

TRANSMITTAL SHEET

TO: All Bidders
DATE: May 24, 2023
TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE): 12
FROM: Dean Price, P. Eng. **TEL. #:** (506) 654-1511
Saint John Water

IF YOU DID NOT RECEIVE ALL PAGES, OR FURTHER INFORMATION IS REQUIRED,
PLEASE CONTACT THE SENDER

MESSAGE:

TENDER NO: 2023-03

Menzies Lake Dam and Access Road Drainage Upgrades

Please find attached a copy of **Addendum #2** for the above tender.

As of March 2021, please be advised that an ***Acknowledgement Form*** (historically sent as part of the City's addendum packages) confirming receipt of an Addendum is **no longer** included in the addendum package.

However, in accordance with Section 2.5.03 of the City's General Specifications, it remains a requirement that **each Addendum** will contain a signature page(s) which each Tenderer is **required to sign and include with its Tender submission.**



UTILITIES & INFRASTRUCTURE SERVICES
Engineering Services
175 Rothesay Avenue
Saint John, NB, E2J 2B4

ADDENDUM

PROJECT TITLE:

Menzies Lake Dam and Access Road Drainage Upgrades

ADDENDUM NO: 2

DATE: May 24, 2023

PAGE: 1 **OF** 11

TENDER NO: 2023-03

MAKE THE FOLLOWING MODIFICATIONS TO THE ABOVE PROJECT. INCLUDE IN THE AMOUNT OF THE TENDER ANY ADDITIONS TO OR DEDUCTIONS FROM THE COST OF THE WORK BY REASON OF THESE INSTRUCTIONS. THE DATE FOR RECEIVING TENDERS HAS REMAINS AT: **2:30:00 PM, TUESDAY, May 30th, 2023.**

REVISIONS TO THE SPECIFICATIONS

Division 2 – Submission of Tender

As a result of the COVID-19 pandemic, the City of Saint John is implementing adjustments to the tender submission procedure as follows:

Section 2.6.01 Location of Tender Box for the Submission of Tender

175 Rothesay Avenue, 1st Floor
Saint John, New Brunswick

The tender box will be available at the main building entrance for submission of tenders by the Tenderer between the hours of 9:30 am and 2:30 pm only on the above tender closing date. Tenderers shall maintain physical distancing from others when depositing their tender in the tender box.

There will not be a public tender opening. Registered Bidders will receive an email invitation to view the Tender Opening using Microsoft Teams software. Email invitations will be sent to the address provided on the Official Bidder's List. The Tender Opening Committee will conduct the evaluation of the tenders and Compliant tenders will be included in the summary of bids on the City's Tenders & Proposals website within 1 business day following the tender closing.

Replace Section 2.2.10 Timetable for Completion of Work with:

All in-water work shall be completed by September 30, 2023.

The date for Substantial Completion of the Work is November 30, 2023.

Division 3 – Particular Specifications

Replace Section 3.1.03 Project Schedule with:

The Contractor shall submit a proposed schedule for the Work in accordance with Section 6.13 (Schedule of Work) of the City of Saint John General Specifications.

- All in-water work shall be completed by September 30, 2023
- **Substantial completion: November 30, 2023**

ADJUSTMENTS TO DIVISION 4 – FORM OF TENDER

A revised Schedule of Quantities and Unit Prices has been included in this Addendum. Tenders shall be submitted using Schedule of Quantities and Unit Prices (Revision 1) Sheets 1 through 5.

ADJUSTMENTS TO CONTRACT DRAWINGS

Revised Drawings: The following previously IFT drawings dated 2023/05/02 are revised and reissued in this Addendum. The attached revised drawings noted as “Issued for Addendum 2” supersede the previously issued drawings:

Sheet No.	Description
C000	Cover
C010	Saddle Dyke 2 Proposed Refurbishment
C019	Culvert Replacement CLV013, CLV016 & CLV017
C025	Culvert Tables and Details

BY: *Michael Baker*

CHIEF CITY ENGINEER

CONTRACTOR'S SIGNATURE

TO BE SIGNED AND ATTACHED TO TENDER DOCUMENTS

DIVISION 4
SCHEDULE OF QUANTITIES AND UNIT PRICES (REVISION 1)
(ADDENDUM 2)

CONTRACT NUMBER 2023-03

TITLE: MENZIES LAKE DAM AND ACCESS ROAD DRAINAGE UPGRADES

UNIT PRICE TO BE EITHER
TYPEWRITTEN OR PRINTED IN
INK IN WORDS AND PRINTED
NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL
					WRITTEN	NUMERICAL	\$
A	DRAINAGE CULVERTS						
1	<u>Pipelaying & Jointing: Drainage Culverts - Supply and Install</u>	3, 7, 13, 21, 22					
	a) 1500mm Ø concrete, class III with gasket or approved equal and fish baffles		m	17.1			
	b) 1200mm Ø concrete, class III with gasket or approved equal with fish baffles		m	78.4			
	c) 600mm Ø concrete or HDPE		m	78.4			
	d) 450mm Ø concrete or HDPE		m	66.7			
	AMOUNT "A" DRAINAGE CULVERTS						

DIVISION 4
 SCHEDULE OF QUANTITIES AND UNIT PRICES (REVISION 1)
 (ADDENDUM 2)

CONTRACT NUMBER 2023-03
 TITLE: MENZIES LAKE DAM AND ACCESS ROAD DRAINAGE UPGRADES

UNIT PRICE TO BE EITHER
 TYPEWRITTEN OR PRINTED IN
 INK IN WORDS AND PRINTED
 NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL
					WRITTEN	NUMERICAL	\$
B	ROAD WORK						
1	<u>Granular backfill & Compaction (Roads and Other Surfaces) - Supply & Place</u>	3, 13, 21, 24					
	a) Imported Granular Subbase - Pit Run Gravel or Crushed Rock		m ³	400			
	b) Imported Granular Base - Crushed Gravel or Crushed Rock		m ³	150			
	c) Imported R5 Riprap (for culvert end treatments)		t	200			
2	<u>Excavation (Roads and Other Surfaces)</u>	13					
	d) Rock Excavation		m ³	50			
	e) Ditching (Cleaning)		m	1,800			
	f) Common Excavation		m	75			
	AMOUNT "B" ROAD WORK						

DIVISION 4
SCHEDULE OF QUANTITIES AND UNIT PRICES (REVISION 1)
(ADDENDUM 2)

CONTRACT NUMBER 2023-03

TITLE: MENZIES LAKE DAM AND ACCESS ROAD DRAINAGE UPGRADES

UNIT PRICE TO BE EITHER
TYPEWRITTEN OR PRINTED IN
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NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL
					WRITTEN	NUMERICAL	\$
C	DAM IMPROVEMENTS						
1	<u>Random Riprap - Supply & Place (for Dams and Road Work)</u>	3, 20					
a)	Imported R5 Riprap		t	1,500			
b)	Imported R50 Riprap		t	2,800			
2	<u>Clearing and Grubbing (not including Ditching along Access Road)</u>	3					
c)	Clearing and Grubbing		m ²	6,500			
3	<u>Granulars for Dam and Saddle Dyke Construction</u>	3					
d)	Imported Granular Base - Crushed Rock		m ³	800			
e)	Imported Rockfill Material		m ³	3,600			
f)	Imported Coarse Filter Material		m ³	650			
g)	Imported Fine Filter Material		m ³	400			

DIVISION 4
SCHEDULE OF QUANTITIES AND UNIT PRICES (REVISION 1)
(ADDENDUM 2)

CONTRACT NUMBER 2023-03

TITLE: MENZIES LAKE DAM AND ACCESS ROAD DRAINAGE UPGRADES

UNIT PRICE TO BE EITHER
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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL
					WRITTEN	NUMERICAL	\$
4	<u>Excavation</u>	13					
	h) Common Excavation (Saddle Dykes)		m ³	3,500			
5	<u>Geotextile</u>	3, 24					
	i) Geotextile (NBDTI N4) - Includes supply and installation		m ²	2,100			
6	<u>Control Structure Improvements</u>	3, 13,					
	j) Pre-cast Concrete Barriers - Includes fabrication, supply, installation, and civil work		Each	8			
	k) Water Level Gauge- Includes fabrication, supply, and installation		Each	1			
	l) New Timber Decking on Control Structure - Includes demolition of existing, supply, fabrication, and installation		LS	1			
	m) New Metal Grating on Control Structure - Includes removal of existing, supply, fabrication, and installation		LS	1			
	n) New Timber Hand Rail on Control Structure - Includes removal of existing, fabrication, supply, fabrication, and installation		LS	1			
	AMOUNT "C" DAM IMPROVEMENTS						

DIVISION 4
SCHEDULE OF QUANTITIES AND UNIT PRICES (REVISION 1)
(ADDENDUM 2)

