

DEPARTMENT OF AGRICULTURE - CANADA  
P. F. R. A.  
WATER DEVELOPMENT BRANCH

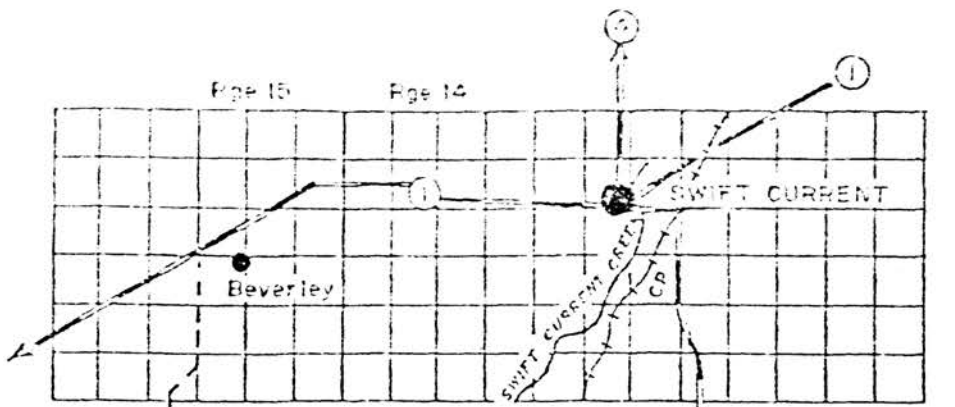
**WINA CREEK STORAGE PROJECT**  
SE-19-13-10-3  
**TOPOGRAPHY & PROFILE**  
WITH  
**TESTHOLE LOGS & LOCATIONS**

SCALE: AS SHOWN      DATE: March 9, 1950      SHEET

SUBMITTED BY: *R. P. ...*  
DATE: *2/9/50*  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

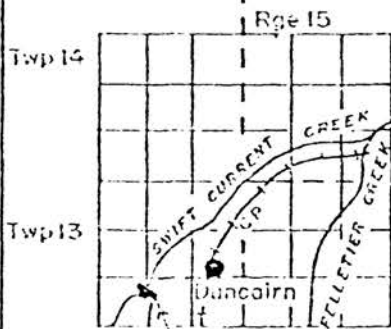
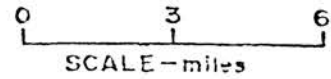
DESIGNED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**PLAN NO. 5832-51**



No.1 Hwy. to  
Duncairn turn-  
off 13 miles.

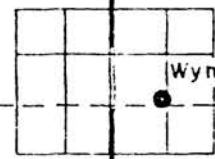
Swift Current to  
Wymark turn-off  
12 miles



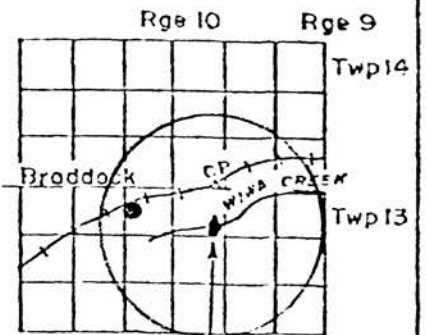
**DUNCAIRN DAM**  
NW 1/4 7-13-15-W3

1 mile west of Duncairn  
1/4 mile south.

Duncairn to  
Wymark 15  
miles

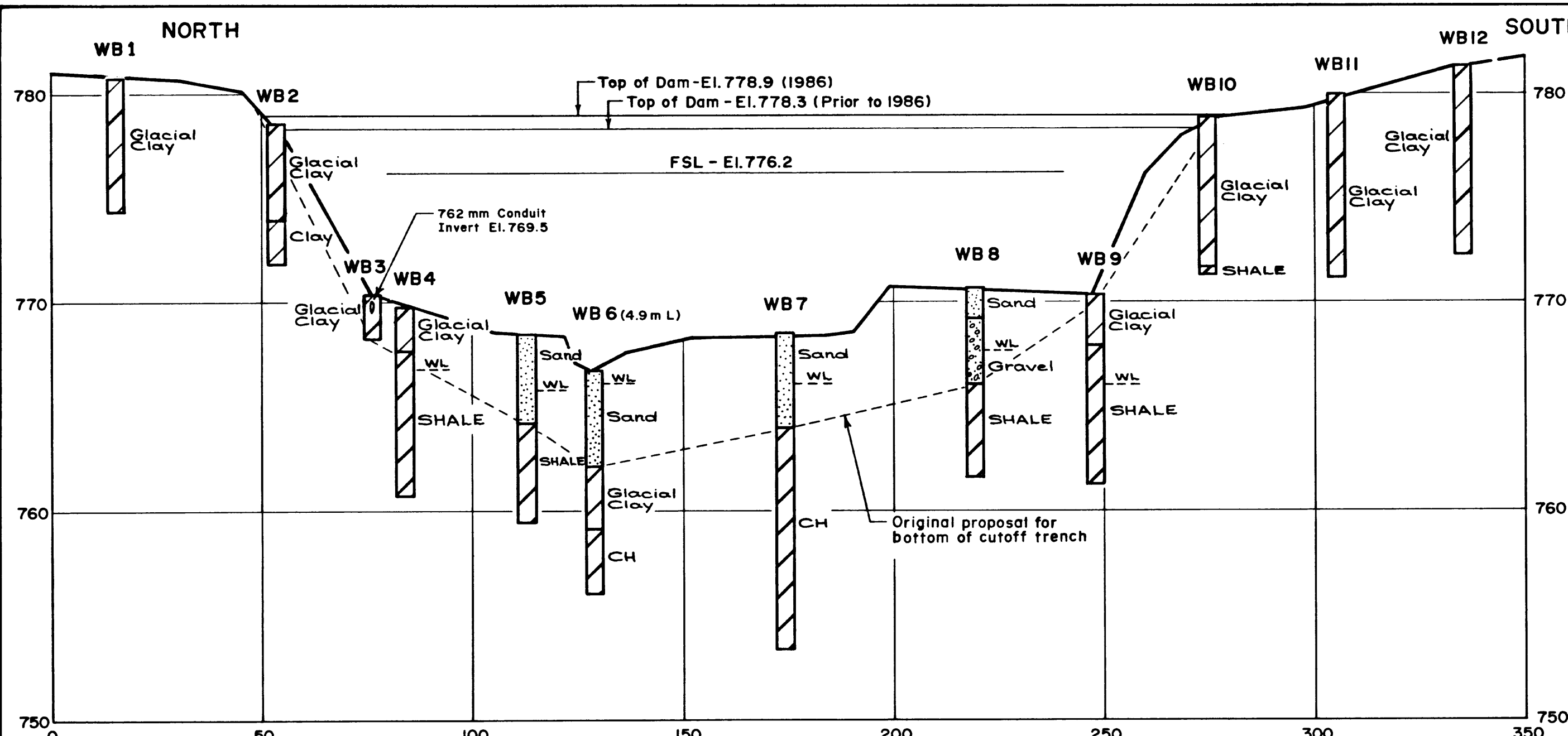


Wymark to Braddock 15 miles



**BRADDOCK DAM**  
SE 1/4 19-13-10-W3

DESIGNED	CANADA DEPARTMENT OF REGIONAL ECONOMIC EXPANSION PERA ENGINEERING SERVICE	BRADDOCK DAM				
CHECKED		<b>SITE LOCATION</b>				
DATE	SUBMITTED: <i>K.H. Lamb</i> DATE: <i>28 April 76</i>	APPROVED: _____ DATE: _____ CHIEF ENGINEER	SCALE AS SHOWN	DATE 1976	SHEET OF 39952	1



**M** ALL DIMENSIONS, STATIONING AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SHOWN

**LEGEND**

Note - All symbols shown may not appear on plan

	Topsoil or no sample		ML Inorganic silts
	Pt Peat, muskeg		CL Inorganic clays, low plasticity
	GW Well-graded gravels		OL Organic silts, low plasticity
	GP Poorly graded gravels		CI Inorganic clays, med. plasticity
	GM Silty gravels		MH Inorganic silts
	GC Clayey gravels		CH Inorganic clays, high plasticity
	SW Well-graded sands		OH Organic clays, high plasticity
	SP Poorly-graded sands		Shale
	SM Silty sands		Sandstone
	SC Clayey sands		Siltstone

Unless otherwise indicated:

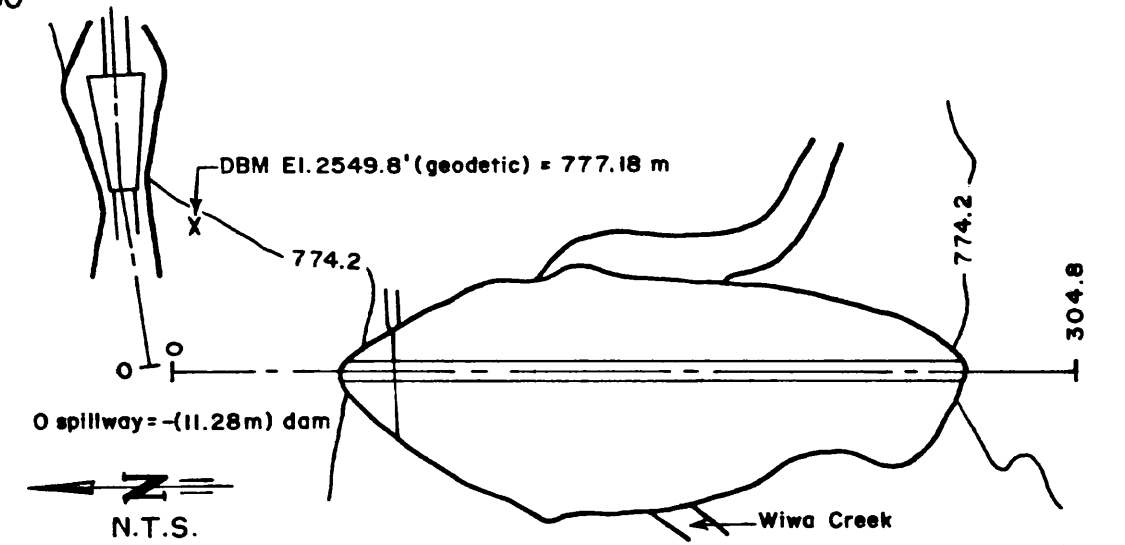
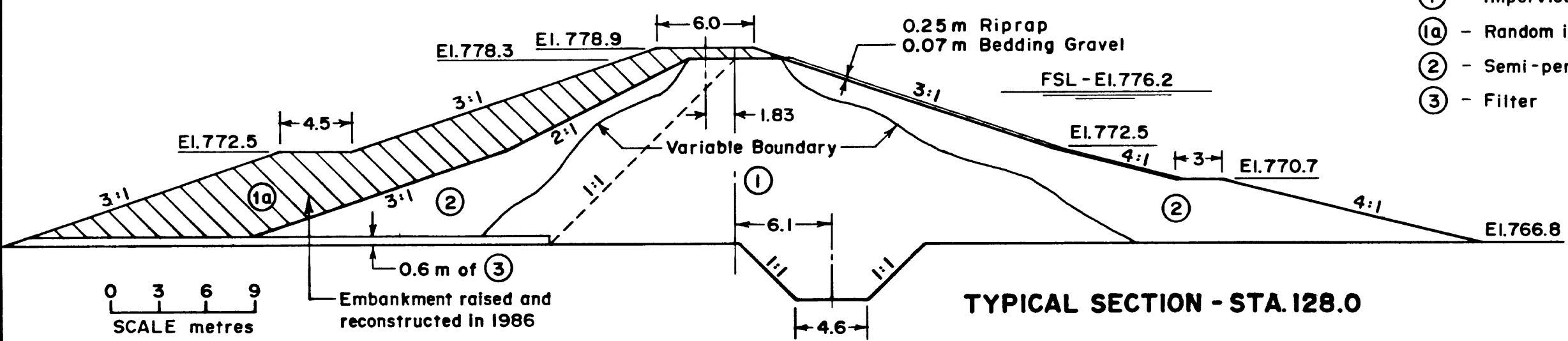
- Gradation of granular soil assumed to be fine to coarse
- All overburden is alluvial or assumed alluvial
- All overburden is brown or assumed brown
- All bedrock is grey or assumed grey

