

CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

Water Management Branch
Ministry of Environment
Victoria, British Columbia

Water Planning and Management Branch
Inland Water Directorate
Pacific and Yukon Region
Environment Canada
Vancouver, British Columbia

DISTRICTS OF PITT MEADOWS AND MAPLE RIDGE

Operation and Maintenance Instructions
Flood Control Works

Volume 3 - Book 2

AS-CONSTRUCTED DRAWINGS

Associated Engineering (B.C.) Ltd.
4940 Canada Way
Burnaby, B.C.
V5G 4M5

RECORD OF AMENDMENTS

All amendments are to be issued through the Inspector of Dykes.

<u>Amendment</u> <u>No.</u>	<u>Date</u>	<u>Date Entered</u>	<u>By Whom Entered</u>
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THE MANUAL

The operation and maintenance instructions for the flood control works for the Districts of Pitt Meadows and Maple Ridge are provided in three volumes:

VOLUME 1: General Instructions

VOLUME 2: Pump Station Instructions

VOLUME 3: As-Constructed Drawings (2 books)

LIST OF CONTRACTS

<u>Contract No.</u>	<u>Description</u>
1	Dyke Reconstruction, Line A. Sta. 180+00 to Sta. 384+40
1A	Improvement of Ditch between Baynes Road and Harris Road
2	Dyke Reconstruction, Line A, Sta. 13+50 to Sta. 180+00
2A	Woolridge Road Ditch Diversion
3	Dyke Reconstruction, Katzie Slough to Lougheed Highway
4	Bank Protection along Fraser River
5	Dyke Reconstruction, Line B, Sta. 0+515 to Sta. 5+290
5A	Improvement of Ditch between Cranberry Slough and Aloutte Floodbox
6	Dyke Reconstruction, Line B, Sta. 5+290 to Sta. 11+256
6A	Drainage ditch No. 6A
7	Construction of Kennedy Road Floodboxes and Pumping Station (FRFCP & ARDSA Project No. 271139)
8	Construction of McKechnie Road and Baynes Road Pumping Stations (ARDSA Project No. 271139)
9	Supply and Installation of Pumping Units and Related Electrical Controls (ARDSA Project No. 271139)
10	Construction of Culverts (ARDSA Project No. 271139)
11	Kennedy and McKenzie Dyke Reconstruction
<u>Volume 3 - Book 2</u>	
12	Berm along McKenny Creek
13	Dyke Reconstruction between Harris and McNeil Road
14	Dyke Reconstruction between Harris and Richardson Roads
15	Dyke Reconstruction between Sheridan Hill and Richardson Road
16	Fenton Slough Pumping Station and Floodbox (FRFCP & ARDSA Project No. 22011)