CONTRACT NUMBER 2023-03

TITLE: MENZIES LAKE DAM AND ACCESS ROAD DRAINAGE UPGRADES

UNIT PRICE TO BE EITHER
TYPEWRITTEN OR PRINTED IN
INK IN WORDS AND PRINTED
NUMERICALLY

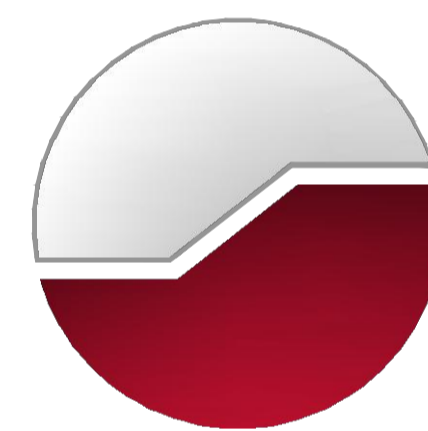
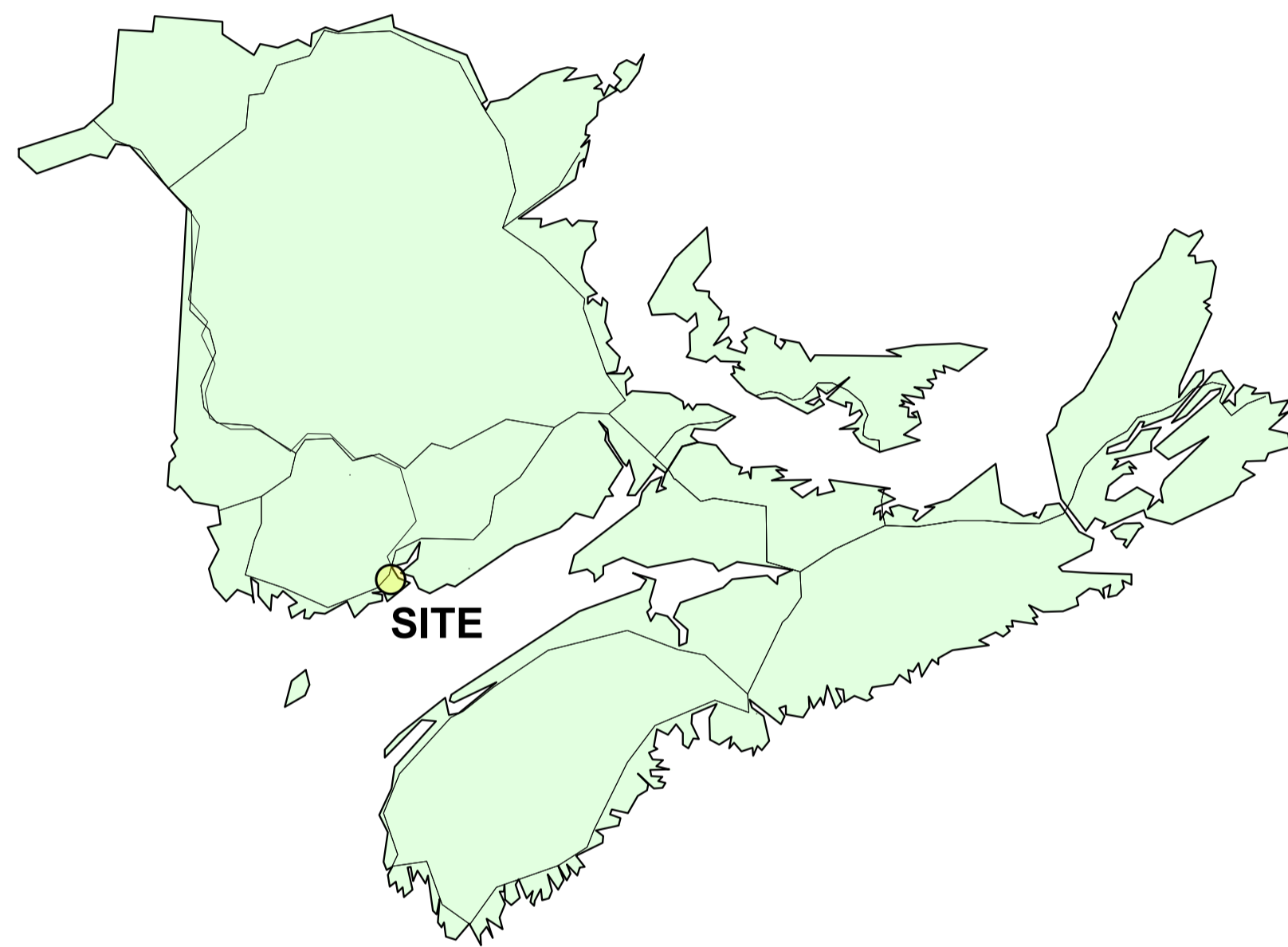
ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL
					WRITTEN	NUMERICAL	\$
D	MISCELLANEOUS						
1	<u>Signage for Culverts, Dams, and Hazards</u>	3, 17					
	a) Signage - Includes fabrication, supply, and installation		LS	1			
2	<u>Contingency</u>	2.6.03	LS	1	One Hundred Thousand Dollars, Zero Cents	\$100,000.00	\$100,000.00
	AMOUNT "D" MISCELLANEOUS						
	SUBTOTAL (A + B + C + D)						
	HARMONIZED SALES TAX (HST) 15%						
	TOTAL INCLUDING HST						