Note - Profile and Hole Logs taken from Plan 31324  
 - Cross-Section taken from Plan 72029-1

**PROFILE DAM C**

**LEGEND**

- ① - Impervious
- ①a - Random impervious
- ② - Semi-pervious
- ③ - Filter



0 3 6 9  
SCALE metres

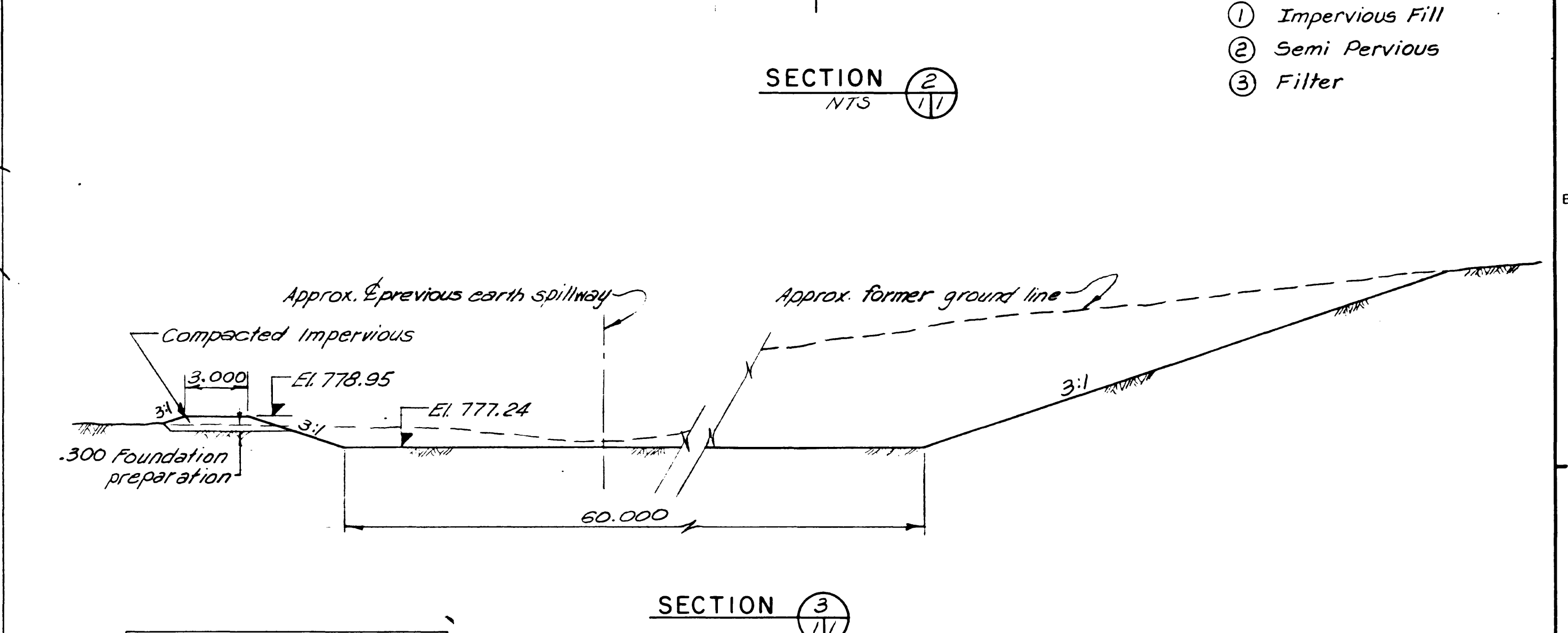
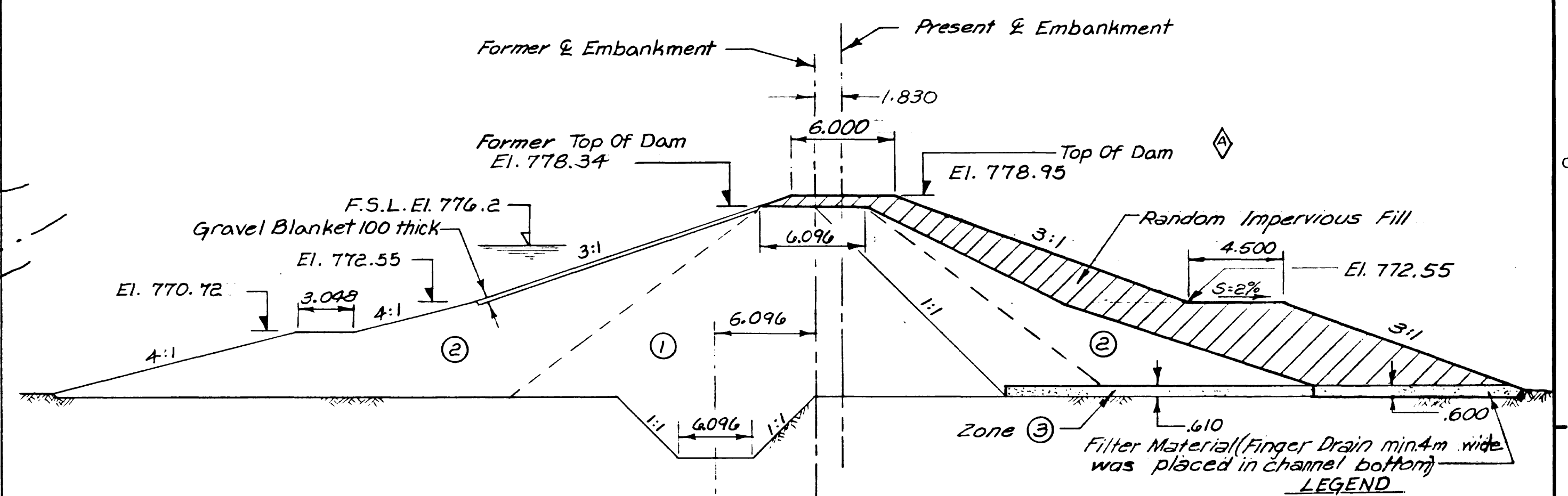
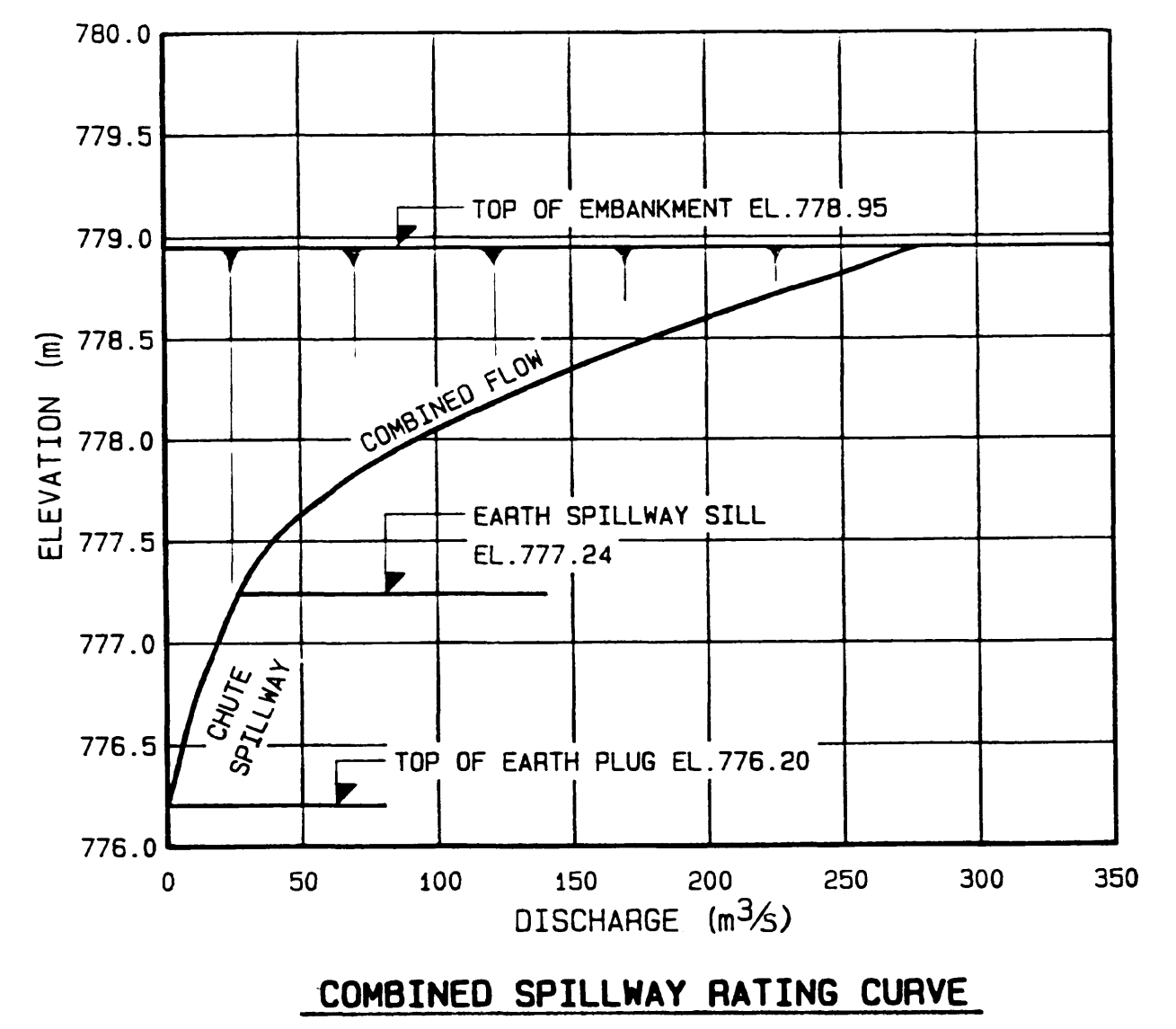
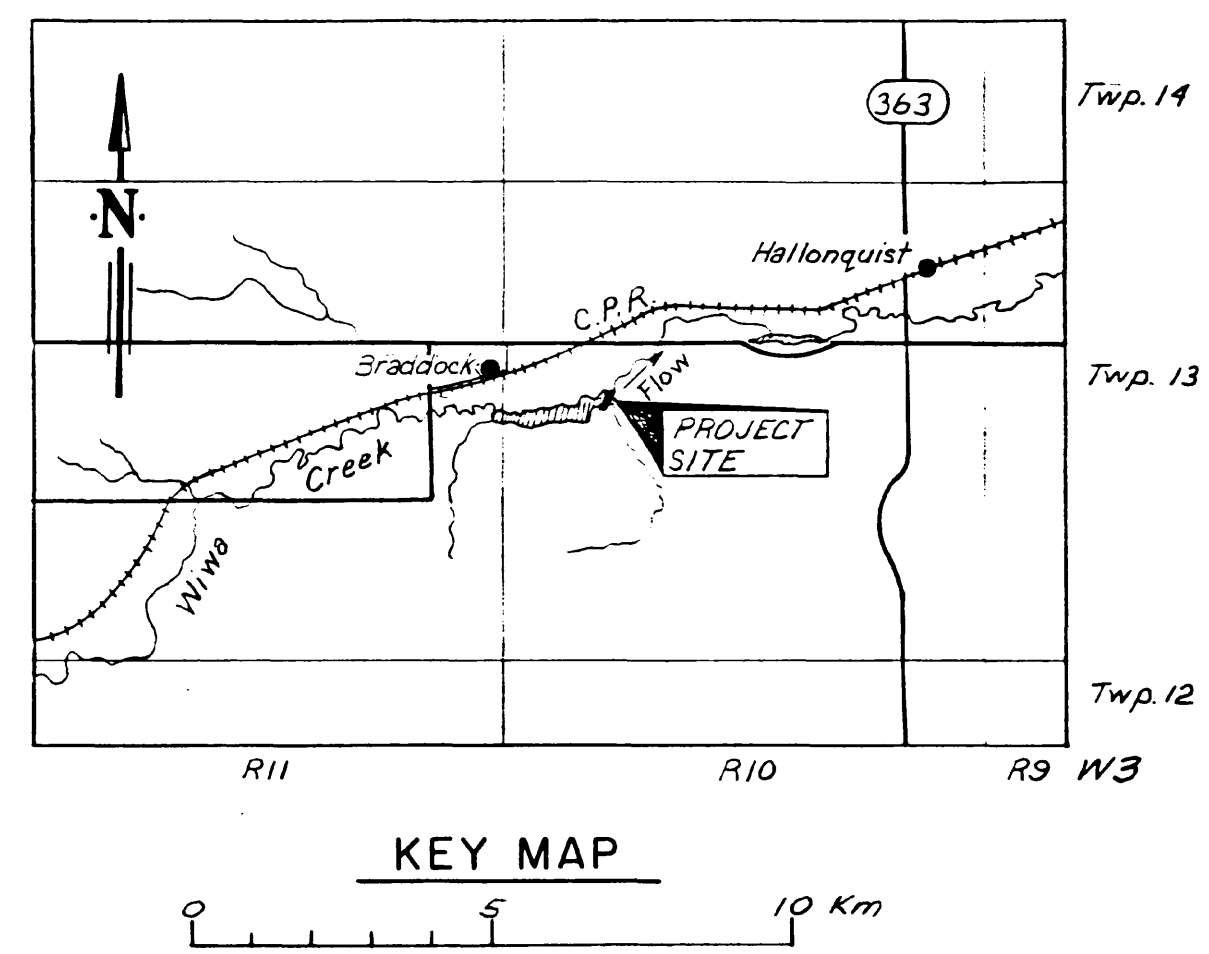
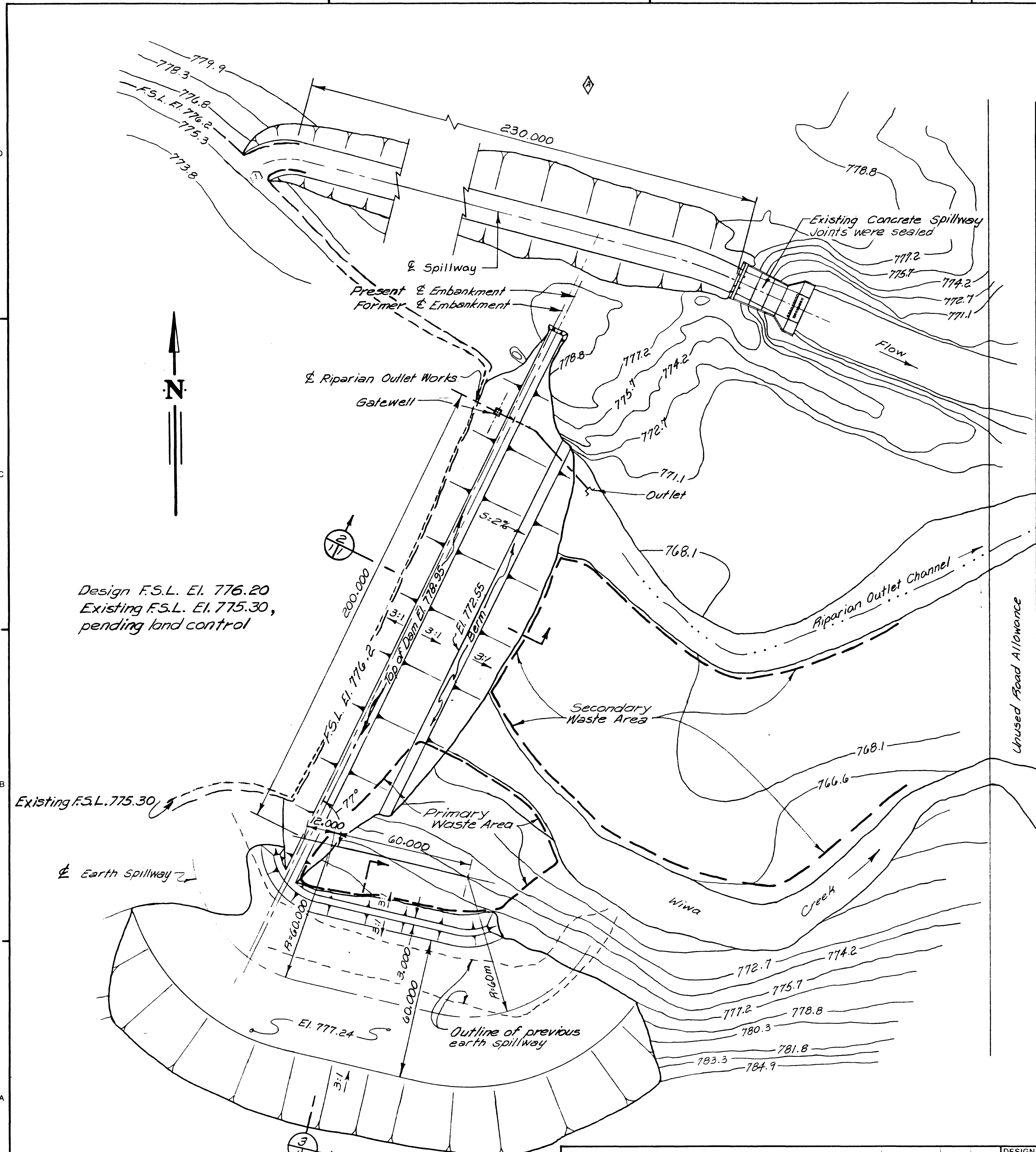
Embankment raised and reconstructed in 1986

