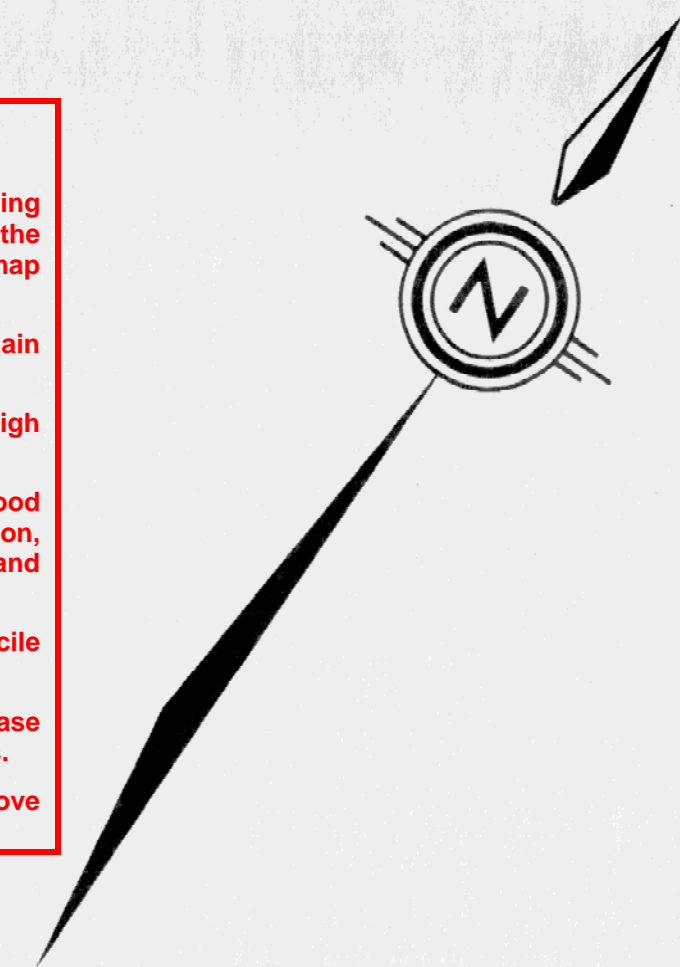




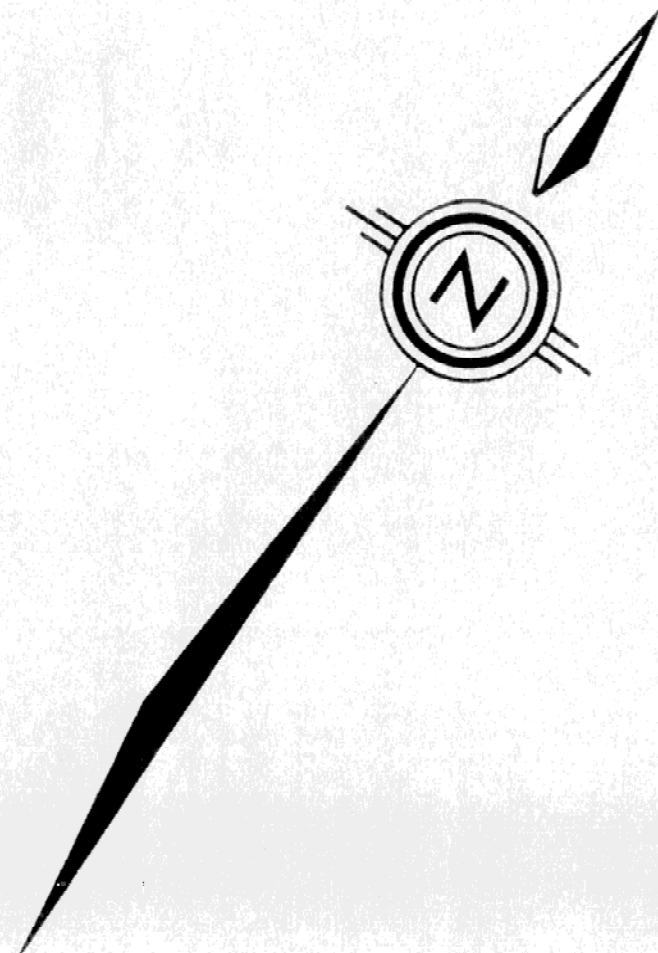
Use and Limitations of Floodplain Maps

- Users must note the dates of base mapping, aerial photography, river surveys and issues of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
- Floodplain maps are administrative tools which depict minimum flood elevations and floodplain boundaries. Flooding may occur outside of the designated floodplain boundary.
- Floodplain maps do not provide information on site-specific flood hazards such as, land erosion or high water velocity, sudden shifts in the channel of the watercourse, or alluvial and debris flow fan areas.
- Other sources of water, roads, railways or other barriers can restrict water flow and affect flood levels. As well, obstructions such as ice and debris, flooding in surrounding areas, channel deposition, groundwater or other phenomena can cause flood levels to exceed those indicated on the map. Land adjacent to a floodplain may be subject to flooding from tributary watercourses.
- Floodplain maps do not indicate or locate legal survey boundaries. A site survey is required to reconcile property location, ground elevations, and designated flood level information.
- The accuracy of the location of a floodplain boundary as shown on this map is limited by the base topography. It is generally assumed to be plus or minus one-half the increment of the ground contours.
- Professional assistance and detailed engineering analysis are required to address any of the above considerations.



SEE SHEET 3

NOTES		FLOODPLAIN DATA		LEGEND		KEY MAP		REVISIONS		ORTHOPHOTO MAPPING		Province of British Columbia		Ministry of Environment Water Management Branch		FILE No. 0305030-2	
Produced by: British Columbia Water Management Branch Floodplain Mapping Program		a) The Designated Flood has a statistical frequency of occurrence of once every 200 years. Floodplain Mapping Program.						No. DESCRIPTION DATE		DATE OF PHOTOGRAPHY JUNE 1982				FLOODPLAIN MAPPING BULKLEY & TELKWA RIVERS SMITHERS-TELKWA		SCALE 1:5000 NEGATIVE No. 260795 DRAWING No. 84-68-2	
Surveys: River survey done by Planning and Surveys Section, Water Management Branch, Project 78DC-18. a) Horizontal control based on provincial network. b) Vertical control based on Geodetic Survey of Canada (1968). [⊙ indicates Survey Monument]		c) Flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.						1. MONUMENT DATA ADDED SEPT. 1986		FLOODPLAIN STUDIES							
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 82-071. Air photography, June 1982. NAD 27. a) Contour Interval - 1 metre and greater; spot elevations shown to 0.1 metres with accuracy to 0.3 metres, except where noted. b) Grid origin referred to U.T.M. Projection Zone 9 (1975). c) Final Floodplain Map produced by Planning Subsection, Water Management Branch.		d) Floodplain limits assume the absence of all dykes.						2. MONUMENT DATA AND NOTES UPDATED. SEPT. 1982		TECHNICIAN <i>Smith</i>							
		e) Floodplain limits and flood levels include allowance for freeboard.								ENGINEER <i>Smith</i>							
		f) Position of floodplain boundary not established on the ground by legal survey.								ISSUE OF MAPPING							
		g) Floodplain limits are not delineated for side streams and tributaries.						DATE DEC. 1984		Measurement, Section Head <i>Smith</i>		Approved, Deputy Minister <i>Smith</i>		SHEET 2 of 8			
		h) Areas within the floodplain limit having an elevation above the computed flood level are subject to possible flooding from overflow of upstream banks.															



Use and Limitations of Floodplain Maps

- Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain, or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
- Floodplain maps are administrative tools which depict minimum flood elevations and floodplain boundaries. Flooding may occur outside of the designated floodplain boundary.
- Floodplain maps do not provide information on site-specific flood hazards such as, land erosion or high water velocity, sudden shifts in the channel of the watercourse, or alluvial and debris flow fan areas.
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- Floodplain maps do not indicate or locate legal survey boundaries. A site survey is required to reconcile property location, ground elevations, and designated flood level information.
- The accuracy of the location of a floodplain boundary as shown on this map is limited by the base topography. It is generally assumed to be plus or minus one-half the ground contours.
- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

NOTES

Produced by: British Columbia Water Management Branch
Floodplain Mapping Program.

Survey: River survey done by Planning and Surveys Section,
Water Management Branch, Project 78F00-18.
a) Horizontal control carried on provincial
network.
b) Vertical control based on Geodetic Survey of
Canada (1968). (● Indicates Survey Monument.)

Mapping: Base mapping done by Map Production Division, Surveys and
Metric Mapping Branch, Project 82-071, photogrammetry, June 1982. MAD 27
a) Contour interval = 1 metre and greater; spot elevations shown
to 0.1 metres, with accuracy to ± 0.2 metres, except where noted
b) Grid or planimetric map with Projection Zone 9 (1979).
Final Floodplain Mapping produced by Planning Subsection,
Water Management Branch.

FLOODPLAIN DAT.

- The Designated Flood has a statistical frequency of occurrence of once every 200 years.
- Flood levels were computed using a standard step method modeling technique, assuming open water flow conditions.
- Floodplain limits assume the absence of all dykes.
- Floodplain limits and flood levels include allowance for freeboard.
- Position of floodplain boundary not established on the ground by legal survey.
- Floodplain limits are not delineated for side streams and tributaries.
- Required setback of buildings from the natural boundaries of lakes and watercourses to the east of the project area, and the floodplain boundary, is not shown. This information is available either through local municipalities or the Ministry of Environment.
- Areas within the floodplain limit having an elevation above the computed flood level are subject to possible flooding from overbank stream bank.

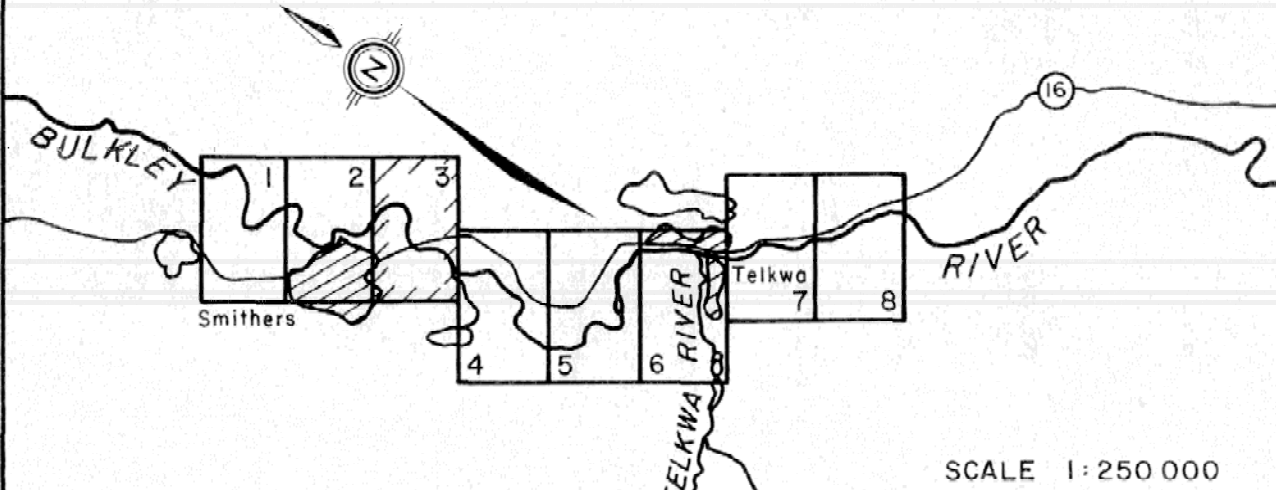
LEGEND

DESIGNATED
FLOODPLAIN
LIMIT

FLOOD LEVEL

200 Year Frequency
20 Year Frequency
freeboard included)

KEY




REVIS

No.	DESCRIPTION	DATE
1.	MONUMENT DATA ADDED	SEPT. 1968
2.	MONUMENT DATA AND NOTES UPDATED.	SEPT. 1970

DATE OF PHOTOGRAPHY
JUNE 1982

FLOODPLAIN STUDIES
TECHNICIAN
J. J. Danks

ISSUE OF MAPPING


 Province of British Columbia
 Ministry of Environment
 Water Management Branch

FLOODPLAIN MAPPING
BULKLEY & TELKWA RIVE
SMITHERS - TELKWA

100 50 0 100 200 300 400
Scale in metres

FILE No. _____

030

SCALE

1:50

NEGATIVE N

20
DRAWING NO.

84-

SHEET



SEE SHEET 5

Use and Limitations of Floodplain Maps

- Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
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- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

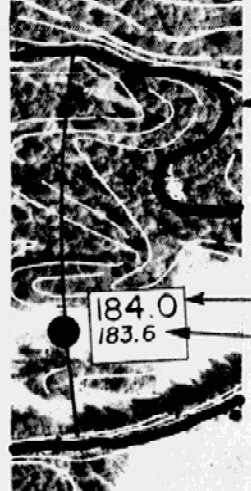
NOTES

Produced by: British Columbia Water Management Branch
Survey: River survey done by Planning and Surveys Section, Water Management Branch, Project 78FDC-18.
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 82-071. Air photography, June 1982. NAD 27.
a) Contour interval = 1 metre and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.3 metres, except where noted.
b) Grid origin referred to U.T.M. Projection Zone 9 (1973).
Final Floodplain Mapping produced by Planning Subsection, Water Management Branch.

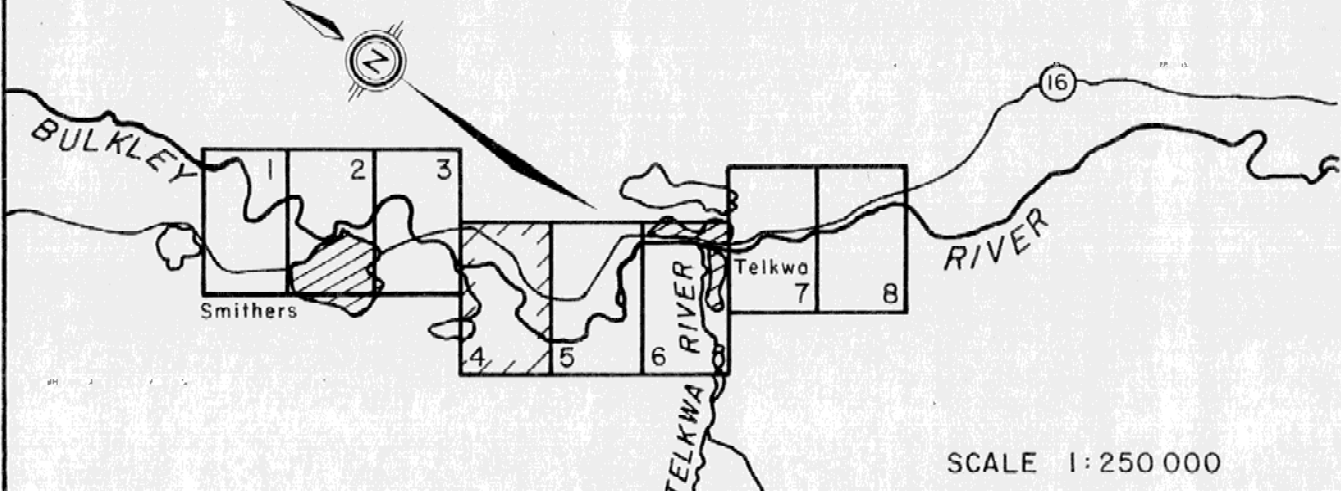
FLOODPLAIN DATA

- The Designated Flood has a statistical frequency of occurrence of once every 200 years.
- Flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.
- Floodplain limits assume the absence of all dykes.
- Floodplain limits and flood levels include allowance for freeboard.
- Position of floodplain boundary not established on the ground by legal survey.
- Floodplain limits are not delineated for side streams and tributaries.
- Required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion are not shown. This information is available either through local municipalities or the Ministry of Environment.
- Areas within the floodplain limit having an elevation above the computed flood level are subject to possible flooding from overflow of upstream banks.

LEGEND



KEY MAP



REVISIONS

No.	DESCRIPTION	DATE
1.	MONUMENT DATA ADDED	SEPT 1986
2.	MONUMENT DATA AND NOTES UPDATED.	SEPT. 1992

ORTHOPHOTO MAPPING

DATE OF PHOTOGRAPHY
JUNE 1982
FLOODPLAIN STUDIES
TECHNICIAN
ENGINEER
ISSUE OF MAPPING
DATE DEC. 1984



Province of British Columbia
Ministry of Environment
Water Management Branch

FLOODPLAIN MAPPING
BULKLEY & TELKWA RIVERS
SMITHERS - TELKWA

Scale: 1:5000
Negative No.: 260797
Drawing No.: 84-68-4
Sheet: 4 of 8

FILE No

0305030-2

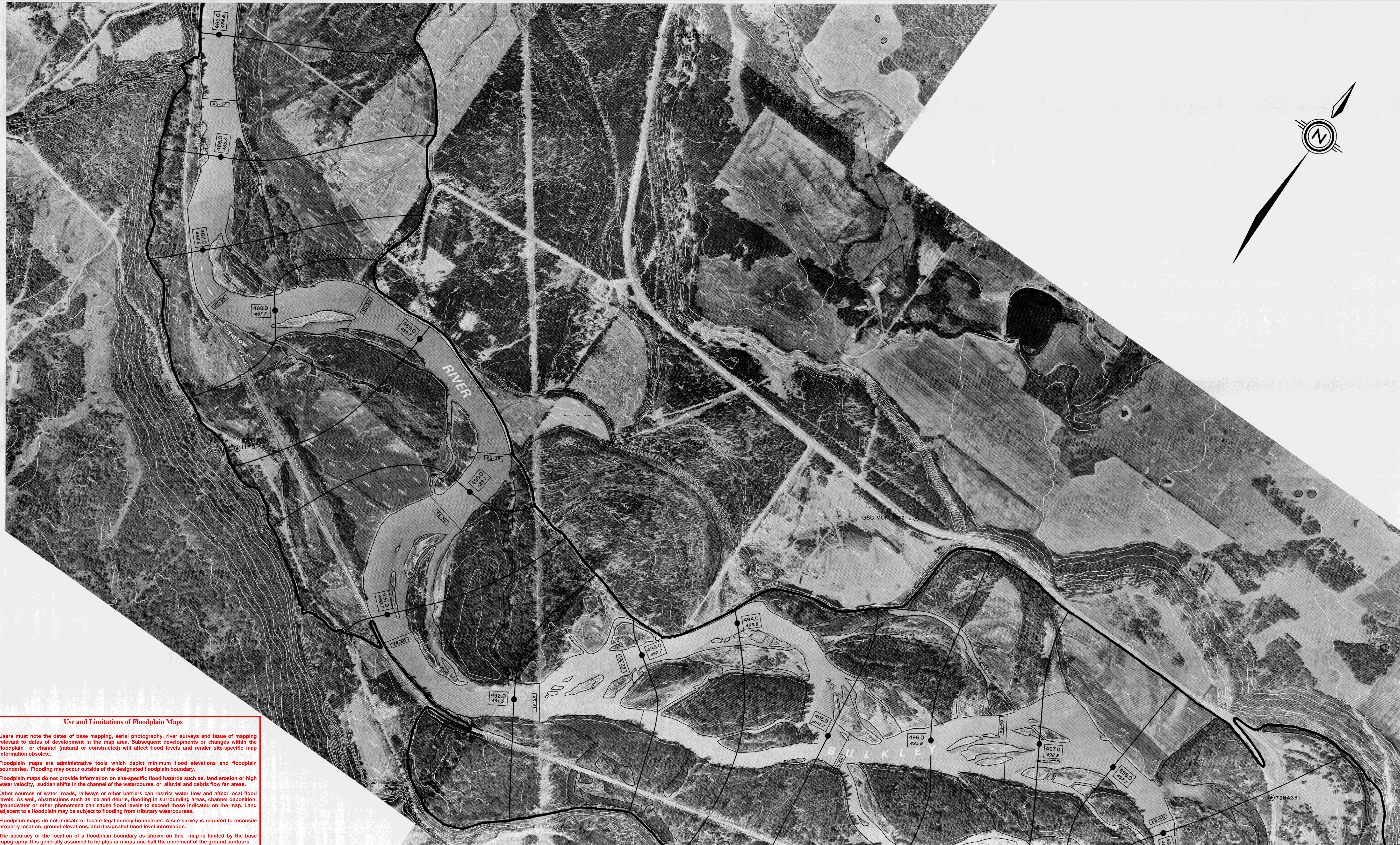
SCALE

1:5000

260797

84-68-4

SHEET 4 of 8



SEE SHEET 6

Use and Limitations of Floodplain Maps

- Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
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- The accuracy of the location of a floodplain boundary as shown on this map is limited by the base topography. It is generally assumed to be plus or minus one-half the increment of the ground contours.
- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

NOTES

Produced by: British Columbia Water Management Branch
Floodplain Mapping Program.