CITY OF SAINT JOHN

MENZIES LAKE DAMS AND ACCESS ROAD DRAINAGE UPGRADES

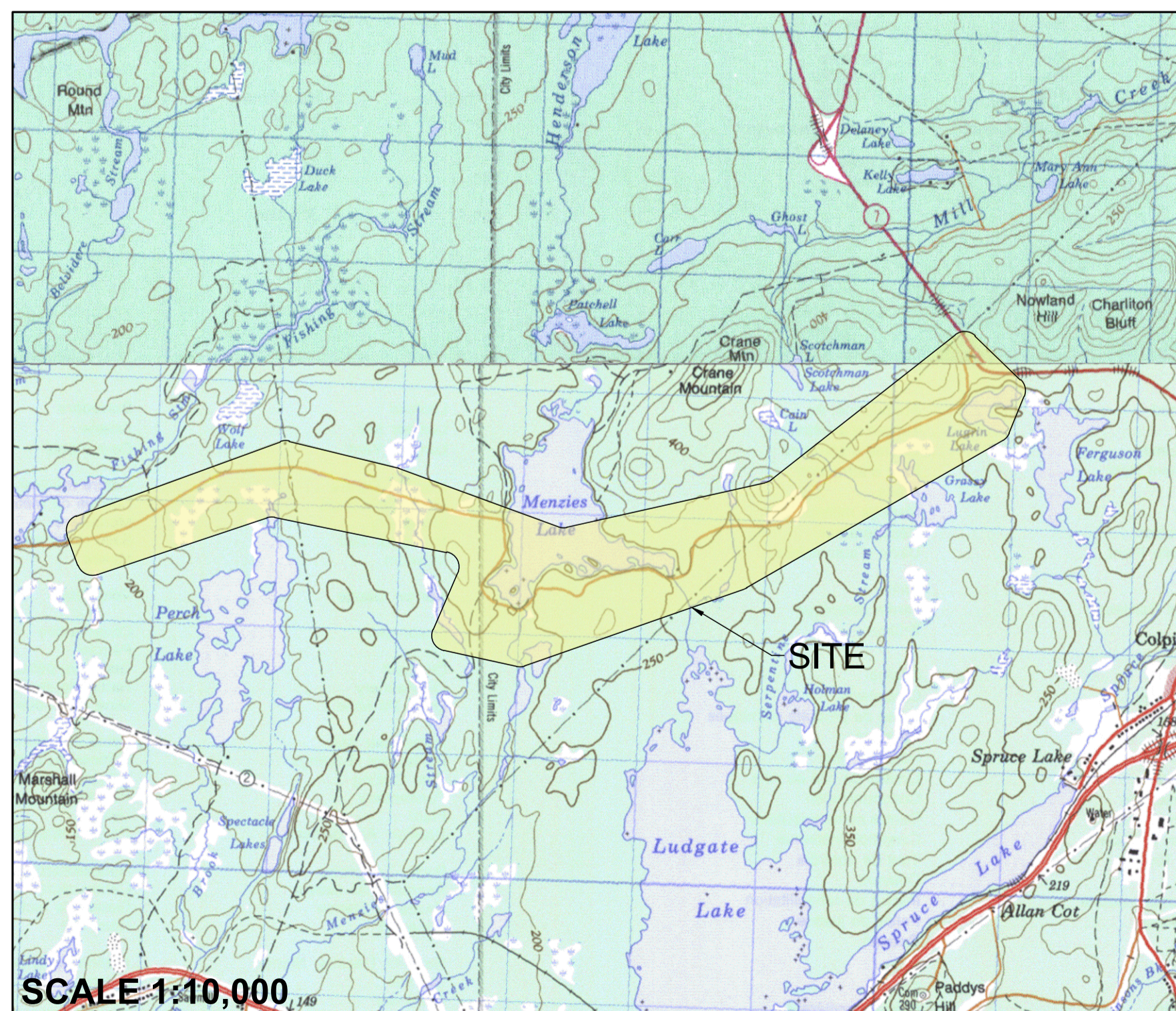
SAINT JOHN, NB

CONTRACT: 2023-3



GEMTEC

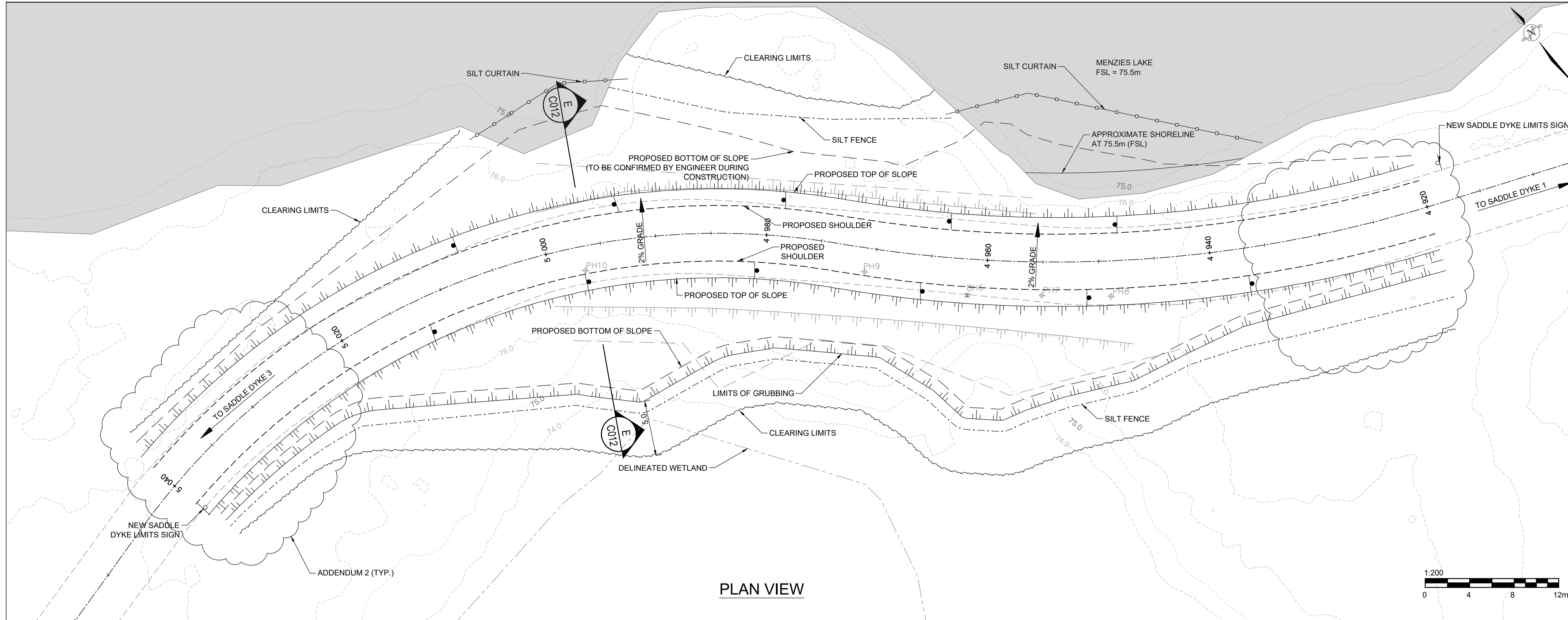
CONSULTING ENGINEERS
AND SCIENTISTS



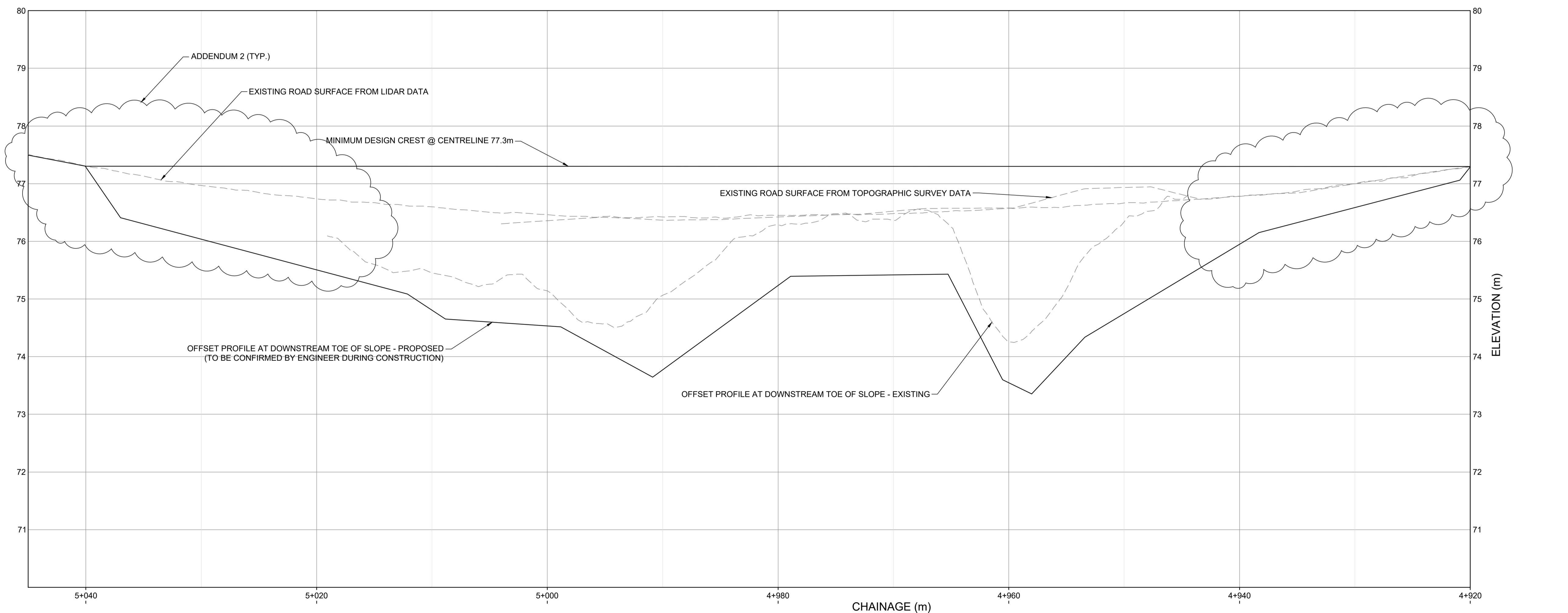
City of Saint John

ADDENDUM 2

DRAWINGS INDEX	
C001	OVERALL SITE PLAN STA. 0+000 TO STA. 6+350
C002	OVERALL SITE PLAN STA. 6+350 TO STA. 10+255
C003	MENZIES LAKE SADDLE DYKE EXISTING CONDITION
C004	SADDLE DYKE 1 EXISTING CONDITIONS
C005	SADDLE DYKE 2 EXISTING CONDITIONS
C006	SADDLE DYKE 3 EXISTING CONDITIONS
C007	CONTROL STRUCTURE EXISTING CONDITIONS
C008	EXISTING TYPICAL SECTIONS AT SADDLE DYKES
C009	SADDLE DYKE 1 PROPOSED REFURBISHMENT
C010	SADDLE DYKE 2 PROPOSED REFURBISHMENT
C011	SADDLE DYKE 3 PROPOSED REFURBISHMENT
C012	TYPICAL DESIGN SECTION
C013	CONTROL STRUCTURE ABUTMENTS PROPOSED REHABILITATION
C014	NOTES RELATED TO DAM REFURBISHMENTS
C015	CULVERT REPLACEMENT CLV004 & CLV005
C016	CULVERT REPLACEMENT CLV006 & CLV007
C017	CULVERT REPLACEMENT CLV008 & CLV010
C018	CULVERT REPLACEMENT CLV011 & CLV012
C019	CULVERT REPLACEMENT CLV013, CLV016, & CLV017
C020	CULVERT REPLACEMENT CLV019 & CLV020
C021	CULVERT REPLACEMENT CLV021 & CLV022
C022	CULVERT REPLACEMENT CLV024
C023	CULVERT REPLACEMENT CLV026
C024	DITCHING STA. 6+225 TO STA. 6+327
C025	CULVERT TABLES AND DETAILS
S001	SPILLWAY PEDWAY REPLACEMENT - PARTIAL DEMOLITION PLAN PARTIAL NEW PLAN
S002	SPILLWAY DETAILS
S003	CONSTRUCTION NOTES
S004	SIGNAGE DETAILS



PLAN VIEW



PROFILE

NOTES

1. THE HORIZONTAL AND VERTICAL DATUM UTILIZED ARE NAD83 (CSRS) NEW BRUNSWICK DOUBLE STEREOGRAPHIC PROJECTION AND THE CANADIAN GEODETIC VERTICAL DATUM OF 1928 (CGVD28).
2. CONTRACTOR TO ENSURE THAT ALL MUNICIPAL INFRASTRUCTURE, PUBLIC UTILITIES, NATURAL GAS AND OTHER INFRASTRUCTURE ARE LOCATED IN THE FIELD PRIOR TO THE START OF EXCAVATION.
3. FOR DETAILS ABOUT SIGNAGE SEE DWG S004.
4. BOREHOLES/TEST PITS/PROBE HOLES PREFORMED BY SGE ACRES IN 2002.
5. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.

