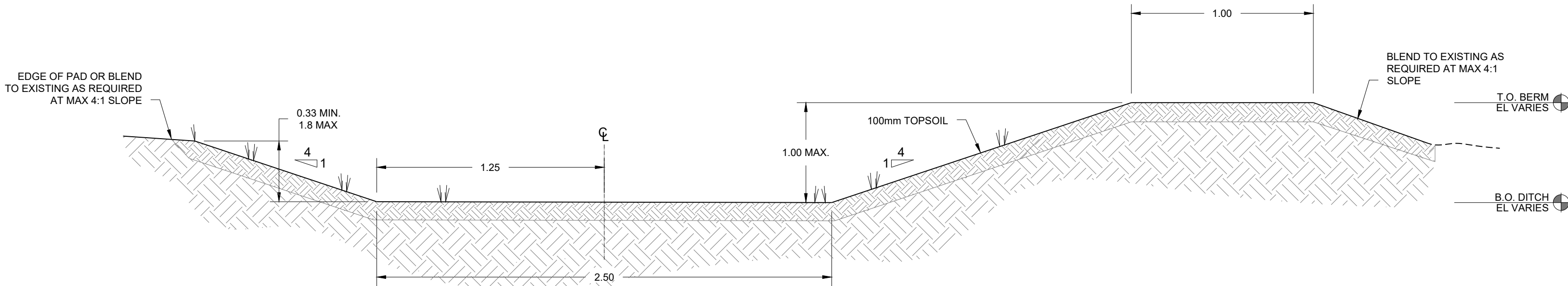
TYPICAL RESIDENTIAL ROAD SECTION

SCALE: 1:75



TYPICAL DITCH SECTION

SCALE: 1:20




TYPICAL DITCH w/ BERM SECTION

SCALE: 1:20

0	MAR 30, 2023	R.J.	J.K.	ISSUED FOR CONSTRUCTION
A	JULY 21, 2022	D.B.	J.K.	ISSUED FOR CLIENT REVIEW
NO:	DATE	APP.	BY	DESCRIPTION
REVISIONS				



DESIGNED BY: R.J.		REVIEWED BY: D.B.		PROJECT NAME: CRYSTAL SPRINGS COLONY NEW COLONY DEVELOPMENT 28-18-03 EPM, RM OF ARMSTRONG, MB	
DRAWN BY: J.K.					
PROJECT START DATE: MAR 2021					
PLOT SIZE: A1 (594x841)				903 Rosser Ave. Brandon, Manitoba R7A 0L3	
SCALE: AS NOTED				Tel: (204) 728-7364 Fax: (204) 728-4418	
				<u>BURNS MAENDEL</u> CONSULTING ENGINEERS LTD.	



903 Rosser Ave.
Brandon, Manitoba
R7A 0L3
Tel: (204) 728-7364
Fax: (204) 728-4418

DATE: November 15, 2023

TO: Housseini Coulibaly
Environmental Approvals Branch
14 Fultz Blvd, Winnipeg, MB
R3Y 0L6

FROM: Joy Kennedy
Water Quality Management Section
Environment and Climate
14 Fultz Blvd, Winnipeg, Manitoba
R3Y 0L6

cc.

PHONE NO.: 204-945-7908

SUBJECT: CRYSTAL SPRING COLONY FARMS LTD

- The following effluent standards should be in place for Crystal Spring Colony Farms Ltd wastewater treatment lagoon as per the *Manitoba Water Quality Standards, Objectives and Guidelines Regulation* (196/2011) for discharge events:
 - BOD5 25 mg/L,
 - TSS 25 mg/L,
 - Total Phosphorus <1 mg/L,
 - Fecal Coliforms or *Escherichia coli* 200 organisms / 100mL
- The Water Quality Management Section is concerned with any discharges that have the potential to impact the aquatic environment and/or restrict present and future uses of the water. Therefore it is recommended that the license require the proponent to actively participate in any future watershed based management study, plan/or nutrient reduction program, approved by the Director.

Sincerely,

Joy Kennedy

Sagan, Barsha

From: +WPG569 - Forestry and Peatlands Circulars
Sent: October 24, 2023 10:56 AM
To: Coulibaly, Housseini
Subject: RE: Request for Environment Act Proposal Review: File 6193.00 – Crystal Spring Colony
New Development - Wastewater Lagoon

Forestry and Peatlands has no concerns with the activity.

To reduce the spread of forest insects and disease. Properly dispose of trees identified as Elm, per the Forest Health Protection Act and regulation.

Jane

Sagan, Barsha

From: +WPG1195 - Mines BR
Sent: November 10, 2023 1:45 PM
To: Coulibaly, Housseini
Subject: RE: Request for Environment Act Proposal Review: File 6193.00 – Crystal Spring Colony
New Development - Wastewater Lagoon

Hi Housseini,

Mines Branch has no concerns

Tim Davis
GIS Specialist
Minerals, Petroleum, and Geoscience, EDITNR
Tim.davis@gov.mb.ca
360-1395 Ellice Ave, Winnipeg, MB
(204) 945-6525

Sagan, Barsha

From: Leonen, Leonardo
Sent: November 21, 2023 9:15 AM
To: Coulibaly, Housseini
Cc: Mraz, Peter
Subject: RE: Request for Environment Act Proposal Review: File 6193.00 – Crystal Spring Colony
New Development - Wastewater Lagoon

There are no known petroleum deposits and oil/gas infra in the area. Petroleum Branch has no concerns.

