

ANNUAL JOINT REPORT
**INTERNATIONAL
BOUNDARY
COMMISSION**
CANADA AND UNITED STATES

2023



Cover photo:

GPS observations of Reference Monument RM159A-77, located on Crock Island, in the Saint John River Section of the International Boundary. Seen in the distance is the bell tower of the Saint-François-Xavier church, in Saint-François de Madawaska, New Brunswick. The tower was used as a line of sight in the old conventional surveying methods which are now replaced by GPS observations.

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EXECUTIVE SUMMARY

The Commission

The International Boundary Commission (IBC) is a joint organization composed of two Commissioners duly appointed by the United States and Canada to maintain an effective boundary line between the two countries, as per the provisions of the Treaty of 1925. The IBC ensures the maintenance and integrity of a well-defined boundary, contributing to the mutual safety and prosperity of the citizens of both countries.

Structure

The Commission is organized in two sections, each under the leadership of its respective Commissioner. Each side has its own staff, equipment, and budget. The maintenance work is shared equitably between the two sections, based on a periodically revised long-term plan.

What we do

To fulfill its mandate, the IBC carries out routine inspections, repairs or replaces damaged boundary monuments, positions new monuments for improved boundary demarcation, maintains open vistas through woods and forests, and keeps boundary coordinates up to date by carrying out additional surveys when required.

Accomplishments

In 2023, efforts were focused on the following activities: Vista clearing (Highlands S.W., Meridian and 49th Parallel, 49th Parallel (Columbia valley to Similkameen River)); Monument Inspection and maintenance (Passamaquoddy Bay, Southwest and South lines, Highlands N.E., Highlands S.W, West Line, Lake Erie, Detroit and St. Clair Rivers, Lake Huron, Saint Mary's River and Lake Superior, Meridian and 49th Parallel); Surveying to update coordinates of the boundary (Saint John River, Highlands N.E., Highlands S.W). These projects were managed by either the United States or Canadian Section.

Measuring Success

The Commission is pleased to report that the work of maintaining the boundary is in line with its 15-year maintenance plan and the condition of the boundary meets the requirements from both countries.

The Commissioners

Commissioner Kyle K. Hipsley, has long served the Commission and as Commissioner for the United States section since 2014. Commissioner Jean L. Gagnon was appointed Surveyor General in 2017 and also serves as Canada's Commissioner.



Kyle K. Hipsley, Commissioner for the United States



Jean Gagnon, Commissioner for Canada

INTRODUCTION

The boundary between Canada and the United States was defined and refined through a series of twenty-six treaties, conventions, protocols, decisions, and awards beginning with the 1783 *Treaty of Peace* and culminating in the 1925 *International Boundary Treaty*. In 1794, the first Commissioners were appointed to resolve ambiguities regarding the exact location of the boundary. The tradition of appointing Commissioners to resolve specific issues was carried on until, in the Treaty of 1925, the positions were made permanent, and the Commissioners tasked with the ongoing maintenance of the boundary.

The Mandate of the Commissioners

The International Boundary Treaty of 1925 set out the responsibilities of the Commissioners as:

1. Inspect the various sections of the boundary line between the Dominion of Canada and the United States and between the Dominion of Canada and Alaska at such times as they shall deem necessary.
2. Repair all damaged monuments and buoys.
3. Relocate and rebuild monuments which have been destroyed.
4. Keep the boundary vistas open.
5. Move boundary monuments to new sites and establish such additional monuments and buoys as they shall deem desirable.
6. Maintain at all times an effective boundary line between the Dominion of Canada and the United States.
7. Determine the location of any point of the boundary line which may become necessary in the settlement of any question that may arise between the two Governments.

The Commissioners were further instructed to submit to their respective Governments from time to time, at least once in every calendar year, a joint report containing a statement of the inspections made; the monuments and buoys repaired, relocated, rebuilt, moved, and all newly established monuments; and the mileage and location of vistas opened. The report is to contain plats and tables, giving the locations and geodetic positions of all monuments established within the year, and other information as may be necessary to keep the boundary maps and records accurately revised.

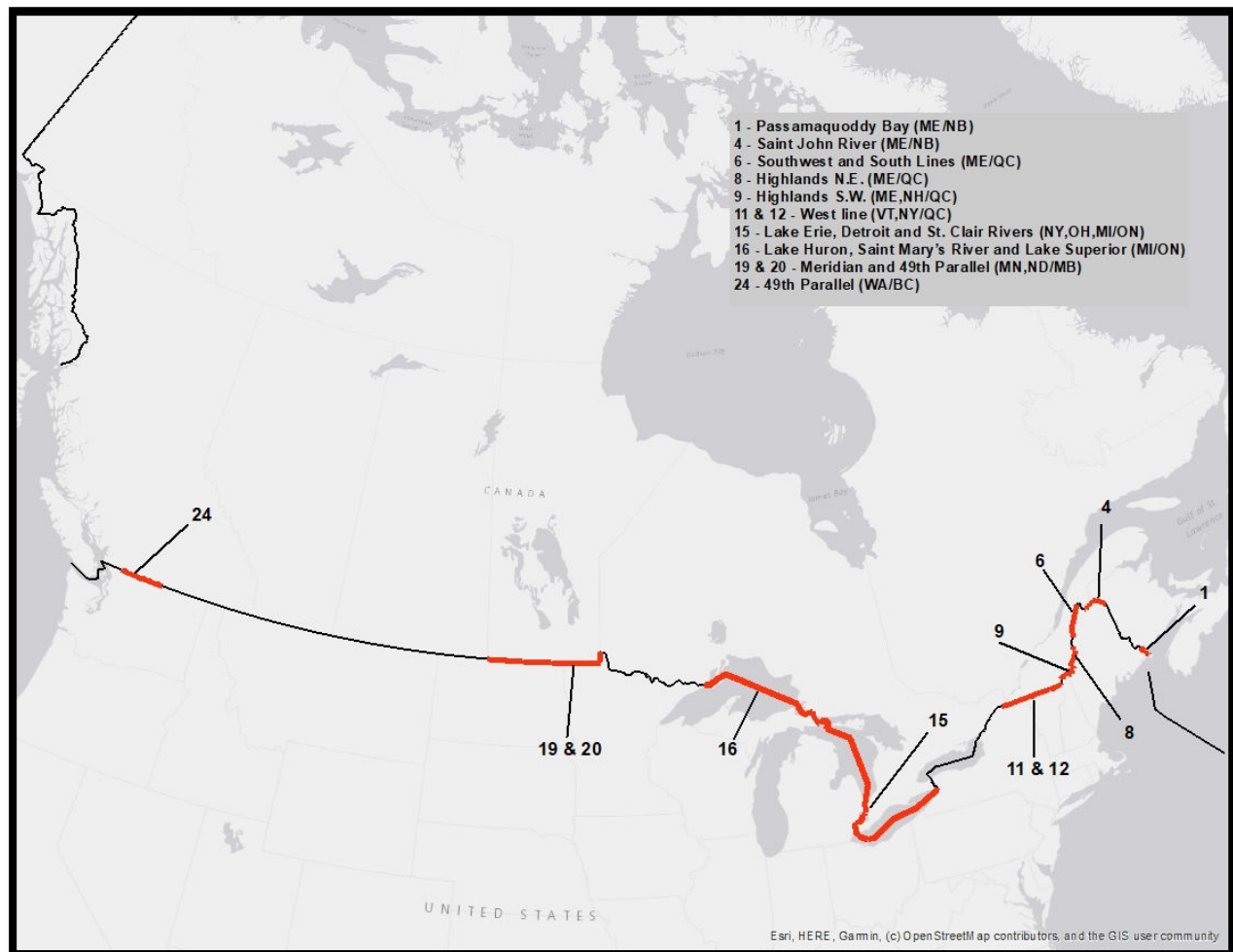
This is the 99th Joint Annual Report from the Commissioners to their respective Governments on the state of the boundary between the United States and Canada.

MAINTENANCE ACTIVITIES

The 2023 field season began during the last week of April and ended in the first week of November. The Commission conducted projects in support of its 15-Year Maintenance Plan as well as projects that advanced the objective of upgrading the geodetic coordinates defining the boundary to a modern reference frame. The 15-year maintenance plan covers the entire boundary length of over 5525 miles or 8891 km so that the entire border is covered within this time frame.

To ensure efficient and orderly management of boundary maintenance activities, the boundary is divided into 8 sections and 30 subsections corresponding to areas with homogeneous characteristics. Projects are presented by subsections and activity from east to west, then north. A description of subsections can be found on the IBC website¹.

Map Showing the Location of the 2023 Projects



¹ <https://internationalboundarycommission.org/en/maps-coordinates/maps.php>

This year, the Commission's efforts focused mainly on the following maintenance activities:

- Vista clearing (Highlands S.W., Meridian and 49th Parallel, 49th Parallel (Columbia valley to Similkameen River))
- Monument Inspection and maintenance (Passamaquoddy Bay, Southwest and South lines, Highlands N.E., Highlands S.W, West Line, Lake Erie, Detroit and St. Clair Rivers, Lake Huron, Saint Mary's River and Lake Superior, Meridian and 49th Parallel)
- Surveying to update coordinates of the boundary (Saint John River, Highlands N.E., Highlands S.W)

These projects were managed by either the American Section or the Canadian Section.

Section 1: Passamaquoddy Bay (NB/ME)

Boundary Range Marks Inspection and Maintenance



Range Mark 17 and 18 on Cherry Island in Passamaquoddy Bay are used to locate the Turning Points.

The 40 km (25 mi) of International Boundary, passing between the islands of Passamaquoddy Bay, is formed by 14 straight-line segments that connect the turning points. Each turning point is identified by ranging the onshore range marks set in pairs and must be cleared of trees and brush to be visible. Several of the range marks are located on islands, making boat transportation necessary to complete work on the section. This year, a contract for maintenance, inspection, and assessment of major repair work required for the section's Range Marks was issued. The completed work as determined the adequate work sequence for the coming years on this section of the boundary.

Section 4: Saint John River (NB/ME)

Boundary Reference Monument Field Surveys

The Boundary follows the St. John River from the North Line for 115 km (72 mi) to the mouth of the St. Francis River. This region is highly developed both agriculturally and commercially, with towns and major roadways along each side of the river. The line consists of 230 straight-line segments which are now positioned by 273 reference monuments. Active development and fluctuating water levels frequently disturb the reference monuments which require frequent inspection and maintenance to preserve their position.



GNSS observation of Reference Monument RM S114.

This year, the survey of all the US reference monuments, as well as the ones located on islands, was completed. Preliminary survey results are as follows: 41 out of 116 original reference monuments stated in the book for the *Reestablishment of the Boundary Between the United States and Canada – Source of the St. Croix River to St. Lawrence River*, commonly named the Green Books and published in 1924, were found and surveyed. 75 reference monuments were not found and deemed destroyed or lost. Since the Green Book was published, 191 additional Reference Monuments have been placed on the U.S. side of the Saint John River. Of these additional monuments, 85 were found and surveyed. The other 106 were not found and are now deemed destroyed. 35 out of 91 possible island reference monuments were surveyed. The other 56 reference monuments were not found and deemed destroyed. This project completed the resurvey efforts on this section of the boundary. The Commission will be able to complete a special report in the coming year to update the official coordinates.

Section 6: Southwest and South lines (QC/ME)

Boundary Monument Inspection and Maintenance

The line reverts to a land boundary at the source of the St. Francis River in Pohénégamook, Québec and Estcourt, Maine, and follows a straight-line course in a southwesterly direction for 103 km (64 mi) to Lac Frontière, Québec. The region is heavily forested with very little development along the boundary. Access to maintenance work is difficult in this area and is mainly by ATV along the boundary and over rough logging roads. At Lac Frontière, the line swings in a southerly direction for 32 km (20 mi) until it intersects the Southwest Branch of the Saint John River. The Southwest and South lines is now marked by 245 established monuments and a 6 m (20 ft) vista through heavy forests. Maintenance operations recovered 245 monuments and a building plaque of which 42 were repaired or renewed.



Monument identification placed during the setting of the concrete of Monument 226.

Sections 8 and 9: Highlands N.E. (QC/ME) and S.W. (QC/ME, NH)

Boundary Monuments Inspection, Maintenance, and Field Surveys



Installation on a Monument for field survey.

In the Highlands, the winding boundary follows the height of land along the crests of the mountains and ridges that divide the St. Lawrence and Atlantic coastal watersheds. The mountains in the Highlands range upwards to 1200 m (3,900 ft) in elevation and are heavily forested. ATV's and walking on rugged terrain are required to gain access to much of this difficult boundary area. One of the most difficult and demanding sections of the boundary to maintain is the 282 km (175 mi) stretch of land boundary from Little Saint John Lake to the head of Halls Stream. Demarcation on this northeastern section is defined by 1,660 monuments. During the 2023 field season, 435 Monuments were surveyed between Monuments 314 and 335.19 and another 26 between Monuments 356.5 and 359.5. Additionally, 9 monuments were renewed, and 2 Line Monuments were added near Little Saint John Lake - Monuments 314.4A and 314.5A, to mitigate the risk of losing monumentation due to erosion.