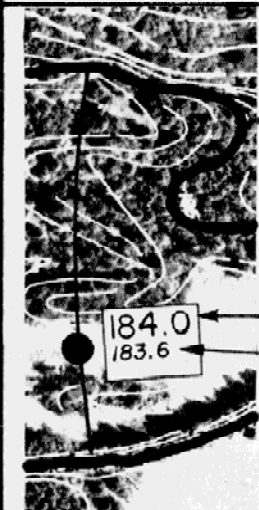
Survey: River survey done by Planning and Surveys Section, Water Management Branch, Project 78700-10.
a) Horizontal control based on provincial network.
b) Vertical control based on Geodetic Survey of Canada (1968) [Indicates Survey Monument]

Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 82-071. Air photography, June 1982, NAD 27.
a) Contour interval - 1 metre and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.3 metres, except where noted.
b) Grid origin referred to U.T.M. Projection Zone 9 (1975).
Final Floodplain Mapping produced by Planning Subsection, Water Management Branch.

FLOODPLAIN DATA

- The Designated Flood has a statistical frequency of occurrence of once every 200 years.
- Flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.
- Floodplain limits assume the absence of all dykes.
- Floodplain limits and flood levels include allowance for freeboard.
- Position of floodplain boundary not established on the ground by legal survey.
- Floodplain limits are not delineated for side streams and tributaries.
- Required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion are not shown. This information is available either through local municipalities or the Ministry of Environment.
- Areas within the floodplain limit having an elevation above the computed flood level are subject to possible flooding from overflow of upstream banks.

LEGEND



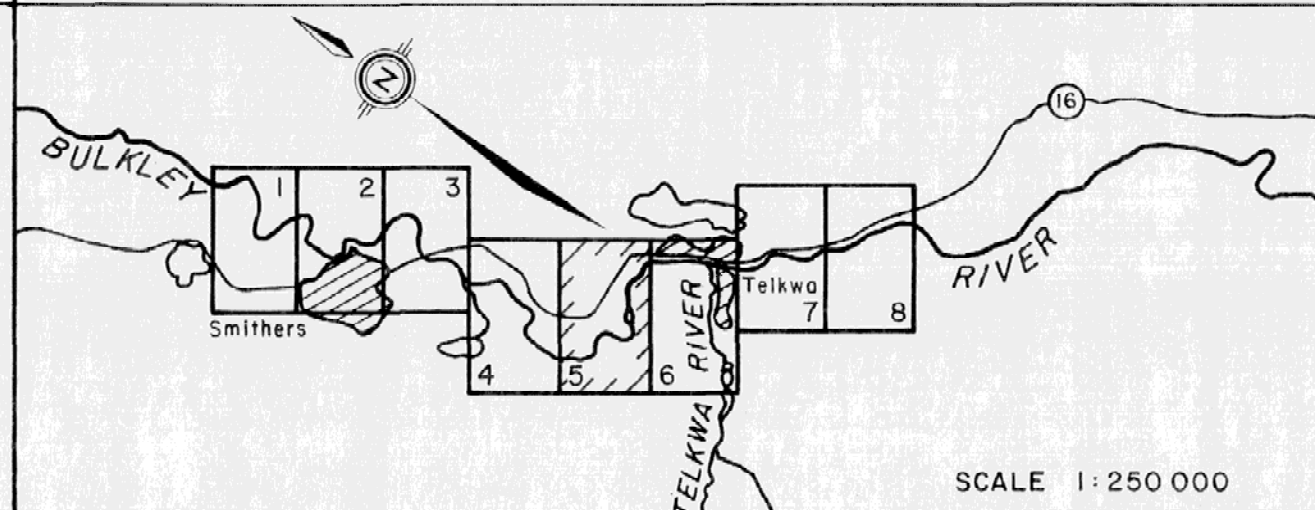
DESIGNATED FLOODPLAIN LIMIT

FLOOD LEVEL

200 Year Frequency

20 Year Frequency (freeboard included)

KEY MAP



SCALE 1:250 000

REVISIONS

No.	DESCRIPTION	DATE
1.	MONUMENT DATA ADDED	SEPT. 1986
2.	MONUMENT DATA AND NOTES UPDATED.	SEPT. 1992

ORTHOPHOTO MAPPING

DATE OF PHOTOGRAPHY
JUNE 1982

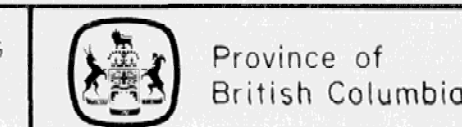
FLOODPLAIN STUDIES

TECHNICIAN
Bohlenki

ENGINEER
Reid

ISSUE OF MAPPING

DATE
DEC. 1984



FLOODPLAIN MAPPING

BULKLEY & TELKWA RIVERS

SMITHERS - TELKWA

Recommended, Section Head *G. Watts* Approved, Deputy Minister *G. Watts*

FILE No

0305030-2

SCALE

1:5000

NEGATIVE No.

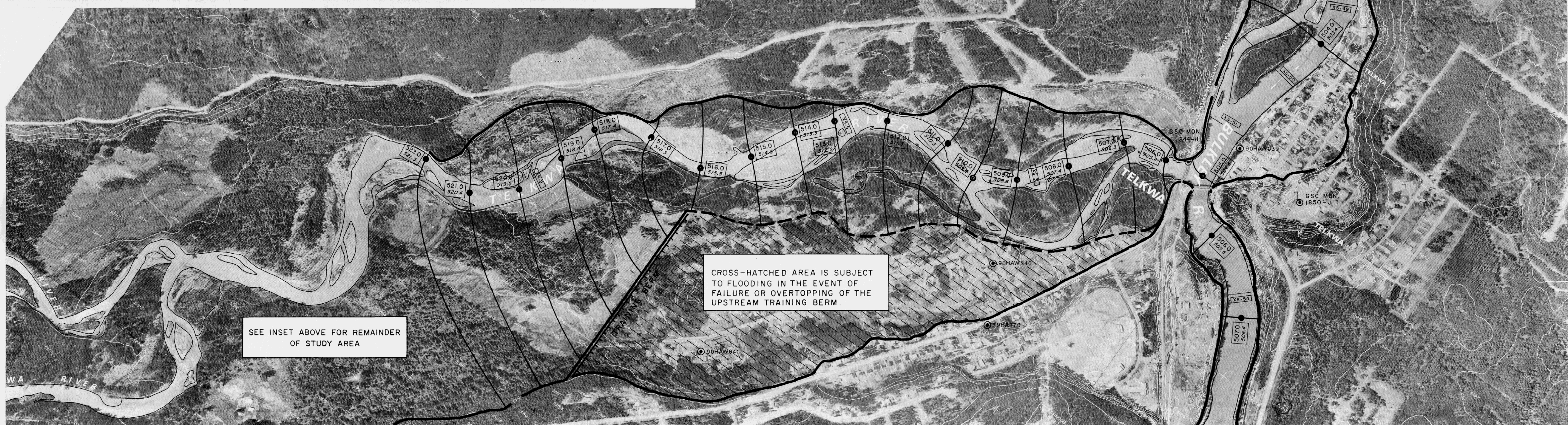
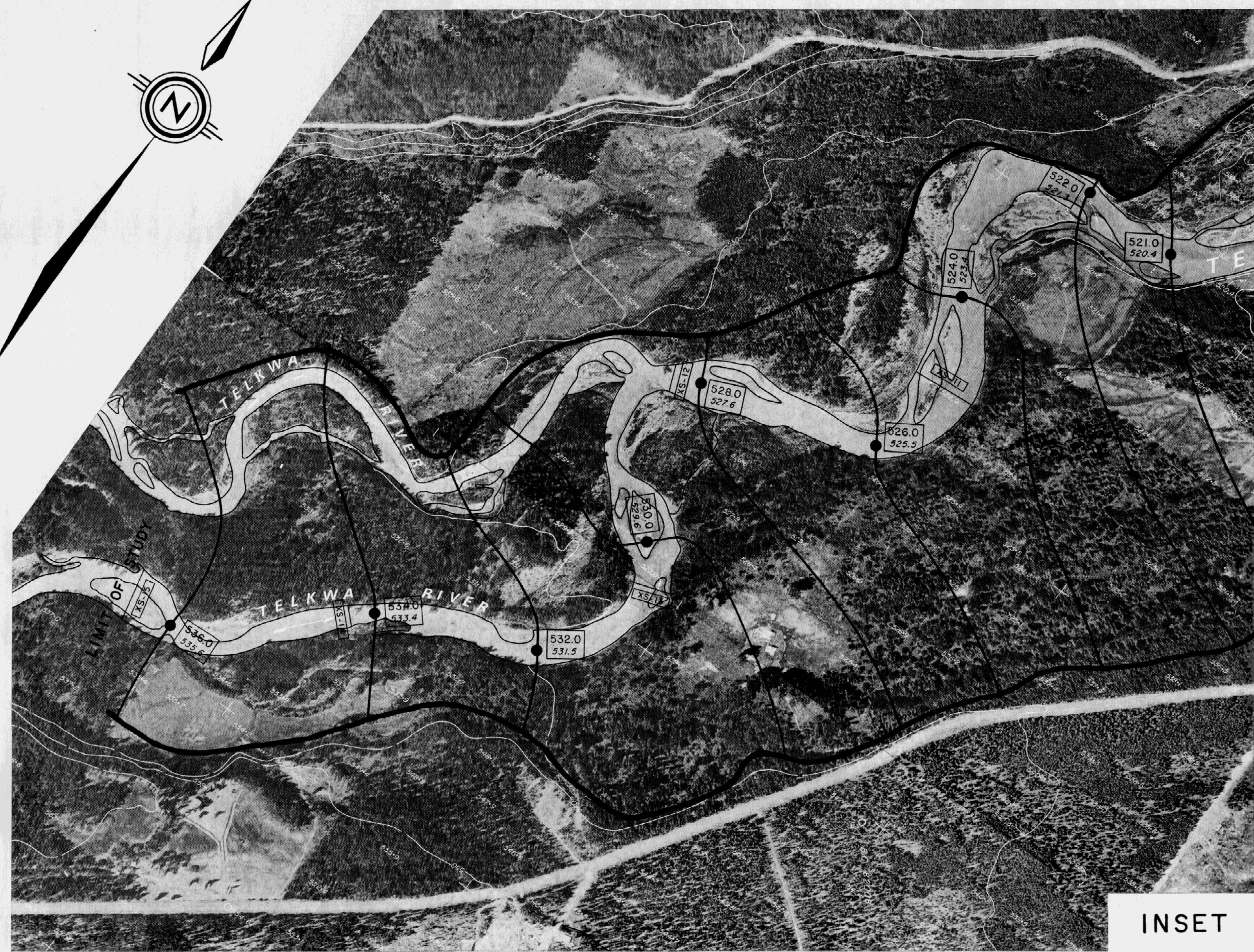
260798

DRAWING No.

84-68-5

SHEET

5 of 8



SEE SHEET 7

NOTES

Produced by: British Columbia Water Management Branch
Floodplain Mapping Program.

Survey: River survey done by Planning and Surveys Section, Water Management Branch, Project 78FDC-18.

a) Horizontal control based on provincial network.
b) Vertical control based on Geodetic Survey of Canada (1968). [●] Indicates Survey Monument

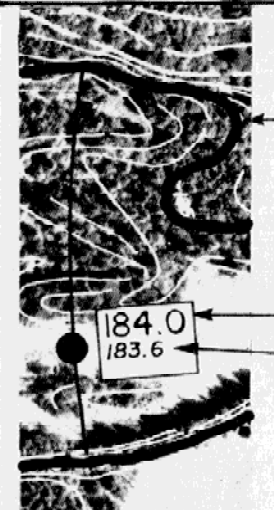
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 82-071. Air photography, June 1982. NAD 27.

a) Contour interval = 1 metre and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.3 metres, except where noted.
b) Grid origin referred to U.T.M. Projection Zone 9 (1975).
Final Floodplain Mapping produced by Planning Subsection, Water Management Branch.

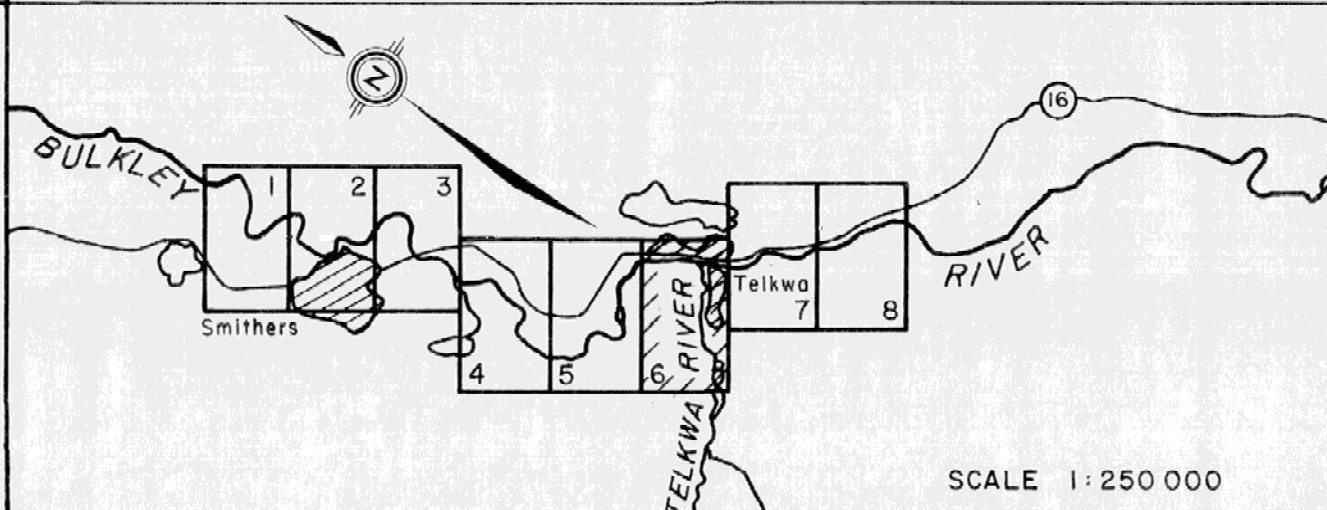
FLOODPLAIN DATA

- a) The Designated Flood has a statistical frequency of occurrence of once every 200 years.
- b) Flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.
- c) Floodplain limits assume the absence of all dykes.
- d) Floodplain limits and flood levels include allowance for freeboard.
- e) Position of floodplain boundary not established on the ground by legal survey.
- f) Floodplain limits are not delineated for side streams and tributaries.
- g) Required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion are not shown. This information is available either through local municipalities or the Ministry of Environment.
- h) Areas within the floodplain limit having an elevation above the computed flood level are subject to possible flooding from overflow of upstream banks.

LEGEND



KEY MAP



REVISIONS

No.	DESCRIPTION	DATE
1.	MONUMENT DATA ADDED	SEPT 1986
2.	MONUMENT DATA AND NOTES UPDATED.	SEPT. 1992

ORTHOPHOTO MAPPING

DATE OF PHOTOGRAPHY
JUNE 1982

FLOODPLAIN STUDIES
TECHNICIAN
ENGINEER

ISSUE OF MAPPING
DATE DEC. 1984

Province of British Columbia
Ministry of Environment
Water Management Branch

FLOODPLAIN MAPPING
BULKLEY & TELKWA RIVERS
SMITHERS - TELKWA

Recommended:
Section Head

Approved:
Deputy Minister

FILE No

0305030-2

SCALE
1:5000

NEGATIVE No.
260799

DRAWING No.
84-68-6

SHEET
6 of 8



SEE SHEET 8

Use and Limitations of Floodplain Maps

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- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

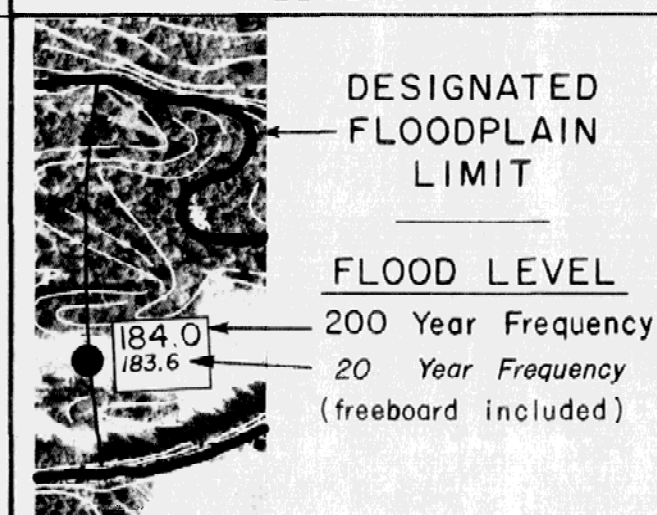
NOTES

Produced by: British Columbia Water Management Branch
Survey: River survey done by Planning and Surveys Section, Water Management Branch, Project 76FDG-18.
a) Horizontal control based on provincial network.
b) Vertical control based on Geodetic Survey of Canada (1966). [● indicates Survey Monument]
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 82-071. Air photography, June 1982. NAD 27.
a) Contour interval = 1 metre and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.3 metres, except where noted.
b) Grid origin referred to U.T.M. Projection zone 9 (1973).
Final Floodplain Mapping produced by Planning Subsection, Water Management Branch.

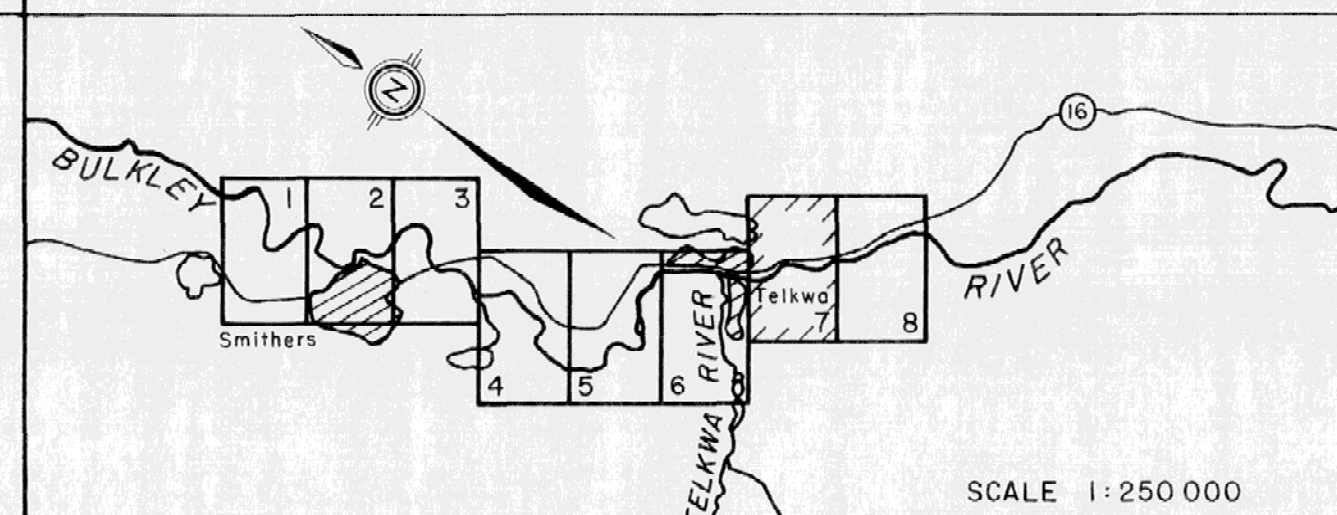
FLOODPLAIN DATA

- The Designated Flood has a statistical frequency of occurrence of once every 200 years.
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- Floodplain limits assume the absence of all dykes.
- Floodplain limits and flood levels include allowance for freeboard.
- Position of floodplain boundary not established on the ground by legal survey.
- Floodplain limits are not delineated for side streams and tributaries.
- Required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion are not shown. This information is available either through local municipalities or the Ministry of Environment.
- Areas within the floodplain limit having an elevation above the computed flood level are subject to possible flooding from over flow of upstream banks.