LEGEND

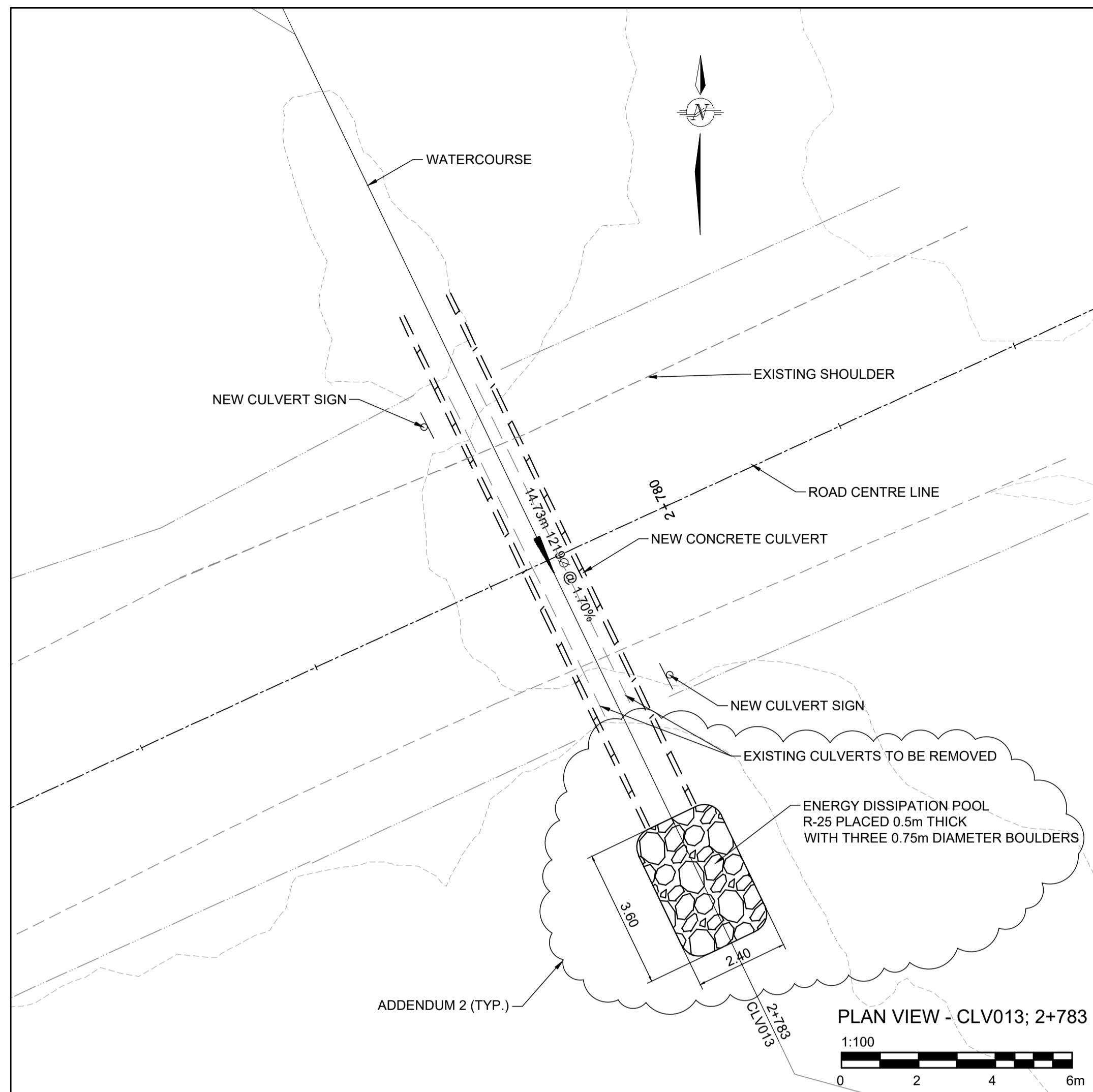
EXISTING	PROPOSED
	WATERBODY
	WATERCOURSE
	WETLAND
	MAJOR CONTOUR
	MINOR CONTOUR
	PROPERTY LINE
	TOP OF SLOPE
	BOTTOM OF SLOPE
	SHOULDER
	SILT CURTAIN
	SILT FENCE
	CLEARING LIMITS
	BOREHOLE (BH)
	TEST PIT (TP)
	PROBE HOLE (PH)
	SADDLE DYKE LIMITS SIGN
	SHOULDER MARKER SIGN