Monuments Inspection, Maintenance, and Field Surveys



Difficult conditions even for ATVs on this section of the

The southwest section is the more difficult portion of the Highlands boundary sections to maintain because parts of this area are inaccessible by any type of land vehicle. Demarcation on this 153 km (95 mi) section is defined by 1,742 monuments. During the 2022 field season, 25 monuments were identified in a heavily damaged area since this portion of the boundary is used in a snowmobile club trail network. The crew installed Carsonite markers at each of the Monuments along the snowmobile trail to further prevent damages and signal to users the presence of a ground-level monument. In 2023, the Canadian section performed field surveys as well as vista clearing between Monuments 495 and 507 to prepare maintenance operations for 25 damaged or destroyed boundary Monuments.

Vista Clearing Contracts

Two distinct vista clearing contracts were issued and a third from a previous year was completed. The two issued contracts were managed by both sections of IBC with two distinct companies, one American one Canadian. The 6m (20 ft) vista was cleared from Monuments 405 to 452 and from Monuments 484 to 507. And the third clearing contract, issued in 2022, was completed between Monuments 452 and 484.

Sections 11 and 12: West Line (QC/VT, NY)

Vista Clearing, Monuments Inspection and Maintenance

The 45th Parallel, or West Line boundary, from Halls Stream to the St. Lawrence River, divides fertile farmlands along southern Quebec and northern Vermont and New York. Many parts of this region were settled before any attempt had been made to define the boundary. The original marked line dates back before the War of independence and was no more than a compass-line run to establish the boundary between two British colonies. In retracing the original line, many deflections were encountered, and the line was found to deviate a considerable distance from the 45th Parallel. As a result, the boundary runs through scattered farmland and forests, a cemetery, as well as villages and many buildings. Although some of these buildings on the boundary are abandoned, the owners still seek permission to maintain their existing structures. Also, many roads cross and run along the border, allowing easy access for maintenance operations, but on the other hand, surveillance and heavy traffic make it a sensitive and important part of the international boundary.



Monument 553AA as well as the two newly installed protection bollards.

This year, Monument 553AA, just west of the Haskell Free Library, in Stanstead, Québec and Derby Line, Vermont, was renewed and two bollards were added for protection. Two bridge plaques were installed following the construction of a new bridge over the Missisquoi River. Two sites were surveyed, the first for a work authorization request between monuments 546 and 548 and the second was Roxham Rd. after RCMP removed their installations at Monument 660. The crews also cleared two small sections of the boundary between the towns of Beebe, Québec and North Derby, Vermont, between Monuments 558A and 558B and between Monuments 563A and 564, amounting to 0.5 km (0.3 mi) in total.

Section 15: Lake Erie, Detroit and St. Clair Rivers (ON/ NY, OH, MI,PA)

Monument Inspection and Maintenance

Lake Erie is becoming increasingly active for commercial and recreational fishing. To accommodate the fishermen, buoys were placed to mark the boundary through the western end of the lake. Considering the increasing cost of placing these buoys and the improvement in navigational equipment the Commission discontinued the placement of the buoys in 1994. The 405 km (252 mi) boundary through Lake Erie is defined by eight turning points which are referenced by lighthouses. Much industrial and residential development has disrupted many of the original monuments referencing the boundary over this section. The 140 km (87 mi) boundary between Lake Erie and Lake Huron is defined by 54 turning points that are referenced by 58 monuments. In 2023, the inspection of 18 remaining Monuments from a previous project was performed. A total of 10 reference monuments and 6 Monuments were retrieved. Monuments 3A and 15A were not recovered and are now lost. During the field operations, 4 Monuments were repaired along the Detroit River.



Monument 1 restored.

Section 16: Lake Huron, Saint Mary's River and Lake Superior (ON/MI)

Monument Inspection and Maintenance



Observations on freshly renewed
Reference Monument 13.

The boundary through the open waters of Lake Huron and Lake Superior presents few problems with respect to location or maintenance. However, through the connecting St. Mary's River, industrial and residential development frequently disturbs the monuments referencing the boundary. The 365 km (227 mi) boundary through Lake Huron is defined by 3 turning points which are referenced by lighthouses. The 172 km (107 mi) boundary through the St. Mary's River is defined by 43 turning points which are located or positioned by 42 reference monuments. Through the 463 km (288 mi) across Lake Superior the boundary is defined by 8 turning points which are referenced by lighthouses. This year, the reference monuments 1 to 43 as well as two bridge plaques were inspected. Of all the monuments visited, only 4 reference monuments will require maintenance in the coming years, and one was urgently stabilized to prevent further damages or even destruction by erosion. All the other monuments inspected were found in good condition.

Sections 19 and 20: Meridian and 49th Parallel (MB/MN, ND)

Vista clearing, Monument Inspection, Maintenance, and Field Surveys



Surveying the position of a new Boundary Monument 795A.

The 49th Parallel boundary, east of the Rocky Mountains, was originally surveyed during the years 1872 to 1875. The determination of the parallel of latitude was made by astronomic observations carried out at about 32 km (20 mi) intervals. The final survey and mapping of the boundary, along the eastern end of the 49th Parallel, was completed in 1912 and 1913. The Manitoba-Minnesota section of the line consists of 153 km (95 mi) along the 49th Parallel and 42 km (26 mi) north along the Meridian Line to the Northwesternmost Point of Lake of the Woods. The terrain is generally flat and swampy with a heavy growth of trees along much of the boundary. This section of the boundary is 195 km (121 mi) in length and is marked by 95 monuments. Then, the North Dakota and the balance of the Manitoba international boundary passes mainly through open prairie, broken only by two minor mountain ranges. The Pembina Hills are forest-covered for 19 km (12 mi) while the Turtle Mountains are tree-covered for 56 km (35

mi). The International Peace Gardens are located within the Turtle Mountain area. The North Dakota / Manitoba boundary is 300 km (186 mi) in length and is marked by 165 monuments. This year, the ongoing replacement of the line marks in this section resulted in the recovery of 24 boundary Monuments; a total of 10 line-marks were replaced with stainless steel obelisks and 19 were surveyed. Additionally, 10.1 km (6.25 mi) of vista was cleared between Boundary Monuments 789 and 795.

Sections 24 and 25: 49th Parallel (Columbia Valley to Similkameen River) and 49th Parallel (Pacific to Columbia Valley) (BC/WA)

Vista clearing contract



Inspection of the clearing work by helicopter the day of the mountains first snow of the year.

The boundary between the British Columbia and Washington State, traversing the mountain ranges inland from the Pacific, presents one of the more difficult sections of the line to maintain. Mountains are abrupt and valleys between peaks are densely forested. Only one road intersects the boundary which makes access to the line very difficult. This 170 km (106 mi) of remote and difficult boundary is marked by 67 monuments. This year, 38 km (23.8 mi) of vista was cleared by a contractor, between Monuments 39 and 42, Monuments 44 and 44A, Monument 61 to 68 and Monument 59 and the Western shore of Ross Lake near Monument 71. The clearing work was inspected without any deficiencies. The contract concluded the clearing cycle for this area of the boundary undertaken in 2018 that was impeded by high costs, low number of bidders and wildfires.

COMMISSIONERS' ACTIVITIES

Field Inspections

Commissioners' field inspections give them the opportunity to see Commission-led projects in person. It is customary for the commissioners to visit a crew from each country during the summer field season.

This season, U.S. Commissioner Kyle Hipsley and Canadian Commissioner Jean Gagnon visited the Saint John River section while Canadian and U.S. field crews were surveying the reference monuments.



Canadian Commissioner Jean Gagnon accessing islands by canoe on the Saint John River Section.

Commissioners' Meetings

The Canadian and United States Commissioners' meet twice a year to review project status, approve future projects, and approve comparable expenditures. Any new issues are also brought to their attention and documented. The spring meeting was held in April in Washington, DC and the second meeting was held online in November, where each section presented projects completed during the season.

Additional discussions are underway regarding the following tasks:

- 15-year plan and budgets.
- Various issues pertaining to the public and public utilities company using the boundary vista.
- Policy on existing fences when owners wish to repair or replace them.
- Surveying and mapping of the boundary: a concerted effort to update boundary coordinates into a modern datum.
- Updating the commission's website and the availability of digital files.

REGULATORY ITEMS

The Commission monitors the construction of all works within 3.05 m (10 ft) of the boundary. Thus, all construction, whether it be a ditch, building, above or underground structure (such as telephone, cable, electrical line, or gas pipeline), lines for communication or other, must first be authorized by the Commission.

In 2023, the commissioners dealt with the following regulatory item requests and issues:

Section 11 – TC Energy - Temporary Pipeline

Authorization issued to excavate, install an above-ground temporary pipeline and repair the existing underground pipeline inside the 3.05 meters regulated zone of the International Boundary 28 meters East of Monument 627A in the West line Section 11 of the International Boundary between Quebec and Vermont.

Section 19 – Wikstrom Telephone Company - Fiber Optic Cable

Authorization issued to install a fiber optic cable across the regulated zone of the International Boundary Commission located 46 meters to the west of Monument 834 between Noyes, MN and Emerson, MB.

Section 20 – Manitoba Transportation and Infrastructure – Replace Existing Culvert

Authorization issued to replace the existing culvert inside the 3.05-meter regulated zone of the International Boundary at the Gretna-Neché Port of entry and under the Provincial Trunk Highway 30.

Section 25 – Intermountain Infrastructure Group - Fiber Optic Cable

Authorization issued to install a fiber optic cable across the regulated zone of the International Boundary located 35 meters to the West of Monument 30A between Sumas, WA and Abbotsford, BC.

Section 25 – BC Hydro - Poles Removal

Authorization issued to remove 14 poles and infrastructure inside the 3.05 meters regulated zone of the International Boundary. The site of this specific request starts at a distance of 510 meters East of Boundary Monument 5D1 and ends 70 meters West of Boundary Monument 5E-2009 on the 49th Parallel Section 25 (Pacific to Columbia Valley).

Section 25 – BC Hydro – Poles Relocation

Authorization issued to remove 6 poles and install 2 anchors and guy wires inside the 3.05 meters regulated zone of the International Boundary. The site of this specific request is located at a distance of 26 meters West of Boundary Monument 22 and ends 463 meters West of Boundary Monument 22 in the 49th Parallel Section 25 (Pacific to Columbia Valley).

Throughout the year, many requests are sent to IBC offices. Some of these requests are reviewed and documented but do not require a letter of authorization from the Commissioners. In 2023, the IBC processed 24 other requests that did not require authorization.

REPORT ON COMPARABLE EXPENDITURES

This report shows the total amount spent by both sections of the Commission as of March 31, 2023, for maintenance of the boundary line under Section IV of the Treaty of Washington 1925.

The cumulative total represents the total spending on boundary maintenance projects each section, since 1925, on expenditures deemed comparable. Comparable expenditures are the subject of an agreement by both Commissioners as to the interpretation of Section IV of the Treaty of 1925 and are revised regularly. The current agreement has been in effect since April 1, 1999. Under the agreement, and according to the Treaty, the expenditures do not include salaries or expenditures by the Commissioner and the Commissioner's assistants, including administrative staff, i.e., the permanent staff of each section. Therefore, this expenditure report is not a financial report, as it does not include all the expenditures incurred by each section.

The purpose of compiling cumulative expenditures since the Commission's origins is to demonstrate that the maintenance efforts of both governments are equally shared.

Because each country's fiscal year spans two calendar years, the divisible expenditure report does not always reflect all costs associated with projects in the current year and presents some costs associated with projects from previous years.

Expenditures are shown in each country's respective currency.