LEGEND



KEY MAP

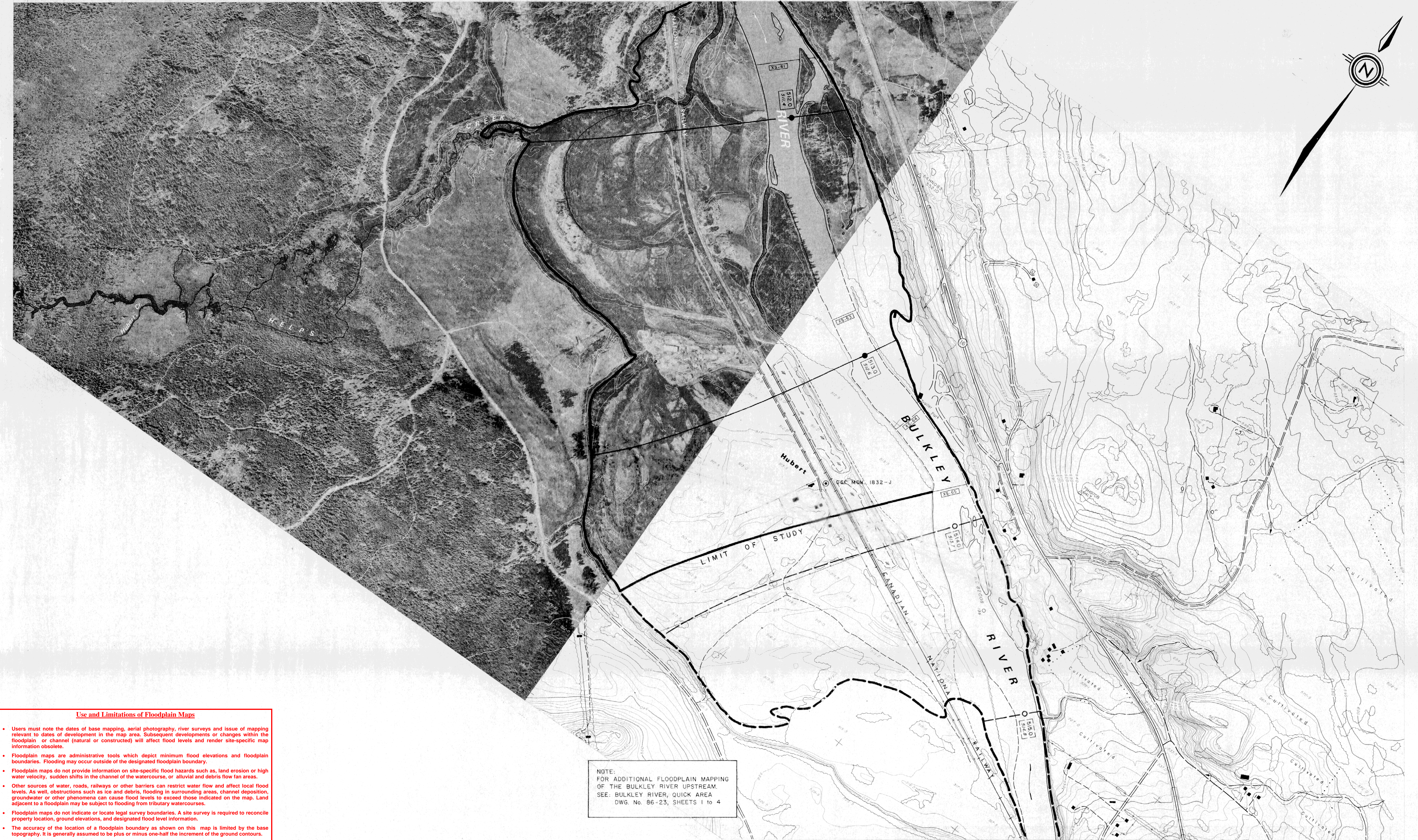


REVISIONS

No.	DESCRIPTION	DATE
1.	MONUMENT DATA ADDED	SEPT. 1986
2.	MONUMENT DATA AND NOTES UPDATED	SEPT. 1992

ORTHOPHOTO: MAPPING
DATE OF PHOTOGRAPHY
JUNE 1982
FLOODPLAIN STUDIES
TECHNICIAN
20th Century
ENGINEER
R. J. J. J.
ISSUE OF MAPPING
DATE
DEC. 1984

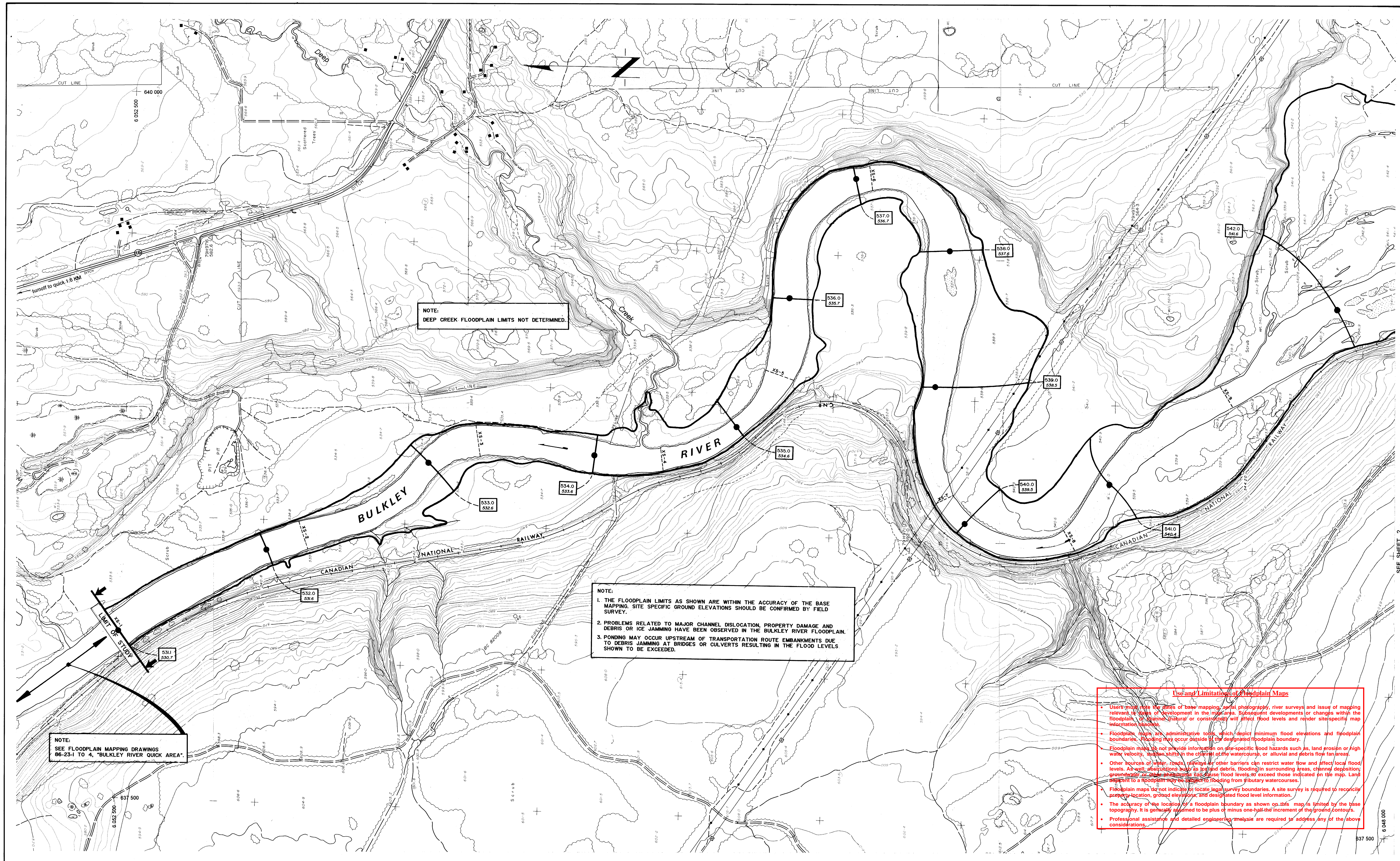
	Province of British Columbia	Ministry of Environment Water Management Branch	FILE No. 0305030-2
FLOODPLAIN MAPPING BULKLEY & TELKWA RIVERS SMITHERS - TELKWA			SCALE 1:5000
NEGATIVE No. 260800			DRAWING No. 84-68-7
SHEET 7 of 8			



- Use and Limitations of Floodplain Maps**
- Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
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NOTE:
FOR ADDITIONAL FLOODPLAIN MAPPING
OF THE BULKLEY RIVER UPSTREAM.
SEE: BULKLEY RIVER, QUICK AREA
DWG. No. 86-23, SHEETS 1 to 4

NOTES		FLOODPLAIN DATA		LEGEND	KEY MAP	REVISIONS		ORTHOPHOTO MAPPING	Province of British Columbia Ministry of Environment Water Management Branch		FILE No.					
Produced by: British Columbia Water Management Branch Floodplain Mapping Program.		a) The Designated Flood has a statistical frequency of occurrence of once every 200 years.				No. 1. MONUMENT DATA ADDED. 2. MONUMENT DATA AND NOTES UPDATED.	DATE SEPT. 1988 SEPT. 1992	DATE OF PHOTOGRAPHY JUNE 1982		FLOODPLAIN MAPPING BULKLEY & TELKWA RIVERS SMITHERS - TELKWA	0305030-2					
Survey: River survey done by Planning and Surveys Section, Water Management Branch, Project 76PDG-18. a) Horizontal control based on provincial network. b) Vertical control based on Geodetic Survey of Canada (1968). [● indicates Survey Monument]		b) Flood levels were computed using a standard step method modelling technique, assuming open water flow conditions. c) Floodplain limits assume the absence of all dykes. d) Floodplain limits and flood levels include allowance for freeboard. e) Position of floodplain boundary not established on the ground by legal survey. f) Floodplain limits are not delineated for side streams and tributaries.														
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 82-071. Air photography, June 1982. NAD 27. a) Contour interval - 1 metre and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.2 metres, except where noted. b) Grid origin referred to U.T.M. Projection Zone 9 (1975). Final Floodplain Mapping produced by Planning Subsection, Water Management Branch.		g) Required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion are not shown. This information is available either through local municipalities or the Ministry of Environment. h) Areas within the floodplain limit having an elevation above the computed flood level are subject to possible flooding from overflow of upstream banks.				FLOODPLAIN STUDIES TECHNICIAN <i>Bob Kanki</i> ENGINEER <i>R. W. D. L.</i>										
						ISSUE OF MAPPING DATE DEC. 1984			Scale in metres 100 200 300 400 500 Recommended Section Head <i>G. L. L.</i> Approved, Deputy Minister <i>H. W. L.</i>		SCALE 1:5000 NEGATIVE No. 260801 DRAWING No. 84-68-8 SHEET 8 of 8					



NOTES		FLOODPLAIN DATA		LEGEND		KEY MAP		REVISIONS		ISSUE OF MAPPING		ENVIRONMENT CANADA INLAND WATERS		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT, LANDS & PARKS COLUMBIE-BRITANNIQUE MINISTÈRE DE L'ENVIRONNEMENT		CANADA BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT L'ACCORD CANADA COLUMBIE-BRITANNIQUE SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION		FILE NO. 35100-30/460-0000		N.T.S. MAP NO. 93 L		SCALE 1:5000		NEGATIVE NO.		DRAWING NO. REV. 96-10-1		SHEET 1 of 6	
Produced by British Columbia Ministry of Environment, Lands & Parks Resource Inventory and Data Management Branch, Floodplain Mapping Program. Survey: River survey done by Ministry of Environment, Lands & Parks Resource Inventory and Data Management Branch, Water Services Unit/Operations Group/Arctic Inventory Section Project 82/11, NAD 83 a) National control based on provincial controls. b) Elevations are to terrain and are referred to Canadian Survey of Canada datum (© Indian Survey Measurement) Mapping: Data mapping done by Land Department, Geographic Data BC, Operations Section, Project 82/11, NAD 83 Air photography June 1982. c) Contour interval 2 metres and greater, with spot contours shown as 10 metres, with a specified interval of 1.0 metre, contour interval used. Contour Geographic Data BC for further details on how mapping specifications. d) Grid origin referred to U.T.M. Projection Zone 9.		1. The floodplain areas as depicted on this map have been interim designated pursuant to the Canada/British Columbia Floodplain Mapping Agreement (1988) by the Minister of the Environment for Canada and the Minister of ENVIRONMENT, LANDS & PARKS. Floodplain may still occur outside of the interim designated floodplain areas. The Ministers do not assume any liability by reason of the interim designation or failure to inter in designate areas on this map. 2. The designated flood has a statistical frequency of occurrence of once every 200 years. 3. The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions. 4. The floodplain limits assume the absence of all dikes. 5. The floodplain limits and flood levels include an allowance for freeboard. 6. The floodplain limits are not established on the ground by legal survey. 7. The floodplain limits are not delineated for side streams and tributaries. 8. The required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is available either through local municipalities or the Ministry of ENVIRONMENT, LANDS & PARKS.		DESIGNATED FLOODPLAIN LIMIT FLOOD LEVEL (Freeboard included) 200 Year Frequency 20 Year Frequency (G.S.C. DATUM)		Scale 1:250 000		No. DESCRIPTION DATE		DATE September 30, 1998		DRAWN CHECKED RIVER SURVEY MP DESIGNED BB		FLOODPLAIN MAPPING BULKLEY RIVER QUICK TO HOUSTON SCALE 1:5000		RECOMMENDED R.W.		APPROVED											

Use and Limitations of Floodplain Maps

- Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
- Floodplain maps are administrative tools which depict minimum flood elevations and floodplain boundaries. Flooding may occur outside of the designated floodplain boundary.
- Floodplain maps do not provide information on site-specific flood hazards such as, land erosion or high water velocity, sudden shifts in the channel of the waterway, or channel and debris flow hazards.
- Other sources of water, roads, railways or other barriers can restrict water flow and affect local flood levels. As well, obstructions such as ice and debris jamming in surrounding areas, channel deposition, levees or other phenomena can cause flood levels to exceed those indicated on the map. Land adjacent to a floodplain may be subject to flooding from tributary watercourses.
- Floodplain maps do not indicate or locate legal survey boundaries. A site survey is required to reconcile property location, ground elevations, and designated flood level information.
- The accuracy of the location of a floodplain boundary as shown on this map is limited by the base topography. It is generally assumed to be plus or minus one-half the increment of the ground contours.
- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

NOTE:

1. THE FLOODPLAIN LIMITS AS SHOWN ARE WITHIN THE ACCURACY OF THE BASE MAPPING. SITE SPECIFIC GROUND ELEVATIONS SHOULD BE CONFIRMED BY FIELD SURVEY.
2. PROBLEMS RELATED TO MAJOR CHANNEL DISLOCATION, PROPERTY DAMAGE AND DEBRIS OR ICE JAMMING HAVE BEEN OBSERVED IN THE BULKLEY RIVER FLOODPLAIN.
3. PONDING MAY OCCUR UPSTREAM OF TRANSPORTATION ROUTE EMBANKMENTS DUE TO DEBRIS JAMMING AT BRIDGES OR CULVERTS RESULTING IN THE FLOOD LEVELS SHOWN TO BE EXCEEDED.

NOTE:

VALLEE CREEK FLOODPLAIN LIMITS NOT DETERMINED.

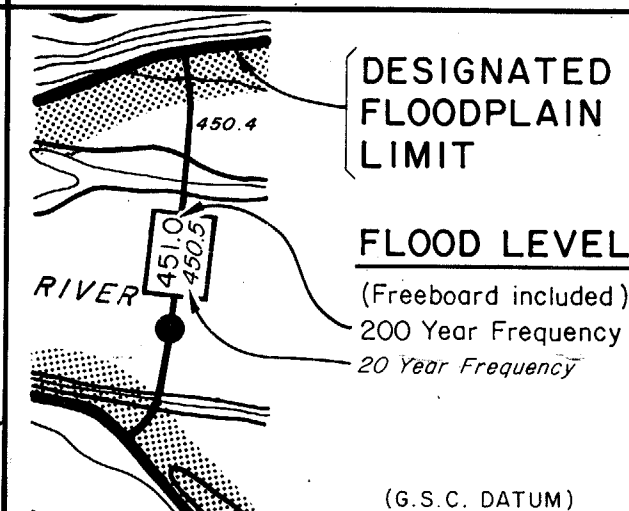
NOTES

Produced by: British Columbia Ministry of Environment, Lands & Parks
Resource Inventory and Data Management Branch
Floodplain Mapping Program
River survey done by Ministry of Environment, Lands & Parks
Resource Inventory and Data Management Branch
Water Survey of Canada Operations Group Aquatic Inventory Section
Project No. 30-000
Maping: Base mapping done by Lands Department, Geographic Data BC, Operations Section, Project R2471, NAD 27
All photography June 1982
a) Contour interval 2 metres and greater, with spot elevations shown to 1 metre, with a specified accuracy of ± 0.5 metres, except where noted.
b) Contour interval 1 metre and less, with spot elevations shown to 0.5 metres, with a specified accuracy of ± 0.25 metres, except where noted.
c) Grid origin referred to U.T.M. Projection Zone 9.

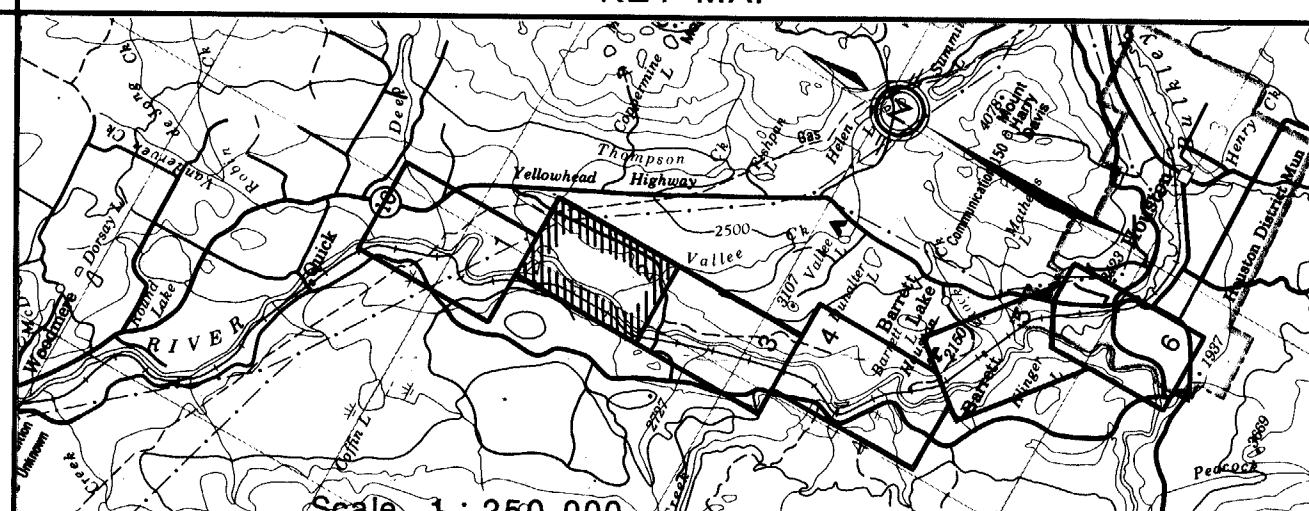
FLOODPLAIN DATA

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2. The Designated Flood has a statistical frequency of occurrence of once every 200 years.
3. The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.
4. The floodplain limits assume the absence of all dykes.
5. The floodplain limits and flood levels include an allowance for freeboard.
6. The floodplain limits are not established on the ground by legal survey.
7. The floodplain limits are not delineated for tide streams and tributaries.
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LEGEND