**TYPICAL SECTION - STA. 128.0**

"D" Revision - 3 Feb 88

DESIGNED	SUBMITTED <i>N. P. [Signature]</i>	Agriculture Canada Prairie Farm Rehabilitation Administration Administration du Rétablissement Agricole des Prairies	BRADDOCK DAM	
DRAWN <i>[Signature]</i>	DATE 84-03-07		DAM CENTERLINE PROFILE AND CROSS SECTION	
CHECKED <i>[Signature]</i>	APPROVED _____ DATE _____ CHIEF ENGINEER PFRA	ENGINEERING BRANCH	SCALE AS SHOWN	DATE Mar 84
				SHEET OF 102 364 D





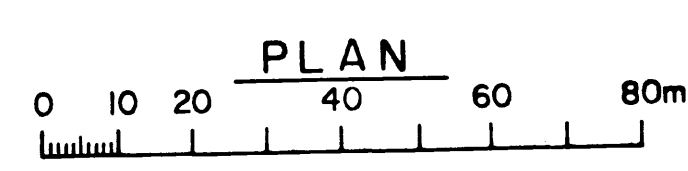
**REFERENCE SYSTEM**

Item number, Detail, Section, etc. numbered consecutively on each sheet.

Originating sheet number. Sheet on which item is indicated and numbered.

Sheet number on which Detail, Section, etc. is drawn.

ALL DIMENSIONS, STATIONING AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SHOWN



MARK	GRID REF.	NATURE OF REVISION	DATE	ENG. BY	DRN. BY	WHOM
1		Removed earth plug & section, wording in past tense Feb '89		ER		