Excerpt of Comparable Expenditures to March 31, 2023



International
Boundary
Commission



Commission
de la frontière
internationale



CERTIFIED STATEMENT OF COMPARATIVE EXPENDITURES

MADE BY
THE UNITED STATES AND CANADA
JOINTLY INCURRED BY THE COMMISSIONERS IN
MAINTAINING THE DEMARCATION OF THE BOUNDARY LINE
IN ACCORDANCE WITH THE PROVISIONS OF
THE TREATY OF 1925, AS OF MARCH 31, 2023

	United States (USD)	Canada (CAD)
Total to March 31, 2022	29,538,085.20 \$	29,800,020.33 \$
<u>Projects from April 1, 2022 to March 31, 2023</u>		
Section 4 – Saint John River (TP 1 to TP 230) (NB/ME): Reconnaissance and field survey of the Canadian Reference Monuments.		141,582.21 \$
Section 8 - Highlands N.E. (MON 314 to MON 404-27) (QC/ME): : Vista clearing contract (mon. 315 - 405) totaling 125 km / 78 mi		294,612.58 \$
Section 9 - Highlands S.W. (MON 405 to MON 507) (QC/ME): Monument maintenance, field surveys and damage assessment from offroad vehicles.		168,396.62 \$
Section 10 - Halls Stream (TP 1 to TP 767) (QC/NH): Inspection and maintenance of the Reference Monuments, Monuments and Monumented Turning Points along this entire section.		24,699.69 \$
Section 11 - West line (Mon 518 to Mon 644A) (QC/VT) and Section 12 – West line (Mon 645 to Terminus) (QC/NY): Monument maintenance, inspection, field survey and in-house vista clearing.		158,781.05 \$
Section 15 - Lake Erie, Detroit and St. Clair Rivers (TP 154 to TP 214) (ON/MI): Inspection and maintenance of Reference Monuments.		6,329.81 \$
Section 20 - 49th Parallel (MON 671 to MON 832B) (ND, MN/MB): Field inspection and survey Wilwand Property		9,106.37 \$

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588 Booth Street
Suite 210
Ottawa (Ontario)
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Tel/Tél: (613) 992-1294
Fax/Télécopieur: (613) 947-1337

Section 24 – 49th Parallel (Columbia Valley to Similkameen River) (MON 43 to MON 109) (BC/WA): Vista clearing contract (Mon 44A - 59) totaling 39 km / 24 mi. 404,277.36 \$

Section 25 – 49th Parallel (Pacific to Columbia Valley) : Inspection, maintenance and vista clearing operations. 58,493.27 \$

Section 25 – 49th Parallel (Pacific to Columbia Valley) (MON 0 to MON 42) (BC/WA): Vista clearing contract excluding side cutting. 38,500.00 \$

Section 3 - North Line (MON 1 to MON 117-73) (ME/NB): ERFO 02-22 Monument Maintenance 36,701.78 \$

Section 5 – St Francis River (TP 231 to TP 716) (ME/QC): ERFO 01-22 Vista clearing and Monument Maintenance (TP 357 - TP 716) 116,934.42 \$

Section 9 - Highlands S.W. (MON 405 to MON 507) (QC/ME): IBC-03-22 Vista clearing contract (Mon 452 - Mon 484) totaling 33.2 mi / 53.4 km 132,800.00 \$

Section 19 - 49th Parallel (MON 833 to MON 925) (ND, MN/MB): IBC-01-22 Vista clearing contract (Mon 891 - Mon 912) totaling 29.0 mi / 46.7 km 89,900.00 \$

Section 20 - 49th Parallel (MON 671 to MON 832B) (ND, MN/MB): CRFO 01-21 In-house Vista Clearing, Monument Maintenance, Surveys 178,133.16 \$

Section 23 - 49th Parallel (MON 110 to MON 206) (WA/BC): IBC-02-22 Vista clearing contract (Mon 132 - Mon 165) totaling 36 mi / 58 km 75,000.00 \$

Other expenditures from April 1, 2022 to March 31, 2023
Joint annual report printing - \$ 4,388.00 \$

Sub-total for 2022-23	629,469.36 \$	1,309,166.96 \$
Total as of March 31, 2021	30,167,554.56 \$	31,109,187.29 \$

NOTE: It is recognized that fluctuations in exchange rates are not reflected in the total expenditures by each country.

I hereby certify that the above amount of **30,167,554.56 \$** is an accurate statement of the total amount expended to March 31, 2023 on the part of the United States in the joint maintenance of the International Boundary Line under the Article IV of the Treaty of 1925.



Kyle Hipsley, United States Commissioner

GREAT FALLS, MT 10/25/24
Place Date

I hereby certify that the above amount of **31,109,187.29 \$** is an accurate statement of the total amount expended to March 31, 2023 on the part of Canada in the joint maintenance of the International Boundary Line under the Article IV of the Treaty of 1925.



Jean Gagnon, Commissioner for Canada

OTTAWA, ON, CA 10/31/24
Place Date



COMMISSIONERS OF THE IBC

UNITED STATES

Otto H. Tittmann	1904 – 1915
Edward C. Barnard	1915 – 1921
E. Lester Jones	1921 – 1929
James H. Van Wagenen	1929 – 1935
Thomas Riggs	1935 – 1945
John A. Ulinski	1945 – 1953
Samuel L. Golan	1953 – 1961
Edward J. King	1961 – 1969
Richard L. Herman	1969 – 1977
William M. Schreiber	1977 – 1981
Frank R. Whetstone	1981 – 1985
David C. Fischer	1985 – 1991
Allen C. Kolstad	1991 – 1993
Clyde Moore (Acting)	1993 – 1996
Thomas L. Baldini	1996 – 2002
Dennis L. Schornack	2002 – 2007
David L. Bernhardt	2007 – 2008
Kyle K. Hipsley (Acting)	2008 – 2014
Kyle K. Hipsley	2014 –

CANADA

William F. King	1904 – 1916
James J. McArthur	1917 – 1924
John D. Craig	1925 – 1931
Noel J. Ogilvie	1931 – 1947
James M. Wardle	1947 – 1950
J. Leslie Rannie	1950 – 1951
J. Earl R. Ross	1951 – 1957
A. Frederick Lambert	1957 – 1976
Alec C. McEwen	1976 – 1991
Suzanne Jacques	1991 – 1996
Michael O’Sullivan	1996 – 2005
Peter J. Sullivan	2005 – 2017
Jean Gagnon	2017 –

CERTIFICATION

We certify that the foregoing is a true record of the work done by the Commissioners during the year ending December 31, 2023 on the maintenance of the International Boundary Line between Canada and the United States of America, and that the plats and tables submitted herein show the true location and geodetic position of all monuments moved and all additional monuments and marks established within the year, in accordance with the provisions of Article IV of the Treaty between the United States of America and His Britannic Majesty in respect of Canada signed at Washington, February 24, 1925.

Jean Gagnon
Commissioner for the Canada

Kyle K. Hipsley
Commissioner for the United States



APPENDIX A – DETAILS OF MAINTENANCE AND SURVEY WORK

Legend

Boundary Monument Type:	MON	Monument (Artificial feature set to mark the international boundary)
	LM	Line Mark (Artificial feature set between established boundary points)
	RG	Range Mark (Artificial feature set to define turning points by mean of alignment)
	RM	Reference Monument (Artificial feature set to define turning points by traverse)
Reconnaissance:	G	Recovered In Good Condition
	F	Recovered in Fair Condition (requires minor repair)
	P	Recovered in Poor Condition (requires major repair)
	D	Destroyed (evidence found but Monument not in place)
	NR	Not Recovered (no evidence found or inadequate search)
Established:	NM	New Monument constructed (in new location)
	R	Renewed (in same location)
Repairs:	MI	Minor repairs to base (cracks patched, plumbed, dirt packed at base, etc)
	MA	Major repairs (new marker installed, base partially replaced or recapped)
Painted:	MP	Monument Painted
Description:	DU	Description Updated
	ND	New Description (newly established monuments only)
Photo:	YES	Photographed
	NO	Not Photographed
Monument Surveyed:	S	Survey performed to position the monument

Saint John River (New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S1	D					NO	
RM S1-31	D					NO	
RM C1-52(us&cb)	G			MP		YES	S
RM S1-52	D					NO	
RM S1A-40	G					YES	S
RM S1-55	F			MP		YES	S
RM S2A-72	G					YES	S
RM S2A-72	G			MP		YES	S
RM S2	G					YES	S
RM S2	G			MP		YES	S
RM S3	G					YES	S
RM S3	G			MP		YES	
RM S4-72	NR					NO	
RM S4-72	G			MP		YES	S
RM S4A-55	NR					NO	
RM S4A-52	NR					NO	
RM S4	G			MP		YES	
RM C4-52	D					NO	
RM C4-72	F			MP		YES	
RM S5-72	G					YES	S
RM S5-72	G			MP		YES	S
RM C5-72	G			MP		YES	S
RM S6A-40	NR					NO	
RM S6-52	NR					NO	

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
SITE RM S6	NR					NO	
RM S6-57	NR					NO	
RM S6A-72	NR					NO	
RM C6-72	G			MP		YES	S
RM C6-52	P					YES	
SITE RM S7	D					NO	
RM S7A-40	NR					NO	
RM S7-52	D					NO	
RM S7-72	P					YES	
RM C7-72	G					YES	S
RM C7-72	G			MP		YES	S
RM C7A-72	G			MP		YES	S
RM S8	G					YES	S
RM S8	G			MP		YES	
RM S8B-72	G					YES	S
RM S8B-72	G			MP		YES	S
RM S8-52	D					NO	
RM 119-52	D					NO	
RM C8-72	G			MP		YES	S
RM S9A-57	NR					NO	
RM S9A-52	NR					NO	
RM S9	G					YES	S
RM S9	G			MP		YES	
RM C9-72	G			MP		YES	S
RM S10A-40	G					YES	S
SITE RM S10	NR					NO	
RM S10-72	NR					NO	
RM S11-72	G					YES	S
RM S10-72	D					YES	
RM S11-72	G			MP		YES	S
RM C10-52	G			MP		YES	S
RM S11	G					YES	S
SITE RM S12	D					NO	
RM S12-72	G					YES	S
RM S12-72	G			MP		YES	S
RM S13-72	G					YES	S
RM S13-72	G			MP		YES	S
RM C12A-72	G			MP		YES	S
RM S13-31	NR					NO	
SITE RM S13	NR					NO	
RM C13-72	P					YES	
RM S14	NR					NO	
RM S14-57	G					YES	S
RM S14-31	NR					NO	
RM S14-57	G			MP		YES	S

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S15-72	G					YES	S
RM S15-72	G			MP		YES	S
RM S15-52	NR					NO	
SITE RM S15	NR					NO	
SITE RM S16	D					NO	
RM S16A-40	G					YES	S
RM S16A-40	G			MP		YES	S
RM S17	G					YES	S
RM S17	G					YES	S
RM S17	G			MP		YES	S
RM 120	D					NO	
RM 120A-40	D					NO	
RM C16-72	G			MP		YES	S
RM S18-72	G					YES	S
RM S18-72	G			MP		YES	S
RM C17-40	G			MP		YES	S
SITE RM S18	D					NO	
RM S18A-40	D					NO	
RM C18-72	G			MP		YES	S
RM S19-52	NR					NO	
SITE RM S19	D					NO	
RM S20-72	G					YES	S
RM S20-72	G			MP		YES	S
RM S20	D					NO	
RM S20-52	NR					NO	
RM S20A-40	NR					NO	
RM C20-72	G			MP		YES	
RM S21	G					YES	S
RM S21	G			MP		YES	S
RM C21-72	P					YES	S
RM S22-72	G					YES	S
RM S22	D					NO	
RM S22-72	G			MP		YES	S
RM S23A-40	D					NO	
RM S23A-55	D					NO	
RM S23A-52	D					NO	
RM S23-52	D					NO	
SITE RM S23	D					NO	
RM C22-58	G			MP		YES	S
RM C22	G			MP		YES	
RM C23-72	P			MP		YES	S
RM S24A-72	G					YES	S
RM S24A-72	G			MP		YES	S
RM S24	G					YES	S
RM S24	F			MP		YES	S

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S25-73	D					NO	
SITE RM S25	D					NO	
RM S26-73	G					YES	S
RM S26-73	G			MP		YES	S
RM C24-73	G			MP		YES	S
RM C24-52	F			MP		YES	S
SITE RM S26	D					NO	
RM C25-54	G	R				YES	S
RM C25-54	P					YES	
RM S27-31	D					NO	
RM S27	G					YES	S
RM S28A-39(40)	D					YES	
RM S28	D					NO	
RM C27-54	P					YES	
RM C27-73	G			MP		YES	S
RM S28-73	G					YES	S
RM S28-73	G			MP		YES	S
RM S29A-52	G					YES	S
RM S29A-52	G			MP		YES	S
RM S29	D					NO	
RM S30-31	G					YES	S
RM S30-52	D					YES	
SITE RM S30	D					NO	
RM C28-52	G			MP		YES	
RM 121	D					YES	
RM S31-73	NR					NO	
RM 122	D					NO	
SITE RM S31	D					NO	
RM S31-52	NR					NO	
RM S31A-40	NR					NO	
RM 123A-40	NR					NO	
RM 123	D					NO	
RM S32B-73	G					YES	S
RM S32B-73	G			MP		YES	
RM S32A-52	P					YES	
RM S32-73	G					YES	S
RM S32-73	G			MP		YES	S
RM S33-52	P					YES	
SITE RM S33	D					NO	
RM C31-73	G			MP		YES	
RM S34A-73	G					YES	S
RM S34A-73	G			MP		YES	S
RM S34	D					NO	
RM S35	G					YES	S
RM S35	G			MP		YES	S

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S36-52	D					NO	
SITE RM S36	D					NO	
RM 124-73	D					YES	
RM S37-73	P					YES	
RM S37-73	G			MP		YES	
RM S37-52	P					YES	
RM S37-31	D					NO	
SITE RM S37	D					NO	
RM C35-73	G			MP		YES	S
RM 126-52	G					YES	S
RM S38A-73	NR					NO	
RM S38-73	D					NO	
RM S38A-40	G					YES	S
RM S38	D					NO	
RM C36-75	G			MP		YES	S
SITE RM S39	D					NO	
RM S39-51	G					YES	S
RM S39-51	G			MP		YES	S
RM S39A-73	G					YES	S
RM S39A-73	D			MP		YES	
RM S40	G					YES	S
RM S40A-52	G					YES	S
RM 128	G					YES	S
RM S41-51	D					NO	
SITE RM S41	D					NO	
SITE RM S42	D					NO	
RM S42-A-51	D					NO	
RM S42-73	G					YES	S
RM 130	F					YES	S
RM S43-51	D					NO	
RM S43	D					YES	
SITE RM S44	D					NO	
RM S44-73	G					YES	S
RM S44A-75	G					YES	S
RM 134-75	G					YES	S
RM 134	G					YES	S
RM S45-75	G					YES	S
RM S45-51	D					NO	
SITE RM S45	D					NO	
RM S46A-51	NR					NO	
SITE RM S46	D					NO	
RM S46-75	G					YES	S
RM S47	G					YES	S
RM S47-51	G					YES	S
RM S48	G					YES	S