KEY MAP



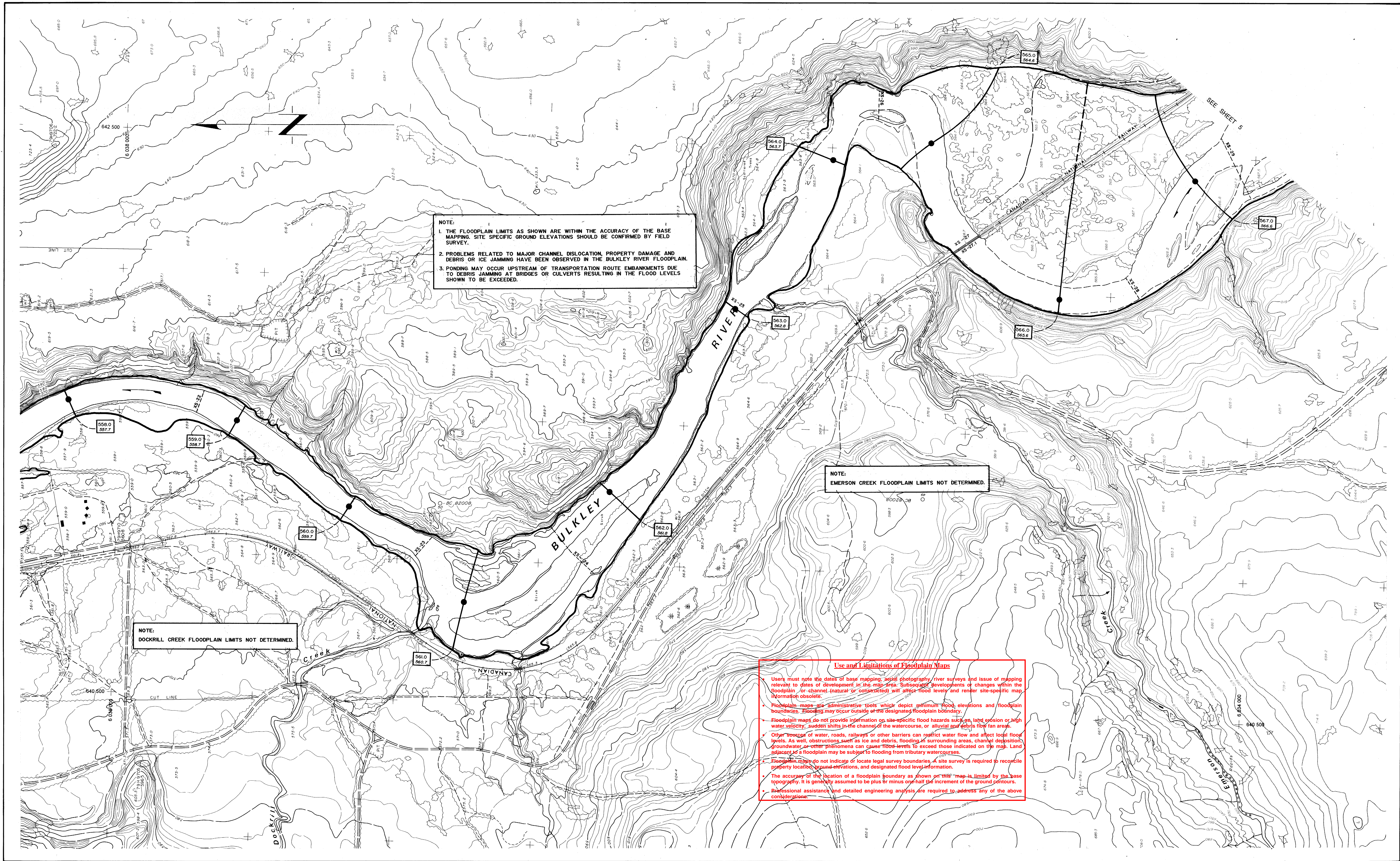
REVISIONS



No.	DESCRIPTION	DATE

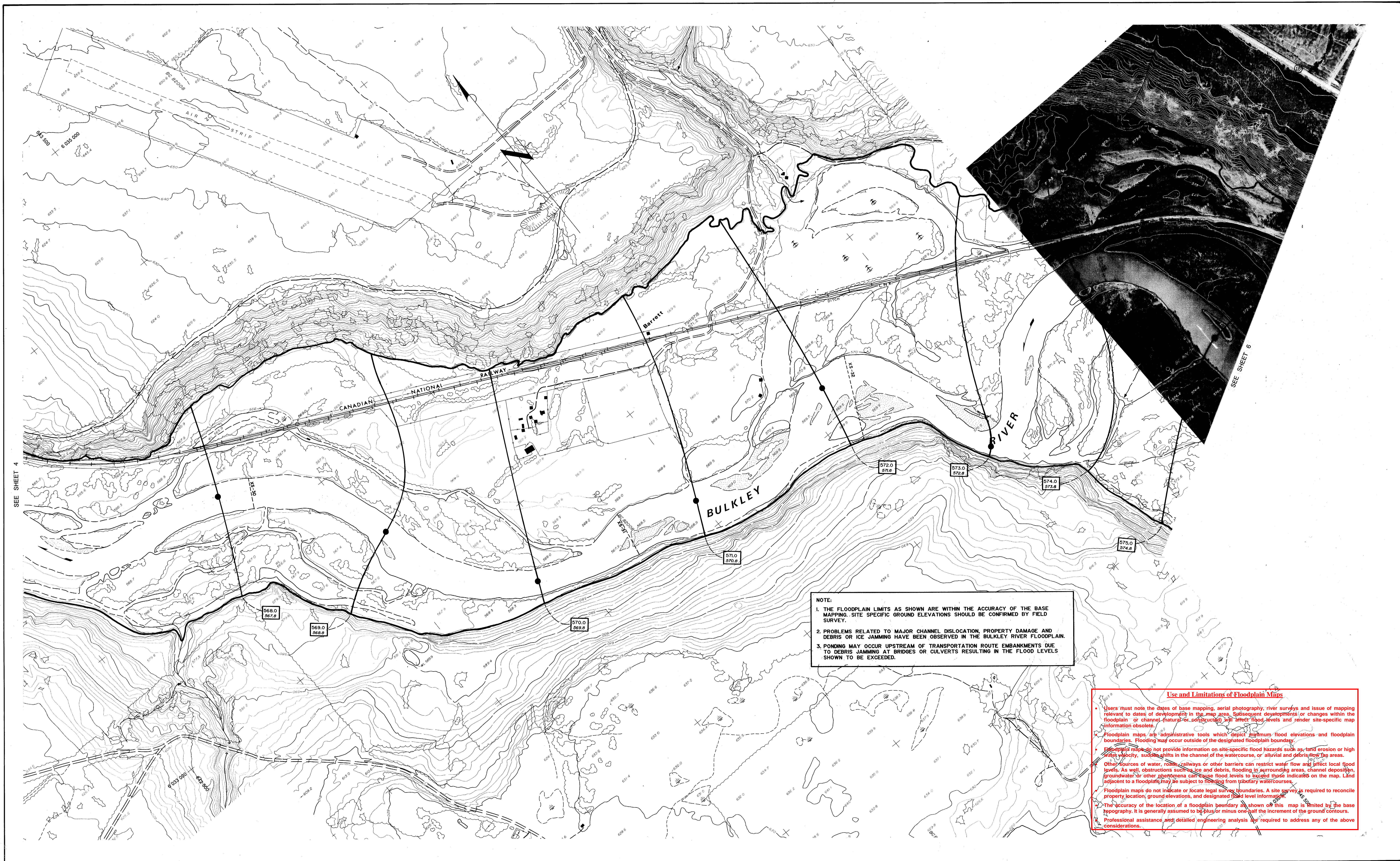
ISSUE OF MAPPING

DATE	September 30, 1998
DRAWN	
CHECKED	
RIVER SURVEY	MP
DESIGNED	BB
ENGINEER	R.W. Nichol
RECOMMENDED	R.W. Nichol
APPROVED	

ENVIRONMENT CANADA INLAND WATERS ENVIRONNEMENT CANADA EAUX INTERIEURES	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT, LANDS & PARKS COLOMBIE-BRITANNIQUE MINISTRE DE L'ENVIRONNEMENT	CANADA BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT L'ACCORD CANADA COLOMBIE-BRITANNIQUE SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION	FILE No. 35100-30/480-0000 N.T.S. MAP No. 93 L SCALE 1:5000 NEGATIVE No. DRAWING No. REV. 96-10-2 SHEET 2 of 6
FLOODPLAIN MAPPING BULKLEY RIVER QUICK TO HOUSTON			
100m 0 100 200 300 400 500m SCALE 1:5000			



NOTES		FLOODPLAIN DATA		LEGEND		KEY MAP		REVISIONS		ISSUE OF MAPPING		ENVIRONMENT CANADA INLAND WATERS ENvironnement Canada EAUX INTÉRIEURES		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT, LANDS & PARKS COLOMBIE-BRITANNIQUE MINISTÈRE DE L'ENVIRONNEMENT		CANADA-BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT L'ACCORD CANADA-COLOMBIE-BRITANNIQUE SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION		FILE NO. 35100-30/460-0000	
Produced by: British Columbia Ministry of Environment, Lands & Parks Territorial Inventory and Data Management Branch Floodplain Mapping Program		1. The floodplain areas as depicted on this map have been interim designated pursuant to the Canada/British Columbia Floodplain Mapping Agreement (1986) by the Minister of the Environment for Canada and the Minister of ENVIRONMENT, LANDS & PARKS. Flooding may still occur outside of the interim designated floodplain areas. The Ministers do not assume any liability by reason of the interim designation or failure to interim designate areas on this map.						No. DESCRIPTION DATE		DATE September 30, 1998		DRAWN		FLOODPLAIN MAPPING BULKLEY RIVER QUICK TO HOUSTON		N.T.S. MAP No. 93 L		SCALE 1:5000	
Survey: River survey done by Ministry of Environment, Lands & Parks Territorial Inventory and Data Management Branch Water Services Unit/Ontario Group Aquatic Inventory Section Project No. 01100		2. The Designated Flood has a statistical frequency of occurrence of once every 200 years.		FLOOD LEVEL (Freeboard included) 200 Year Frequency 20 Year Frequency				CHECKED				RIVER SURVEY MP				NEGATIVE No.			
Mapping: Base mapping done by Lands Department, Geographic Data BC, Operations Section, Project 83471, NAD 27 Air photography June 1982		3. The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.						DESIGNED BB				100m 0 100 200 300 400 500m SCALE 1:5000				DRAWING No. REV.			
a) Horizontal control based on provincial network. b) Elevation data is referred to and derived from Canadian Survey of Canada data.		4. The floodplain limits assume the absence of all dikes.						ENGINEER R.W. Dickson				RECOMMENDED R.W.N.				96-10-4			
c) Additional Survey Information		5. The floodplain limits and flood levels include an allowance for freeboard.						APPROVED [Signature]								Sheet 4 of 6			
d) Cross section 2 across the river, with spot elevations shown to 10m, with a spot elevation of 4.5 m, river, along shore road.		6. The floodplain limits are not established on the ground by legal surveys.																	
e) Cross section 2 across the river, with spot elevations shown to 10m, with a spot elevation of 4.5 m, river, along shore road.		7. The floodplain limits are not delineated for side streams and tributaries.																	
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cc) Cross section 2 across																			



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- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

NOTES		FLOODPLAIN DATA		LEGEND	KEY MAP	REVISIONS		ISSUE OF MAPPING		ENVIRONMENT CANADA INLAND WATERS		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT, LANDS & PARKS		CANADA-BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT		FILE NO. 35100-30/460-0000					
Produced by: British Columbia Ministry of Environment, Lands & Parks Resource Inventory and Data Management Branch Floodplain Mapping Program		1. The floodplain areas as depicted on this map have been interin designated pursuant to the Canada/British Columbia Floodplain Mapping Agreement (1988) by the Minister of the Environment for Canada and the Minister of ENVIRONMENT, LANDS & PARKS. Floodplain may still occur outside of the interin designated floodplain areas. The Ministers do not assume any liability by reason of the interin designation or failure to interin designate areas on this map. 2. The Designated Flood has a statistical frequency of occurrence of once every 200 years. 3. The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions. 4. The floodplain limits assume the absence of all dykes. 5. The floodplain limits and flood levels include an allowance for freeboards. 6. The floodplain limits are not established on the ground by legal surveys. 7. The floodplain limits are not delineated for side streams and tributaries. 8. The required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is available either through local municipalities or the Ministry of ENVIRONMENT, LANDS & PARKS.		<p>DESIGNATED FLOODPLAIN LIMIT FLOOD LEVEL (Freeboard included) 200 Year Frequency 20 Year Frequency</p> <p>(G.S.C. DATUM)</p>	<p>Scale 1:250 000</p>	No.		DESCRIPTION		DATE		DATE September 30, 1998		DRAWN CHECKED RIVER SURVEY MP DESIGNED BB		ENGINEER R.W. Nichol		RECOMMENDED R.W. Nichol		APPROVED [Signature]	
Survey: River survey done by Ministry of Environment, Lands & Parks Resource Inventory and Data Management Branch Water Survey Unit Operations Group/Aquatic Inventory Section Project No. 007920 a) Horizontal control based on provincial network. b) Elevation control based on interin designated floodplain areas. c) Vertical control based on interin designated floodplain areas. d) Contour interval 2 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted. e) Contour interval 10 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted. f) Contour interval 10 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted. g) Contour interval 10 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted. h) Contour interval 10 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted.		Mapping: Base map(s) done by Lands Department, Geographic Data BC, Operations Section, Project E-0171, D-0171, D-0172 Air photography June 1982 a) Contour interval 2 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted. b) Contour interval 10 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted. c) Contour interval 10 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted. d) Contour interval 10 metres and greater, with spot elevations shown to 0.1 metres, with a specified accuracy of ± 0.3 metres, except where noted.				Scale 1:5000 0 100 200 300 400 500m		SHEET 5 of 6		DRAWING NO. REV. 96-10-5											

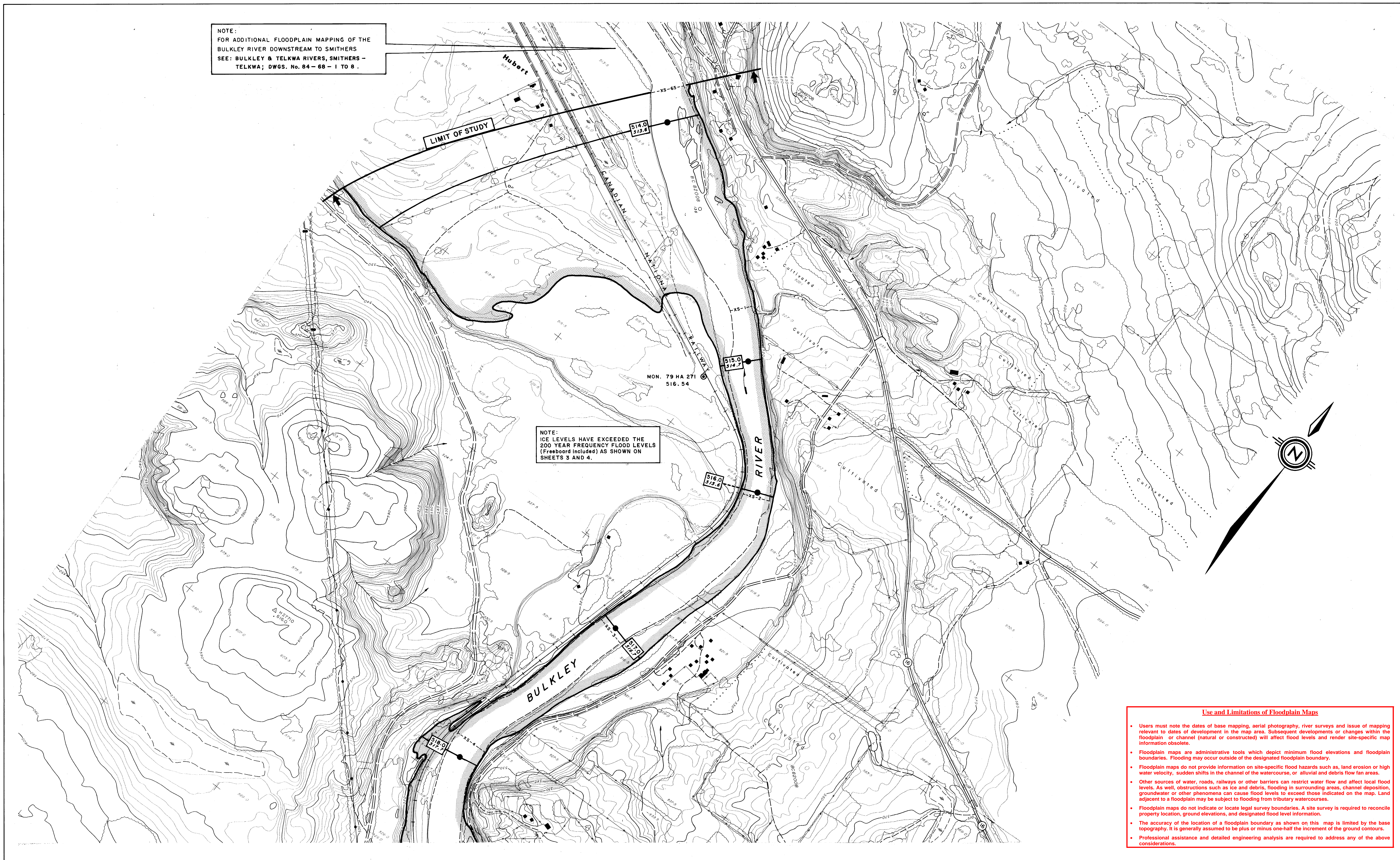
Use and Limitations of Floodplain Maps

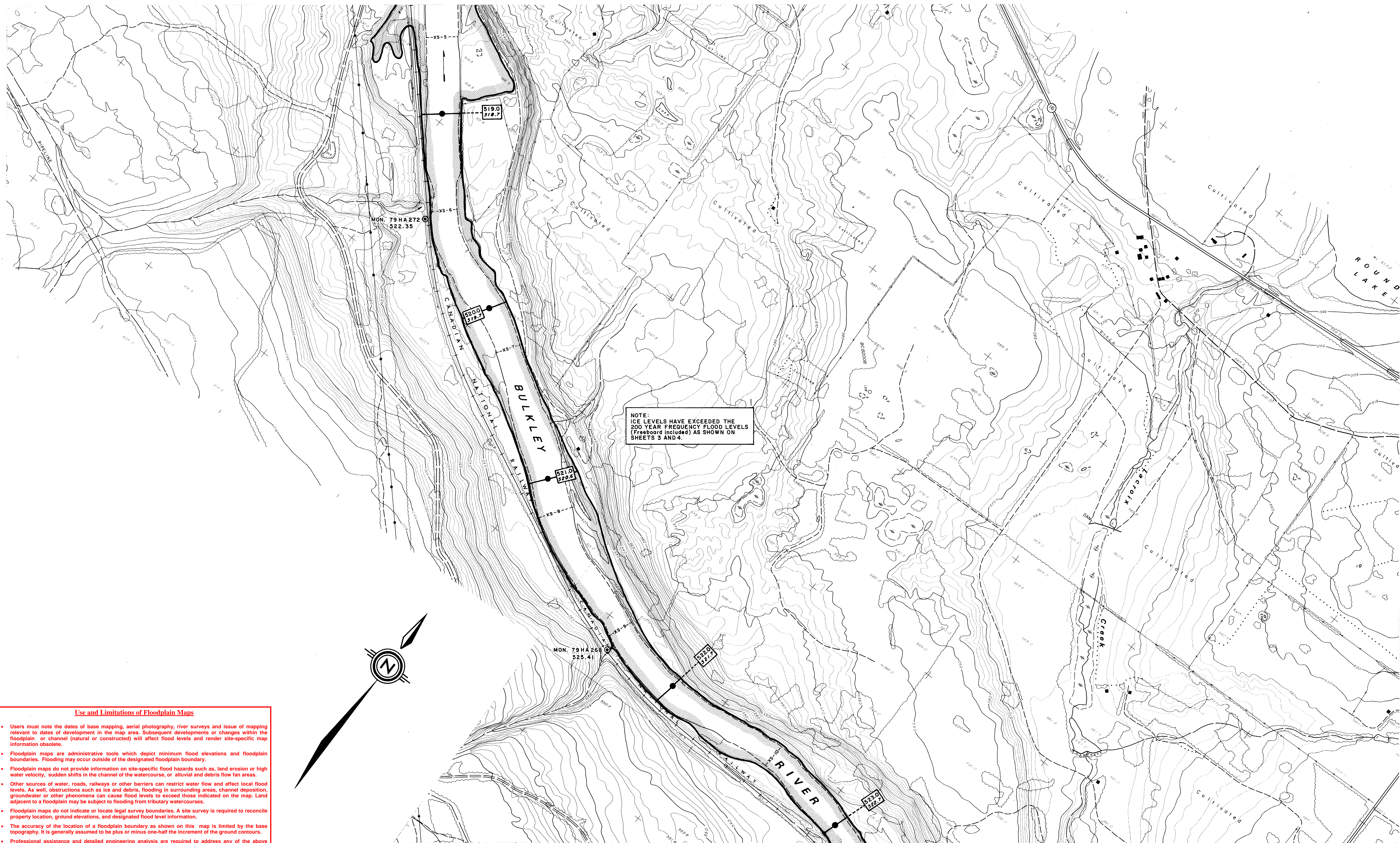
- 1. Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping drawings in dates of development of the map area. Subsequent developments or changes within the boundaries of channel location or construction will affect flood levels and render site-specific map information obsolete.
- 2. Floodplain limits are administrative limits which define potential flood elevations and floodplain boundaries. Flooding may occur outside of the designated floodplain boundary.
- 3. Floodplain limits are only provide information as to the general flood levels such as, land erosion or high water levels. Channel shifts in the channel of the watercourse, or, debris and debris flow fan areas.
- 4. Even changes in water levels, changes in river channel, can affect water flow and affect local flood levels. All such developments such as, ice and debris jamming in surrounding areas, channel deposition, embankments or other developments can cause flood levels to exceed those indicated on the map. Land adjacent to a floodplain may be subject to flooding from adjacent watercourses.
- 5. Floodplain maps do not indicate or include topographic information. A site survey is required to reconcile property location, ground elevations and floodplain flood level information.
- 6. The accuracy of the location of a floodplain boundary as shown on this map is limited by the base topography. It is generally assumed that the flood level is the maximum of the ground contours.
- 7. Professional assistance and detailed engineering studies are required to address any of the above considerations.