DESIGNED *Kevin F. Day*

DRAWN *Kevin F. Day*

CHECKED *Kevin F. Day*

APPROVED *Kevin F. Day*

DATE 85-08-30

DATE 85-08-30

Agriculture Canada

Prairie Farm Rehabilitation Administration

Administration du Rétablissement agricole des Prairies

ENGINEERING SERVICE

BRADDOCK DAM

PROJECT MODIFICATIONS

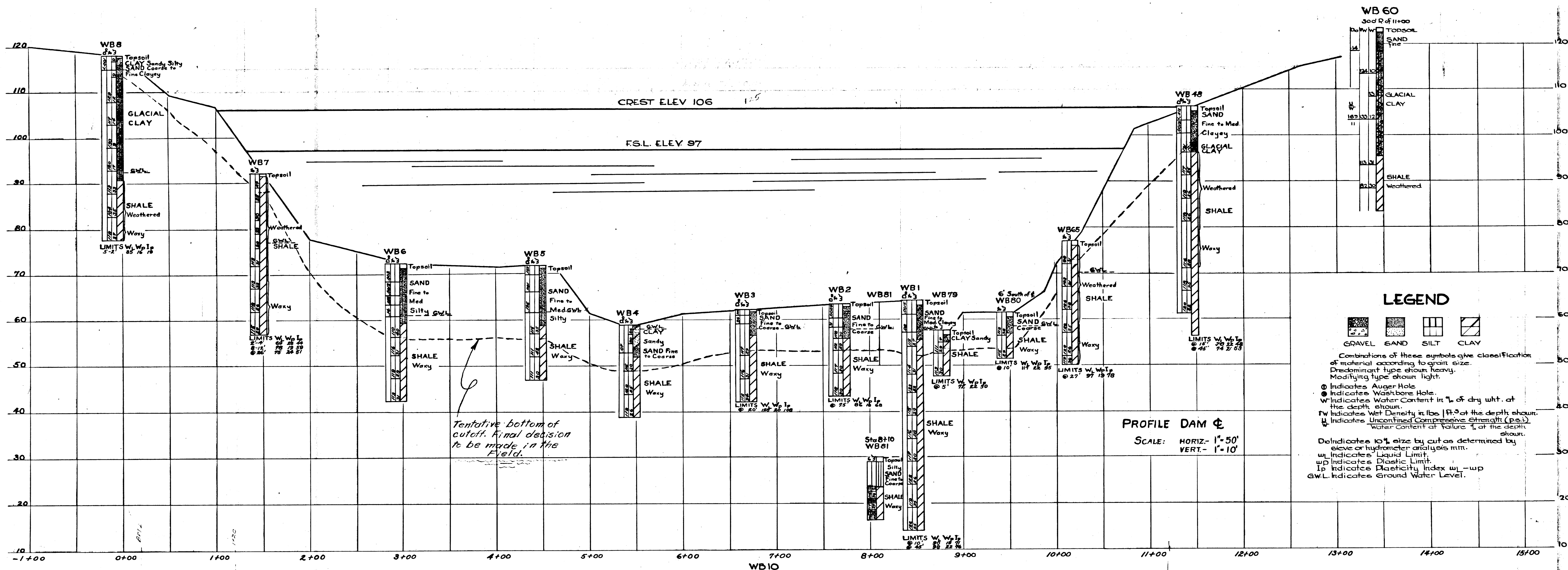
GENERAL PLAN

SCALE AS SHOWN

DATE AUG. '85

SHEET 1 OF 2

CI12045



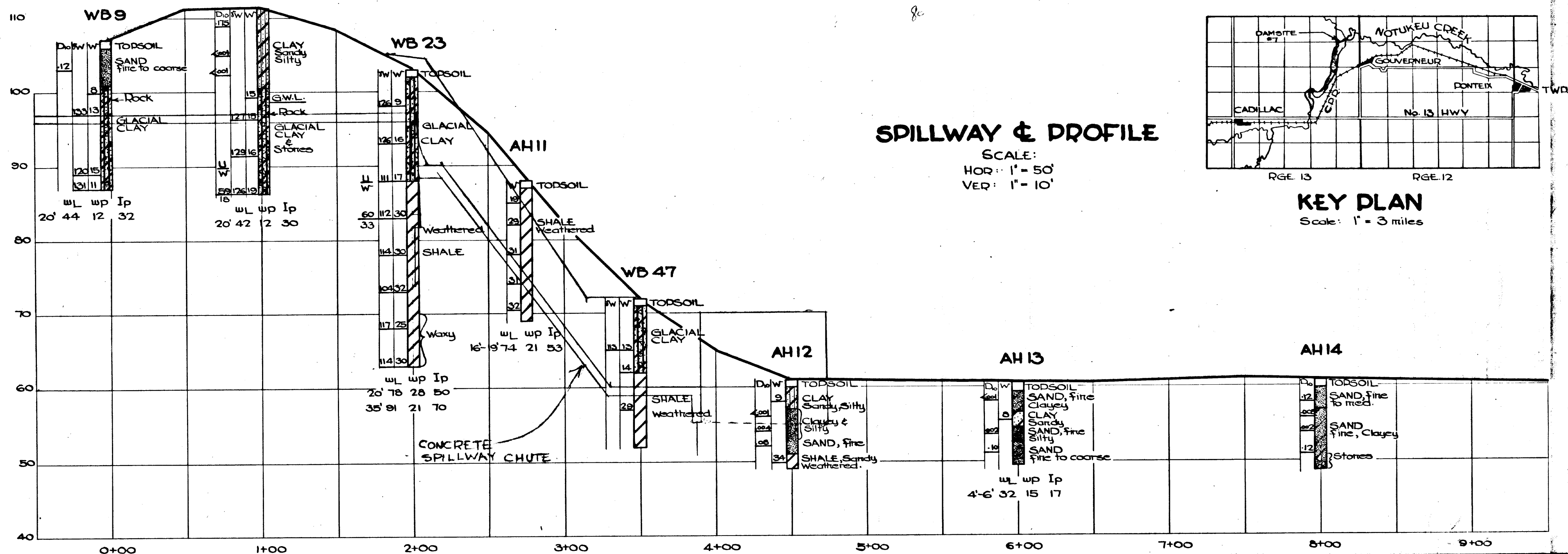
**LEGEND**

GRVEL SAND SILT CLAY

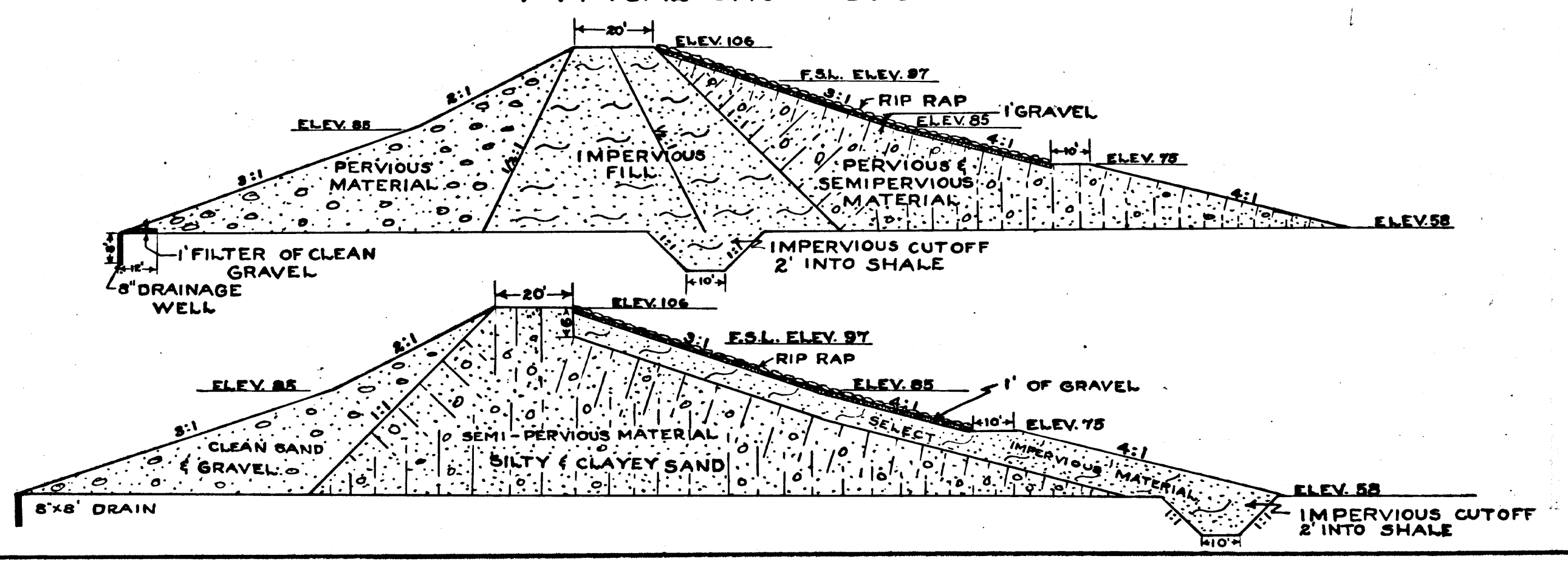
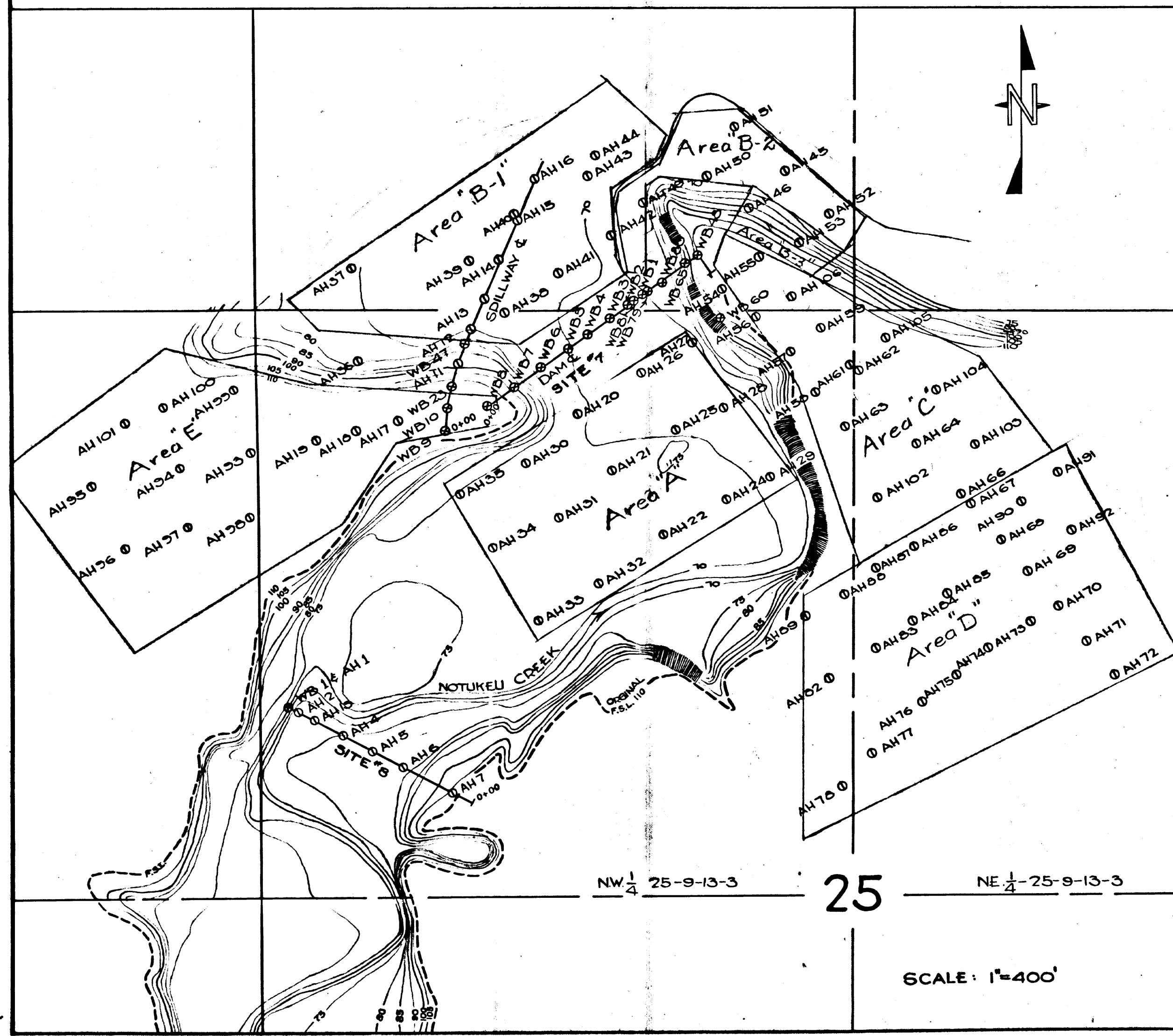
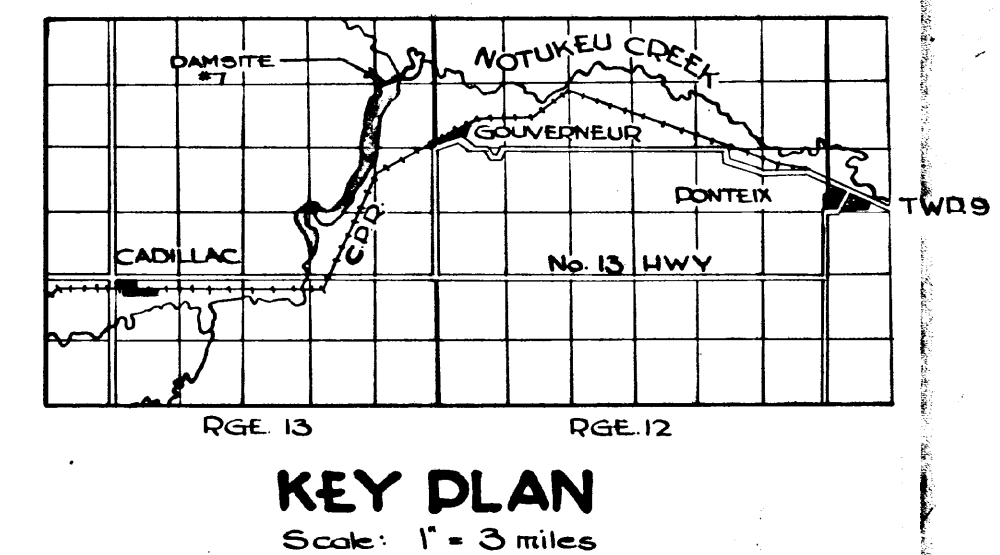
Combinations of these symbols give classification of material according to grain size. Predominant type shown heavy. Modifying type shown light.