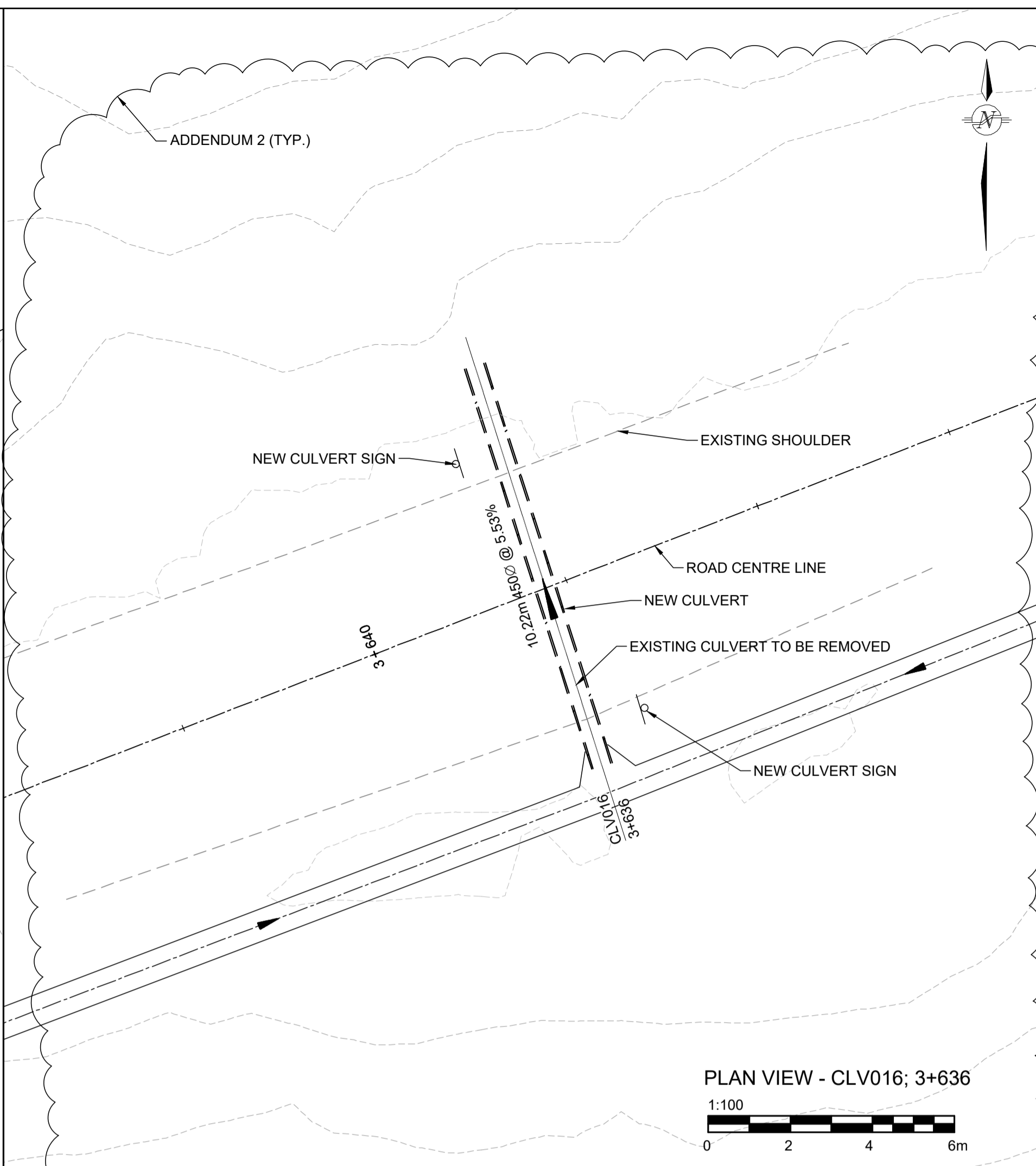
City of Saint John



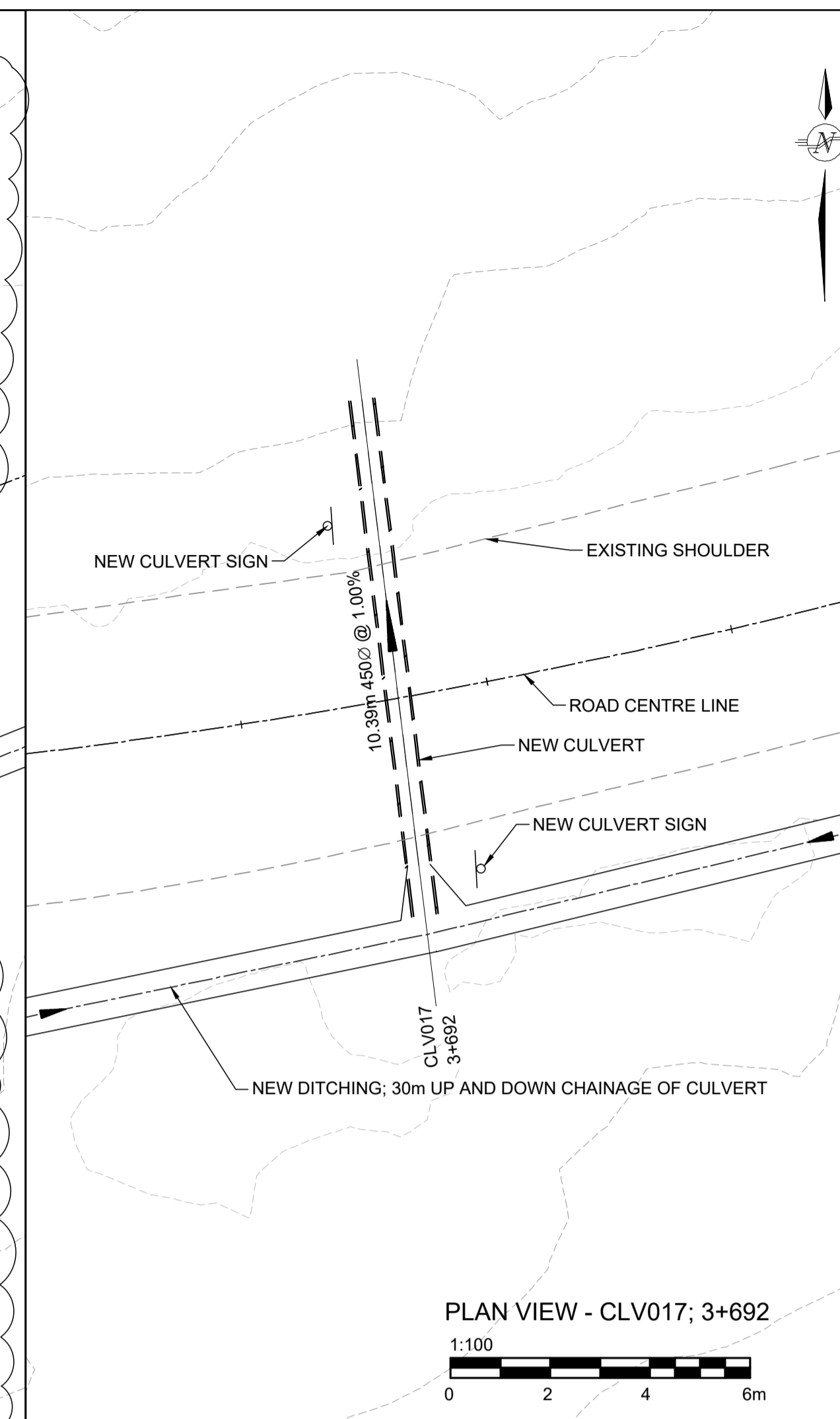
1	ISSUED FOR ADDENDUM 2	2023/05/23
0	ISSUED FOR TENDER	2023/05/02
NUMBER	ISSUE	YYYY/MM/DD
DRAWN BY	SJH	CHECKED BY
		BLM
PROJECT	CONTRACT 2023-03 MENZIES LAKE DAMS AND ACCESS ROAD DRAINAGE UPGRADES	
SHEET	SADDLE DYKE 2 PROPOSED REFURBISHMENT	
SCALE	ENGINEER'S STAMP	
AS NOTED		
SAINT JOHN FILE NO.	M074-004	
GEMTEC PROJECT NO.	100006.021	SHEET NO.
		C010
NOTE: SIGNATURES BY THE PROJECT ENGINEER AND CHIEF CITY ENGINEER ONLY INDICATE THAT THIS IS THE FINAL SET OF DRAWINGS SUBMITTED BY THE CONSULTANT FOR THIS TENDER		
PROJECT ENGINEER		
CHIEF CITY ENGINEER		



PLAN VIEW - CLV013; 2+783



PLAN VIEW - CLV016; 3+636



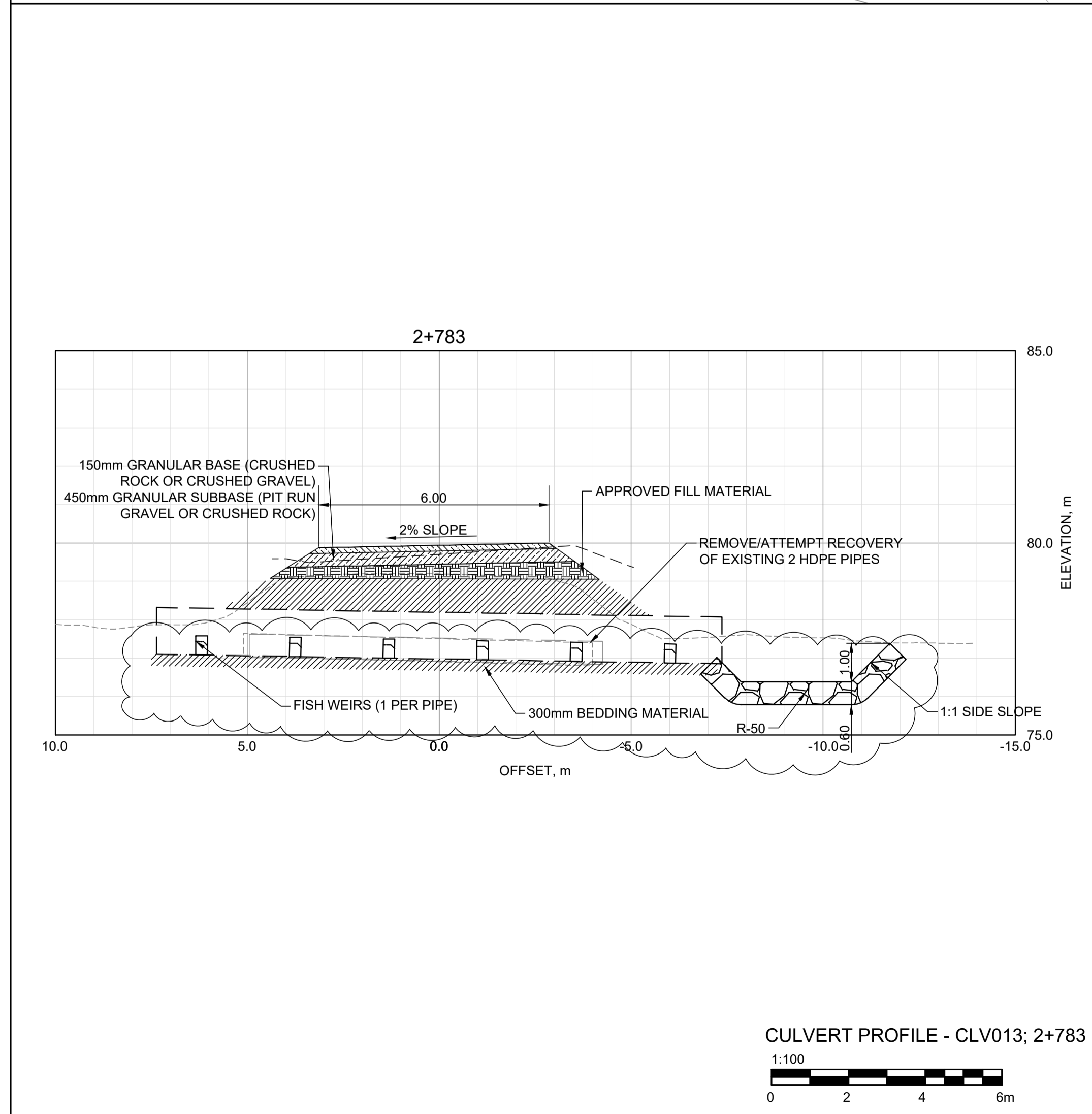
PLAN VIEW - CLV017; 3+692

NOTES

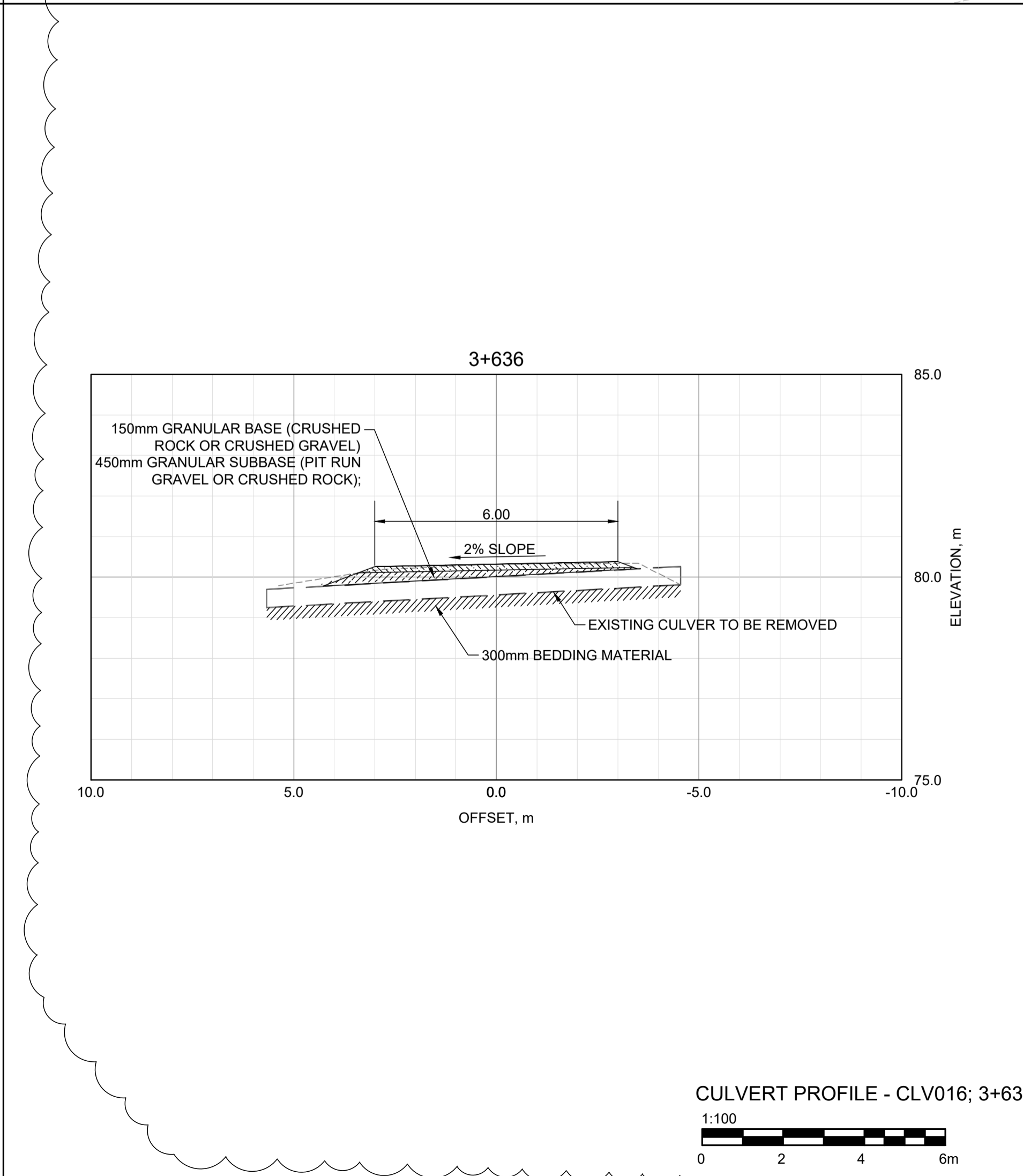
1. THE HORIZONTAL AND VERTICAL DATUM UTILIZED ARE NAD83 (CSRS) NEW BRUNSWICK DOUBLE STEREOGRAPHIC PROJECTION AND THE CANADIAN GEODETIC VERTICAL DATUM OF 1928 (CGVD28).
2. CONTRACTOR TO ENSURE THAT ALL MUNICIPAL INFRASTRUCTURE, PUBLIC UTILITIES, NATURAL GAS AND OTHER INFRASTRUCTURE ARE LOCATED IN THE FIELD PRIOR TO THE START OF EXCAVATION.
3. FOR EACH GAS CROSSING OCCURRING IN THE FIELD, GAS UTILITY SHOULD BE NOTIFIED 24 HOURS IN ADVANCE.
4. GAS, ELECTRICAL AND TELECOMMUNICATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR TO CONFIRM IN THE FIELD PRIOR TO EXCAVATION.
5. FOR DETAILS ABOUT SIGNAGE SEE DWG S004.
6. FOR CULVERT MATERIAL, INLET AND OUTLET COORDINATES, AND INVERT ELEVATIONS SEE DWG C025.
7. PLACE 0.5m THICK LAYER OF R-25 ON TOP OF EXPOSED CULVERT BETWEEN ROAD EMBANKMENT AND RIP-RAP HEADWALLS.

