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5 436 000

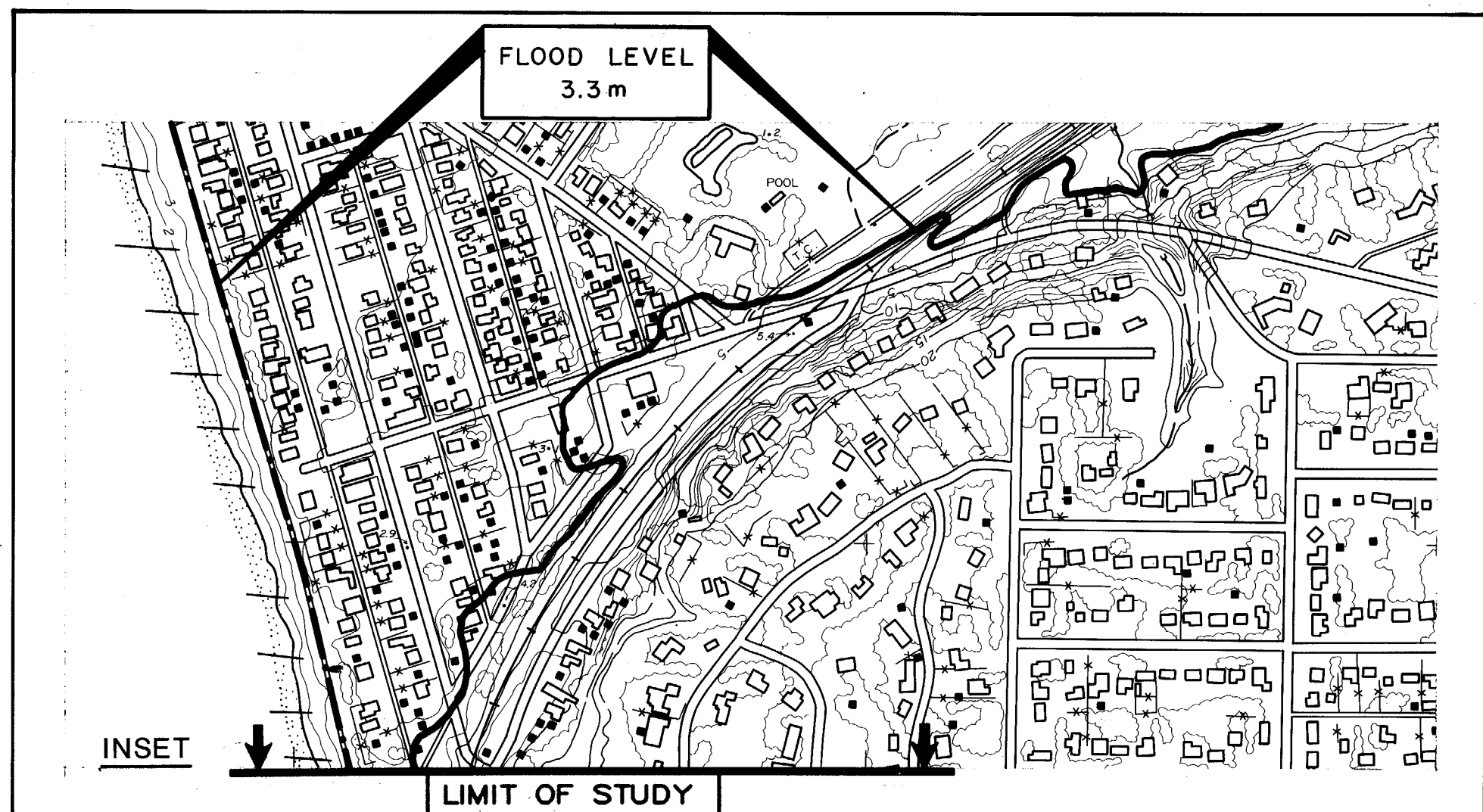
NOTES:

- 1) --- ADMINISTRATIVE LIMIT OF HORIZONTAL FLOOD LEVEL
--- DESIGNATED FLOODPLAIN LIMIT
- 2) STORM SURGE FLOOD LEVEL VARIES BETWEEN CRESCENT BEACH AND THE NORTH SHORE OF MUD BAY (SHEET 4) FROM 3.3 m TO 3.7 m.
- 3) WAVE ACTION, DEBRIS, EROSION, AND TSUNAMI WAVES PRESENT SPECIAL FLOOD HAZARDS TO COASTAL PROPERTIES. SITE SPECIFIC STUDIES MAY BE REQUIRED TO DETERMINE IF SHORE PROTECTION WORKS, INCREASED FREEBOARD ALLOWANCE, OR OTHER MEASURES ARE REQUIRED FOR PROTECTION OF PROPERTIES NEAR THE SHORE.