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
SITE RM S49	D					NO	
SITE RM S49	D					NO	
RM S49-54	G					YES	S
RM S49A-51	NR					NO	
RM C48A-75	G					NO	S
RM C48	G					NO	S
RM S50-54	G					YES	S
SITE RM S50	D					NO	
RM C49-75	G					NO	S
SITE RM S51	D					NO	
RM S51-75	D					NO	
RM S51-31	D					NO	
RM S51-51	D					NO	
RM S52-51	G					YES	S
SITE RM S52	P					YES	
RM S53	D					NO	
RM S53A-51	D					NO	
RM S53-73	G					YES	S
RM 134A-31	NR					NO	
RM 134A-75	NR					NO	
RM S54	F					YES	S
RM S54A-75	D					NO	
SITE RM S55	NR					NO	
RM S55-51	P					YES	
RM S55-57	NR					NO	
RM S55-73	G					YES	S
RM 138A-75	P					YES	
SITE RM 138	NR					NO	
RM 136A-75	G					YES	S
RM 136	G					YES	S
SITE RM S56	G					YES	S
RM S56-75	G					YES	S
RM S57-73	G					YES	S
RM S57-51	NR					NO	
SITE RM S57	NR					NO	
RM S58-75	D					NO	
SITE RM S58	D					NO	
RM S58A-39	D					NO	
SITE RM S59	NR					NO	
RM S59-51	NR					NO	
RM S60	G					YES	S
RM S59-75	G					YES	S
RM S60-75	G					YES	S
RM S61	NR					NO	
RM S61-51	NR					NO	

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S61-75	G					YES	S
RM S62-51	G					YES	S
SITE RM S62	NR					NO	
RM S63-51	NR					NO	
RM S63A-54	NR					NO	
RM S63-75	NR					NO	
SITE RM S63	D					NO	
RM S64-75	G					YES	
SITE RM S64	D					NO	
RM S-65-51	NR					NO	
RM S65-75	NR					NO	
SITE RM S65	NR					NO	
RM S66-51	NR					NO	
SITE RM S66	D					NO	
RM S66-76	NR					NO	
RM S67-76	NR					NO	
RM S67-51	NR					NO	
SITE RM S67	NR					NO	
RM S68-51	F					YES	S
RM S68	D					NO	
RM S68-75	G					YES	S
RM 139-76	G					YES	S
SITE RM 139	P					YES	
RM S25-52	D					NO	
SITE RM S70	NR					NO	
RM 140	G					YES	S
RM S70-51	NR					NO	
RM 141-51	D					NO	
RM 142-76	G					YES	S
RM 142-51	D					YES	
RM S70-75	G					YES	S
RM S71A-51	G					YES	S
SITE RM S71	NR					NO	
RM S72A-75	G					YES	S
RM S72-54	G					NO	
SITE RM S72	NR					NO	
RM 143-76	G					YES	S
RM 143	G					YES	S
SITE RM S73	G					YES	S
RM 144	G					YES	S
RM S73A-76	G					YES	S
RM S73-75	NR					NO	
RM S74A-51	D					NO	
RM S74A-51	G					YES	S
SITE RM S74	D					NO	

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 145	G					YES	S
RM 145	G					YES	
RM 147-77	G					YES	S
RM 147	D					NO	
RM S75A-76	G					YES	S
RM S75	G					YES	S
RM 146	NR					NO	
SITE RM S69	G					YES	S
RM S69A-76	G					YES	S
RM S76-31	G					YES	S
SITE RM S76	D					NO	
RM 149	G					YES	S
RM 151	D					NO	
RM 151A-76	NR					NO	
RM 151A-31	NR					NO	
RM 151B-39	NR					NO	
RM S77	G					YES	S
RM 153	G					YES	S
RM S78-76	P					YES	
RM S78-51	NR					NO	
RM S78-53	D					YES	
SITE RM S78	D					NO	
RM S79-53	D					NO	
RM S79-51	D					NO	
RM S79	D					NO	
RM S79-76	G					YES	S
SITE RM S80	NR					NO	
RM S80-76	G					YES	S
RM S80-51	NR					NO	
RM S81-76	F					YES	S
RM S81A-54	G					YES	S
RM S81-51	D					NO	
SITE RM S81	NR					NO	
RM S82A-76	G					YES	S
SITE RM S84	D					NO	
RM S84-51	D					NO	
RM S84-54	D					NO	
RM S84A-76	D					NO	
RM S84A-76	D					NO	
SITE RM S85	D					NO	
RM S85-76	G					YES	S
SITE RM S86	G					YES	S
RM S86-76	NR					NO	
RM S87	G					YES	S
RM S87-76	D					NO	

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S88	G					YES	S
RM S89	G					YES	S
RM S89A-76	G					YES	S
RM S90A-51	NR					NO	
RM S90A-51	NR					NO	
SITE RM S90	NR					NO	
RM S90-76	G					YES	S
RM S91-76	G					YES	S
SITE RM S91	G					YES	S
RM S92-76	G					YES	S
SITE RM S92	NR					NO	
RM S93-51	NR					NO	
SITE RM S93	D					YES	
RM S93-76	G					YES	S
RM S94-52	NR					NO	
RM S94-76	NR					NO	
SITE RM S94	NR					NO	
RM S95	G					YES	S
RM 154	G					YES	S
RM S95-76	G					YES	S
RM 155	G					YES	S
RM S96-76	G					YES	S
SITE RM S96	NR					NO	
RM S96A-77	G					YES	S
RM S97	G					YES	S
RM S98-77	G					YES	S
SITE RM S98	NR					NO	
RM 156	G					YES	S
RM 157	D					YES	
RM 158-77	G					YES	S
SITE RM S99	NR					NO	
RM S99-77	G					YES	S
RM 159A-77	G					YES	S
RM 159B	D					YES	
RM 159-77	D					NO	
SITE RM 159	NR					NO	
RM 160-77	G					YES	S
SITE RM 160	G					YES	S
SITE RM 162	D					NO	
RM 162-77	D					NO	
SITE RM 161	F					YES	S
RM 161-77	G					YES	S
RM 163-77	G					YES	S
RM S100-77	G					YES	S
SITE RM S100	NR					NO	

Saint John River
(New Brunswick/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
SITE RM S101	G					YES	S
RM S101A-77	G					YES	S
RM S102	G					YES	S
RM 163-51	NR					NO	
SITE RM 163A	D					NO	
RM 163A-31	NR					NO	
RM 163A-77	NR					NO	
RM S103-51	G					YES	S
SITE RM S103	NR					NO	
RM 164	G					YES	S
SITE RM S104	D					NO	
SITE RM 165	P					YES	S
RM 165-77	D					YES	
RM 166-77	D					YES	
SITE RM 166	P					YES	S
SITE RM 167	NR					NO	
RM 167-77	D					NO	
RM 168	G					YES	S
RM 168A-77	G					YES	S
RM S105-77	G					YES	S
SITE RM S105	G					YES	S
RM 169	P					YES	S
RM S106-77	G					YES	S
SITE RM S106	NR					NO	
RM S106-52	NR					NO	
RM S107A-77	G					YES	S
RM S107	G					YES	S
RM S108-52	NR					NO	
SITE RM S108	NR					NO	
RM S108-77	G					YES	S
SITE RM S109	G					YES	S
RM S109A-77	G					YES	S
RM S110-77	G					YES	S
SITE RM S110	G					YES	S
RM S111	G					YES	S
RM S111-77	NR					NO	
RM 170	NR					NO	
RM 170-51	NR					NO	
RM170A-39	NR					NO	
RM 170-77	D					NO	
RM S112-77	G					YES	S
RM S112	G					YES	S
RM 171-77	G					YES	S
RM 171	NR					NO	
RM 172-77	G					YES	S

***Saint John River
(New Brunswick/Maine)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 172	P					YES	

***St. Francis River
(New Brunswick/Maine)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 173-77	D					NO	
RM 173	D					NO	
RM S113-77	G					YES	S
RM 175A-77	NR					NO	
RM S-113	G					YES	S
RM S114-77	G					YES	S
RM S-114	P					YES	S
RM S-115A	G					YES	S
RM S-115	D					NO	
RM 175	D					NO	

***Southwest and South Lines
(Quebec/Maine)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 178	G		MI	MP		YES	
MON 179	G			MP		YES	
MON 180	G			MP		YES	
MON 180A	G			MP		YES	
AP POHENEGAMOOK	G					YES	
MON 180B	G			MP		YES	
MON 181	G					YES	
MON 181A1	G					YES	
MON 181A2	G			MP		YES	
MON 181A3	G			MP		YES	
MON 181A	G			MP		YES	
MON 182	G					YES	
MON 182A	G					YES	
MON 182B	G					YES	
MON 183	G					YES	
MON 183A	G					YES	
MON 184	G			MP		YES	
MON 184A	G					YES	

**Southwest and South Lines
(Quebec/Maine)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 184B	G					YES	
MON 185	G			MP		YES	
MON 186	G			MP		YES	
MON 186A	G		MI			YES	
MON 186B	G					YES	
MON 187	G			MP		YES	
MON 188	G					YES	
MON 188A	G					YES	
MON 189	G					YES	
MON 189A	G					YES	
MON 190	G					YES	
MON 190A	G					YES	
MON 191	G					YES	
MON 192	G					YES	
MON 192A	G					YES	
MON 192C	G					YES	
MON 192B	G					YES	
MON 193	G					YES	
MON 194	G			MP		YES	
MON 195	G					YES	
MON 195A-88	G			MP		YES	
MON 195B	G					YES	
MON 195C	G					YES	
MON 195D	G					YES	
MON 196	G					YES	
MON 197	G			MP		YES	
MON 198	G			MP		YES	
MON 198A-88	G			MP		YES	
MON 198B	G					YES	
MON 199	G			MP		YES	
MON 200-88	G			MP		YES	
MON 201	G			MP		YES	
MON 201B	G					YES	
MON 202	G					YES	
MON 202A1	G					YES	
MON 202B1	G					YES	
MON 202C1	G					YES	
MON 202A	G					YES	
MON 202B	G					YES	
MON 203	G					YES	
MON 203A	G					YES	
MON 204	G					YES	
MON 205	G					YES	
MON 206	G					YES	
MON 207	G					YES	

**Southwest and South Lines
(Quebec/Maine)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 207A	G					YES	
MON 207B	G					YES	
MON 208	G					YES	
MON 208A	G	R				YES	
MON 208B	G					YES	
MON 209	G					YES	
MON 210	G					YES	
MON 210A	G					YES	
MON 211	G					YES	
MON 211A	G					YES	
MON 211B	G					YES	
MON 212	G					YES	
MON 212A	G					YES	
MON 212B	G					YES	
MON 212C	G	R				YES	
MON 212D	G					YES	
MON 213	G					YES	
MON 214	G					YES	
MON 215	G					YES	
MON 216 AND 217	G			MP		YES	
MON 218	G			MP		YES	
MON 218A	G					YES	
MON 218B	G					YES	
MON 218C	G	R				YES	
MON 218D	G	R				YES	
MON 219	G			MP		YES	
MON 219A	G					YES	
MON 220	G	R				YES	
MON 220A	G					YES	
MON 221	G			MP		YES	
MON 222	G		MA	MP		YES	
MON 222A	G					YES	
MON 223	G			MP		YES	
MON 223A	G	R				YES	
MON 224	G		MA	MP		YES	
MON 225-90	G					YES	
MON 226	G	R				YES	
MON 227	G		MA	MP		YES	
MON 227A	G					YES	
MON 227B	G					YES	
MON 228-90	G			MP		YES	
MON 229	G					YES	
MON 230-51	G			MP		YES	
MON 230A	G					YES	
MON 231	G			MP		YES	

**Southwest and South Lines
(Quebec/Maine)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 232	G			MP		YES	
MON 232A	G					YES	
MON 233	G		MI	MP		YES	
MON 234	G			MP		YES	
MON 235	G		MA	MP		YES	
MON 236	G			MP		YES	
MON 236A	G					YES	
MON 237	G			MP		YES	
MON 237A	G	R				YES	
MON 237B	G					YES	
MON 238	G			MP		YES	
MON 239	G					YES	
MON 239A	G					YES	
MON 239B	G	R				YES	
MON 239C	G					YES	
MON 240	G		MA			YES	
MON 240A	G					YES	
MON 240B	G					YES	
MON 241-90	G			MP		YES	
MON 241	G		MA	MP		YES	
MON 241A	G		MI	MP		YES	S
MON 242	G			MP		YES	
MON 242A	G					YES	
MON 242-77	G					YES	
MON 243	G					YES	
MON 243A1	G	R				YES	S
MON 243A	G					YES	
MON 243B	G					YES	
MON 244	G					YES	
MON 245	G		MA			YES	
MON 245A	G	R		MP		YES	S
MON 246	G					YES	
MON 247	G					YES	
MON 247A	G		MI			YES	
MON 247B	G	R				YES	S
MON 247C	G					YES	
MON 248	G					YES	
MON 249-77	G					YES	
MON 250	G					YES	
MON 250A1	G	R				YES	S
MON 250A2	G					YES	
MON 250A	G					YES	
MON 251	G					YES	
MON 251A	G		MA			YES	
MON 252	G					YES	