LEGEND

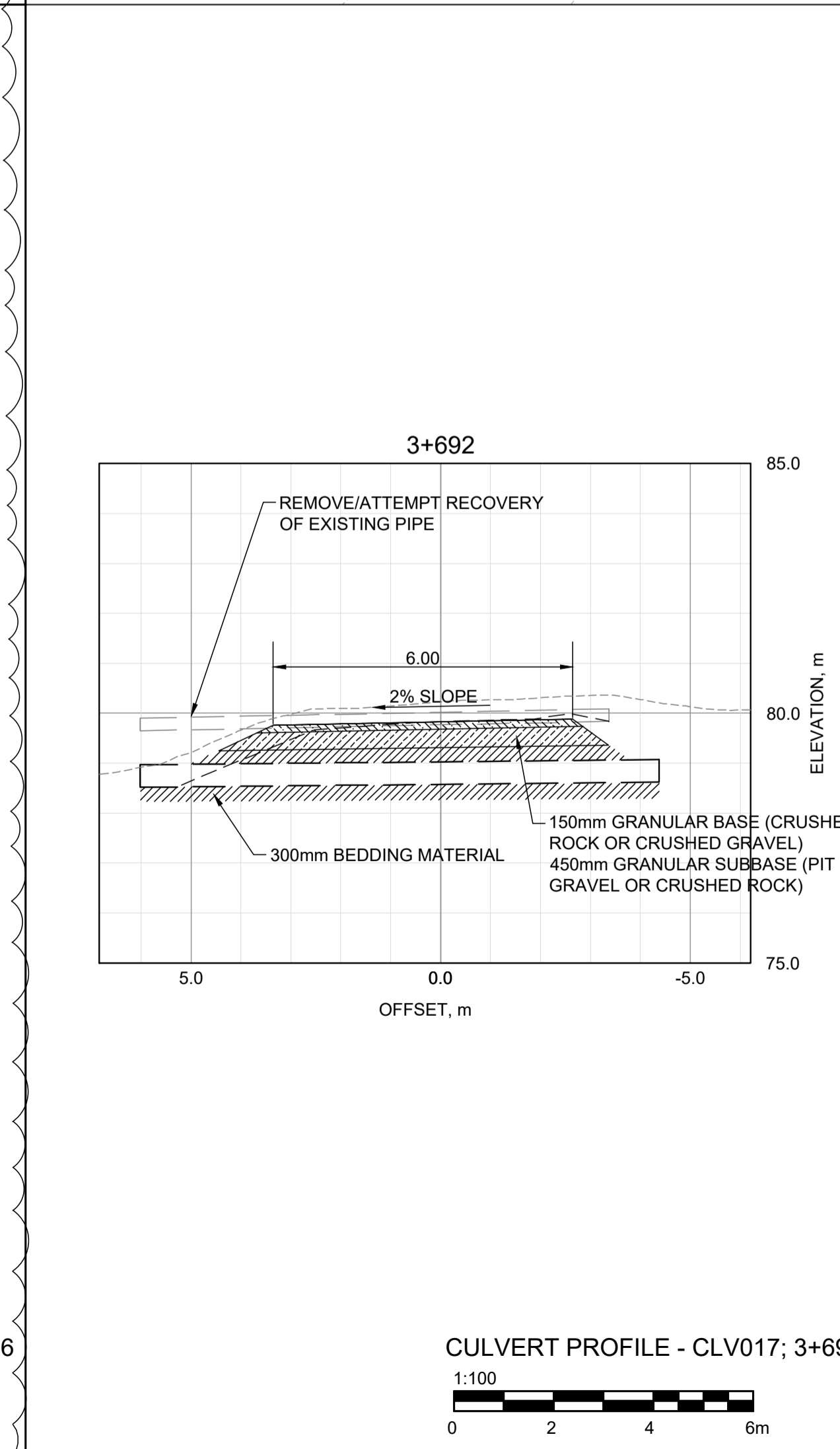
EXISTING	PROPOSED
Waterbody	Watercourse
Wetland	Major Contour
Minor Contour	Property Line
Top of Slope	Bottom of Slope
Shoulder	Silt Curtain
Silt Fence	Clearing Limits
Borehole (BH)	Test Pit (TP)
Probe Hole (PH)	Saddle Dyke Limits Sign
Shoulder Marker Sign	Ditch
Ditch	Culvert





CULVERT PROFILE - CLV013; 2+783



CULVERT PROFILE - CLV016; 3+636



CULVERT PROFILE - CLV017; 3+692


City of Saint John

GEMTEC
 CONSULTING ENGINEERS AND SCIENTISTS

1	ISSUED FOR ADDENDUM 2	2023/05/23
0	ISSUED FOR TENDER	2023/05/02
NUMBER	ISSUE	YYYY/MM/DD
DRAWN BY	SJH	CHECKED BY
		BLM
PROJECT CONTRACT 2023-03 MENZIES LAKE DAMS AND ACCESS ROAD DRAINAGE UPGRADES		
SHEET CULVERT REPLACEMENT CLV013, CLV016, & CLV017		
SCALE	AS NOTED	ENGINEER'S STAMP
SAINT JOHN FILE NO.	M074-004	M7657 Stephen J. Hallett 2023-05-24 Date
GEMTEC PROJECT NO.	100006.021	SHEET NO. C019
NOTE: SIGNATURES BY THE PROJECT ENGINEER AND CHIEF CITY ENGINEER ONLY INDICATE THAT THIS IS THE FINAL SET OF DRAWINGS SUBMITTED BY THE CONSULTANT FOR THIS TENDER		
PROJECT ENGINEER		
CHIEF CITY ENGINEER		