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		<u>Negative</u>
		<u>Number</u>
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<u>Number</u>	<u>Title</u>	
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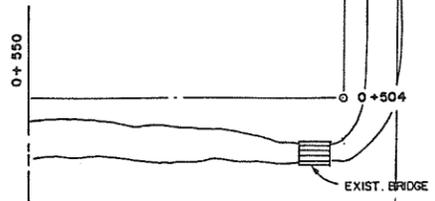
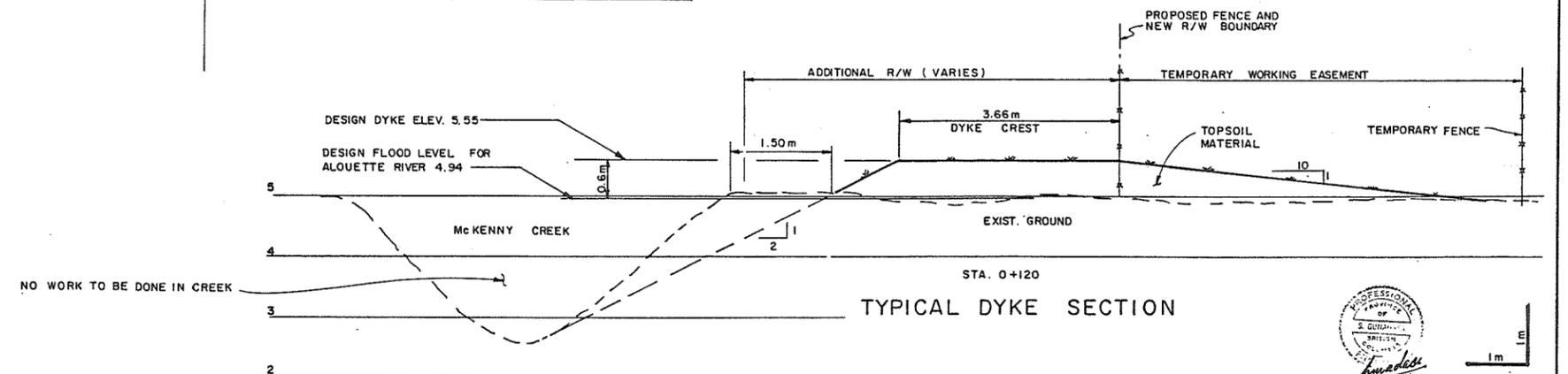
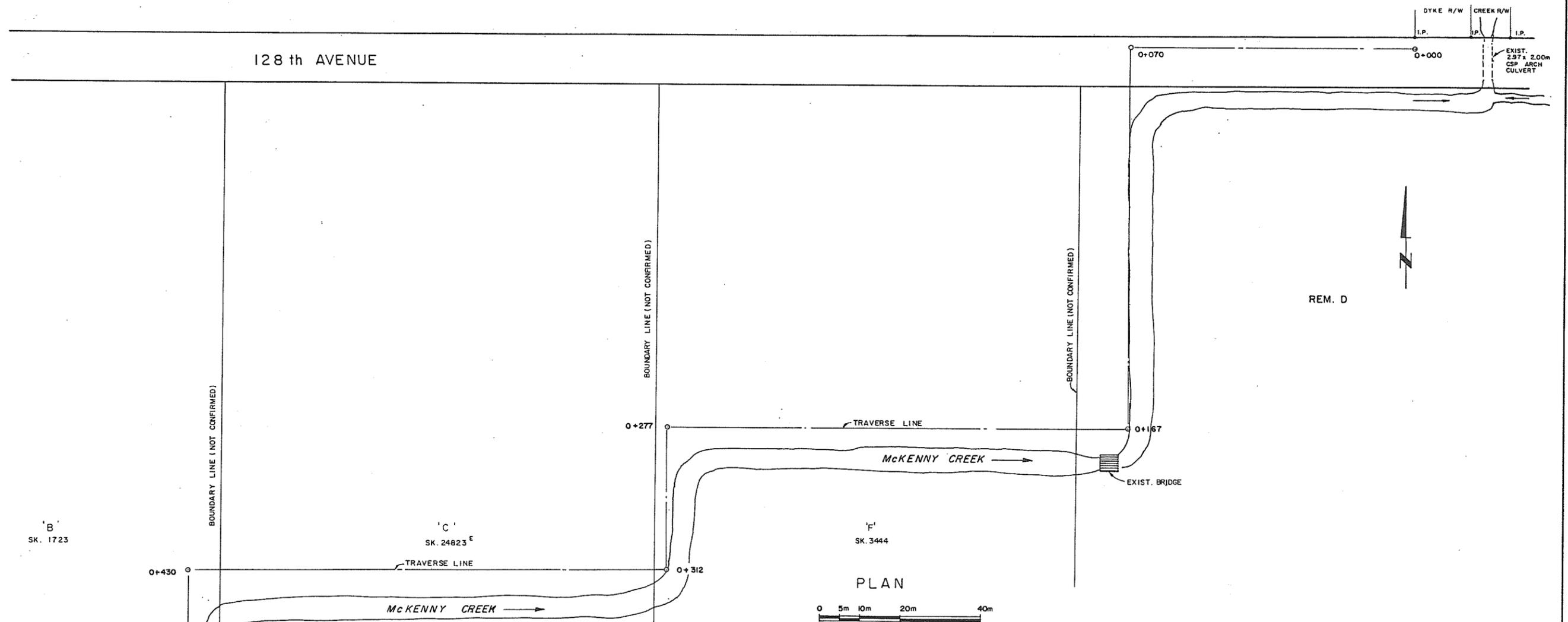
<u>Drawing Number</u>	<u>Drawing Title</u>	<u>Provincial 105 mm Negative Number</u>
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-  DYKE
-  EXISTING DYKE (NO PROGRAM WORK DONE)
-  BANK PROTECTION PLACED BY PROGRAM
-  FLOODBOX
-  EXISTING PUMPSTATION
-  NEW PUMPSTATION
-  DRAINAGE IMPROVEMENTS BY PROGRAM
-  EXISTING STREAM OR DITCH
-  MUNICIPAL BOUNDARY