**Southwest and South Lines
(Quebec/Maine)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 252A	G					YES	
MON 252B	G	R				YES	S
MON 253	G					YES	
MON 253A	G		MI			YES	
MON 254	G					YES	
MON 254A	G					YES	
MON 255	G					YES	
MON 256	G					YES	
MON 256A1	G	R				YES	S
MON 256A	G		MI			YES	
MON 256B	G	R				YES	S
MON 257	G					YES	
MON 257A	G					YES	
MON 258	G					YES	
MON 258A	G					YES	
MON 258B	G					YES	
MON 259	G					YES	
MON 259A	G					YES	
MON 259B	G					NO	S
MON 259C	G					YES	
MON 260	G					YES	
MON 261	G		MI			YES	
MON 262	G					YES	
MON 263	G		MI			YES	S
MON 263A	G					YES	
MON 264	G					YES	
MON 265	G					YES	
MON 265A	G					YES	
MON 265B	G	R				YES	S
MON 266	G					YES	
MON 267	G					YES	
MON 267A	G		MI			YES	S
MON 268	G					YES	
MON 268A	G		MI			YES	S
MON 268B	G					YES	
MON 269	G					YES	
MON 269A	G					YES	
MON 270	G					YES	
MON 271	G					YES	
MON 271A	G					YES	
MON 272	G					YES	
MON 272A	G					YES	
MON 273	G					YES	
MON 274	G		MI			YES	
MON 275	G					YES	

**Southwest and South Lines
(Quebec/Maine)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 276	G					YES	
MON 276A	G					YES	
MON 277	G					YES	
MON 278	G					YES	
MON 279	G					YES	
MON 280	G					YES	
MON 281	G					YES	
MON 281A	G					YES	
MON 282	G					YES	
MON 282A	G					YES	
MON 283	G					YES	
MON 283A	G					YES	
MON 284	G					YES	
MON 285	G					YES	
MON 286	G					YES	
MON 287	G					YES	
MON 287A1	G	R				YES	S
MON 287A	G		MI			YES	
MON 287B	G					YES	
MON 288	G					YES	
MON 288A-91	G					YES	
MON 289	G					YES	
MON 290	G					YES	
MON 291	G					YES	
MON 291A	G					YES	
MON 292	G					YES	
MON 293	G		MA			YES	
MON 293A	G					YES	
MON 294	G					YES	
MON 294A	G					YES	
MON 295	G					YES	
MON 296	G					YES	
MON 296A	G					YES	
MON 297-91	G					YES	
MON 297A	G					YES	
MON 298	G					YES	
MON 299	G					YES	
MON 299A	G					YES	
MON 300	G					YES	
MON 301-91	G					YES	
MON 301A	G					YES	
MON 302	G					YES	
MON 303	G			MP		YES	
MON 304	G	R		MP		YES	S
MON 305	G					YES	

Southwest and South Lines
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 306	G		MA			YES	
MON 307	G					YES	
MON 308	G					YES	

Southwest Branch of the St. John River
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 309	G			MP		YES	
RM C8	G			MP		YES	S
RM 310	G			MP		YES	S
RM C13	G					YES	S
RM C18	G					YES	
RM C20	G					YES	
RM C22	G					YES	
RM C24	G					NO	
RM C26	G					YES	
RM C28	G					YES	

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 314	G					NO	S
MON 314.1	G					NO	S
MON 314.2	G					NO	S
MON 314.3	G					NO	S
MON 314.4	G					NO	S
LM 314.4A	G	NM			ND	YES	S
MON 314.5	G	R				YES	S
LM 314.5A	G	NM			ND	YES	S
MON 314.6	G					NO	S
MON 314.7	G					NO	S
MON 314.8	G	R				YES	S
MON 314.9	G					NO	S
MON 314.10	G					NO	S
MON 314.11	G	R				YES	S
MON 315	G					NO	S
MON 315.1	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 315.2	G					NO	S
MON 315.3	F					NO	S
MON 315.4	G					NO	S
MON 315.5	G					NO	S
MON 315.6	G					NO	S
MON 316	G					NO	S
MON 316.1	G					NO	S
MON 316.2	G					NO	S
MON 316.3	G					NO	S
MON 316.4	G					NO	S
MON 317.1	G					NO	S
MON 317.2	G					NO	S
MON 317.3	G					NO	S
MON 318.1	G					NO	S
MON 318.2	G					NO	S
MON 318.3	G					NO	S
MON 318.4	G					NO	S
MON 318.5	G					NO	S
MON 318.6	G					NO	S
MON 318.7	G					NO	S
MON 318.8	G					YES	S
MON 318.9	G					YES	S
MON 318.10	G					YES	S
MON 318.11	G					YES	S
MON 319.1	G					YES	S
MON 319.2	G					YES	S
MON 319.3	G					YES	S
MON 319.4	G					YES	S
MON 319.5	G					YES	S
MON 319.6	G					YES	S
MON 319.7	G					YES	S
MON 319.8	G					YES	S
MON 319.9	G					YES	S
MON 319.10	G					YES	S
MON 319.11	G					YES	S
MON 319.12	G					YES	S
MON 319.13	G					YES	S
MON 319.14	G					YES	S
MON 319.15	G					YES	S
MON 319.16	G					YES	S
MON 319.17	G					YES	S
MON 319.18	G					YES	S
MON 319.19	G					YES	S
MON 319.20	G					YES	S
MON 319.21	G					YES	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 319.22	G					YES	S
MON 319.23	G					YES	S
MON 319.24	G					YES	S
MON 319.25	G					YES	S
MON 319.26	G					YES	S
MON 319.27	G					YES	S
MON 319.28	G					YES	S
MON 319.29	G					YES	S
MON 319.30	G					YES	S
MON 319.31	G					YES	S
MON 319.32	G					YES	S
MON 320	G					YES	S
MON 320.1	G					NO	S
MON 320.2	G					NO	S
MON 320.3	G					NO	S
MON 320.4	G					NO	S
MON 320.5	G					NO	S
MON 320.6	G					NO	S
MON 320.7	F					NO	S
MON 320.8	G					NO	S
MON 320.9	G					NO	S
MON 320.10	G					NO	S
MON 320.11	G					NO	S
MON 320.12	G					NO	S
MON 320.13	G					NO	S
MON 320.14	G					NO	S
MON 320.15	G					NO	S
MON 320.16	G					NO	S
MON 320.17	G					NO	S
MON 320.18	G					NO	S
MON 320.19	G	R				YES	S
MON 320.20	G					NO	S
MON 320.21	F					NO	S
MON 320.22	G					NO	S
MON 320.23	G					NO	S
MON 320.24	G					NO	S
MON 320.25	G					NO	S
MON 320.26	G					NO	S
MON 320.27	G					NO	S
MON 320.28	G					NO	S
MON 321	G					NO	S
MON 321.1	G					NO	S
MON 321.2	G					NO	S
MON 321.3	G					NO	S
MON 321.4	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 321.5	G					NO	S
MON 321.6	G					NO	S
MON 321.26	G					NO	S
MON 322.1	G					NO	
MON 322.2	G					NO	
MON 322.3	G					NO	
MON 322.4	F					NO	
MON 322.5	G					NO	
MON 322.6	G					NO	
MON 322.6	G					NO	S
MON 322.7	G					NO	
MON 322.7	G					NO	S
MON 322.8	G					NO	
MON 322.9	G					NO	
MON 322.10	G					NO	
MON 322.11	G					NO	
MON 322.12	G					NO	
MON 322.13	G					NO	
MON 322.14	G					NO	
MON 322.15	G					NO	
MON 324.6	G					NO	S
MON 324.7	G					NO	S
MON 324.8	G					NO	S
MON 324.9	G					NO	S
MON 324.10	G					NO	S
MON 324.11	G					NO	S
MON 324.12	G					NO	S
MON 324.13	G					NO	S
MON 324.14	G					NO	S
MON 324.15	G					NO	S
MON 324.16	G					NO	S
MON 324.17	G					NO	S
MON 324.18	F					NO	S
MON 324.19	G					NO	S
MON 324.20	G					NO	S
MON 324.21	G					NO	S
MON 324.22	G					NO	S
MON 324.23	F					NO	S
MON 324.24	G					NO	S
MON 324.25	G					NO	S
MON 324.26	F					NO	S
MON 324.27	G					NO	S
MON 324.28	G					NO	S
MON 324.29	G					NO	S
MON 324.30	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 324.31	G					NO	S
MON 324.32	G					NO	S
MON 325	G					NO	S
MON 325.1	G					NO	S
MON 325.2	G					NO	S
MON 325.3	G					NO	S
MON 326.8	G					NO	S
MON 326.9	G		MI			YES	S
MON 326.10	G	R				YES	S
MON 326.11	G		MI			YES	S
MON 326.12	G					NO	S
MON 326.13	G					NO	S
MON 326.14	G					NO	S
MON 326.15	G					NO	S
MON 326.16	G					NO	S
MON 326.17	G					NO	S
MON 326.18	G					NO	S
MON 326.19	G					NO	S
MON 326.20	G					NO	S
MON 326.21	G					NO	S
MON 326.22	G		MI			YES	S
MON 326.23	G					NO	S
MON 327	G					NO	S
MON 327.1	G					NO	S
MON 327.2	G					NO	S
MON 327.3	G					NO	S
MON 327.4	G					NO	S
MON 327.5	G					NO	S
MON 327.6	G					NO	S
MON 327.7	G					NO	S
MON 327.8	G					NO	S
MON 327.9	G					NO	S
MON 327.10	G					NO	S
MON 327.11	G					NO	S
MON 327.12	G					NO	S
MON 327.13	G					NO	S
MON 327.14	G					NO	S
MON 327.15	G					NO	S
MON 327.16	G					NO	S
MON 327.17	G					NO	S
MON 327.18	G					NO	S
MON 327.19	G					NO	S
MON 327.20	G					NO	S
MON 327.21	G					NO	S
MON 327.22	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 327.23	G		MI			YES	S
MON 327.24	G					NO	S
MON 327.25	G					NO	S
MON 327.26	G					NO	S
MON 327.27	G					NO	S
MON 327.28	G					NO	S
MON 327.29	G					NO	S
MON 327.30	G					NO	S
MON 328	G					NO	S
MON 328.1	G					NO	S
MON 328.2	G					NO	S
MON 328.3	F					NO	S
MON 328.4	G					NO	S
MON 328.5	G					NO	S
MON 328.6	G					NO	S
MON 328.7	G					NO	S
MON 328.8	G					NO	S
MON 328.9	F					NO	S
MON 328.10	G					NO	S
MON 328.11	G					NO	S
MON 328.12	F					NO	S
MON 328.13	G					NO	S
MON 328.14	G					NO	S
MON 328.15	G					NO	S
MON 328.16	F					NO	S
MON 328.17	G					NO	S
MON 328.18	G					NO	S
MON 328.19	G					NO	S
MON 328.20	G					NO	S
MON 328.21	G					NO	S
MON 328.22	G					NO	S
MON 328.23	G					NO	S
MON 328.24	G					NO	S
MON 328.25	G					NO	S
MON 328.26	G					NO	S
MON 328.27	G					NO	S
MON 328.28	G					NO	S
MON 328.29	G					NO	S
MON 328.30	G					NO	S
MON 328.31	G					NO	S
MON 328.32	G					NO	S
MON 328.33	G					NO	S
MON 328.34	G					NO	S
MON 328.35	G					NO	S
MON 328.36	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 329	G					NO	S
MON 329.1	G					NO	S
MON 329.2	G					NO	S
MON 329.3	G					NO	S
MON 329.4	F					NO	S
MON 329.5	G					NO	S
MON 329.6	G					NO	S
MON 329.7	G					NO	S
MON 329.8	G					NO	S
MON 329.9	G					NO	S
MON 329.10	G					NO	S
MON 329.11	G					NO	S
MON 329.12	G					NO	S
MON 329.13	G					NO	S
MON 329.14	G					NO	S
MON 329.15	G					NO	S
MON 329.16	G					NO	S
MON 329.17	G					NO	S
MON 329.18	G					NO	S
MON 329.19	G					NO	S
MON 329.20	G					NO	S
MON 329.21	G					NO	S
MON 329.22	G					NO	S
MON 329.23	G					NO	S
MON 329.24	G					NO	S
MON 329.25	G					NO	S
MON 329.26	G					NO	S
MON 329.27	G					NO	S
MON 329.28	G					NO	S
MON 329.29	G					NO	S
MON 329.30	G					NO	S
MON 329.31	G					NO	S
MON 329.32	G					NO	S
MON 329.33	G					NO	S
MON 329.34	G					NO	S
MON 329.35	G					NO	S
MON 329.36	G					NO	S
MON 329.37	G					NO	S
MON 329.38	G					NO	S
MON 329.39	G					NO	S
MON 329.40	G					NO	S
MON 329.41	G					NO	S
MON 329.42	G					NO	S
MON 330	G					NO	S
MON 330.1	G					NO	