O Indicates Auger Hole  
 ⊙ Indicates Washbore Hole  
 W Indicates Water Content in % of dry wgt. at the depth shown.  
 Wp Indicates Wet Density in lbs. (ft.<sup>3</sup>) at the depth shown.  
 U Indicates Unconfined Compressive Strength (p.s.f.) water content at failure, % of the depth shown.  
 D Indicates 10% size by cut as determined by sieve or hydrometer analysis mm.  
 wl Indicates Liquid Limit  
 wp Indicates Plastic Limit  
 Ip Indicates Plasticity Index wl - wp  
 G.W.L. Indicates Ground Water Level.

**PROFILE DAM & SPILLWAY**  
 SCALE: HORIZ.- 1"=50'  
 VERT.- 1"=10'



**SPILLWAY & PROFILE**  
 SCALE: HORIZ.- 1"=50'  
 VERT.- 1"=10'



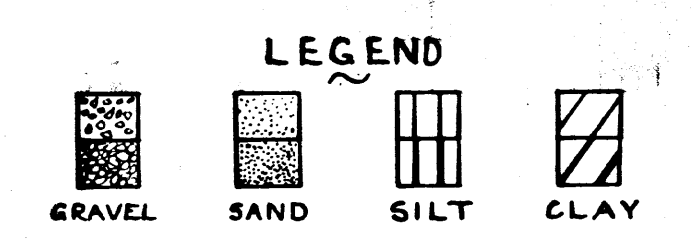
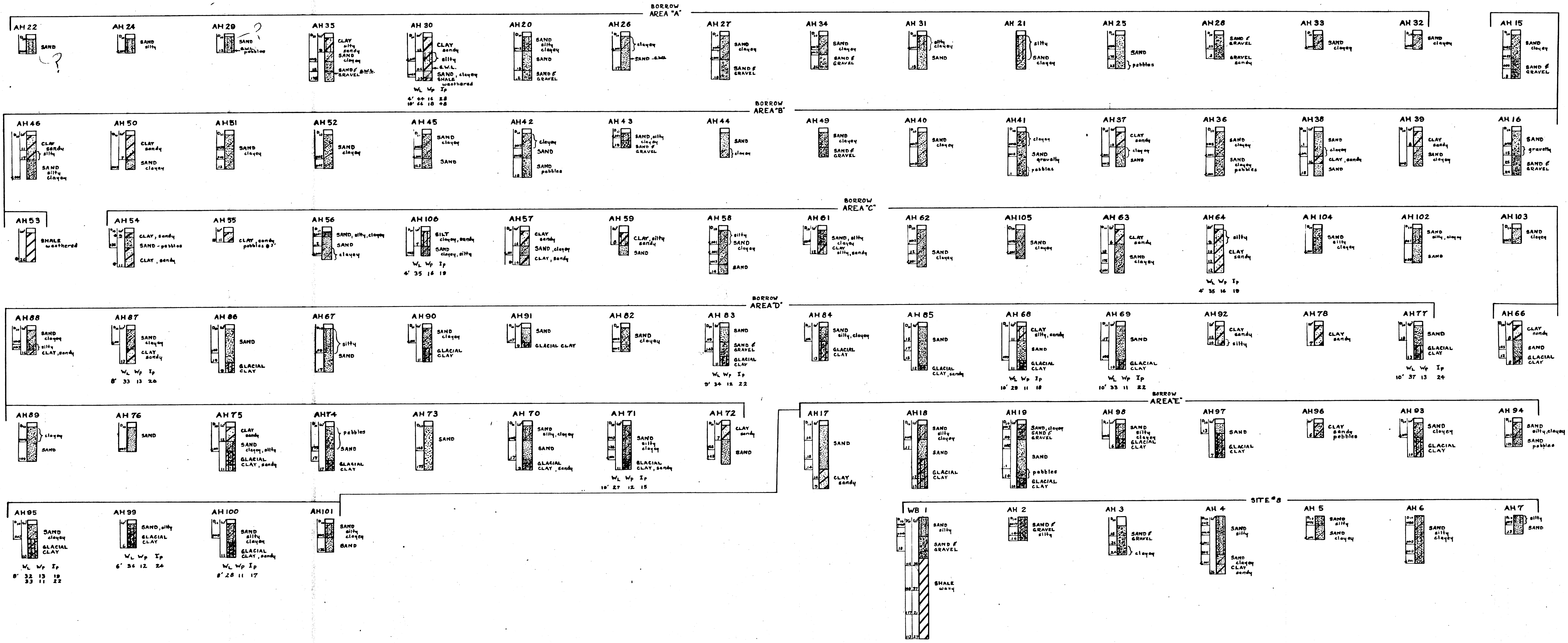
DEPARTMENT OF AGRICULTURE-CANADA  
 P. F. R. A.  
 WATER DEVELOPMENT BRANCH  
 NOTUKEU CREEK PROJECT  
 SITE #7-GOUVERNEUR  
 NW 1/4, SEC. 25, T9S, R13, W3  
**PLANS SHOWING HOLE LOCATIONS  
 DAM & SPILLWAY PROFILES  
 SUGGESTED DESIGN**

SCALE AS SHOWN DATE JAN. 30, 1951 SHEET

SUBMITTED BY: *R. P. ...*  
 DATE: *Jan 27*  
 APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: J.E.M., E.A.M.  
 TRACKED BY: J.E.M., D.J.N., E.A.M.  
 CHECKED BY: \_\_\_\_\_  
 PLAN No. **72677-51**  
 31293





Combinations of these symbols give classification of material according to grain size. Predominant type shown heavy. Modifying type shown light.

$D_{10}$  Indicates the 10% size by wt. as determined by sieve or hydrometer analysis - m.m.

$w$  Indicates the Water Content in % of dry wt. at the depth shown.

$\gamma_w$  Indicates Wet Density in lbs./ft.<sup>3</sup> at the depth shown.

$W_L$  Indicates Liquid Limit

$W_p$  Indicates Plastic Limit

$I_p$  Indicates Plasticity Index =  $W_L - W_p$

$G.W.L.$  Indicates Ground Water Level

\* Indicates not natural water content.

DEPARTMENT OF AGRICULTURE-CANADA  
P. F. R. A.  
WATER DEVELOPMENT BRANCH

**NOTUKEU CREEK PROJECT**  
**SITE #7-GOUVERNEUR**  
NW 1/4, SEC. 25, TP 9, R 13, W 3

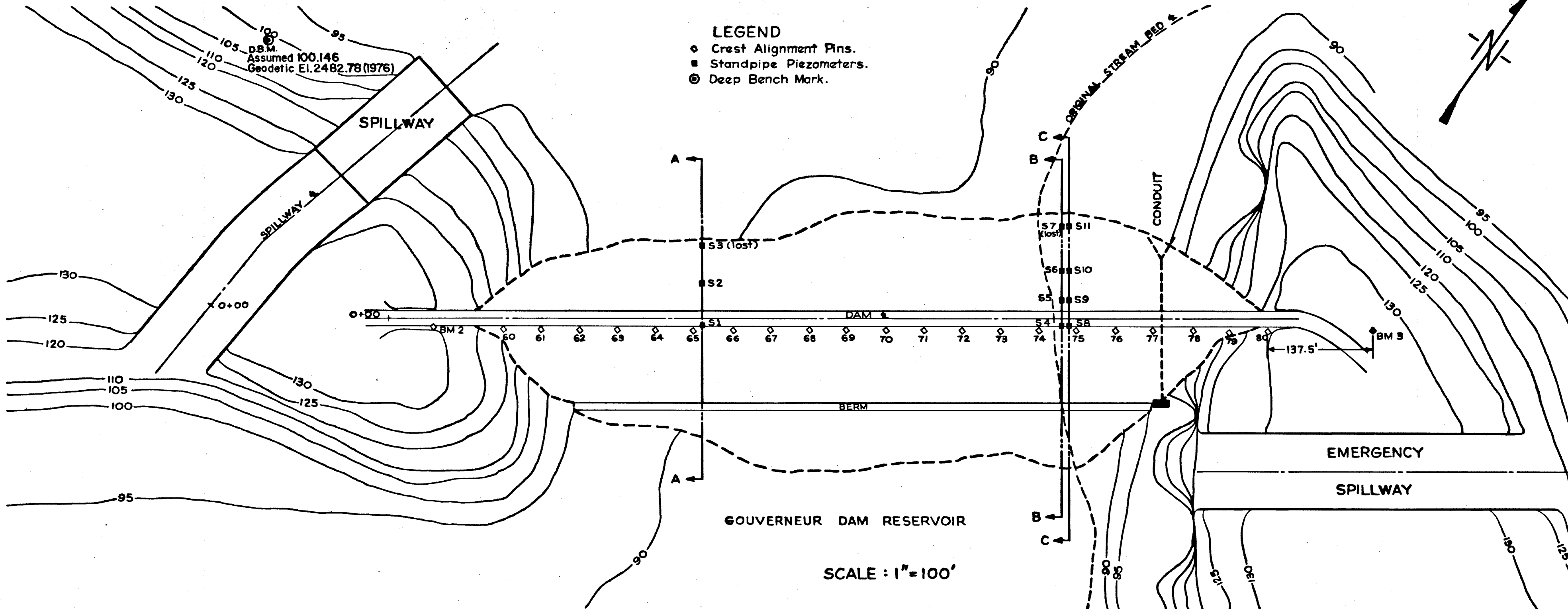
**PLAN SHOWING TEST HOLE LOGS  
OF MISCELLANEOUS HOLES**

SCALE 1"=10'      DATE FEB. 6, 1951      SHEET

SUBMITTED BY <i>R. Allen</i>	DESIGNED BY
DATE Feb 8/51	DRAWN BY T.H.
APPROVED BY	TRACED BY T.H.
DATE	CHECKED BY
	PLAN No. <b>72677-5-2</b>