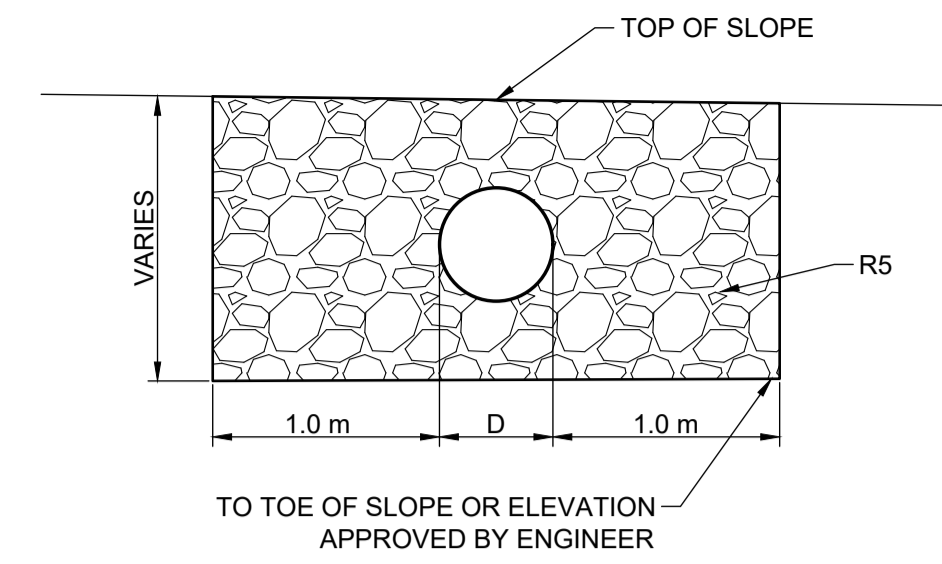
CULVERT IMPROVEMENT TABLE

NAME	EXISTING			PROPOSED		
	CHAINAGE	NOMINAL Ø (mm)	MATERIAL	NOMINAL Ø (mm)	MATERIAL	WORK TO BE DONE
CLV001	0+375	450	CONCRETE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV002	0+435	375	HDPE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV003	0+725	600	CONCRETE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV004	0+825	600	CONCRETE	1200	CONCRETE	CULVERT REPLACEMENT & END TREATMENTS
CLV005	0+950	375	HDPE	450	HDPE OR CONCRETE	CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV006	1+065	375	HDPE	450	HDPE OR CONCRETE	CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV007	1+225	600	CONCRETE	1200	CONCRETE	CULVERT REPLACEMENT & END TREATMENTS
CLV008	1+550	600	CONCRETE	1500	CONCRETE	CULVERT REPLACEMENT & END TREATMENTS
	1+555	600	HDPE			
CLV009	1+910	600	CONCRETE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV010	2+315	---	---	600	HDPE OR CONCRETE	NEW CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV011	2+610	600	CONCRETE	1200	CONCRETE	CULVERT REPLACEMENT & END TREATMENTS
CLV012	2+685	---	---	450	HDPE OR CONCRETE	NEW CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV013	2+783	2-600	HDPE	1200	CONCRETE	NEW CULVERT REPLACEMENT & END TREATMENTS
CLV014	3+410	400	CONCRETE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV015	3+475	300	CONCRETE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV016	3+636	400	CONCRETE	450	HDPE OR CONCRETE	CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV017	3+680	250	IRON	450	HDPE OR CONCRETE	CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV018	3+805	400	CONCRETE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV019	3+850	675	HDPE	1200	CONCRETE	CULVERT REPLACEMENT & END TREATMENTS
CLV020	3+960	---	---	600	HDPE OR CONCRETE	NEW CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV021	4+250	---	---	600	HDPE OR CONCRETE	NEW CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV022	4+660	400	CONCRETE	450	HDPE OR CONCRETE	NEW CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV023	5+225	375	HDPE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
CLV024	5+450	375	CONCRETE	600	HDPE OR CONCRETE	CULVERT REPLACEMENT, END TREATMENTS & DITCHING
CLV025	5+555	375	HDPE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS
6+225 to 6+325	---	---	---	N/A	N/A	DITCHING IMPROVEMENTS
CLV026	7+550	---	---	600	HDPE OR CONCRETE	NEW CULVERT REPLACEMENT, END TREATMENTS & DITCHING IMPROVEMENTS
CLV027	9+355	375	CONCRETE	N/A	N/A	CULVERT END TREATMENTS & DITCHING IMPROVEMENTS

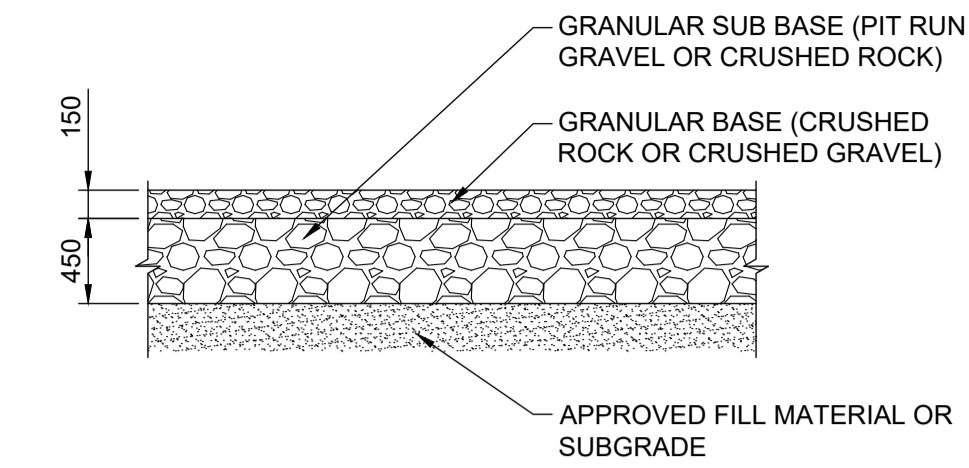
CULVERT COORDINATE TABLE

NAME	NOMINAL Ø (mm)	STATION	INLET			OUTLET		
			NORTHING	EASTING	ELEV	NORTHING	EASTING	ELEV
CLV004	1200	0+825	7360600.3	2524041.5	80.52	7360585.7	2524040.9	79.8
CLV005	450	0+950	7360540.1	2523915.5	84.0	7360527.1	2523919.4	83.3
CLV006	450	1+065	7360502.9	2523818.3	85.2	7360489.0	2523823.8	84.5
CLV007	1200	1+225	7360410.2	2523669.7	87.13	7360398.4	2523682.1	86.69
CLV008	1500	1+550	7360229.6	2523420.5	82.84	7360217.8	2523432.8	82.46
CLV010	600	2+315	7359797.8	2522835.6	89.9	7359781.4	2522830.3	89.7
CLV011	1200	2+610	7359792.5	2522533.7	74.50	7359780.3	2522533.7	74.26
CLV012	600	2+685	7359785.6	2522461.7	75.5	7359772.7	2522462.4	74.9
CLV013	1200	2+783	7359758.9	2522370.5	77.1	7359745.6	2522376.8	76.9
CLV016	450	3+636	7359430.2	2521821.5	79.8	7359439.9	2521818.4	79.2
CLV017	450	3+680	7359412.1	2521767.5	78.6	7359422.4	2521766.2	78.5
CLV019	1200	3+805	7359388.8	2521600.5	78.05	7359400.9	2521602.2	77.55
CLV020	600	3+960	7359380.1	2521493.2	79.7	7359390.0	2521491.4	79.6
CLV021	600	4+250	7359201.7	2521297.7	84.8	7359214.8	2521298.0	84.6
CLV022	450	4+660	7359217.2	2520955.8	75.7	7359220.0	2520946.0	75.6
CLV024	600	5+450	7359463.2	2520653.8	76.9	7359457.6	2520663.0	76.6
CLV026	600	7+550	7360220.5	2519005.7	57.4	7360219.9	2519011.9	56.9

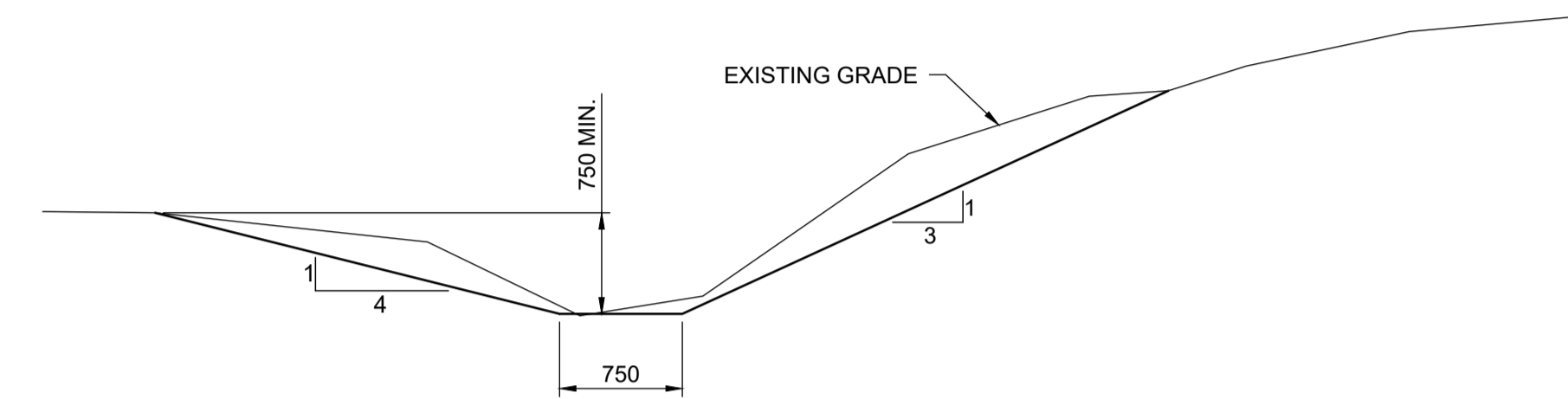
ADDENDUM 2 (TYP.)