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 330.2	G					NO	S
MON 330.3	G					NO	S
MON 330.4	G					NO	S
MON 330.5	G					NO	S
MON 330.6	G					NO	S
MON 330.7	G					NO	S
MON 330.8	G					NO	S
MON 330.9	G					NO	S
MON 330.10	G					NO	S
MON 330.11	G					NO	S
MON 330.12	G					NO	S
MON 330.13	G					NO	S
MON 330.14	G					NO	S
MON 330.15	G					NO	S
MON 330.16	G					NO	S
MON 330.17	G					NO	S
MON 330.18	G					NO	S
MON 330.19	G					NO	S
MON 330.20	G					NO	S
MON 330.21	G					NO	S
MON 330.22	G					NO	S
MON 330.23	G					NO	S
MON 330.24	G					NO	S
MON 330.25	P					NO	S
MON 330.26	G					NO	S
MON 330.27	G					NO	S
MON 330.28	G					NO	S
MON 330.29	G					NO	S
MON 330.30	G					NO	S
MON 330.31	G					NO	S
MON 330.32	G					NO	S
MON 331	G					NO	S
MON 331.1	G					NO	S
MON 331.2	G					NO	S
MON 331.3	G					NO	S
MON 331.4	G					NO	S
MON 331.5	G					NO	S
MON 331.6	G					NO	S
MON 331.7	G					NO	S
MON 331.8	G					NO	S
MON 331.9	G					NO	S
MON 331.10	G					NO	S
MON 331.11	G					NO	S
MON 331.12	G					NO	S
MON 331.13	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 331.14	G					NO	S
MON 331.15	G					NO	S
MON 331.16	G					NO	S
MON 331.17	G					NO	S
MON 331.18	G					NO	S
MON 331.19	G					NO	S
MON 331.20	G					NO	S
MON 331.21	G					NO	S
MON 331.22	G					NO	S
MON 331.23	G					NO	S
MON 331.24	G					NO	S
MON 331.25	G					NO	S
MON 331.26	G					NO	S
MON 331.27	G					NO	S
MON 331.28	G					NO	S
MON 331.29	G					NO	S
MON 332	G					NO	S
MON 332.1	G					NO	S
MON 332.2	G					NO	S
MON 332.3	G					NO	S
MON 332.4	G					NO	S
MON 332.5	G					NO	S
MON 332.8	G					NO	S
MON 332.9	G					NO	S
MON 332.10	G					NO	S
MON 332.11	G					NO	S
MON 332.12	G					NO	S
MON 332.13	G					NO	S
MON 332.14	G					NO	S
MON 332.15	G					NO	S
MON 332.16	G					NO	S
MON 332.17	G					NO	S
MON 332.18	G					NO	S
MON 332.19	G					NO	S
MON 332.20	G					NO	S
MON 332.21	G					NO	S
MON 332.22	G					NO	S
MON 332.23	G					NO	S
MON 332.24	G					NO	S
MON 332.25	G					NO	S
MON 332.26	G					NO	S
MON 332.27	G					NO	S
MON 332.28	G					NO	S
MON 332.29	G					NO	S
MON 332.30	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 332.31	G					NO	S
MON 332.32	G					NO	S
MON 332.33	G					NO	S
MON 332.34	G					NO	S
MON 332.35	G					NO	S
MON 332.36	G					NO	S
MON 332.37	G					NO	S
MON 332.38	G					NO	S
MON 332.39	G					NO	S
MON 332.40	G					NO	S
MON 332.41	G					NO	S
MON 332.42	G					NO	S
MON 332.43	G					NO	S
MON 333	G					NO	S
MON 333.1	G					NO	S
MON 333.2	G					NO	S
MON 333.3	G					NO	S
MON 333.4	G					NO	S
MON 333.5	G					NO	S
MON 333.28	G					NO	S
MON 333.29	G					NO	S
MON 334	G					NO	S
MON 334.1	G					NO	S
MON 334.2	G					NO	S
MON 334.3	G					NO	S
MON 334.4	G					NO	S
MON 334.5	G					NO	S
MON 334.6	G					NO	S
MON 334.7	G					NO	S
MON 334.8	G					NO	S
MON 334.9	G					NO	S
MON 334.10	G					NO	S
MON 334.11	G					NO	S
MON 334.12	G					NO	S
MON 334.13	G					NO	S
MON 334.14	G					NO	S
MON 334.15	G					NO	S
MON 334.16	G					NO	S
MON 334.17	G					NO	S
MON 334.18	G					NO	S
MON 334.19	G					NO	S
MON 334.20	G					NO	S
MON 334.21	G					NO	S
MON 334.22	G					NO	S
MON 334.23	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 334.24	G					NO	S
MON 334.25	G					NO	S
MON 334.26	G					NO	S
MON 334.27	G					NO	S
MON 334.28	G					NO	S
MON 334.29	G					NO	S
MON 334.30	G					NO	S
MON 334.31	G					NO	S
MON 334.32	G					NO	S
MON 335	G					NO	S
MON 335.1	G					NO	S
MON 335.2	G					NO	S
MON 335.3	G					NO	S
MON 335.4	G					NO	S
MON 335.5	G					NO	S
MON 335.6	G					NO	S
MON 335.7	G					NO	S
MON 335.8	G					NO	S
MON 335.9	G					NO	S
MON 335.10	G					NO	S
MON 335.11	G					NO	S
MON 335.12	G					NO	S
MON 335.13	F					NO	S
MON 335.14	G					NO	S
MON 335.15	G					NO	S
MON 335.16	G					NO	S
MON 335.17	G					NO	S
MON 335.18	G					NO	S
MON 335.19	G					NO	S
MON 337	G		MI	MP		YES	
MON 338	G		MA			YES	
MON 356.5	G					NO	S
MON 356.6	G					NO	S
MON 356.7	F					NO	S
MON 356.8	F					NO	S
MON 357	G					NO	S
MON 357.1	P					NO	S
MON 357.2	G	R				YES	S
MON 357.3	G					NO	S
MON 357.4	G					NO	S
MON 357.5	G					NO	S
MON 358	G					NO	S
MON 358.1	G					NO	S
MON 358.2	G					NO	S
MON 358.3	G					NO	S

Highlands N.E. Section
(Quebec/Maine)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 358.4	G	R				YES	S
MON 358.5	G					NO	S
MON 358.6	F					NO	S
MON 358.7	G					NO	S
MON 358.8	G					NO	S
MON 358.9	G					NO	S
MON 359.1	G					NO	S
MON 359.2	G	R				YES	S
MON 359.3	G		MI			YES	S
MON 359.4	G					NO	S
MON 359.5	G		MI			YES	S
MON 359.6	G					NO	S
MON 365.4	G					NO	

Highlands S.W. Section
(Quebec/New Hampshire)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 492.8	G					YES	
MON 492.9	G					YES	
MON 492.10	G					YES	
MON 492.11	D					NO	
MON 492.12	G					YES	
MON 493	P					YES	
MON 493.1	G					YES	
MON 493.2	G					YES	
MON 493.3	G					YES	
MON 493.4	G					YES	
MON 493.5	G					YES	
MON 493.6	D					NO	
MON 493.7	G					YES	
MON 493.8	G					YES	
MON 493.9	G					YES	
MON 493.10	G					YES	
MON 493.11	G					YES	
MON 494	G					YES	
MON 494.1	G					YES	
MON 494.2	G	R				YES	S
MON 494.3	G					YES	
MON 494.4	G					YES	
MON 494.5	G	R				YES	S
MON 494.6	G					YES	

Highlands S.W. Section
(Quebec/New Hampshire)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 494.7	G					YES	
MON 494.8	G					YES	
MON 494.9	G					YES	
MON 494.10	G					YES	
MON 494.11	G					YES	
MON 494.12	G					YES	
MON 495	G					YES	S
MON 495.1	G					YES	S
MON 495.2	G	R				YES	S
MON 495.3	G					YES	S
MON 495.4	G					YES	S
MON 495.5	G					YES	S
MON 496	G					YES	S
MON 496.1	G					YES	S
MON 496.2	G					YES	S
MON 496.3	G					YES	S
MON 496.4	G	R				YES	S
MON 496.5	G					YES	S
MON 496.6	G					YES	S
MON 496.7	G	R				YES	S
MON 496.8	G					YES	S
MON 496.9	G					YES	S
MON 496.10	G					YES	S
MON 497	P					YES	S
MON 497.1	G					YES	S
MON 497.2	G	R				YES	S
MON 497.3	G					YES	S
MON 497.4	G	R				YES	S
MON 498	G					YES	S
MON 498.1	G					YES	S
MON 498.2	G					YES	S
MON 498.3	G					YES	S
MON 498.4	G					YES	S
MON 498.5	G					YES	S
MON 499	P					YES	S
MON 499.1	G		MI			YES	S
MON 499.2	G					YES	S
MON 499.3	G					YES	S
MON 499.4	G	R				YES	S
MON 500	P					YES	S
MON 500.1	G					YES	S
MON 500.2	G					YES	S
MON 500.3	G					YES	S
MON 500.4	G					YES	S
MON 500.5	G					YES	S

Highlands S.W. Section
(Quebec/New Hampshire)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 500.6	G					YES	S
MON 500.7	G	R				YES	S
MON 500.8	G					YES	S
MON 500.9	G					YES	S
MON 500.10	G	R				YES	S
MON 500.11	G					YES	S
MON 500.12	G		MI			YES	S
MON 500.13	G					YES	S
MON 500.14	G					YES	S
MON 500.15	G	R				YES	S
MON 500.16	G					YES	S
MON 500.17	G					YES	S
MON 500.18	G					YES	S
MON 500.19	G					YES	S
MON 501	G					YES	S
MON 501.1	G					YES	S
MON 501.2	G	R				YES	S
MON 501.3	G					YES	S
MON 501.4	G					YES	S
MON 501.5	G					YES	S
MON 501.6	G	R				YES	S
MON 501.7	G					YES	S
MON 501.8	G					YES	S
MON 501.9	G					YES	S
MON 501.10	G					YES	S
MON 501.11	G					YES	S
MON 502	F					YES	S
MON 502.1	G					YES	S
MON 502.2	G					YES	S
MON 502.3	G	R				YES	S
MON 502.4	G	R				YES	S
MON 502.5	G	R				YES	S
MON 502.6	G	R				YES	S
MON 502.7	G					YES	S
MON 502.8	G					YES	S
MON 502.9	G	R				YES	S
MON 502.10	G					YES	S
MON 502.11	G	R				YES	S
MON 502.12	G					YES	S
MON 502.13	G	R				YES	S
MON 502.14	P					NO	S
MON 502.15	G					NO	S
MON 502.16	G					NO	S
MON 502.17	G	R				NO	S
MON 502.18	G	R				NO	S

Highlands S.W. Section
(Quebec/New Hampshire)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 503	G					NO	S
MON 503.1	G	R				NO	S
MON 503.2	G					NO	S
MON 503.3	G	R				NO	S
MON 503.4	G					NO	S
MON 503.5	G	R				NO	S
MON 503.6	G					NO	S
MON 503.7	G					NO	S
MON 503.8	G					NO	S
MON 503.9	G	R				NO	S
MON 503.10	G	R				NO	S
MON 503.11	G					NO	S
MON 503.12	G					NO	S
MON 503.13	G	R				NO	S
MON 503.14	G	R				NO	S
MON 503.15	G	R				NO	S
MON 503.16	G	R				NO	S
MON 504	G					NO	S
MON 504.1	G	R				NO	S
MON 504.2	G					NO	S
MON 504.3	G					NO	S
MON 504.4	G					NO	S
MON 504.5	G					NO	S
MON 504.6	G					NO	S
MON 504.7	G					NO	S
MON 505	G					NO	S
MON 505.1	G					NO	S
MON 506	G					NO	S
MON 506.1	G		MI			NO	S
MON 506.2	G					NO	S
MON 506.3	G					NO	S
MON 507	G					NO	S

West Line (QC/VT)
(Quebec/Vermont)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 553-00	G	R				YES	
MON 558A	G					NO	
MON 558B	G					NO	
MON 563A	G					NO	
MON 564	G					NO	

***Lake Erie, Detroit and St. Clair Rivers
(Ontario/Michigan)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1-01	G			MP		YES	
MON 1	G		MA	MP		YES	
MON 2	G	R		MP		YES	S
MON 3	G	R		MP		YES	S
MON 3A	NR					NO	
MON 4A	G					YES	
MON 4	G	R				YES	S
RM 5-42	G			MP		YES	
MON 15A	NR					NO	
MON 15B	G					YES	
RM 16-81	G					YES	
RM 17-65	G					YES	
RM 18-81	G					YES	
RM 19-81	G					YES	
RM 20-81	G					YES	
RM 21-81	G					YES	
RM 50-42	G			MP		YES	
RM 58-42	G			MP		YES	

***Lake Huron, St. Mary's River and Lake Superior
(Ontario/Michigan)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 1	G			MP		YES	
RM 2	G			MP		YES	
RM 3	G			MP		YES	
RM 4	G			MP		YES	
RM 5	G			MP		YES	
RM 6	G			MP		YES	
RM 7	G			MP		YES	
RM 8	G			MP		YES	
RM 9	G			MP		YES	
RM 10	G			MP		YES	
RM 11	G			MP		YES	
RM 12	G			MP		YES	
RM 13	G		MA	MP		YES	
RM 14	G			MP		YES	
RM 15	G			MP		YES	
RM 16	G			MP		YES	
RM 17	G			MP		YES	