NOTE:
SEE FLOODPLAIN MAPPING DRAWINGS
85-14-1 TO 3, "BULKLEY RIVER AT HOUSTON".

NOTE:
1. THE FLOODPLAIN LIMITS AS SHOWN ARE WITHIN THE ACCURACY OF THE BASE MAPPING. SITE SPECIFIC GROUND ELEVATIONS SHOULD BE CONFIRMED BY FIELD SURVEY.
2. PROBLEMS RELATED TO MAJOR CHANNEL DISLOCATION, PROPERTY DAMAGE AND DEBRIS OR ICE JAMMING HAVE BEEN OBSERVED IN THE BULKLEY / MORICE RIVER FLOODPLAINS.
3. PONDING MAY OCCUR UPSTREAM OF TRANSPORTATION ROUTE EMBANKMENTS DUE TO DEBRIS JAMMING AT BRIDGES OR CULVERTS RESULTING IN THE FLOOD LEVELS SHOWN TO BE EXCEEDED.

NOTES Produced by: British Columbia Ministry of Environment, Lands & Parks Resource Inventory and Data Management Branch, Floodplain Mapping Program Survey: River survey data by Ministry of Environment, Lands & Parks Resource Inventory and Data Management Branch, Water Services Unit Operations Group Aquatic Inventory Section Project 96-10-P000 Mapping: Data derived from Lands Department, Geographic Data BC, Operations Section, Project 82-071, NAD 27 Air photographic data 1982 a) Contour interval 2 metre and greater, with spot elevations shown to 0.1 metres, except where noted b) Contour interval 10 metres, except where noted c) Contour interval 10 metres, except where noted d) Contour interval 10 metres, except where noted e) Contour interval 10 metres, except where noted f) Contour interval 10 metres, except where noted g) Contour interval 10 metres, except where noted h) Contour interval 10 metres, except where noted i) Contour interval 10 metres, except where noted j) Contour interval 10 metres, except where noted k) Contour interval 10 metres, except where noted l) Contour interval 10 metres, except where noted m) Contour interval 10 metres, except where noted n) Contour interval 10 metres, except where noted o) Contour interval 10 metres, except where noted p) Contour interval 10 metres, except where noted q) Contour interval 10 metres, except where noted r) Contour interval 10 metres, except where noted s) Contour interval 10 metres, except where noted t) Contour interval 10 metres, except where noted u) Contour interval 10 metres, except where noted v) Contour interval 10 metres, except where noted w) Contour interval 10 metres, except where noted x) Contour interval 10 metres, except where noted y) Contour interval 10 metres, except where noted z) Contour interval 10 metres, except where noted	FLOODPLAIN DATA 1. 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Use and Limitations of Floodplain Maps

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- Floodplain maps do not indicate or locate legal survey boundaries. A site survey is required to reconcile property location, ground elevations, and designated flood level information.
- The accuracy of the location of a floodplain boundary as shown on this map is limited by the base topography. It is generally assumed to be plus or minus one-half the increment of the ground contours.
- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

NOTES

Produced by: British Columbia Water Management Branch, Special Projects Section
Floodplain Mapping Program.

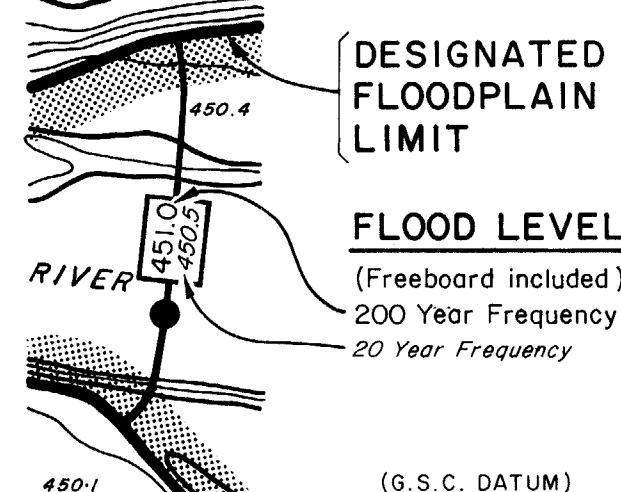
Survey: River survey done by Surveys Section, Water Management Branch,
September 1985, Project No. 85-RPP12
a) Horizontal control based on provincial network.
b) Elevations are in metres and are referred to
Geodetic Survey of Canada datum. (●) Indicates Survey Monument.

Mapping: Base mapping done by Map Production Division, Surveys and Resource
Mapping Branch, February 1984, Project No. 82-071T-0.
a) Contour interval 2.0 metre and greater; spot elevations shown
to 0.5 metres, with accuracy to ± 0.5 metres, except where noted.
b) Grid origin referred to U.T.M. Projection Zone 9.

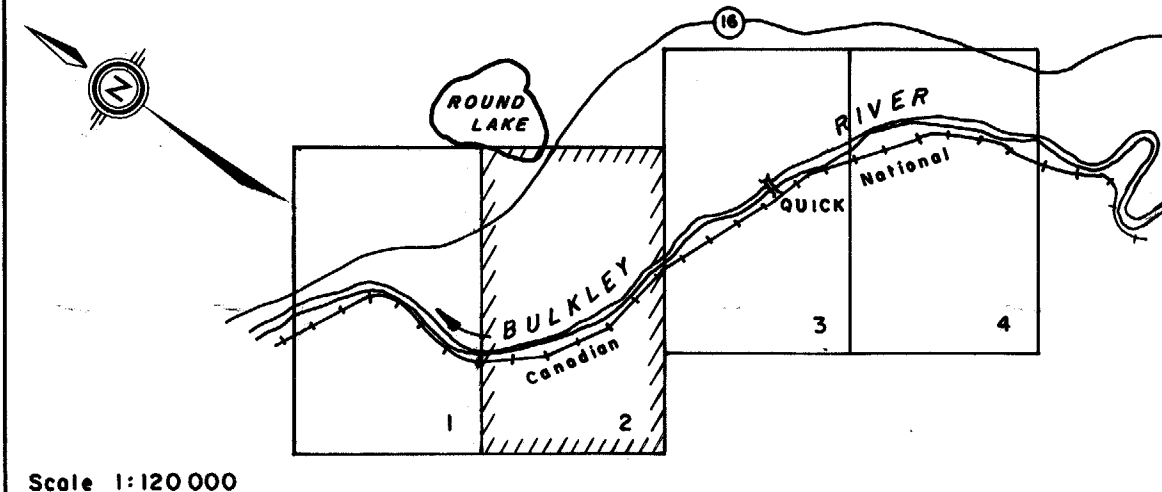
FLOODPLAIN DATA

- The Designated Flood has a statistical frequency of occurrence of once every 200 years.
- The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.
- The floodplain limits assume the absence of all dykes.
- The floodplain limits and flood levels include an allowance for freeboard.
- The floodplain limits are not established on the ground by legal survey.
- The floodplain limits are not delineated for side streams and tributaries.
- The required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is available either through local municipalities or the Ministry of Environment.

LEGEND



KEY MAP



REVISIONS

No	DESCRIPTION	DATE

ISSUE OF MAPPING

DATE
NOVEMBER 1986
DRAWN
N.F.A.
CHECKED
P.T.D.
RIVER SURVEY
T.M.D.
DESIGNED
F.W.D.
ENGINEER
R.W. Gable

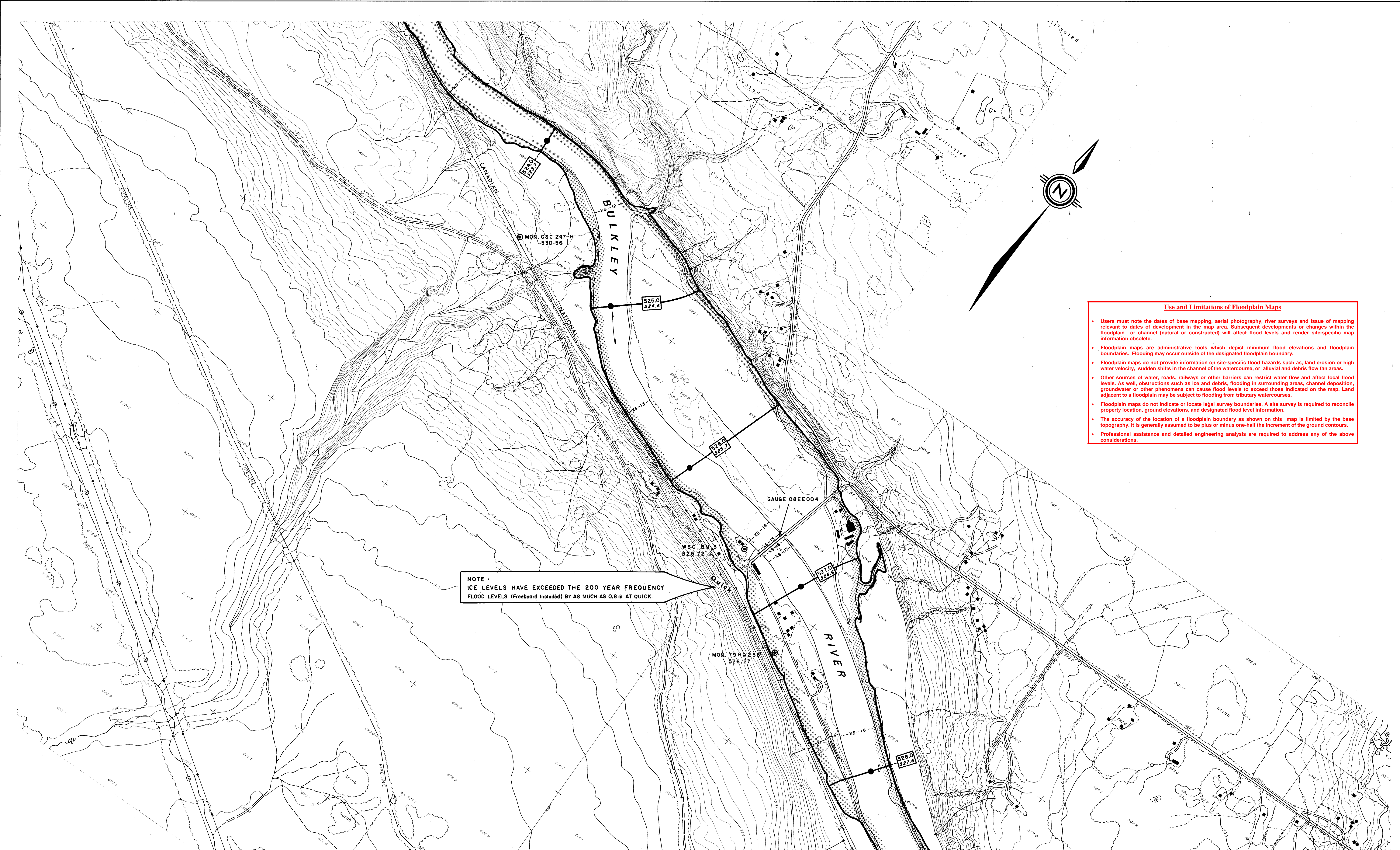


Ministry of Environment
Water Management Branch

PRELIMINARY FLOODPLAIN MAPPING BULKLEY RIVER QUICK AREA

RECOMMENDED
[Signature]
APPROVED
[Signature]

FILE No. **46-0000-S.1**
N.T.S. MAP No. **93 L/110**
SCALE **1 : 5 000**
NEGATIVE No. **280149**
DRAWING No. **86-23-2**
SHEET **2** of **4**



- Use and Limitations of Floodplain Maps**
- Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
 - Floodplain maps are administrative tools which depict minimum flood elevations and floodplain boundaries. Flooding may occur outside of the designated floodplain boundary.
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 - Floodplain maps do not indicate or locate legal survey boundaries. A site survey is required to reconcile property location, ground elevations, and designated flood level information.
 - The accuracy of the location of a floodplain boundary as shown on this map is limited by the base topography. It is generally assumed to be plus or minus one-half the increment of the ground contours.
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NOTE:
ICE LEVELS HAVE EXCEEDED THE 200 YEAR FREQUENCY
FLOOD LEVELS (Freeboard Included) BY AS MUCH AS 0.8 m AT QUICK.

NOTES

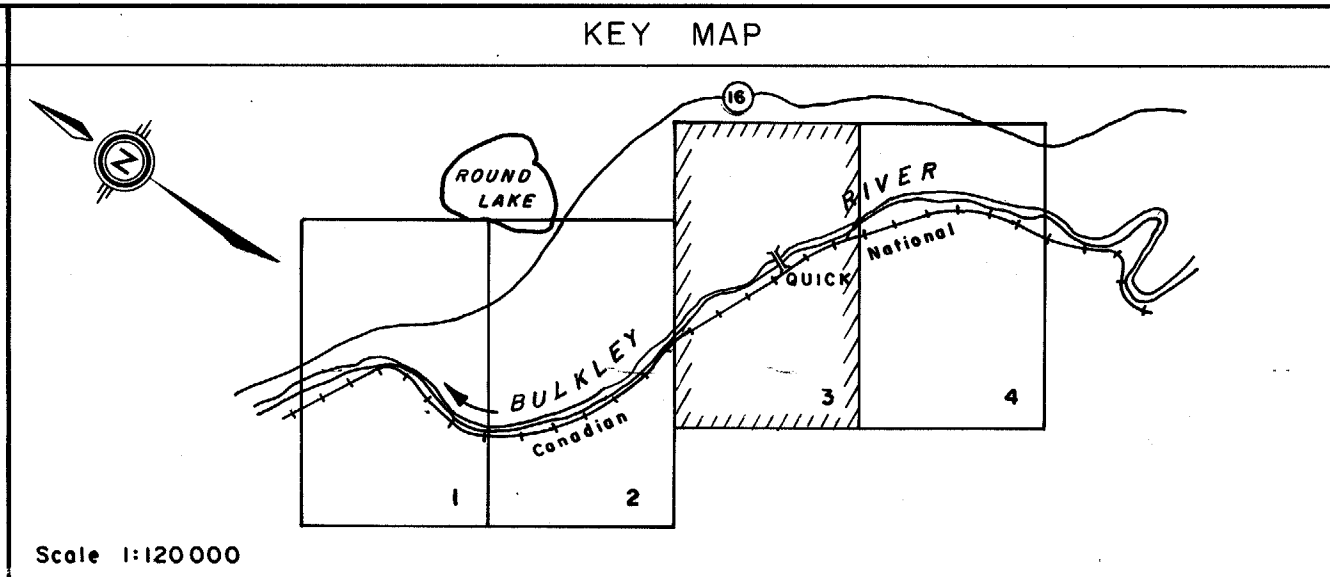
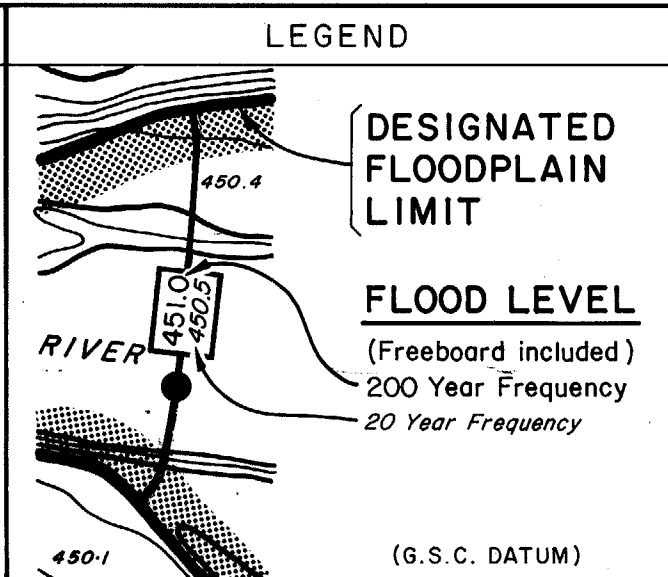
Produced by: British Columbia Water Management Branch, Special Projects Section
Floodplain Mapping Program.

Survey: River survey done by Surveys Section, Water Management Branch,
September 1985, Project No. 85-RPP12
a) Horizontal control based on provincial network.
b) Elevations are in metres and are referred to
Geodetic Survey of Canada datum. (⊙ Indicates Survey Monument)

Mapping: Base mapping done by Map Production Division, Surveys and Resource
Mapping Branch, February 1984, Project No. 82-Q71T-0.
a) Contour interval 2.0 metre and greater; spot elevations shown
to 0.5 metres, with accuracy to ± 0.5 metres, except where noted.
b) Grid origin referred to U.T.M. Projection Zone 9.

FLOODPLAIN DATA

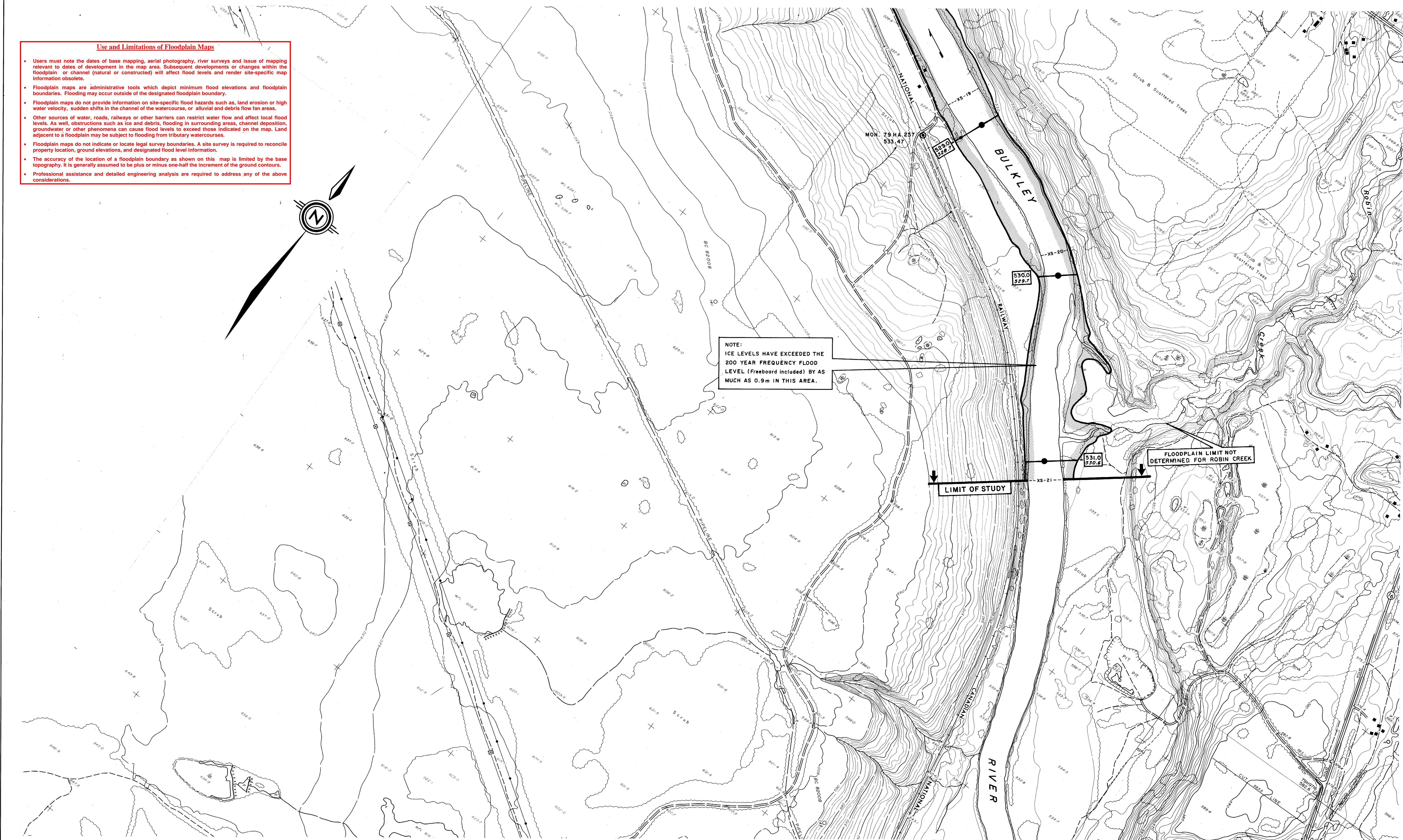
a) The Designated Flood has a statistical frequency of occurrence of once every 200 years.
b) The flood levels were computed using a standard step method modelling technique, assuming
open water flow conditions.
c) The floodplain limits assume the absence of all dykes.
d) The floodplain limits and flood levels include an allowance for freeboard.
e) The floodplain limits are not established on the ground by legal survey.
f) The floodplain limits are not delineated for side streams and tributaries.
g) The required setback of buildings from the natural boundaries of lakes and watercourses to
allow for the passage of floodwaters and possible bank erosion is not shown. This
information is available either through local municipalities or the Ministry of Environment.