ASSOCIATED ENGINEERING (B.C.) LTD
AESL
 AESL DWG. NO. V31J - 24 - 1

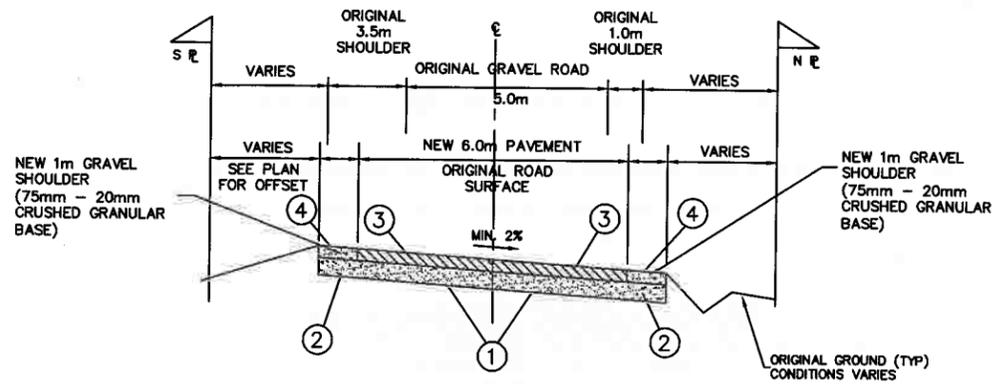
NO.	BY	REVISIONS	DATE
1	VW	AS CONSTRUCTED.	19.4.85

RECOMMENDED *P.R. Cameron*
 PROJECT MANAGER
 DATE *Aug 30/85*
 APPROVED *W.H. Fuller*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE *Aug 30/85*

DESIGNED	S.G.	SURVEYED	A.E.(BC) LTD.
DRAWN	MF	DATE	NOV. 1978
CHECKED	<i>[Signature]</i>	FILE NO.	Q281550-C14-12
SCALE	AS SHOWN	DATE	AUG. 1985
DWG. NO.	4793-12-1	SHEET	1 OF 1 SHEETS