***Lake Huron, St. Mary's River and Lake Superior
(Ontario/Michigan)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 18	G			MP		YES	
RM 19	G			MP		YES	
RM 20	G			MP		YES	
RM 21	G			MP		YES	
RM 22	G			MP		YES	
RM 23	G		MI	MP		YES	
RM 24	G			MP		YES	
RM 25	G			MP		YES	
RM 26	G			MP		YES	
RM 27	G					NO	
RM 28	G			MP		YES	
RM 29	G			MP		YES	
RM 30	G			MP		YES	
RM 31-93	G			MP		YES	
RM 32	G			MP		YES	
RM 33	G			MP		YES	
RM 34	G			MP		YES	
RM 35-93	G			MP		YES	
TABLET EAST INTERNATIONAL BRIDGE	G					NO	
TABLET WEST INTERNATIONAL BRIDGE	G					YES	
RM 37	G			MP		YES	
RM 39	P			MP		YES	
RM 40-43	F			MP		YES	
RM 41	G			MP		YES	
RM 42-93	G			MP		YES	
RM 43-93	G					YES	

***Rainy River and Lake of the Woods
(Ontario/Minnesota)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM 84-68	G					NO	
RM 88-68	G					NO	

49th Parallel (MB/ND)
(Manitoba/North Dakota)

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 789	G					NO	S
MON 789A	G	R				NO	S
MON 790	G					NO	S
MON 790A	G					NO	S
MON 791	G					NO	S
MON 791A	G	R				NO	S
MON 791B	G	R				NO	S
MON 791C	G	R				NO	S
MON 792	G					NO	S
MON 792A	G	R				NO	S
MON 792B	G	R				NO	S
MON 793	G					NO	S
MON 793A	G	R				NO	S
MON 793B	G	R				NO	S
MON 794	G					NO	S
MON 794A	G	R				NO	S
MON 794B	G					NO	
MON 795	G					NO	S
MON 795A	G	R				NO	S
MON 796	G					NO	S
MON 827	G					NO	
MON 828	G					NO	
MON 829	G					NO	
MON 830	G					NO	

APPENDIX B – SUMMARY OF MAINTENANCE AND SURVEY WORK

Saint John River

(New Brunswick/Maine)

Reference Monuments recovered	286
Reference Monuments not recovered	65
Reference Monuments repaired or re-established	1
Reference Monuments painted	57
Reference Monuments surveyed	188

St. Francis River

(New Brunswick/Maine)

Reference Monuments recovered	9
Reference Monuments not recovered	1
Reference Monuments surveyed	5

Southwest and South Lines

(Quebec/Maine)

Monuments recovered	245
Monuments repaired or re-established	42
Monuments painted	45
Monuments surveyed	15

Southwest Branch of the St. John River

(Quebec/Maine)

Reference Monuments recovered	10
Reference Monuments painted	3
Reference Monuments surveyed	3

***Highlands N.E. Section
(Quebec/Maine)***

Monuments recovered	477
Monuments repaired or re-established	16
Monuments painted	1
Monuments surveyed	458
Line Marks recovered	2
Line Marks established	2
Line Marks surveyed	2

***Highlands S.W. Section
(Quebec/New Hampshire)***

Monuments recovered	146
Monuments repaired or re-established	35
Monuments surveyed	118

***West Line (QC/VT)
(Quebec/Vermont)***

Monuments recovered	5
Monuments repaired or re-established	1

***Lake Erie, Detroit and St. Clair Rivers
(Ontario/Michigan)***

Monuments recovered	6
Monuments not recovered	2
Monuments repaired or re-established	4
Monuments painted	3
Monuments surveyed	3
Reference Monuments recovered	10
Reference Monuments painted	4

***Lake Huron, St. Mary's River and Lake Superior
(Ontario/Michigan)***

Reference Monuments recovered	41
Reference Monuments repaired or re-established	2
Reference Monuments painted	39

***Rainy River and Lake of the Woods
(Ontario/Minnesota)***

Reference Monuments recovered	2
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***49th Parallel (MB/ND)
(Manitoba/North Dakota)***

Monuments recovered	24
Monuments repaired or re-established	10
Monuments surveyed	19

Vista clearing Total 201.1 km (125.05 mi)

Section 8 - Highlands S.W. Section (Mon 405 to Mon 507) (QC/ME, NH):

Three contracts, for a total length of 153 km (95 mi) of vista were cleared of trees and underbrush.

Section 20 - 49th Parallel (Mon 671 to Mon 832B) (MB/ND):

10.1km (6.25 mi) of vista were cleared of trees and underbrush.

Sections 24 and 25 - 49th Parallel (Columbia valley to Similkameen River) (Mon 43 to Mon 109) and 49th Parallel (Pacific to Columbia Valley) (Mon 0 to Mon 42) (BC/WA):

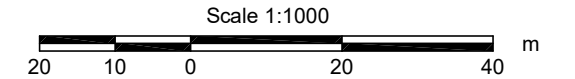
38 km (23.8 mi) of vista were cleared of trees and underbrush.

APPENDIX C – MONUMENTS RENEWED

ESTABLISHMENT OF LM 314-4A AND LM 314-5A
RENEWAL OF MON 314-5 AND MON 314-8
TRAVERSE NO. 1

IBC SECTION
Highlands N.E. Section

LOCATION
Saint-Zacharie, QC
Quebec/Maine



LEGEND

- Monument Found
- Monument Established or Renewed
- RIB&CAP Round Iron Bar & Alloy Cap (75 cm long x 2 cm diameter)
- RB&CAP Rock Bar & Alloy Cap (minimum length of 15 cm x 2 cm diameter grouted in drill hole)
- Traverse Line
- International Boundary
- R. Renewed
- ms Measured
- calc'd Calculated
- CSF Combined Scale Factor
- PSF Projection Scale Factor
- SPK 12" Spike
- Traverse Point

NOTES

All distances are in metres.
LM 314-4A is in line between MON 314-4 and MON 314-5.
LM 314-5A is in line between MON 314-5 and MON 314-6.

The renewed position of MON314-5 was calculated by adjusting the Green Book angles and distances between monuments 314-4 and 314-8 using the compass rule. The monument was then laid out from MON314-4 and SPK101 and the mean position was used.
MON314-8 was then set from MON314-7 and checks were made to MON314-9.

Bearings and distances shown are UTM Z19 grid, NAD83, Epoch 2010.0.
Ground distances may be calculated by dividing by the mean CSF.
Ellipsoid distances may be calculated by dividing by the mean PSF.
Ground distances are horizontal at general ground level.
Mean CSF = 0.9996421323
Mean PSF = 0.9997192070
Survey done on September 14, 2023.

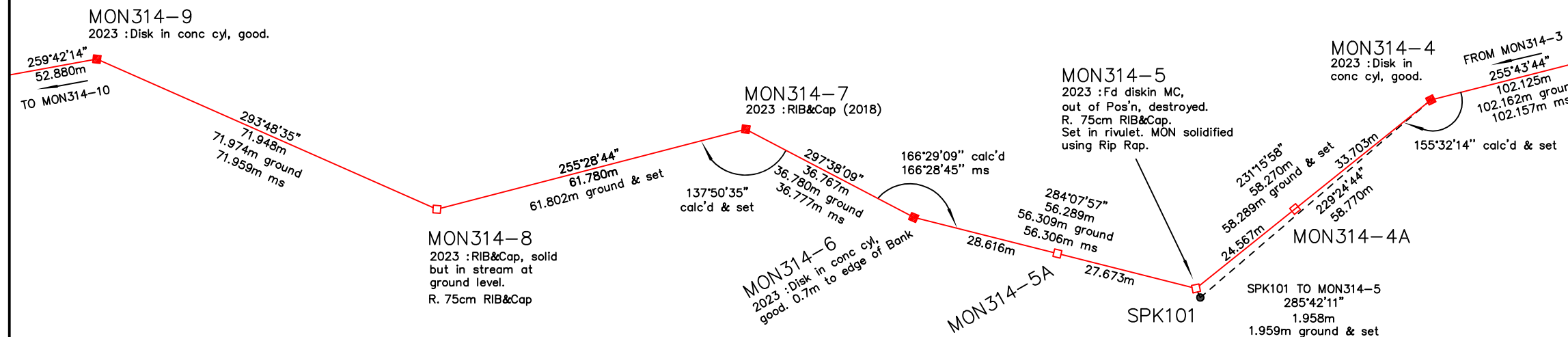
SURVEYED BY
Luc Robichaud



INTERNATIONAL BOUNDARY COMMISSION

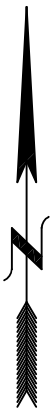
QUEBEC
CANADA

MAINE
UNITED STATES



QUEBEC
CANADA

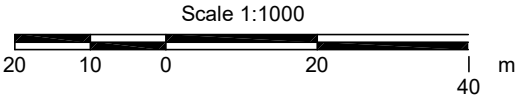
MAINE
UNITED STATES



RENEWAL OF MON 314-11
TRAVERSE NO. 1

IBC SECTION
Highlands N.E. Section

LOCATION
Saint-Zacharie, QC
Quebec/Maine



LEGEND

- Monument Found
- Monument Established or Renewed
- RIB&CAP Round Iron Bar & Alloy Cap (75 cm long x 2 cm diameter)
- RB&CAP Rock Bar & Alloy Cap (minimum length of 15 cm x 2 cm diameter grouted in drill hole)
- Traverse Line
- International Boundary
- R. Renewed
- ms Measured
- calc'd Calculated
- CSF Combined Scale Factor
- PSF Projection Scale Factor
- SPK 12" Spike
- Traverse Point

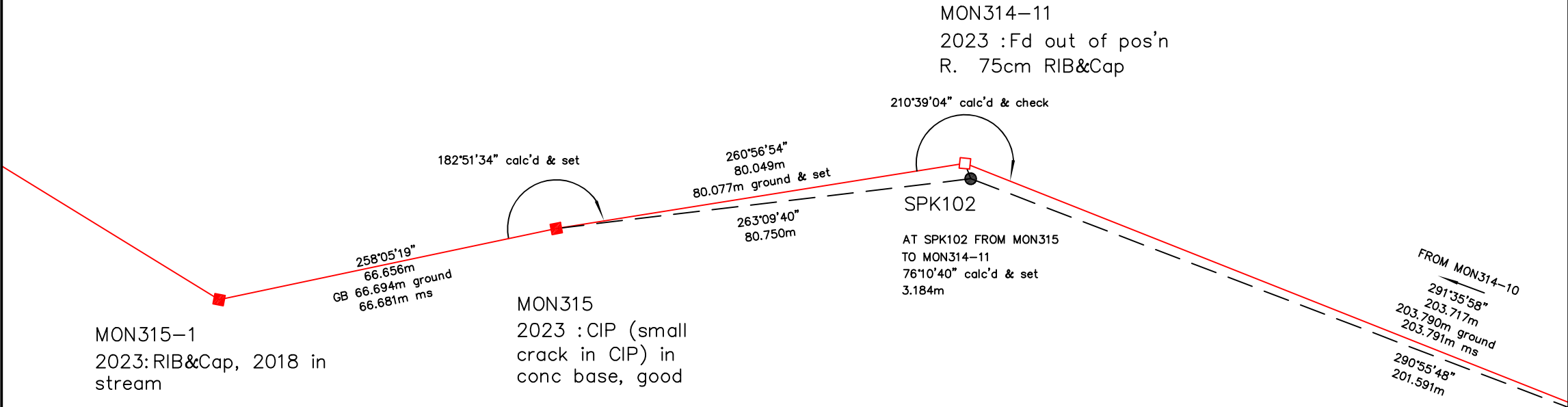
NOTES

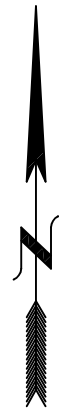
All distances are in metres.
The renewed position of MON314-11 was calculated by adjusting the Green Book angles and distances between monuments 315 and 314-10 using the compass rule. The monument was then laid out from MON315 and SPK102 and the mean position was used.
Bearings and distances shown are UTM Z19 grid, NAD83, Epoch 2010.0.
Ground distances may be calculated by dividing by the mean CSF.
Ellipsoid distances may be calculated by dividing by the mean PSF.
Ground distances are horizontal at general ground level.
Mean CSF = 0.9996421323
Mean PSF = 0.9997192070
Survey done on September 14, 2023.