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.
- 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, 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.

NOTE:
MUD BAY STORM SURGE FLOOD LEVEL
3.3 m TO 3.7 m (SEE NOTES 2 AND 3)



507 500
5 433 500

M U D B A Y

Blackie Spit

Crescent Beach

SEE INSET

N I C O M E K L R I V E R

DYKE

RAILWAY EMBANKMENT

FLOOD LEVEL
3.4 m

FLOOD LEVEL
3.3 m



SEE SHEET 2

NOTE:
CHAN TRELL CREEK FLOODPLAIN LIMITS
NOT DETERMINED.

KPA ENGINEERING LTD.
consulting engineers

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.						
Produced by: British Columbia Water Management Division, Flood Hazard Identification Section, Floodplain Mapping Program.		1. The floodplain areas as depicted on this map have been 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 and Parks for British Columbia. Flooding may still occur outside of the designated floodplain areas. The Ministers do not assume any liability by reason of the designation or failure to designate areas on this map.				<table><tr><th>No.</th><th>DESCRIPTION</th><th>DATE</th></tr><tr><td>1</td><td>Spot heights added on roads and railway</td><td>1992-11-9</td></tr></table>		No.	DESCRIPTION	DATE	1	Spot heights added on roads and railway	1992-11-9	DATE: <u>SEPTEMBER 30, 1994</u>		ENVIRONNEMENT CANADA Eaux INTERIEURES		COLOMBIE-BRITANNIQUE MINISTÈRE DE L'ENVIRONNEMENT		L'ACCORD CANADA-COLOMBIE-BRITANNIQUE SUR LA CARTOGRAPHIE DES PLAINES D'INONDATION		900-0055
No.	DESCRIPTION	DATE																				
1	Spot heights added on roads and railway	1992-11-9																				
Survey: River survey done by Surveys Section, Water Management Branch, Project 9102 F041. a) Horizontal control based on provincial network. b) Elevations are in metres and are referred to Geodetic Survey of Canada datum. (Ⓢ indicates Survey Monument).		2. The Designated Flood has a statistical frequency of occurrence of once every 200 years on average. 3. The flood levels were computed using the One-D Hydrodynamic Model for unsteady flow. 4. The floodplain limits assume that dikes can fail. 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. Building elevations should be based on a field survey and established bench marks. 7. The floodplain limits are not delineated for 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 and Parks.				DRAWN: <u>S.S./J.J.</u> CHECKED: <u>Y.S.</u> RIVER SURVEY DESIGNED: <u>Y.S.</u>		FLOODPLAIN MAPPING SERPENTINE & NICOMEKL RIVERS		N.T.S. MAP No. 92G/2 SCALE 1:5 000 NEGATIVE No.		DRAWING No. REV. 91-5-1 SHEET 1 of 14										
Mapping: Base mapping done by Map Production Division, Surveys and Resource Mapping Branch, Project 87-085 dated May, 1990, NAD 27, Air photography 1989. a) Grid origin referred to U.T.M. Projection Zone 10. b) In well defined areas not obscured by vegetation or shallow, randomly selected points on a 1:50,000 scale map will have an accuracy of ± 1/2 the contour interval for 90% of the points, and spot elevations will have an accuracy of ± 1/2 the contour interval for 90% of the points, unless otherwise specified. See the Floodplain Mapping User's Guide for further details.		8. MAPS AVAILABLE FROM THE MINISTRY OF ENVIRONMENT, LANDS AND PARKS, SURVEYS AND RESOURCE MAPPING BRANCH, MAPS B.C., MAP AND AIR PHOTO SALES, VICTORIA, B.C.																				