PROFESSIONAL ENGINEER
[Signature]
 280841

SCALE 1:1

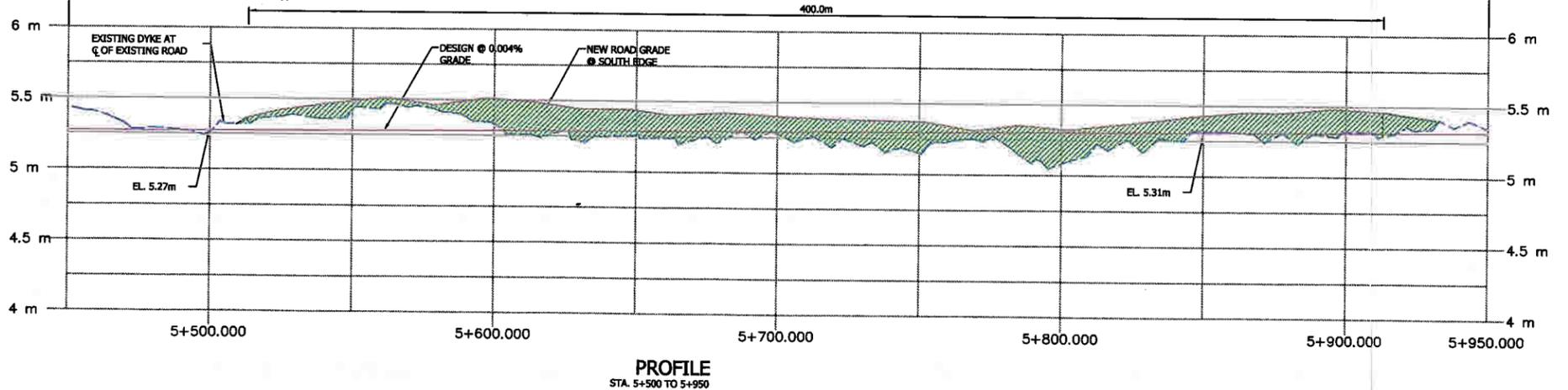
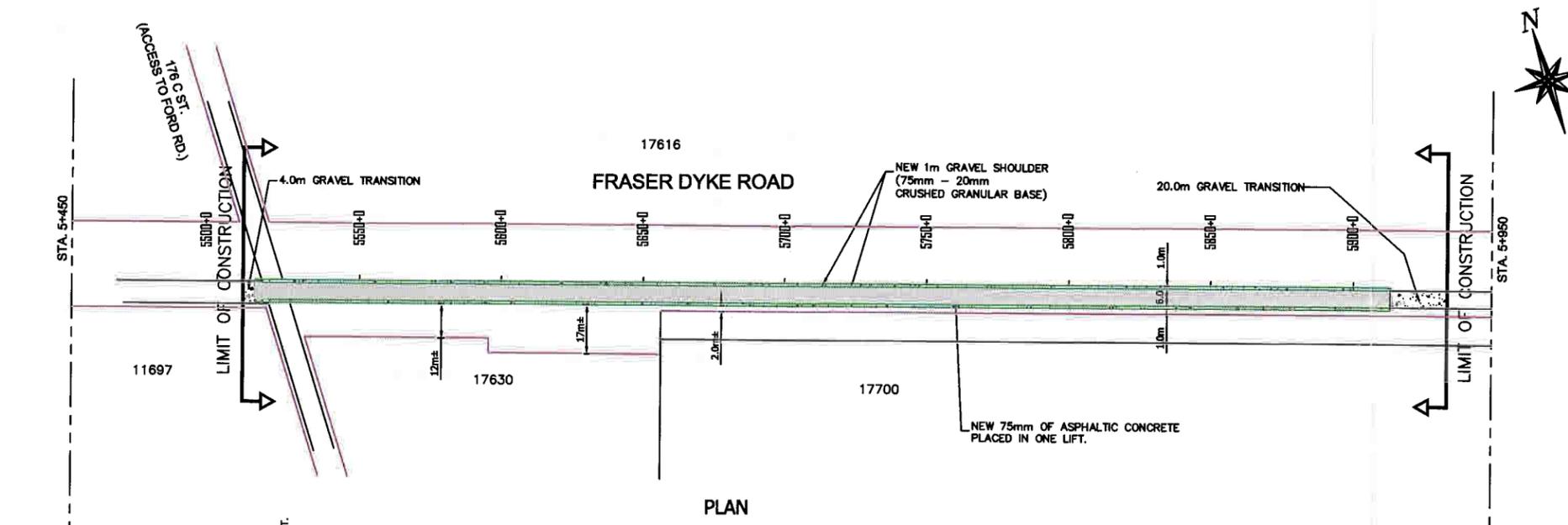


TYPICAL SECTION
FRASER DYKE ROAD
FROM 176th STREET TO 300 METERS EAST
N.T.S.