REVISIONS		
No	DESCRIPTION	DATE

ISSUE OF MAPPING DATE NOVEMBER 1986	Province of British Columbia Ministry of Environment Water Management Branch	FILE No. 46-0000-S.1
DRAWN N.F.A.	PRELIMINARY FLOODPLAIN MAPPING	N.T.S. MAP No. 93 L/10
CHECKED P.T.D.	BULKLEY RIVER QUICK AREA	SCALE 1 : 5 000
RIVER SURVEY T. M. D.		NEGATIVE No. 280 150
DESIGNED F.W.D.		DRAWING No. REV.
ENGINEER R.W. Gills	RECOMMENDED J.H. Wood	APPROVED R. Gills
		86-23-3 SHEET 3 of 4

- Users must note the dates of base mapping, aerial photography, river surveys and issue of mapping relevant to dates of development in the map area. Subsequent developments or changes within the floodplain or channel (natural or constructed) will affect flood levels and render site-specific map information obsolete.
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FLOODPLAIN DATA

Survey; River Survey done by Surveys Section, Water Management Branch.
September 1985, Project No. 85 - RPP12

- a) Horizontal control based on provincial network.
- b) Elevations are in metres and are referred to Geodetic Survey of Canada datum. I ⊙ Indicates Survey Monument

- a) The Designated Flood has a statistical frequency of occurrence of once every 200 years.
- b) The flood levels were computed using a standard step method modelling technique, assuming open water flow.
- c) The floodplain limits assume the absence of all dykes.
- d) The floodplain limits and flood levels include an allowance for freeboard.
- e) The floodplain limits are not established on the ground by legal survey.
- f) The floodplain limits are not delineated for side streams and tributaries.
- g) The required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is estimated.

DESIGNATED
FLOODPLAIN
LIMIT

FLOOD LEVEL
(Freeboard included)
- 200 Year Frequency
- 20 Year Frequency

(G.S.C. DATUM)

Scale 1:120 000

No	DESCRIPTION	D

DRAWN N. F. A.
CHECKED P. T. D.
RIVER SURVEY T. M. D.
DESIGNED F. W. D.

ENGINEER R.W.



Ministry of Environment
Water Management Branch

PRELIMINARY FLOODPLAIN MAPPING
BULKLEY RIVER
QUICK AREA

QUICK AREA

RECOMMENDED *[Signature]* APPROVED *[Signature]*

93 L / 10

SCALE
1 : 5 0 0 0

NEGATIVE No.

280151

DRAWING No.	REV
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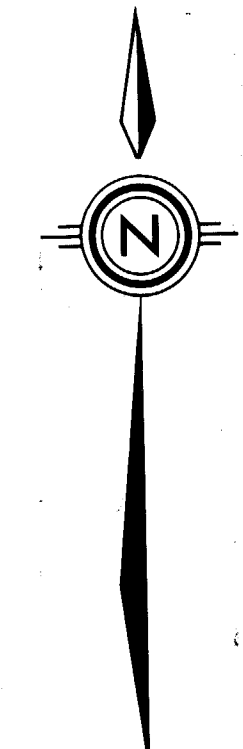
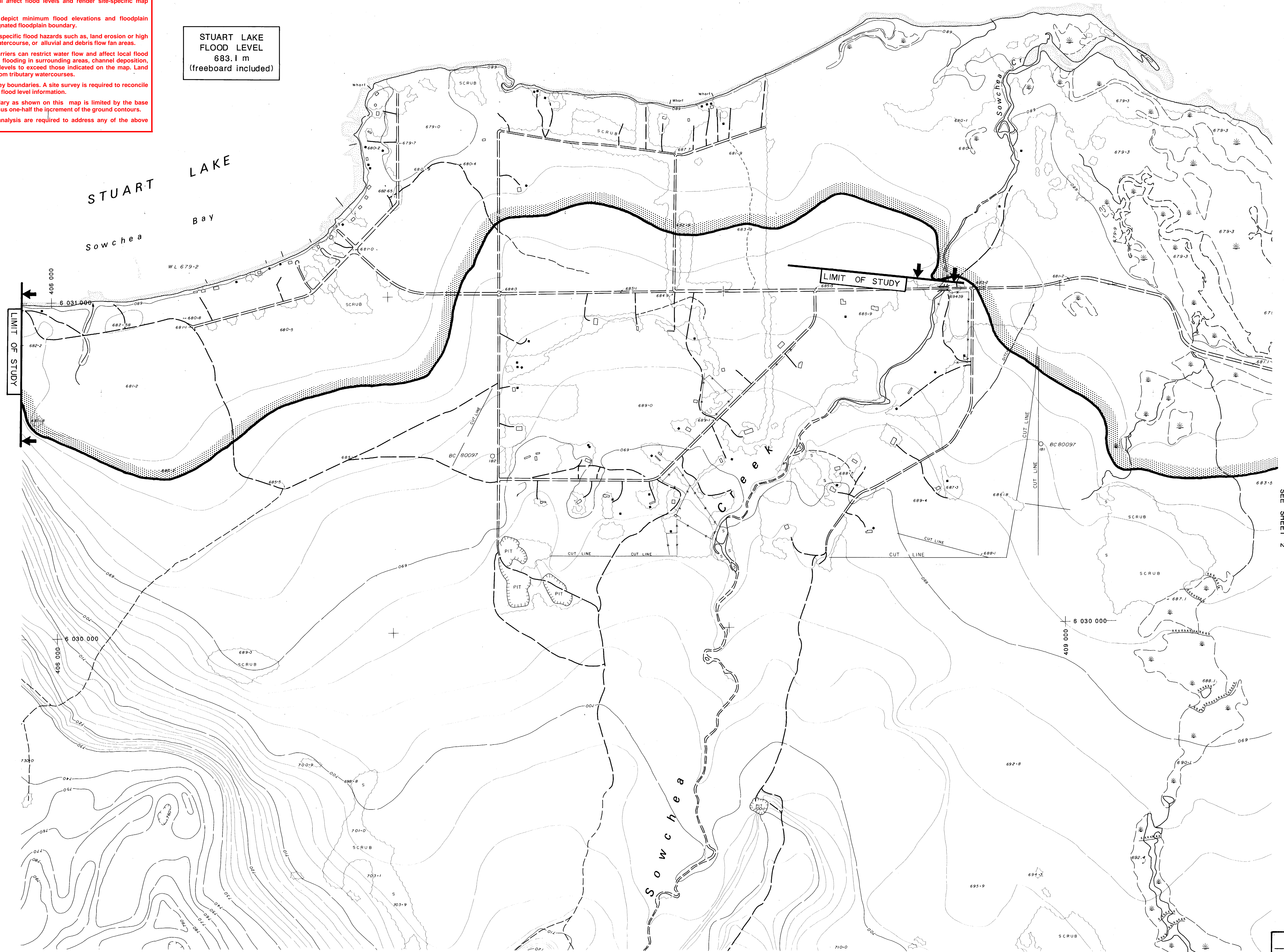
86-23-4

1 1

Use and Limitations of Floodplain Maps

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- Professional assistance and detailed engineering analysis are required to address any of the above considerations.

STUART LAKE
FLOOD LEVEL
683.1 m
(freeboard included)



SEE SHEET 2

HAY & COMPANY

HYDROTECHNICAL
ENGINEERING

CONSULTANTS INC.
ONE WEST 7TH AVE., VANCOUVER B.C.
V6K 8P7-6U7

ENVIRONMENT CANADA
INLAND WATERS
ENVIRONNEMENT CANADA
EAUX INTERIEURES

CANADA BRITISH COLUMBIA
FLOODPLAIN MAPPING AGREEMENT
L'ACCORD CANADA COLUMBIE-BRITANNIQUE
SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION

FILE No.
09-0000-S-1

N.T.S. MAP No.
93K

SCALE
1:5 000

NEGATIVE No.
DRAWING No. REV.
89-42-1

SHEET 1 of 7

FLOODPLAIN MAPPING STUART RIVER & LAKE AT FORT ST. JAMES (Includes Necoslie River & Nahounli Creek)

100m 0 100 200 300 400 500m
Scale in metres

ISSUE OF MAPPING
DATE
SEPT. 30, 1991

DRAWN
T. E.

CHECKED
RIVER SURVEY
M. P.

DESIGNED
B. B.

ENGINEER
R. J. Wilford

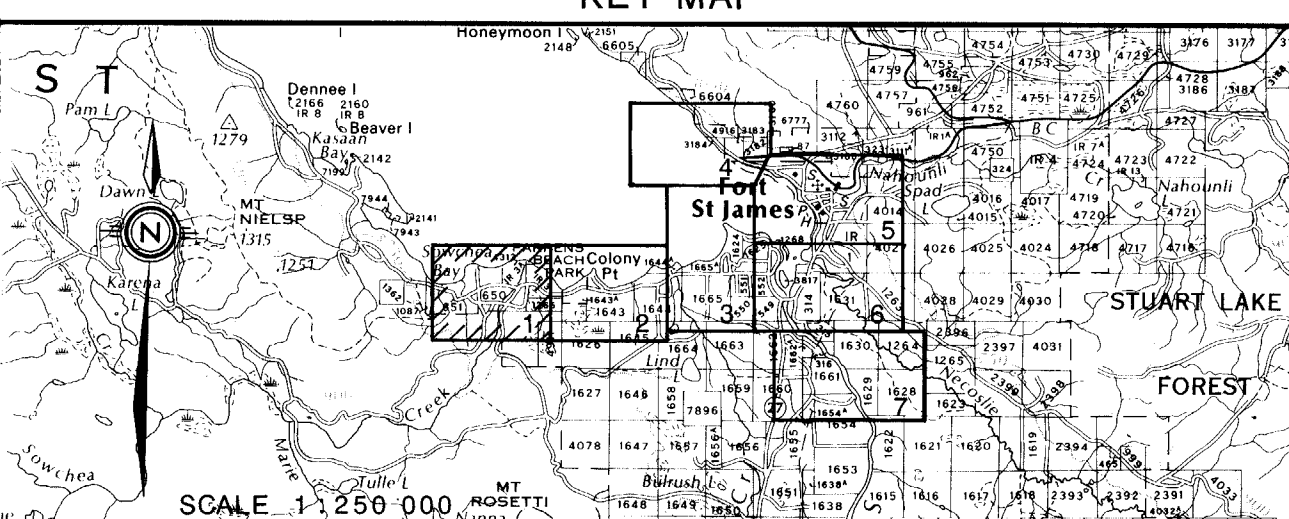
RECOMMENDED
APPROVED

APPROVED

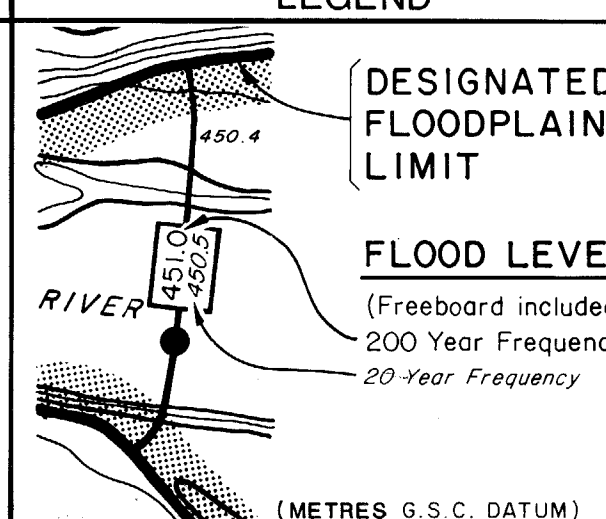
REVISIONS

No.	DESCRIPTION	DATE

KEY MAP



LEGEND



FLOODPLAIN DATA

- The floodplain areas as depicted on this map have been interin designated pursuant to the Canada/British Columbia Floodplain Mapping Agreement (1988) by the Minister of the Environment for Canada and the Minister of Environment for British Columbia.
- Flooding may occur outside of the interin designated floodplain areas. The Ministers do not assume any liability by reason of the interin designation or failure to interin designate areas on this map.
- The Designated Flood has a statistical frequency of occurrence of once every 200 years.
- The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.
- The floodplain limits assume the absence of all dykes.
- The floodplain limits and flood levels include an allowance for freeboard.
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- MAPS AVAILABLE FROM THE MINISTRY OF CROWN LANDS, SURVEYS AND RESOURCE MAPPING BRANCH, MAPS B.C., MAP AND AIR PHOTO SALES, VICTORIA, B.C.

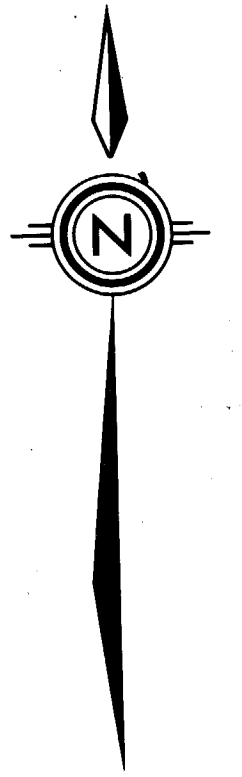
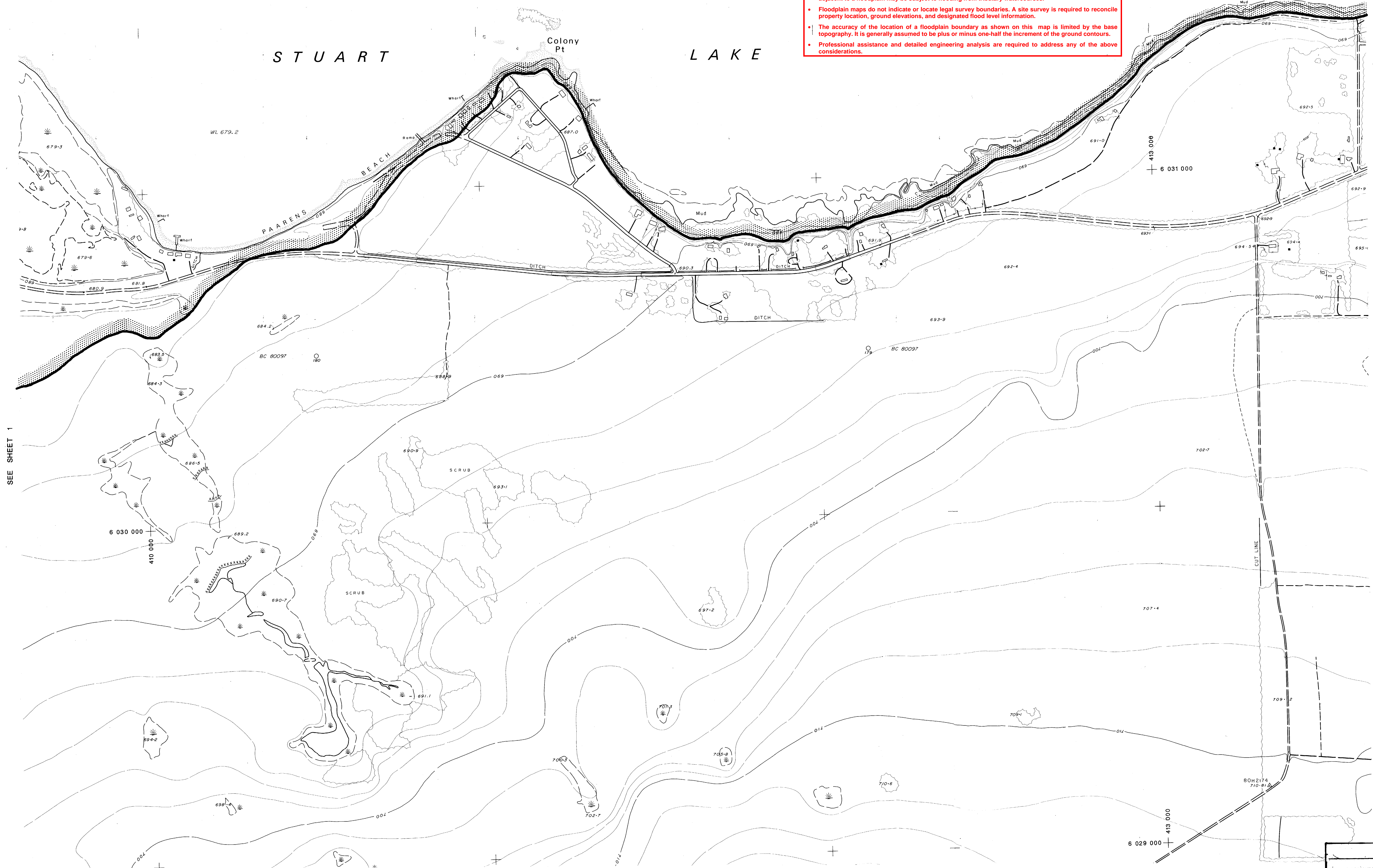
NOTES

Produced by: British Columbia Water Management Branch, Special Projects Section, Floodplain Mapping Program.
River survey done by Survey Section, Water Management Branch, Project 89-09 F029, May 1989.
a) Horizontal control based on provincial network.
b) Elevations are in metres and are referred to Geodetic Survey of Canada datum. 1.0 indicates Survey Monument.
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 89-1077, dated Aug. 1990.
a) Contour interval 2 metre and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.5 metres, except where noted.
b) Grid origin referred to U.T.M. Projection Zone 10.

STUART LAKE
FLOOD LEVEL
683.1 m.
(freeboard included)

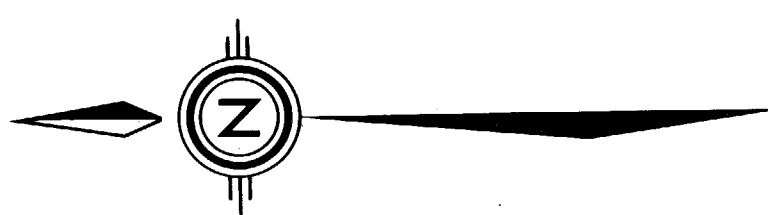
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SEE SHEET 3

NOTES		FLOODPLAIN DATA		LEGEND		KEY MAP		REVISIONS		ISSUE OF MAPPING		ENVIRONMENT CANADA INLAND WATERS ENvironnement Canada Eau Interieures		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT COlombie-Britannique Ministère de l'Environnement		CANADA-BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT L'Accord Canada-Colombie-Britannique sur la Cartographie des Plaines d'Inondation		HAY & COMPANY CONSULTANTS INC. ONE WEST 7TH AVE., VANCOUVER, B.C. V6Y 1S8 TEL: 604-681-5551	
Produced by: British Columbia Water Management Branch, Special Projects Section, Floodplain Mapping Program.		1. The floodplain areas as depicted on this map have been interin designated pursuant to the Canada/British Columbia Floodplain Mapping Agreement (1988) by the Minister of the Environment for Canada and the Minister of Environment for British Columbia.		DESIGNATED FLOODPLAIN LIMIT		S T		No.		DATE SEPT. 30, 1991		DRAWN T. E.		CHECKED M. P.		DESIGNED B. B.		ENGINEER R. J. Wilford	
Survey: River survey done by Surveys Section, Water Management Branch, Project 89 09 F029, May 1989.		2. The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.		FLOOD LEVEL (Freeboard included) 200 Year Frequency 20 Year Frequency		St James		DESCRIPTION		DATE		RIVER SURVEY		APPROVED K. B. B.		RECOMMENDED K. B. B.		FILE No. 09-0000-S-1	
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 83-1371, dated Aug. 1980.		3. The floodplain limits assume the absence of all dikes.		(METRES G.S.C. DATUM)		Stuart Lake		DATE		DRAWN		SCALE 1:5 000		DRAWING No. REV.		SHEET 2 of 7		N.T.S. MAP No. 93K	
a) Contour interval 2 metres and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.5 metres, except where noted.		4. The floodplain limits are not established on the ground by legal survey.																	
b) Grid origin referred to U.T.M. Projection Zone 10.		5. The floodplain limits are not delineated for side streams and tributaries.																	
		6. The required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is available either through local municipalities or the Ministry of Environment.																	
		7. The floodplain limits are not delineated for side streams and tributaries.																	
		8. The required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is available either through local municipalities or the Ministry of Environment.																	
		9. MAPS AVAILABLE FROM THE MINISTRY OF CROWN LANDS, SURVEYS AND RESOURCE MAPPING BRANCH, MAPS B.C., MAP AND AIR PHOTO SALES, VICTORIA, B.C.																	