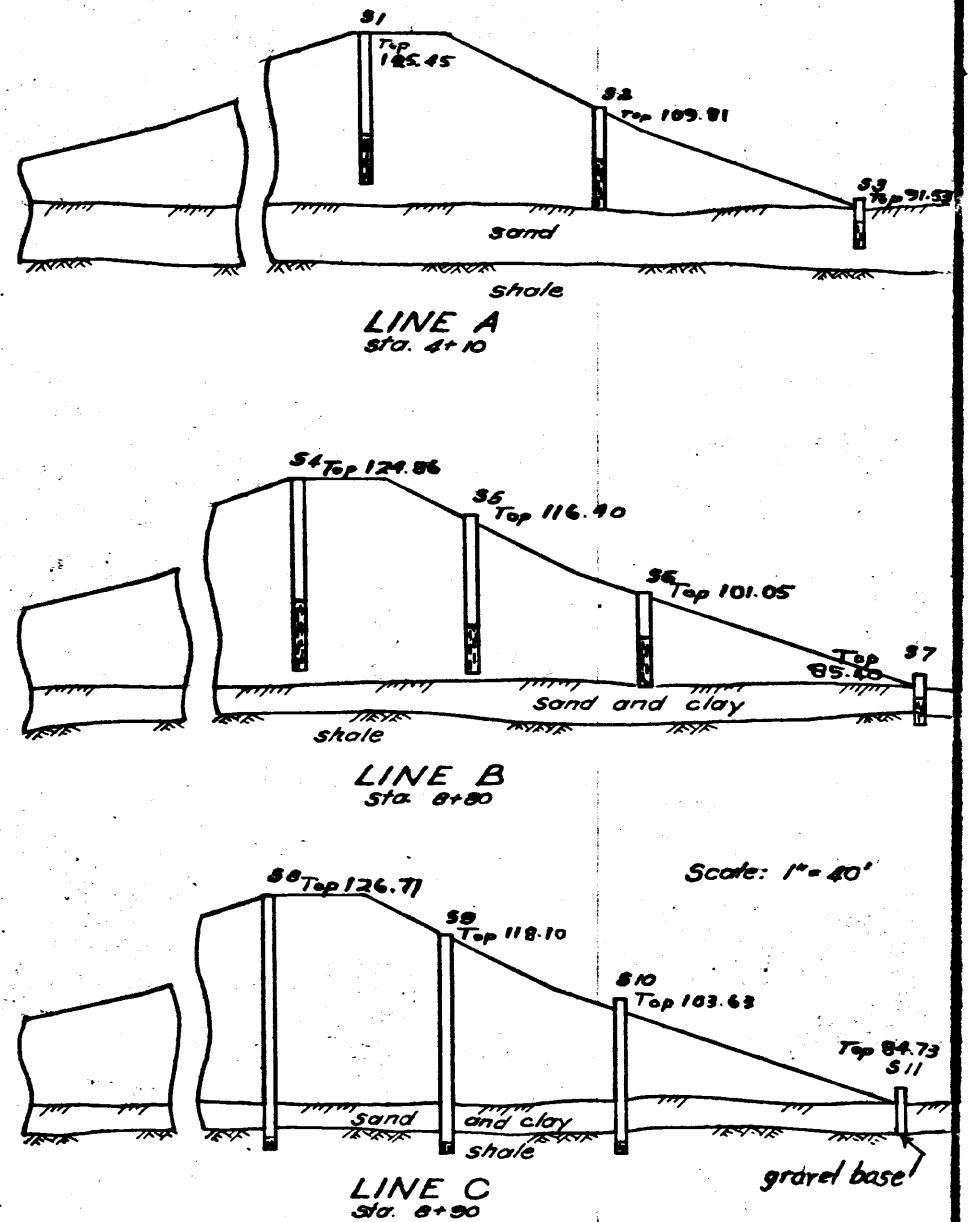
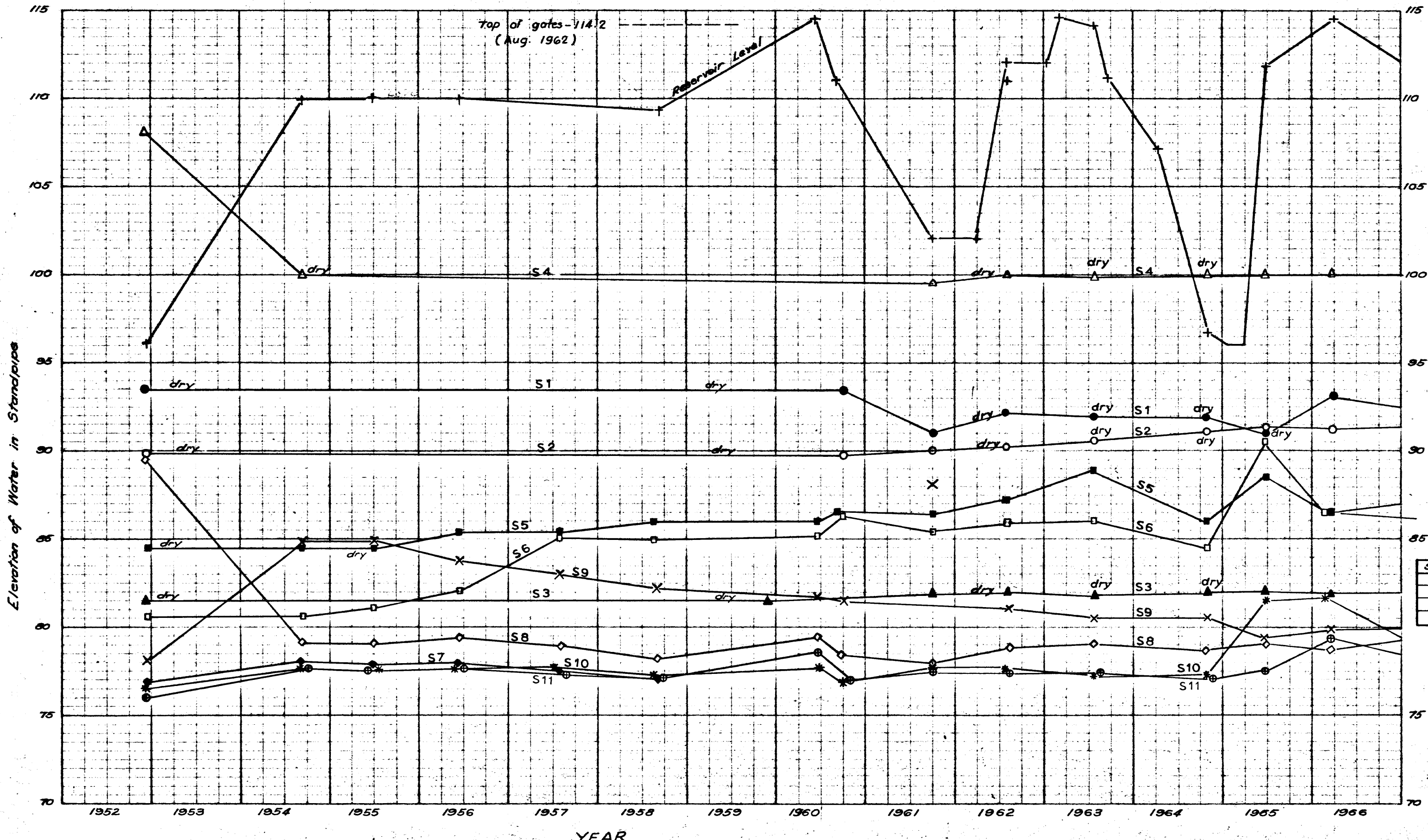
NOTE - For spillway instrumentation layout see Plan No. 101056.

- LEGEND**
- ◆ Crest Alignment Pins.
  - Standpipe Piezometers.
  - ⊙ Deep Bench Mark.



SCALE: 1" = 100'

DESIGNED	CANADA DEPARTMENT OF REGIONAL ECONOMIC EXPANSION		GOUVERNEUR DAM	
DRAWN	P. F. R. A. ENGINEERING SERVICE		LOCATION PLAN	
TRACED E.A.M.	SUBMITTED <i>K. [Signature]</i>	APPROVED	SCALE AS SHOWN	DATE APRIL, 1961
CHECKED A.W.B., C.L.	DATE June 20 '62	CHIEF ENGINEER	SHEET OF	31314
				4



STANDPIPE	SYMBOL	STANDPIPE	SYMBOL	STANDPIPE	SYMBOL
1	●	5	■	9	X
2	○	6	□	10	*
3	▲	7	◆	11	●
4	△	8	◇	Res. Water Elev.	+

CANADA  
DEPARTMENT OF REGIONAL ECONOMIC EXPANSION  
P. F. R. A.  
ENGINEERING SERVICE  
GOUVERNEUR DAM  
1952 - 1966  
PIEZOMETRIC & STANDPIPE  
WATER ELEVATIONS