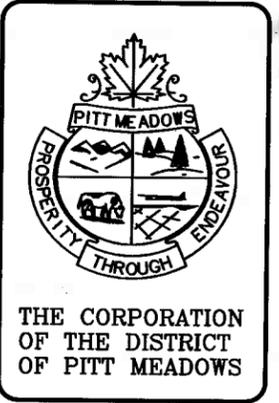
GRAVEL ROAD PAVING

- ① EXCAVATED, REGRADED, AND COMPACTED ORIGINAL GRANULAR MATERIAL TO A DEPTH OF 150mm BELOW TOP OF CONSTRUCTED ASPHALT. EXCAVATED GRANULAR MATERIAL REUSED ON SITE AS SUBBASE FILL OR DISPOSED OFFSITE, OR ADDED 20mm MINUS CRUSHED GRANULAR BASE TO TOP OF SUBBASE ELEVATION AS REQUIRED.
- ② 75 OF 20mm MINUS CRUSH GRAVEL BASE COMPACTED TO 98% STANDARD PROCTOR.
- ③ 75mm OF ASPHALTIC CONCRETE PLACED IN ONE LIFT.
- ④ SHOULDER CONSTRUCTED WITH 75mm OF 20mm MINUS CRUSH GRAVEL BASE COMPACTED TO 98% STANDARD PROCTOR

NOTE:
BEFORE REGRADE ANY ORIGINAL ASPHALT WAS REMOVED



AS CONSTRUCTED



DRAWING REFERENCE			
No.	DATE	BY	REVISION
2	AUG 2003	BR	RECORD DRAWING
1	JUNE 2003	AK	1

JOB NUMBER:	
DRAWN:	AK
DESIGNED:	
CHECKED:	
APPROVED:	
DATE:	JUNE 2003
SCALES:	HORIZ. 1:1000 VERT. 1:20
SEAL:	

PARAGON ENGINEERING LTD.
104 - 1515 BROADWAY STREET, PORT COQUITLAM, BC, V3C 6R2
TELEPHONE: (604) 944-0820 FAX: (604) 944-0818