6 034 000
416 000 +



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S T U A R T L A K E

W. 679.2

414 000 +
6 034 000

SEE SHEET 2

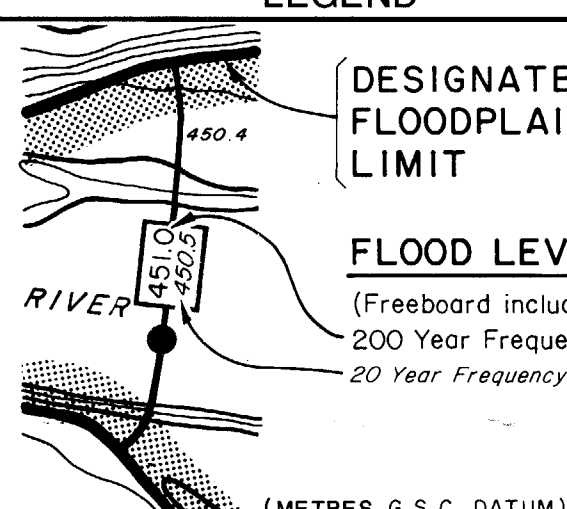
NOTES

Produced by: British Columbia Water Management Branch, Special Projects Section, Floodplain Mapping Program.
Survey: River survey done by Surveys Section, Water Management Branch, Project 88 08 F029, May 1989.
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 83-1377, dated Aug 1980.
a) Contour interval 2 metres and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.5 metres, except where noted.
b) Grid origin referred to U.T.M. Projection Zone 10.

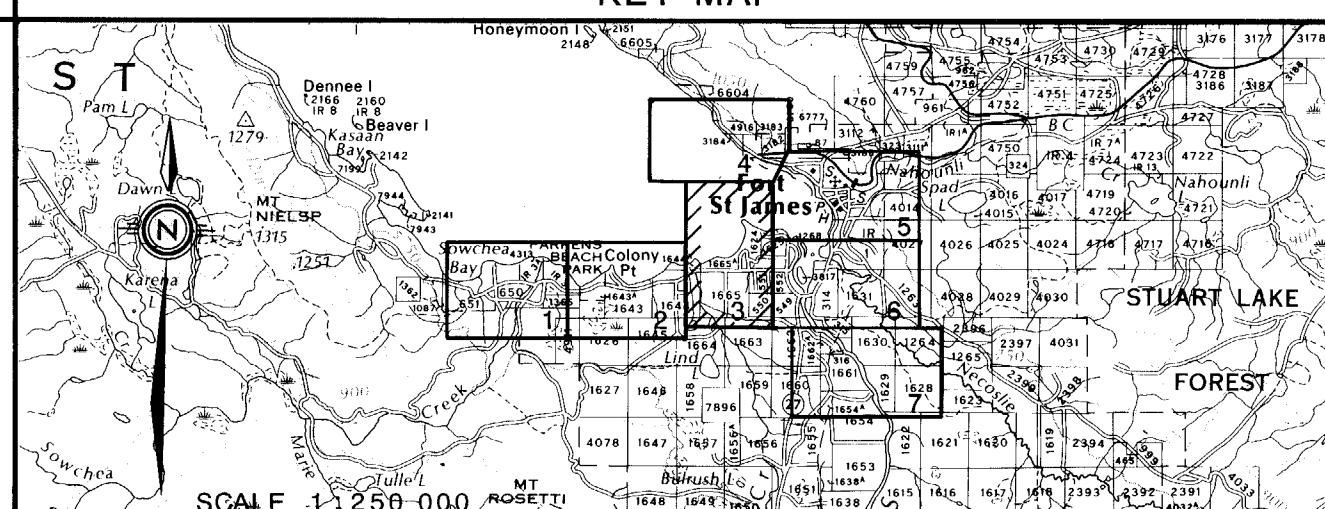
FLOODPLAIN DATA

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- MAPS AVAILABLE FROM THE MINISTRY OF CROWN LANDS, SURVEYS AND RESOURCE MAPPING BRANCH, MAPS B.C., MAP AND AIR PHOTO SALES, VICTORIA, B.C.

LEGEND



KEY MAP



REVISIONS

No.	DESCRIPTION	DATE
1	ISSUE OF MAPPING DATE SEPT. 30, 1991	
2	DRAWN T. E.	
3	CHECKED	
4	RIVER SURVEY M. P.	
5	DESIGNED B. B.	
6	ENGINEER R. J. Walker	

ISSUE OF MAPPING

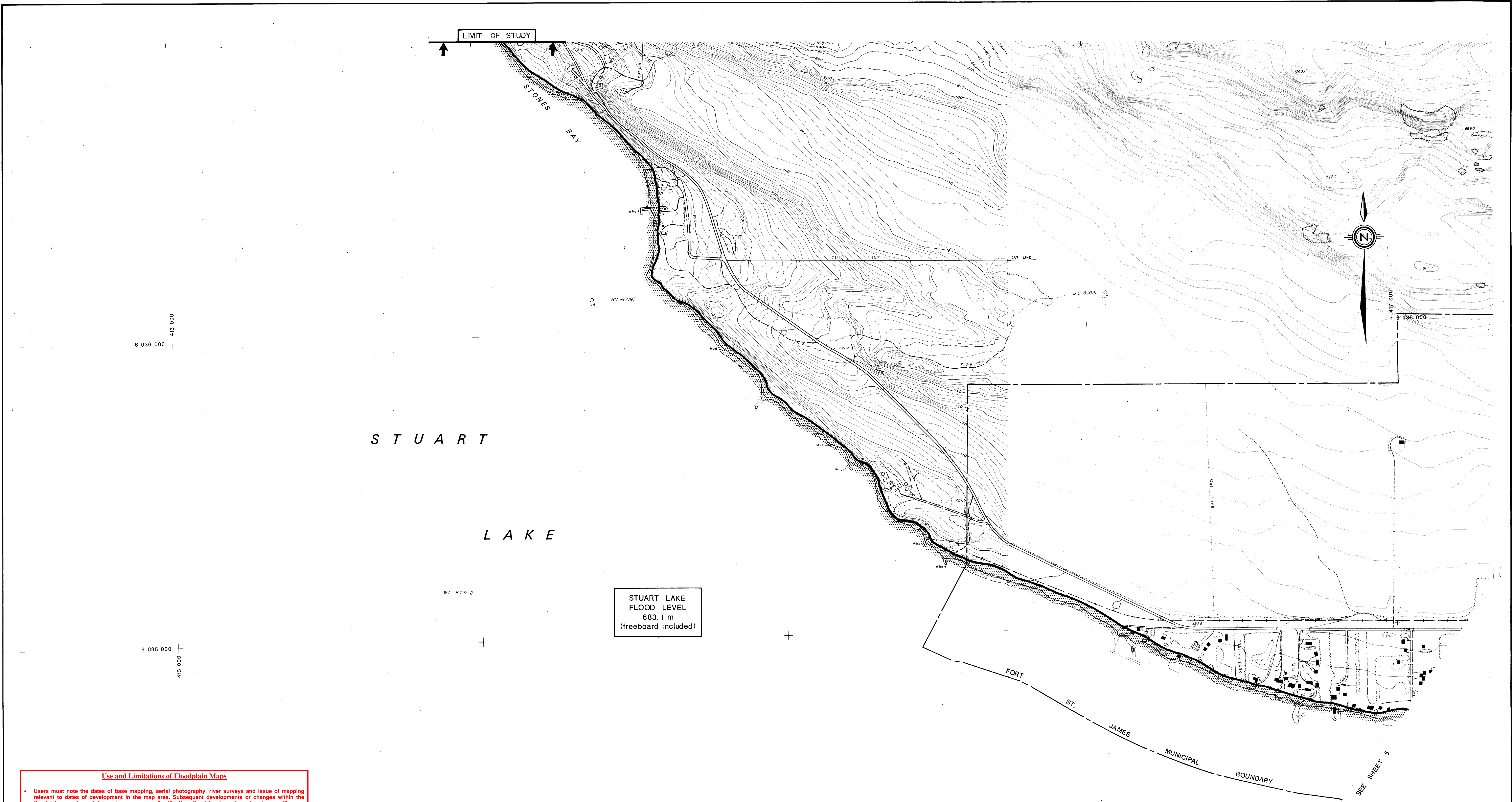
DATE SEPT. 30, 1991
DRAWN T. E.
CHECKED
RIVER SURVEY M. P.
DESIGNED B. B.
ENGINEER R. J. Walker

ENVIRONMENT CANADA INLAND WATERS ENVIRONNEMENT CANADA EAUX INTERIEURES	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT COLOMBIE-BRITANNIQUE MINISTÈRE DE L'ENVIRONNEMENT	CANADA BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT L'ACCORD CANADA COLOMBIE-BRITANNIQUE SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION	FILE No. 09-0000-S.1 N.T.S. MAP No. 93K SCALE 1:5 000 NEGATIVE No. DRAWING No. REV. 89-42-3 SHEET 3 of 7
FLOODPLAIN MAPPING STUART RIVER & LAKE AT FORT ST. JAMES (Includes Necoslie River & Nahounli Creek)			
Scale in metres 0 100 200 300 400 500m			
RECOMMENDED <i>[Signature]</i>			APPROVED <i>[Signature]</i>

HAY & COMPANY

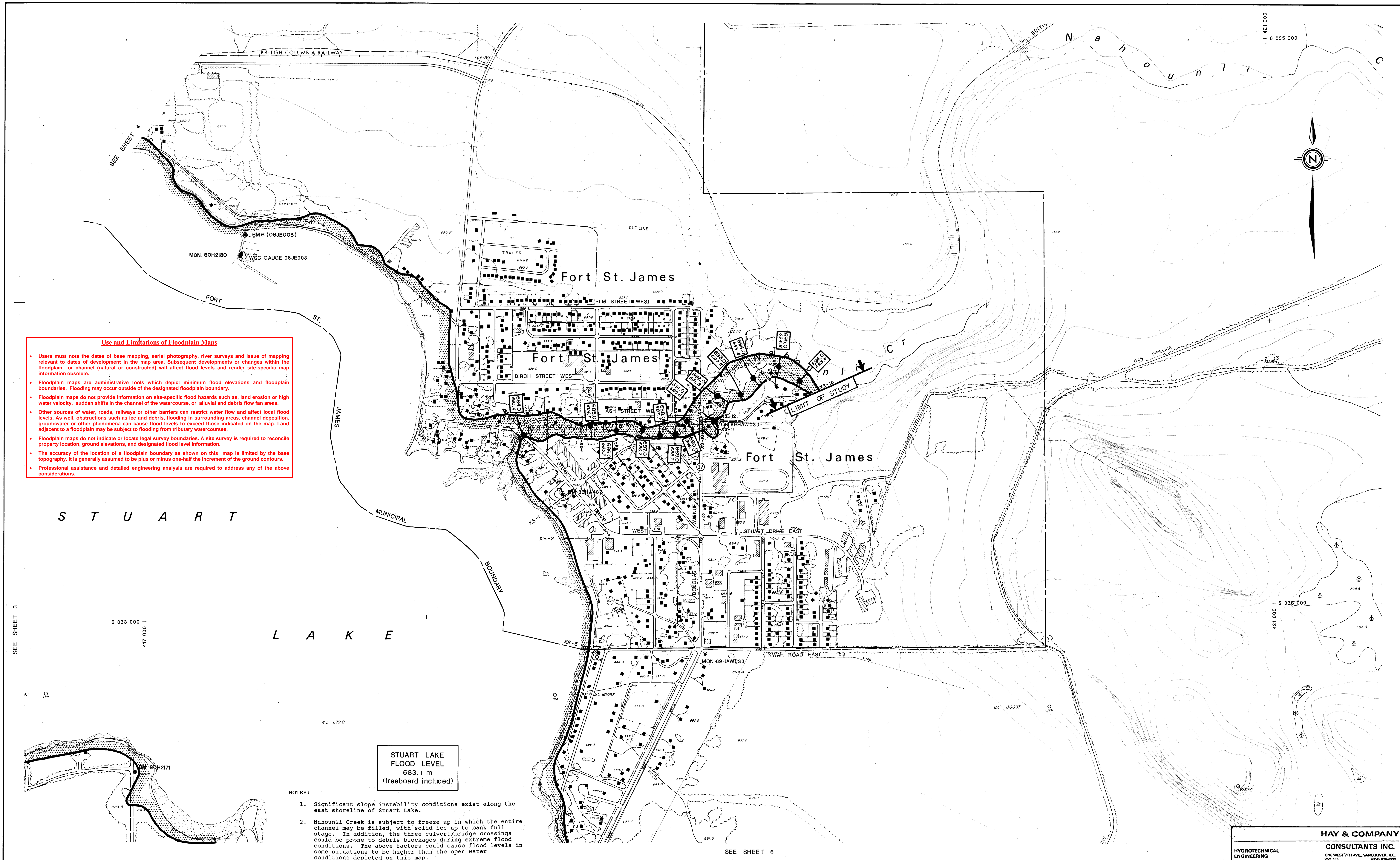
CONSULTANTS INC.

ONE WEST 7TH AVE., VANCOUVER, B.C.
V6Y 1L5 (604) 675-6281



- Use and Limitations of Floodplain Maps**
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NOTES		FLOODPLAIN DATA		LEGEND	KEY MAP	REVISIONS		ISSUE OF MAPPING		ENVIRONMENT CANADA INLAND WATERS		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT		CANADA-BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT		FILE No.: 09-0000-S.1	
Produced by: British Columbia Water Management Branch, Project Section, Floodplain Mapping Program.		1. The floodplain areas as depicted on this map have been interim designated pursuant to the Canada/British Columbia Floodplain Mapping Agreement (1988) by the Minister of the Environment for Canada and the Minister of Environment for British Columbia.				No.	DESCRIPTION	DATE	DATE SEPT. 30, 1991	DRAWN T. E.	CHECKED M. P.	DESIGNED B. B.	ENGINEER R. J. Whelan	RECOMMENDED [Signature]	APPROVED [Signature]	CANADA-BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT L'ACCORD CANADA-COLOMBIE-BRITANNIQUE SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION	FILE No.: 09-0000-S.1
Survey: River survey done by Surveys Section, Water Management Branch, Project 89 09 F029, May 1989. a) Horizontal control based on provincial network. b) Elevation: geodetic survey of Canada datum. (Indicates Survey Monument).		2. The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions. 3. The flood levels have a statistical frequency of occurrence of once every 200 years. 4. The floodplain limits assume the absence of all dykes. 5. The floodplain limits and flood levels include an allowance for freeboard. 6. The floodplain limits are not established on the ground by legal survey. 7. The floodplain limits are not delineated for side streams and tributaries. 8. The required setback of buildings from the natural boundaries of lakes and watercourses to allow for the passage of floodwaters and possible bank erosion is not shown. This information is available either through local municipalities or the Ministry of Environment.															
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 83-137T, dated Aug. 1980. a) Contour interval 2 metre and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.5 metres, except where specified. b) U.T.M. or U.S.M. referred to U.T.M. Projection Zone 10.		9. MAPS AVAILABLE FROM THE MINISTRY OF CROWN LANDS, SURVEYS AND RESOURCE MAPPING BRANCH, MAPS B.C., MAP AND AIR PHOTO SALES, VICTORIA, B.C.															



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NOTES:

1. Significant slope instability conditions exist along the east shoreline of Stuart Lake.
2. The Designated Flood has a statistical frequency of occurrence of once every 200 years.
3. The flood levels were computed using a standard step method modelling technique, assuming open water flow conditions.
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STUART LAKE
FLOOD LEVEL
683.1 m
(freeboard included)

NOTES

Produced by: British Columbia Water Management Branch, Special Projects Section, Floodplain Mapping Program.

Survey: River survey done by Survey Section, Water Management Branch, Project 83-09 F029, May 1989.

Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 83-1271, dated Aug 1980.

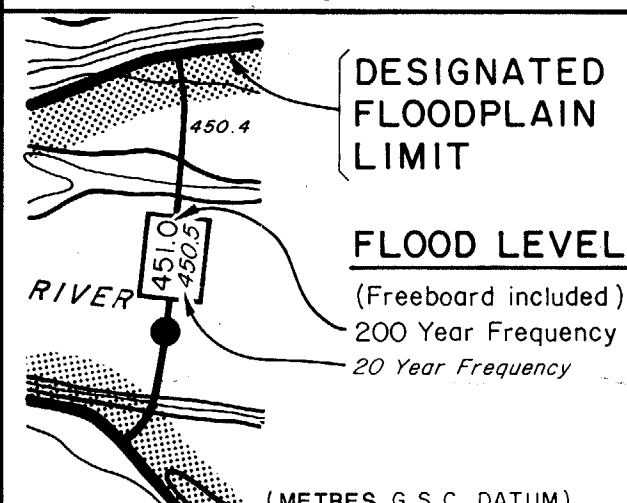
a) Contour interval 2 metres and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.5 metres, except where noted.

b) Grid origin referred to U.T.M. Projection Zone 10.

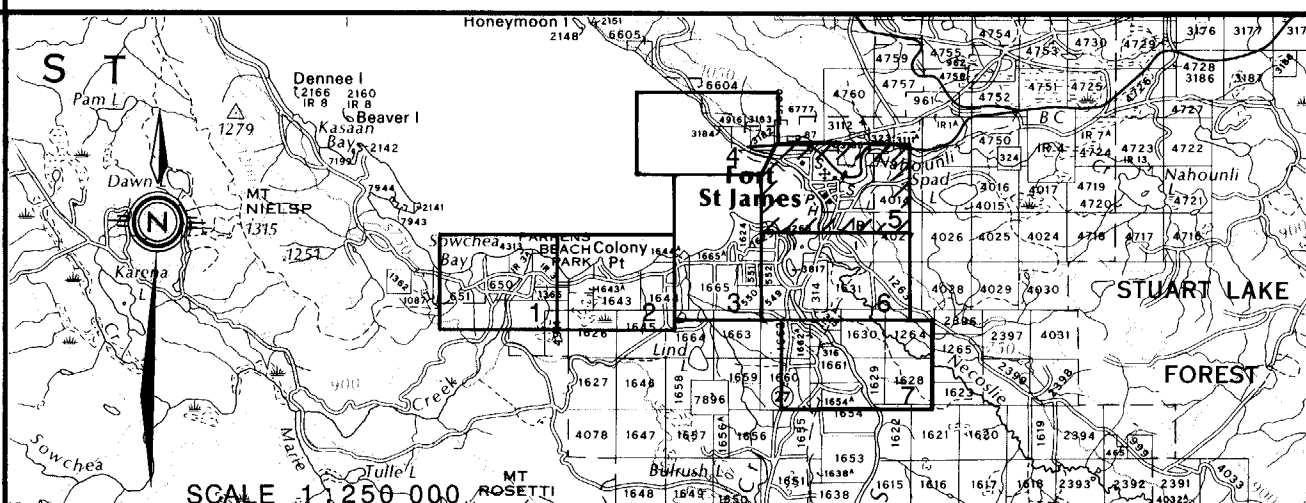
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LEGEND



KEY MAP



REVISIONS

No.	DESCRIPTION	DATE
1	ISSUE OF MAPPING	SEPT. 30, 1991
2	DRAWN	T. E.
3	CHECKED	
4	RIVER SURVEY	M. P.
5	DESIGNED	B. B.
6	ENGINEER	R. J. Wallwork
7	RECOMMENDED	
8	APPROVED	

ISSUE OF MAPPING

DATE: SEPT. 30, 1991

DRAWN: T. E.

CHECKED:

RIVER SURVEY: M. P.

DESIGNED: B. B.