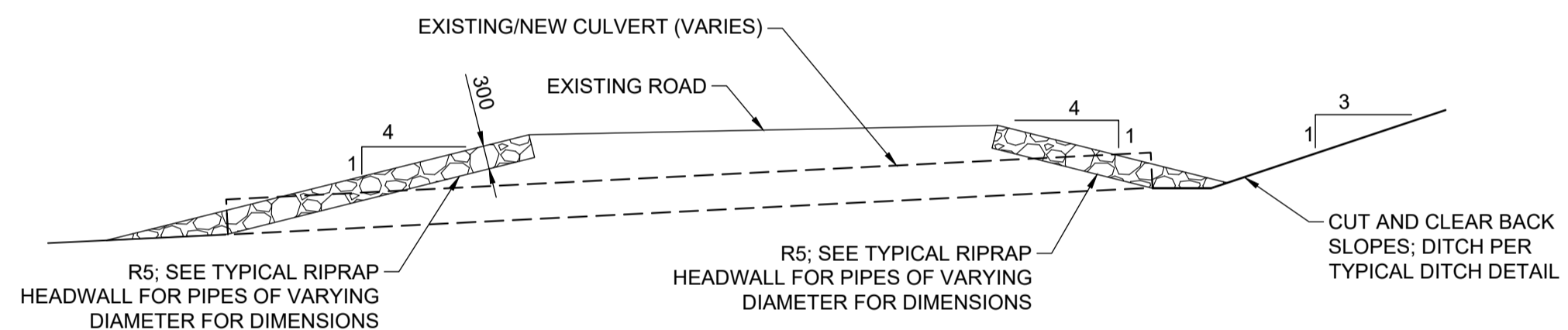
TYPICAL RIPRAP HEADWALL FOR PIPES OF VARYING DIAMETER
SCALE: NTS



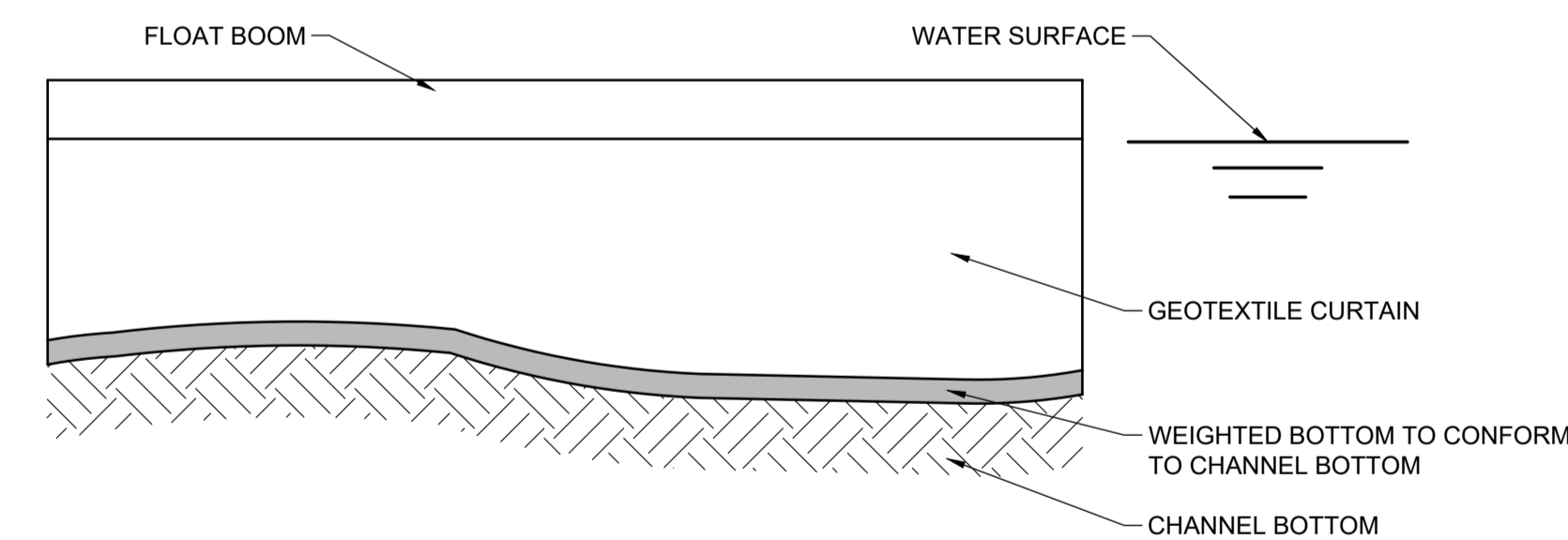
STANDARD ROAD STRUCTURE
SCALE: NTS



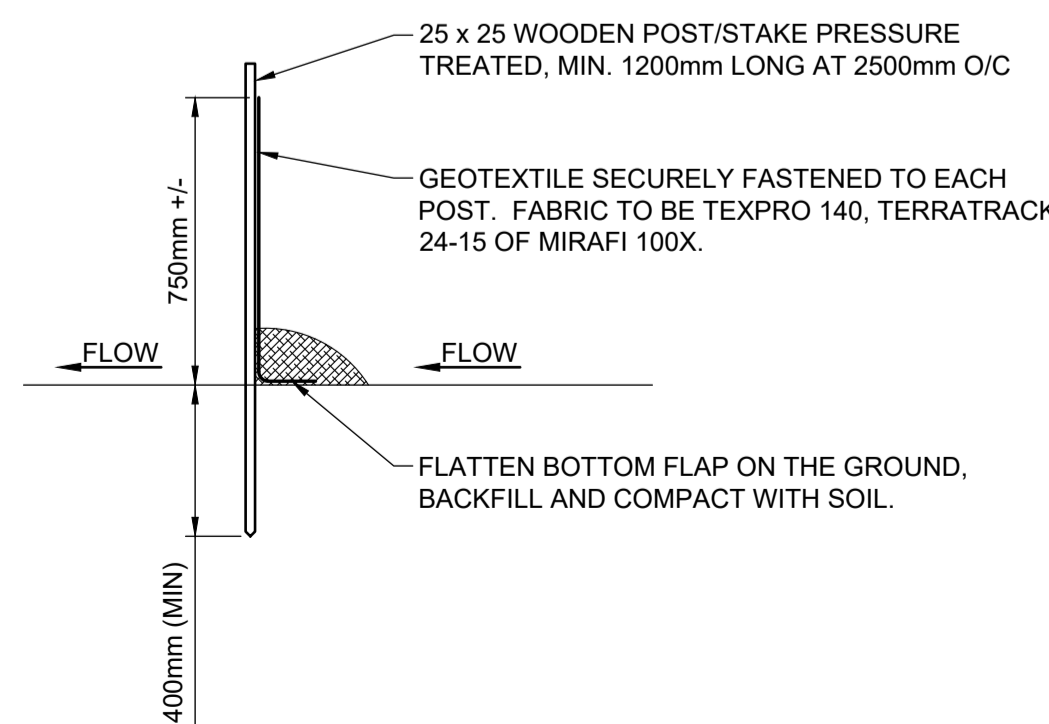
TYPICAL DITCH DETAIL
SCALE: NTS



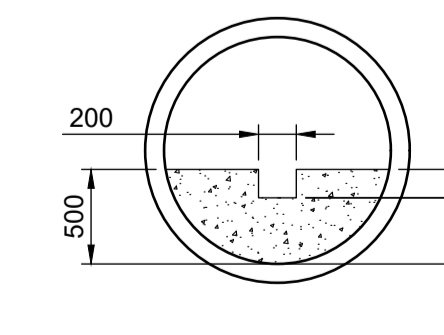
TYPICAL CULVERT IMPROVEMENTS DETAIL
SCALE: NTS



SILT CURTAIN
SCALE: NTS
NOTE: SILT CURTAIN TO EXTEND TO AND ANCHOR TO THE BED OF THE WATERCOURSE, WITH A SUBSTANTIAL FLEXIBLE MEDIUM THAT READILY CONFORMS TO THE PROFILE OF THE SUBSTRATE.



SEDIMENTATION FENCE
SCALE: NTS
NOTE: FENCE TO BE INSTALLED PRIOR TO COMMENCING WORK IN AREA.



TYPICAL FISH WEIR
SCALE: NTS

NOTES

1. THE HORIZONTAL AND VERTICAL DATUM UTILIZED ARE NAD83 (CSRS) NEW BRUNSWICK DOUBLE STEREOGRAPHIC PROJECTION AND THE CANADIAN GEODETIC VERTICAL DATUM OF 1928 (CGVD28).
2. WATERCOURSE AND WETLAND MAPPING FROM SNB DATA CATALOG, SUPPLEMENTED WITH FIELD DELINEATED RESULTS.
3. PROPERTY LINES AND LIDAR FROM SNB DATA CATALOG.
4. DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.



City of Saint John



1	ISSUED FOR ADDENDUM 2	2023/05/23
0	ISSUED FOR TENDER	2023/05/02
NUMBER	ISSUE	YYYY/MM/DD
DRAWN BY	SJH	CHECKED BY
		MLS
PROJECT CONTRACT 2023-03		
MENZIES LAKE DAMS AND ACCESS ROAD DRAINAGE UPGRADES		

SHEET CULVERT TABLES AND DETAILS		
SCALE	AS NOTED	ENGINEER'S STAMP M7657 Stephen J. Hallett 2023-05-24
SAINT JOHN FILE NO.	M074-004	
GEMTEC PROJECT NO.	100006.021	SHEET NO. C025
NOTE: SIGNATURES BY THE PROJECT ENGINEER AND CHIEF CITY ENGINEER ONLY INDICATE THAT THIS IS THE FINAL SET OF DRAWINGS SUBMITTED BY THE CONSULTANT FOR THIS TENDER		
PROJECT ENGINEER		
CHIEF CITY ENGINEER		








Addendum #2-2023-03 Menzies - STAMPED

Final Audit Report

2023-05-24

Created:	2023-05-24
By:	Dean Price (dean.price@saintjohn.ca)
Status:	Signed
Transaction ID:	CBJCHBCAABAAeIE4isci_whpj5N58vobD46_oWZ0vLVc

"Addendum #2-2023-03 Menzies - STAMPED" History

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