AS SHOWN APRIL 1961 SHEET

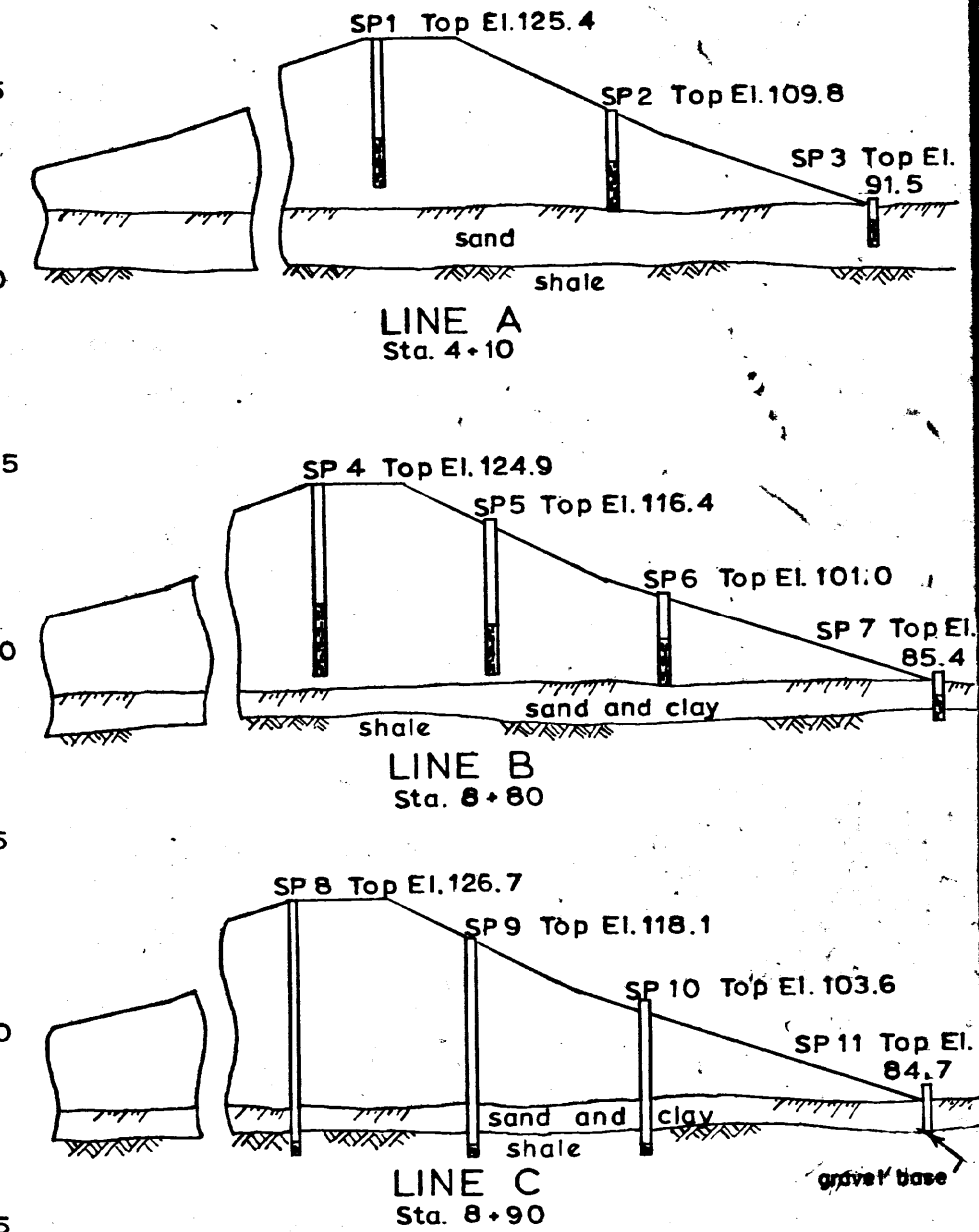
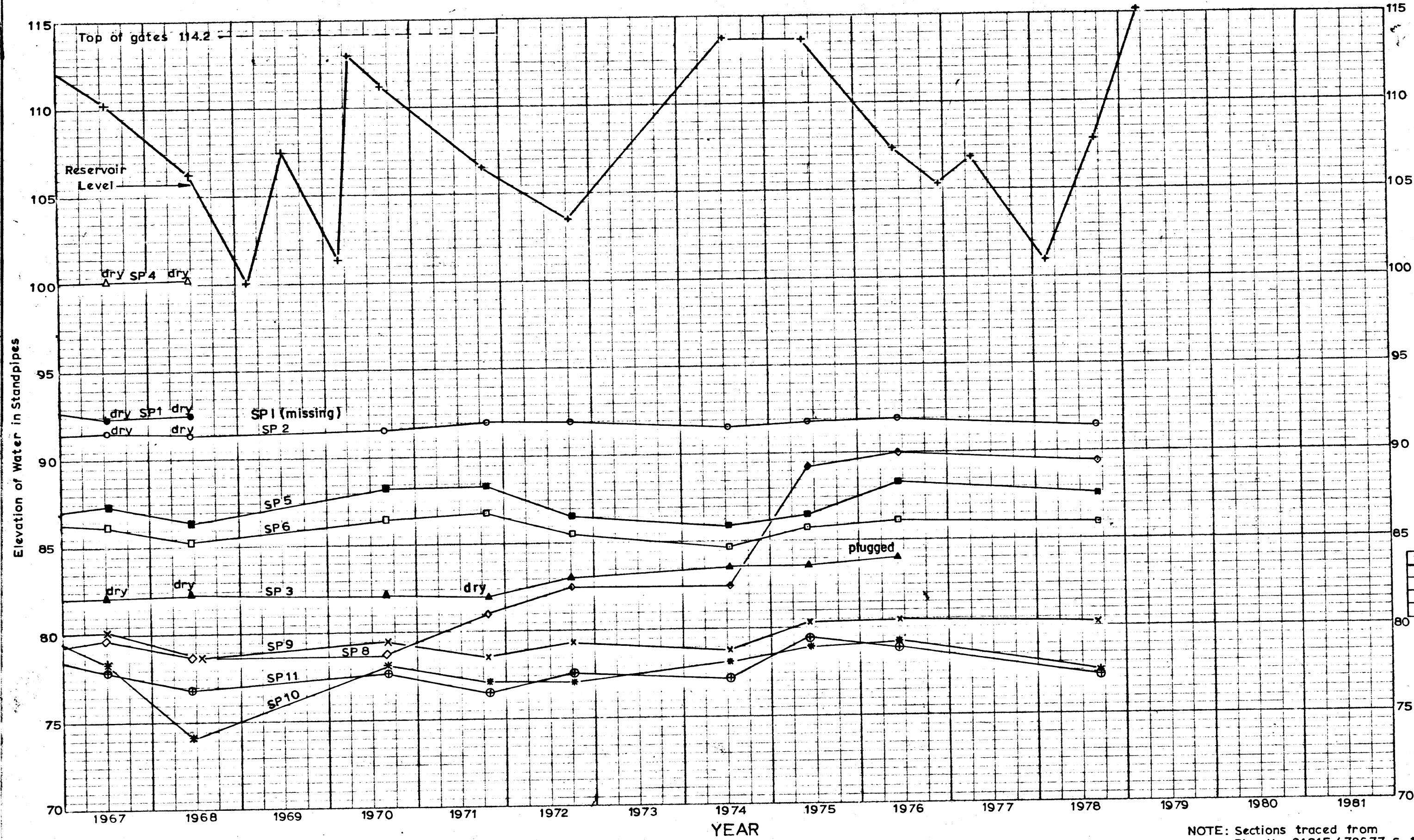
APPROVED: *R. V. [Signature]*  
DATE: June 24/62

DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: W.N.M.

31315 c 6

C - Revised sections - Aug 1979  
B - S9 line revised - July 1979





Standpipe	Symbol	Standpipe	Symbol	Standpipe	Symbol
1	●	5	■	9	×
2	○	6	□	10	*
3	▲	7	◆	11	⊕
4	△	8	◇	Res. Elev.	+

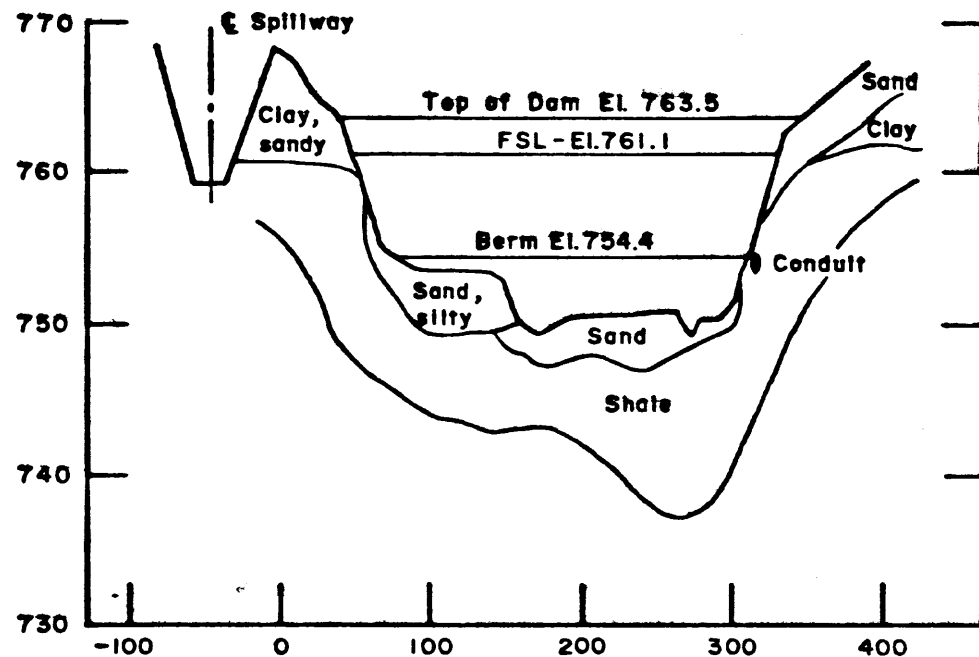
CANADA  
 DEPARTMENT OF REGIONAL ECONOMIC EXPANSION  
 P.F.R.A.  
 ENGINEERING SERVICE

**GOUVERNEUR DAM  
 STANDPIPE WATER ELEVATIONS**  
 1967-1981

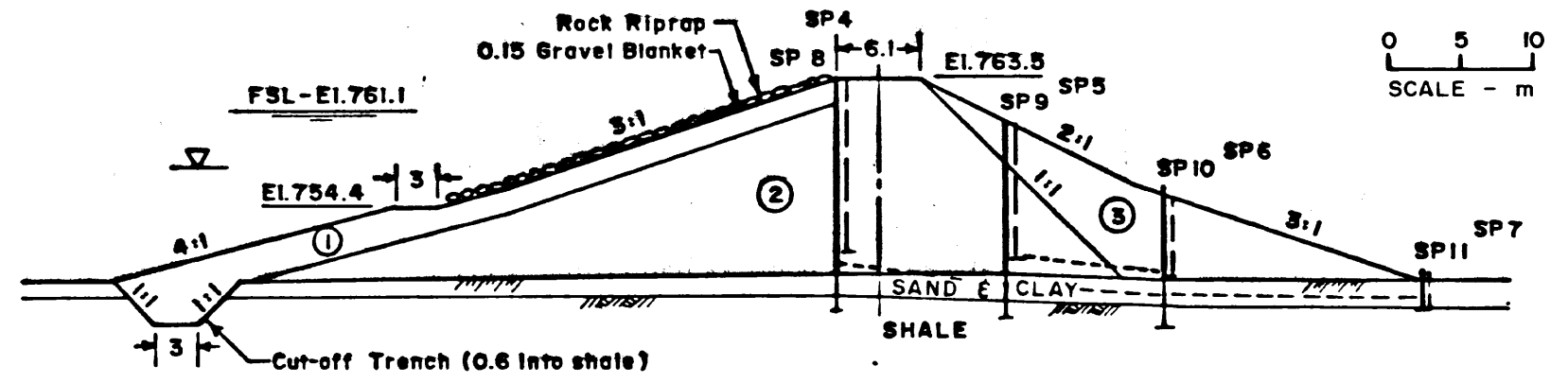
SCALE: \_\_\_\_\_ DATE: Dec. 1970 SHEET: \_\_\_\_\_

SUBMITTED: <i>K.A. Jones</i> DATE: 28 May 79	DESIGNED BY: _____ DRAWN BY: _____ TRACED BY: R.M. CHECKED BY: C.A.L.
APPROVED: _____ DATE: _____	38577 C      6A

NOTE: Sections traced from  
 Plan No. 31315 (72677-S-17)  
 C-Revised sections - Aug 1979