ENGINEER: R. J. Wallwork

RECOMMENDED:

APPROVED:

HAY & COMPANY
CONSULTANTS INC.
HYDROTECHNICAL
ENGINEERING

ENVIRONMENT CANADA
INLAND WATERS
ENvironnement Canada
EAUX INTERIEURES

BRITISH COLUMBIA MINISTRY
OF ENVIRONMENT
COLOMBIE-BRITANNIQUE MINISTRE
DE L'ENVIRONNEMENT

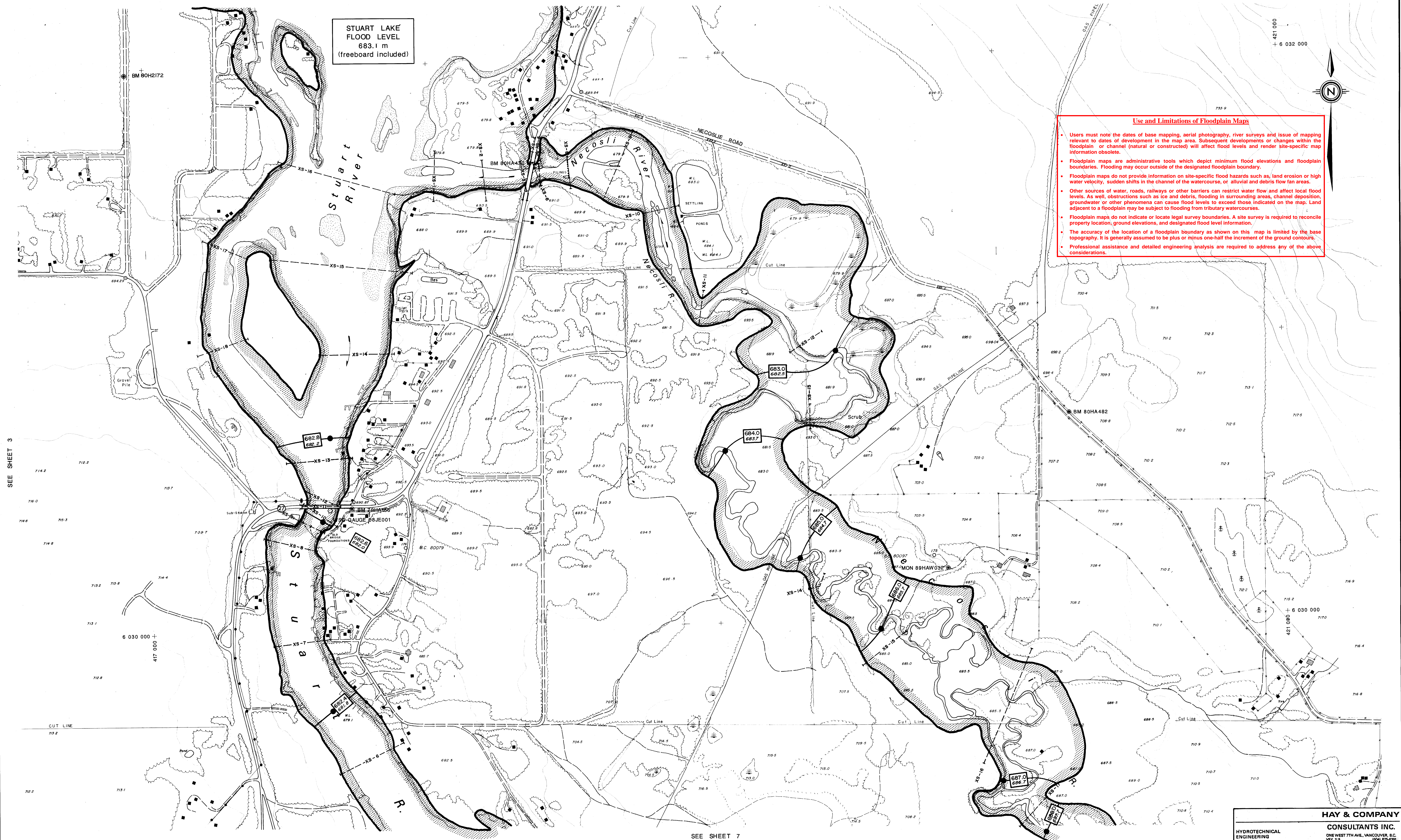
CANADA-BRITISH COLUMBIA
FLOODPLAIN MAPPING AGREEMENT
L'ACCORD CANADA-COLOMBIE-BRITANNIQUE
SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION

FILE No. 09-0000-S.1
N.T.S. MAP No. 93K
SCALE 1:5 000
NEGATIVE No.
DRAWING No. 89-42-5
SHEET 5 of 7

FLOODPLAIN MAPPING
STUART RIVER & LAKE
AT FORT ST. JAMES
(Includes Necoslie River & Nahounli Creek)

Scale in metres
100m 0 100 200 300 400 500m

SEE SHEET 5



SEE SHEET 7

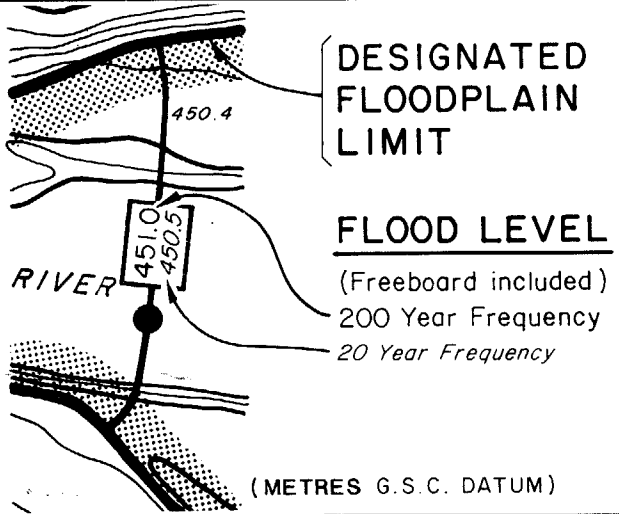
NOTES

Produced by: British Columbia Water Management Branch, Special Projects Section, Floodplain Mapping Program.
Survey: River survey done by Surveys Section, Water Management Branch, Project 88-06 F029, May 1989.
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 88-1371, dated Aug. 1989.
a) Contour interval 2 metres and greater; spot elevations shown to 0.1 metres, with accuracy to ± 0.5 metres, except where noted.
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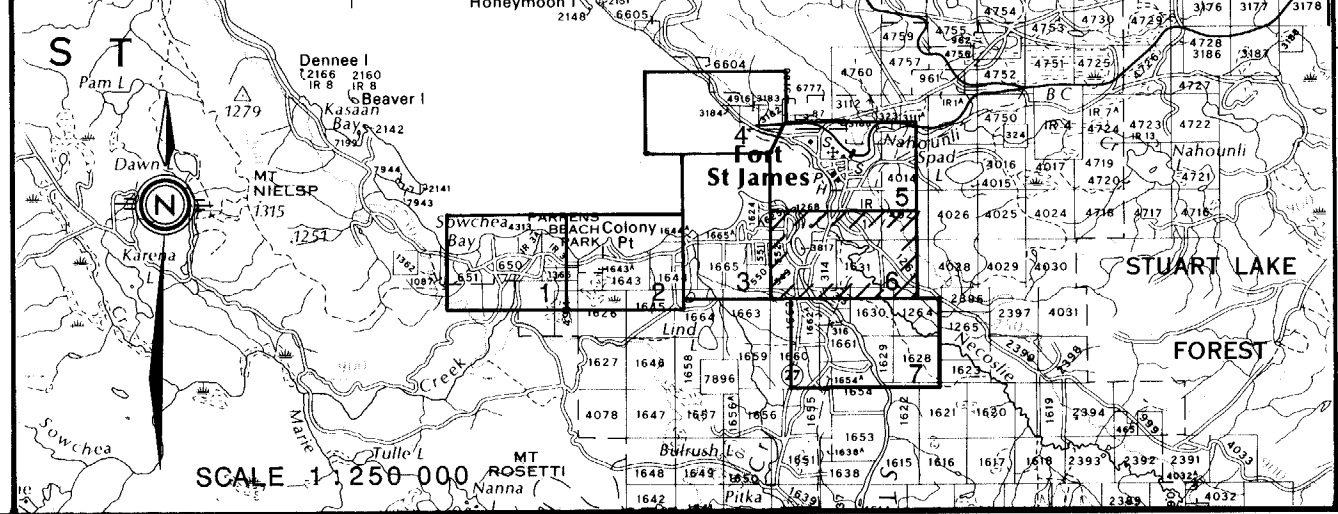
FLOODPLAIN DATA

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LEGEND



KEY MAP



REVISIONS

No.	DESCRIPTION	DATE
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4	RIVER SURVEY	M. P.
5	DESIGNED	B. B.
6	ENGINEER	R. J. Whitworth
7	RECOMMENDED	
8	APPROVED	

ISSUE OF MAPPING

DATE: SEPT. 30, 1991
DRAWN: T. E.
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RIVER SURVEY: M. P.
DESIGNED: B. B.
ENGINEER: R. J. Whitworth
RECOMMENDED:
APPROVED:
Scale in metres
100m 0 100 200 300 400 500m

ENVIRONMENT CANADA

ENVIRONMENT CANADA
ENvironnement Canada
Eaux Interieures
L'Accord Canada-Columbia-Britannique sur la Cartographie des Plaines d'Inondation

BRITISH COLUMBIA MINISTRY OF ENVIRONMENT

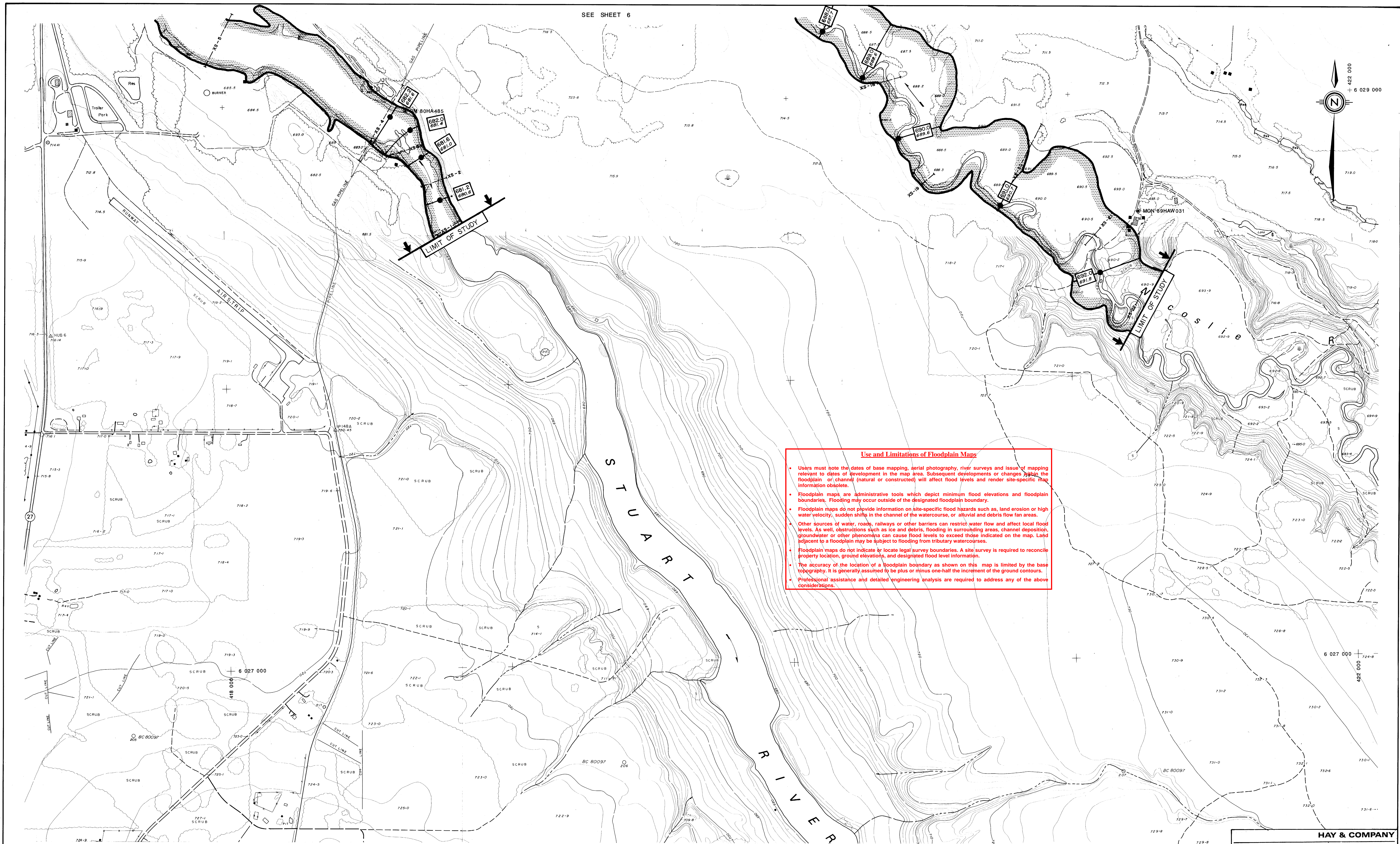
BRITISH COLUMBIA MINISTRY OF ENVIRONMENT
COLUMBIE-BRITANNIQUE MINISTÈRE DE L'ENVIRONNEMENT
L'Accord Canada-Columbia-Britannique sur la Cartographie des Plaines d'Inondation

CANADA BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT

CANADA BRITISH COLUMBIA FLOODPLAIN MAPPING AGREEMENT
L'Accord Canada-Columbia-Britannique sur la Cartographie des Plaines d'Inondation

HAY & COMPANY CONSULTANTS INC.

HYDROTECHNICAL ENGINEERING	ONE WEST 7TH AVE., VANCOUVER, B.C. V6Y 1L3 (604) 875-6391
FILE No.	09-0000-S-1
N.T.S. MAP No.	93K
SCALE	1:5 000
NEGATIVE No.	
DRAWING No.	89-42-6
REV.	
SHEET	6 of 7



NOTES

Produced by: British Columbia Water Management Branch, Special Projects Section, Floodplain Mapping Program.

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Mapping: Base mapping done by Map Production Division, Survey and Resource Mapping Branch, Project 83-1371, dated Aug 1980.

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FLOODPLAIN DATA

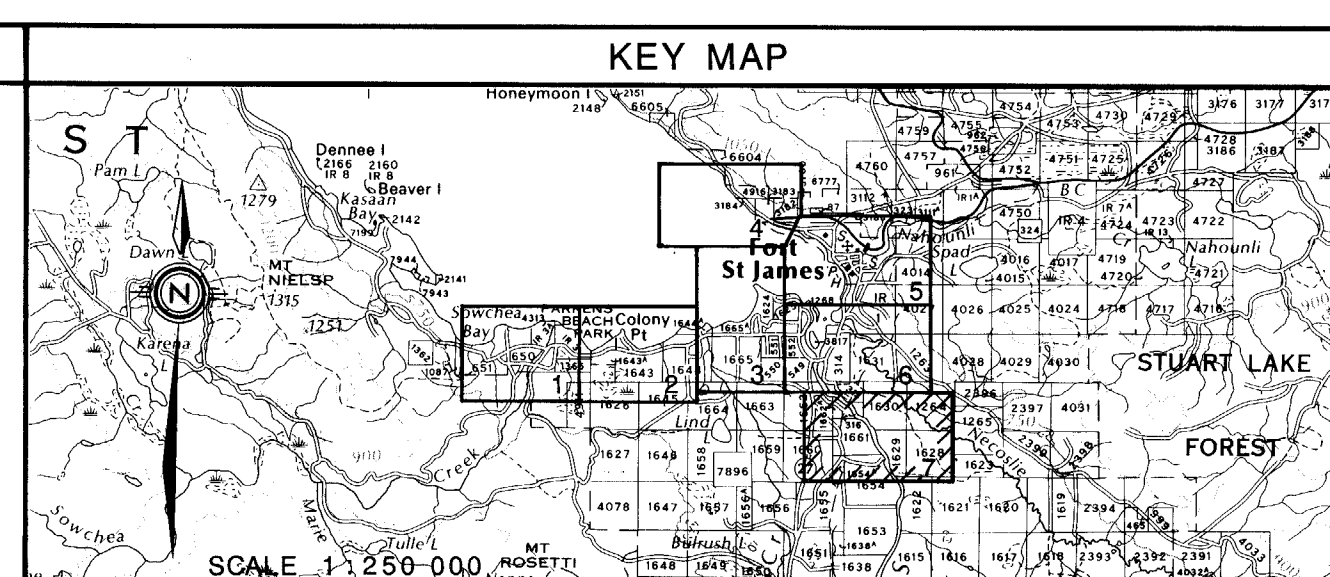
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LEGEND

DESIGNATED FLOODPLAIN LIMIT

FLOOD LEVEL
(Freeboard included)
200 Year Frequency
20 Year Frequency

(METRES G.S.C. DATUM)



REVISIONS	
No.	DESCRIPTION

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HYDROTECHNICAL ENGINEERING

ONE WEST 7TH AVE., VANCOUVER, B.C. V6Y 1L5

ENVIRONMENT CANADA
INLAND WATERS
COLOMBIE-BRITANNIQUE
MINISTÈRE DE L'ÉCARTOIR

BRITISH COLUMBIA MINISTRY OF ENVIRONMENT
COLOMBIE-BRITANNIQUE
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CANADA BRITISH COLUMBIA
FLOODPLAIN MAPPING AGREEMENT
L'ACCORD CANADA COLOMBIE-BRITANNIQUE
SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION

FILE NO. 09-0000-S.1

N.T.S. MAP NO. 93K

SCALE 1:5 000

NEGATIVE NO.

DRAWING NO. 89-42-7

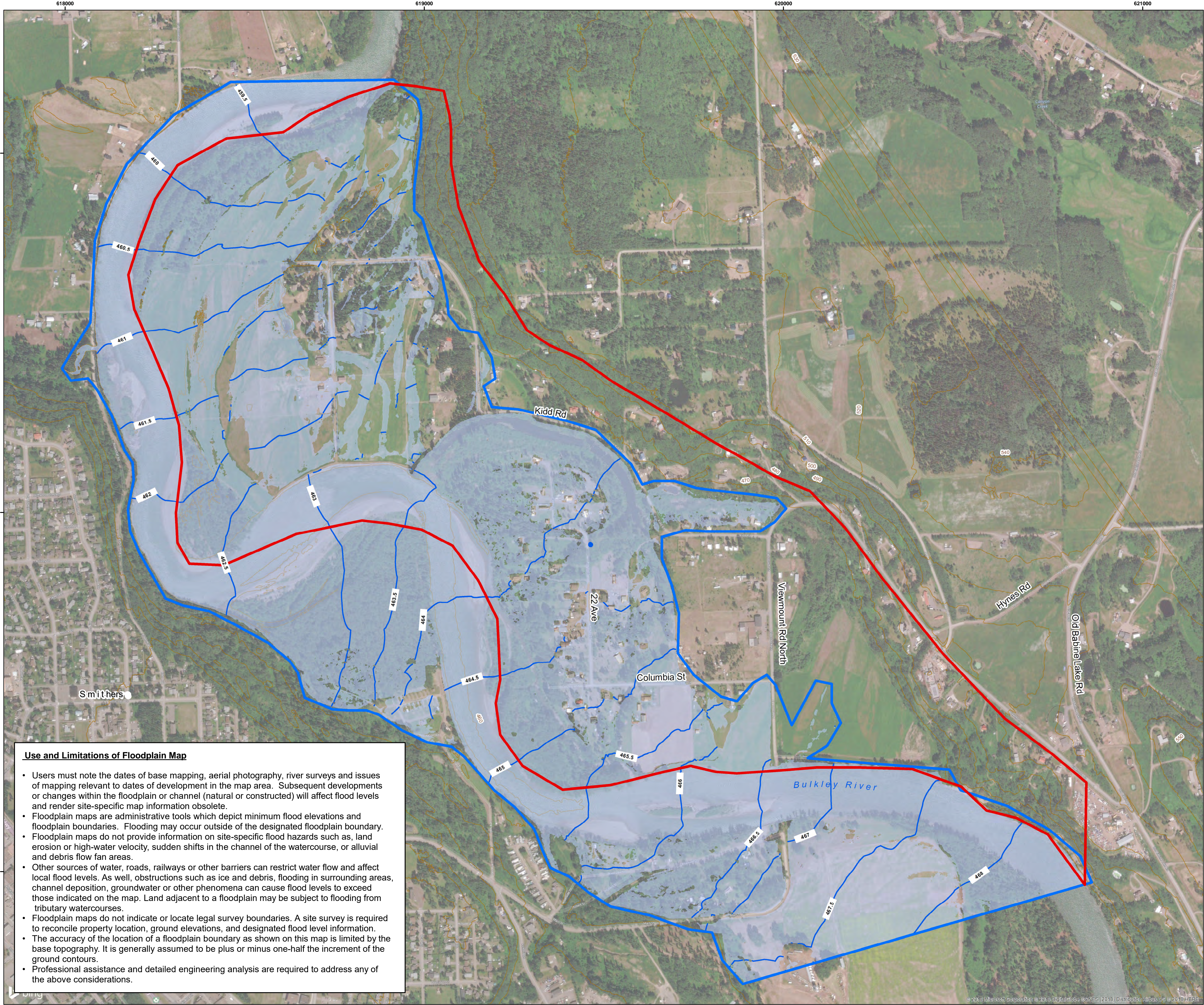
REV.

SHEET 7 of 7

Scale in metres
100m 0 100 200 300 400 500m

Scale in feet
300 0 300 600 900 1200

APPROVED *[Signature]*



**Ebenezer Flats
200-Year Flood Map**



LEGEND

- Study Area
- Designated Floodplain Limits
- Water Surface Elevation Area
- Water Surface Elevation Contour (0.5 m Interval)
- Ground Contour (10 m Interval)

NOTE:

Flood levels include 1 m of freeboard to construction level.

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