Leo

Memorandum

DATE: 2023-11-15

TO: Environmental Approvals Branch
Department of Environment and
Climate

c/o Housseini D. Coulibaly
Senior Environmental Engineer
Industrial and Wastewater Section
Box 35, 14 Fultz Blvd
Winnipeg, MB R3Y 0L6

FROM: Archaeological Assessment Services Unit

Historic Resources Branch
Main Floor – 213 Notre Dame Avenue
Winnipeg, MB
R3B 1N3

T: (204) 945-2118

F: (204) 948-2384

e: HRB.archaeology@gov.mb.ca

SUBJECT: File No: 6193.00
AAS File AAS-23-21055
Environment Act Proposal Review -Crystal Spring Colony New Development -
Wastewater Lagoon

No Concerns at this Time

Further to your e-mail regarding the above noted application, the Manitoba Historic Resources Branch (HRB) has examined the location in conjunction with Branch records for areas of potential concern. The potential to impact to heritage resources is believed to be low based on analysis of current data and evaluated by the type of action proposed, therefore, the HRB has no concerns with the proposed project at this time. This evaluation is only appropriate for this respective request.

Legislation

Under Section 46 and 51 of [the Heritage Resources Act](#) (the Act), if at any time, heritage resources are encountered in association with these lands during testing and development, there is an obligation to report any heritage resources and a prohibition on destruction, damage or alteration of said resources. HRB may require that an acceptable heritage resource management strategy be implemented by the proponent/developer to mitigate the effects of their activity on the heritage resources.

If you have any questions, please contact as above for proper assignment and queueing.

Historic Resources Branch
Archaeological Assessment Services Unit

Sagan, Barsha

From: Jack, Breanne
Sent: November 15, 2023 11:40 AM
To: Coulibaly, Housseini
Cc: +SEL1081 - Selkirk CRP
Subject: RE: Due Nov 27- Request for Environment Act Proposal Review: File 6193.00 – Crystal Spring Colony New Development - Wastewater Lagoon

Community Planning has no concerns.

Sagan, Barsha

From: Singh, Davinder
Sent: November 20, 2023 9:57 AM
To: Coulibaly, Housseini
Cc: Benoit, Peter; Khodaveisi, Mahmoud; Sturgess, Yvonne
Subject: RE: Request for Environment Act Proposal Review: File 6193.00 – Crystal Spring Colony
New Development - Wastewater Lagoon

Hello Housseini,

Thank you for the opportunity to review this file.

I have no specific concerns.

Thank you,
Davinder

Dr. Davinder Singh, MD, JD, MSc, FRCPC
Medical Officer of Health
Southern Health-Santé Sud
Manitoba Health, Seniors and Long-Term Care

Burland Ross, Siobhan

From: Coletti, Lucas <Lucas.Coletti@dfo-mpo.gc.ca>
Sent: November-09-23 3:00 PM
To: Coulibaly, Housseini
Subject: CRYSTAL SPRING COLONY NEW DEVELOPMENT - WASTEWATER LAGOON – FILE: 6193.00 - 7317434 MANITOBA LTD

You don't often get email from lucas.coletti@dfo-mpo.gc.ca. [Learn why this is important](#)

CAUTION: This email originated from an External Sender. Please do not click links or open attachments unless you recognize the source.

ATTENTION: ce courriel provient d'un expéditeur externe. Ne cliquez sur aucun lien et n'ouvrez pas de pièce jointe, excepté si vous connaissez l'expéditeur.

Hello Housseini,

This project was brought to DFO's attention as it may relate to impacts to fish and fish habitat. Please accept our comment below.

The *Fisheries Act* requires that projects avoid causing any harmful alteration, disruption or destruction of fish and/or fish habitat unless authorized by the Minister of Fisheries and Oceans Canada. The Fish and Fish Habitat Protection Program of Fisheries and Oceans Canada reviews projects to ensure compliance with the *Fisheries Act* and the *Species at Risk Act*. Following the measures to protect fish and fish habitat will help you comply with the *Act*; these measures can be found at <http://www.dfo-mpo.gc.ca/pnw-ppe/measures-mesures-eng.html>.

We request that you visit our website at <http://www.dfo-mpo.gc.ca/pnw-ppe/reviews-revues/request-review-demande-d-examen-001-eng.html> to determine if DFO needs to review your project. If your project is not in one of the listed exempted waterbody types nor does it fall within the standards and codes of practice, we recommend that you submit a Request for Review to DFO before proceeding further. If you are unsure about whether your project requires DFO review, you can seek support from a qualified environmental professional familiar with measures to avoid impacts to fish and fish habitat. It is the proponent's responsibility to meet all requirements of federal, provincial and municipal agencies.

Sincerely,

Lucas Coletti

Biologist | Biologiste

Fisheries and Oceans Canada | Pêches et Océans Canada

Fish and Fish Habitat Protection Program | Programme de Protection du Poisson et de Son Habitat

867 Lakeshore Road, Burlington, ON, L7S 1A1 | 867, ch. Lakeshore, Burlington, ON, L7S 1A1

Email/Courriel: Lucas.Coletti@dfo-mpo.gc.ca