INTERPRETIVE PROFILE



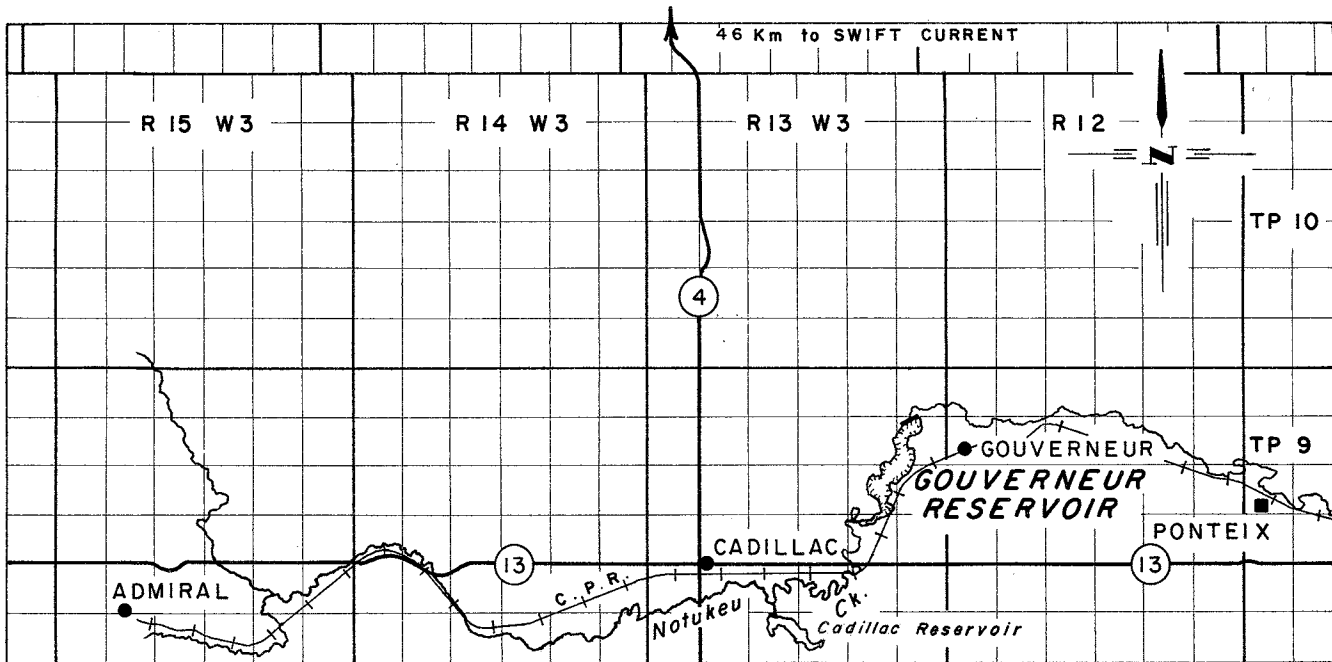
CROSS SECTION  
Sta 8+90

0 5 10  
SCALE - m

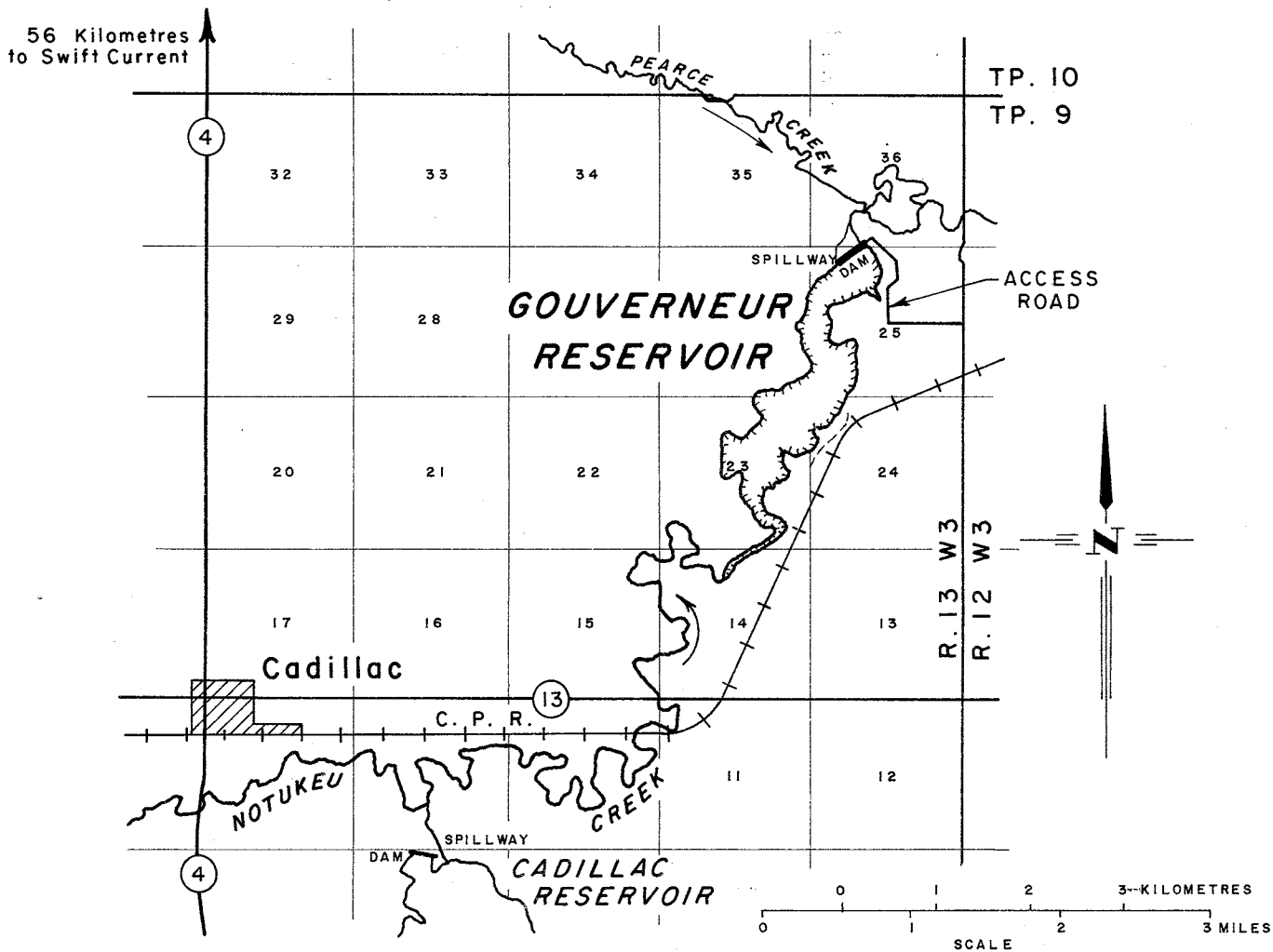
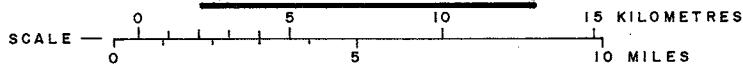
- LEGEND**
- ① - Select Impervious
  - ② - Semi Pervious
  - ③ - Sand and Gravel
  - - Piezometric Level - Sept., 1980
  - ▽ - Reservoir Level - Sept., 1980
  - | - Standpipe at Sta 8+90 (SP 8 to 11)
  - | - Standpipe at Sta 8+80 (SP 4 to 7)

Revision A - Plan size changed - 21 March 1988

DESIGNED	AGRICULTURE CANADA PFRA ENGINEERING SERVICE		GOUVERNEUR DAM		
DRAWN <i>RJM</i>			PROFILE, CROSS SECTION AND PIEZOMETRIC LEVEL		
CHECKED <i>H WR</i>	SUBMITTED <i>n. [Signature]</i> DATE <i>81-11-04</i>	APPROVED _____ DATE _____	SCALE AS SHOWN	DATE NOV. 1981	SHEET OF 101742A 1



### KEY MAP



DESIGNED

DRAWN

CHECKED

CANADA  
DEPARTMENT OF REGIONAL ECONOMIC EXPANSION  
PFRA  
ENGINEERING SERVICE

SUBMITTED \_\_\_\_\_  
DATE \_\_\_\_\_

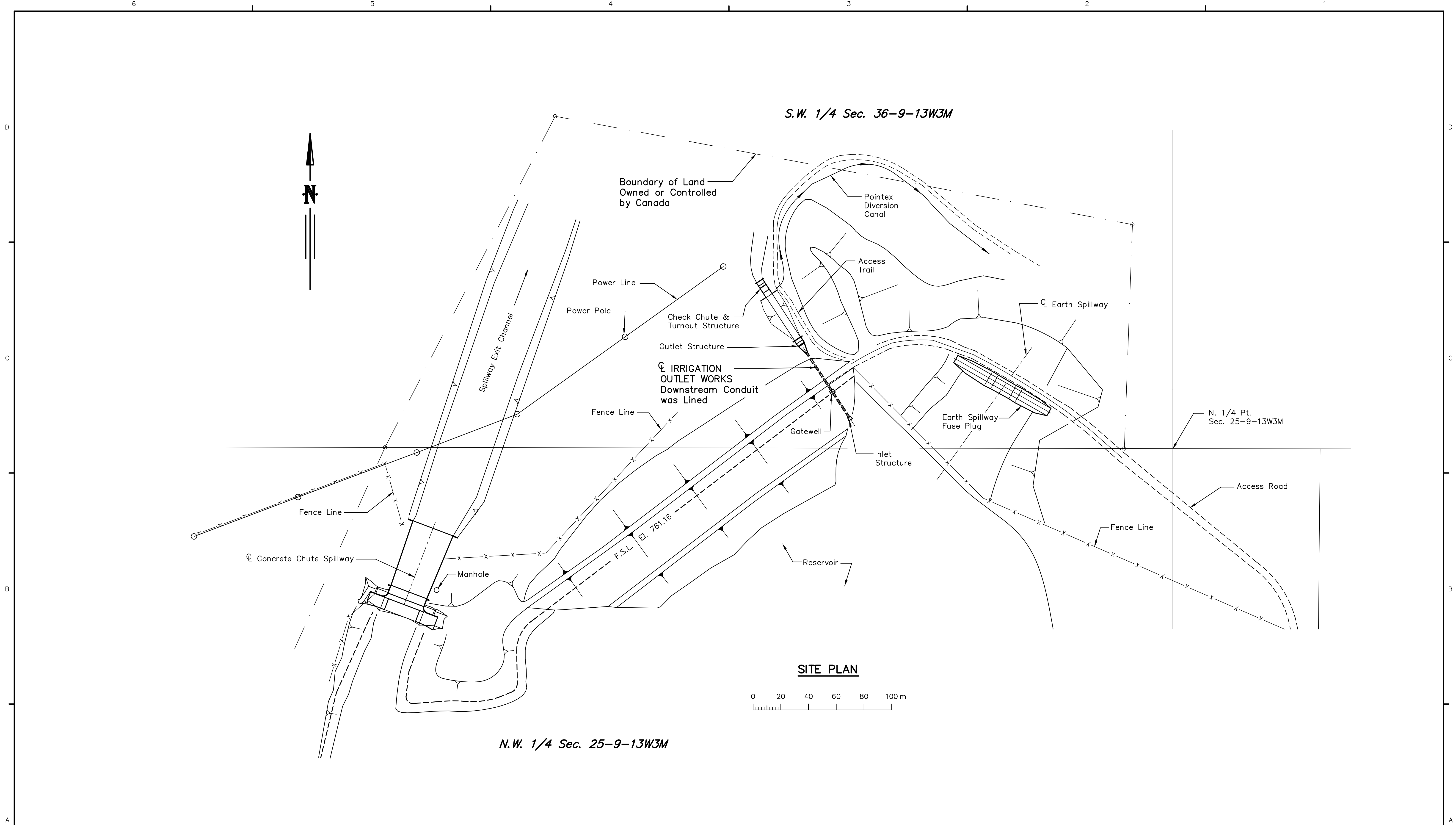
APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ CHIEF ENGINEER

GOUVERNEUR RESERVOIR

## LOCATION MAP

SCALE AS SHOWN | DATE NOV./93 | SHEET OF 205356





ALL DIMENSION, STATIONING AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

Mark	Grid Ref.	Nature of Revision	Date	Eng.	Draft.

Designed	GH	Approved	SR
Drawn	RM	Position Title	Technical Coordinator - S.S.R.
Checked	GH	Date	September 25, 2001

**COMPILED FROM PLAN 207438**

**PFRA ARAP**

Prairie Farm Rehabilitation Administration / Administration du rétablissement agricole des Prairies

**RECORD DRAWING** Submitted By *[Signature]* Date Oct. 25/12

GOUVERNEUR DAM PROJECT

CONTRACT 3 - OUTLET CONDUIT REHABILITATION

**SITE PLAN**

Scale As Shown Date Sept. 2001 Sheet 2 of 5 C207438