SURVEYED BY
Luc Robichaud



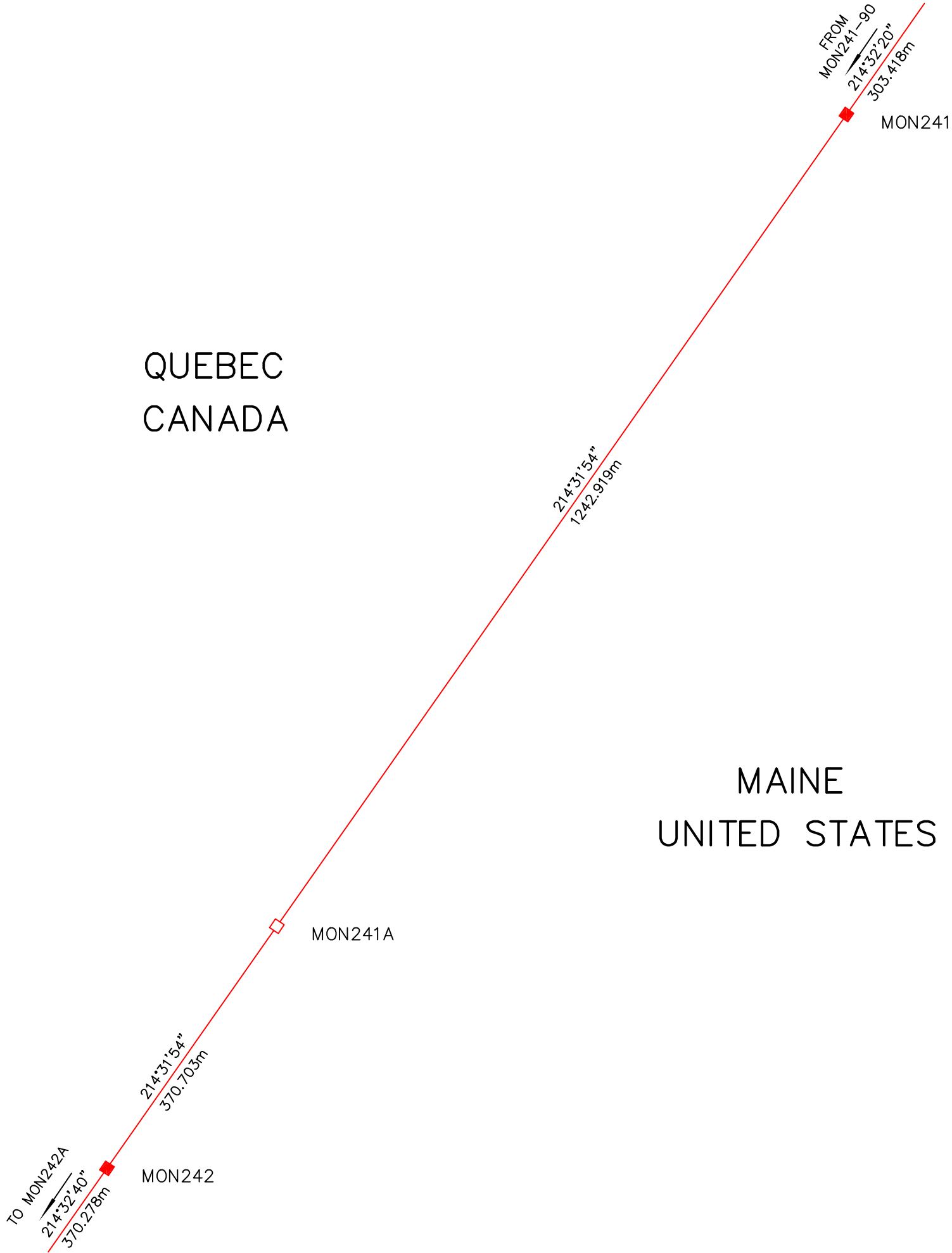
INTERNATIONAL BOUNDARY COMMISSION



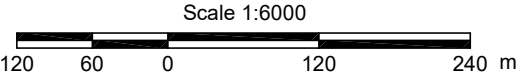


QUEBEC
CANADA

MAINE
UNITED STATES



**RENEWAL OF
MON 241A**
IBC SECTION
Southwest & South Lines
LOCATION
Saint-Pamphile, QC
Quebec / Maine



- LEGEND**
- Monument Found
 - Monument Established or Renewed
 - International Boundary

NOTES

MON 241A was renewed in line between MON 241 and MON 242. It was previously 0.286m off the line, on the canadian side of the boundary.

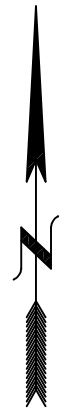
Distances shown are horizontal at general ground level and are expressed in metres and decimals thereof (except when shown otherwise). Geodetic azimuths are shown. All angles and distances are derived from GPS observations, NAD83(CSRS), Epoch 2010.0.

Survey done between July 26 and July 27, 2023.

SURVEYED BY
Etienne Michaud, Q.L.S.

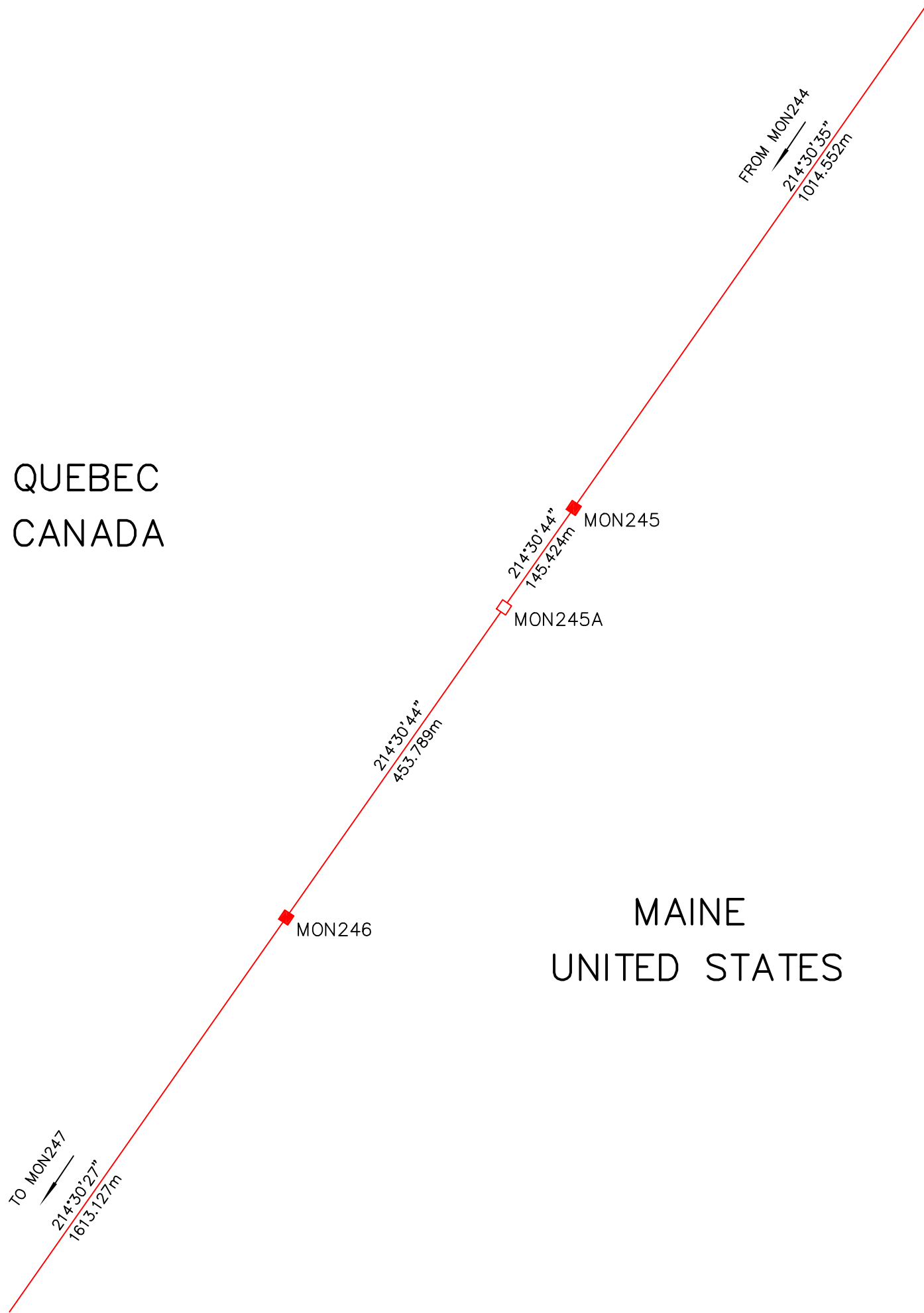


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QUEBEC
CANADA

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UNITED STATES



**RENEWAL OF
MON 245A**

IBC SECTION
Southwest & South Lines

LOCATION
Saint-Pamphile, QC
Quebec / Maine

Scale 1:6000



LEGEND

- Monument Found
- Monument Established or Renewed
- International Boundary

NOTES

MON 245A was renewed in line between MON 245 and MON 246. It was previously 0.107m off the line, on the canadian side of the boundary.

Distances shown are horizontal at general ground level and are expressed in metres and decimals thereof (except when shown otherwise). Geodetic azimuths are shown. All angles and distances are derived from GPS observations, NAD83(CSRS), Epoch 2010.0.

Survey done between July 25 and July 27, 2023.

SURVEYED BY
Etienne Michaud, Q.L.S.

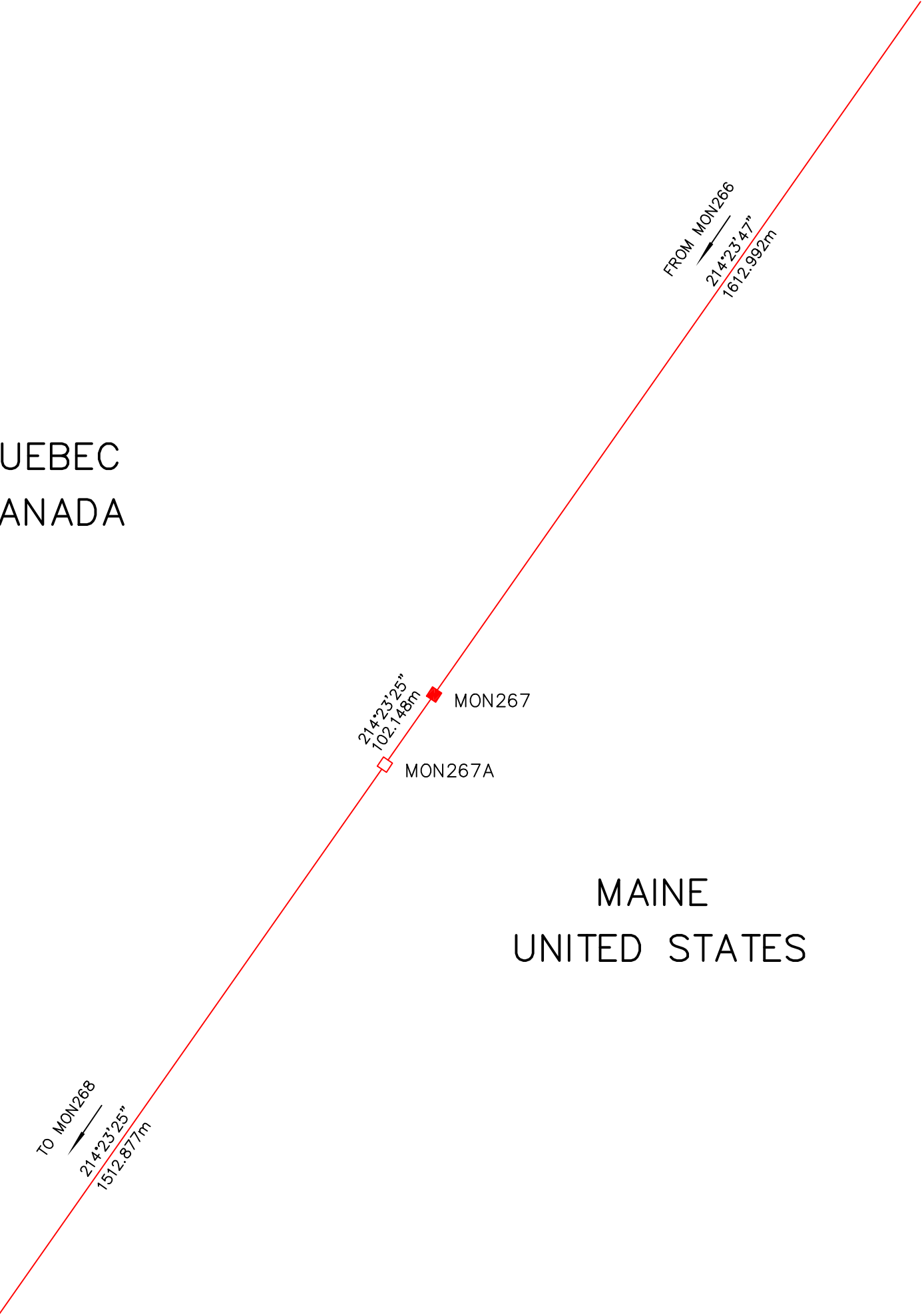


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QUEBEC
CANADA

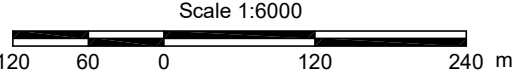
MAINE
UNITED STATES



**RENEWAL OF
MON 267A**

IBC SECTION
Southwest & South Lines

LOCATION
Saint-Adalbert, QC
Quebec / Maine



LEGEND

- Monument Found
- Monument Established or Renewed
- International Boundary

NOTES

MON 267A was renewed in line between MON 267 and MON 268. It was previously 0.062m off the line, on the american side of the boundary.

Distances shown are horizontal at general ground level and are expressed in metres and decimals thereof (except when shown otherwise). Geodetic azimuths are shown. All angles and distances are derived from GPS observations, NAD83(CSRS), Epoch 2010.0.

Survey done on July 12, 2023.

SURVEYED BY
Etienne Michaud, Q.L.S.



INTERNATIONAL BOUNDARY COMMISSION