DRAWING TITLE:
FRASER DYKE ROAD
GRADE IMPROVEMENTS
STA. 5+500 TO 5-850

PROJECT TITLE:
FRASER DYKE ROAD

PROJECT LOCATION:
FRASER DYKE ROAD
176 ST TO 350m EAST

DRAWING No	REV.	SHEET
U3-4	1	1/1

FRASER 02-02-10

CONTRACT NO. 13

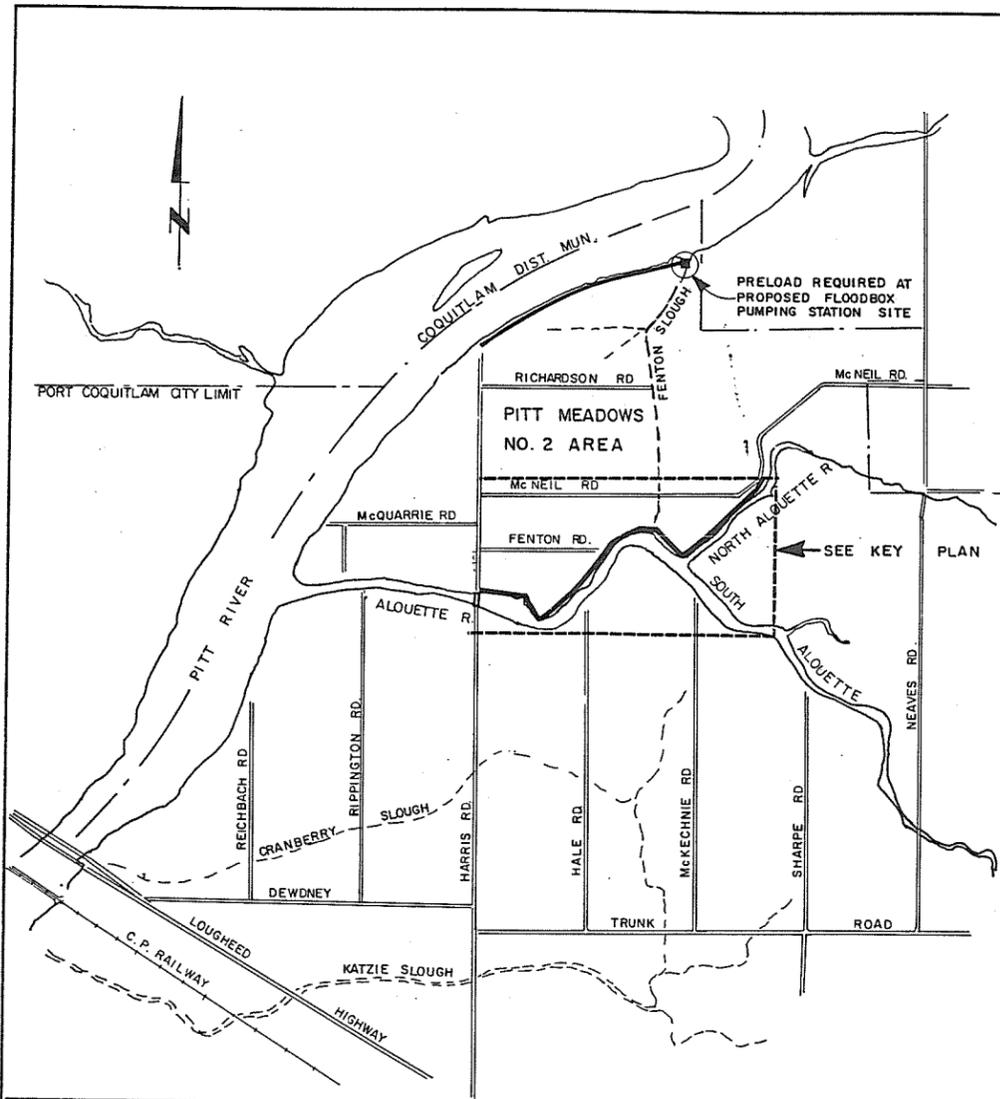
**CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO.2 DISTRICT OF PITT MEADOWS
PITT MEADOWS NO.2 AREA**

CONTRACT NO.13

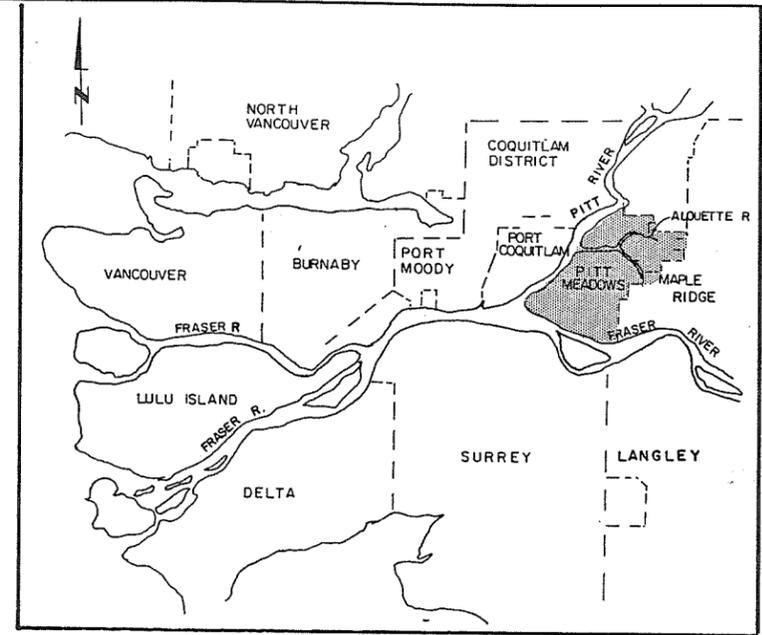
**DYKE RECONSTRUCTION
BETWEEN HARRIS AND McNEIL ROADS**

**ASSOCIATED
ENGINEERING**

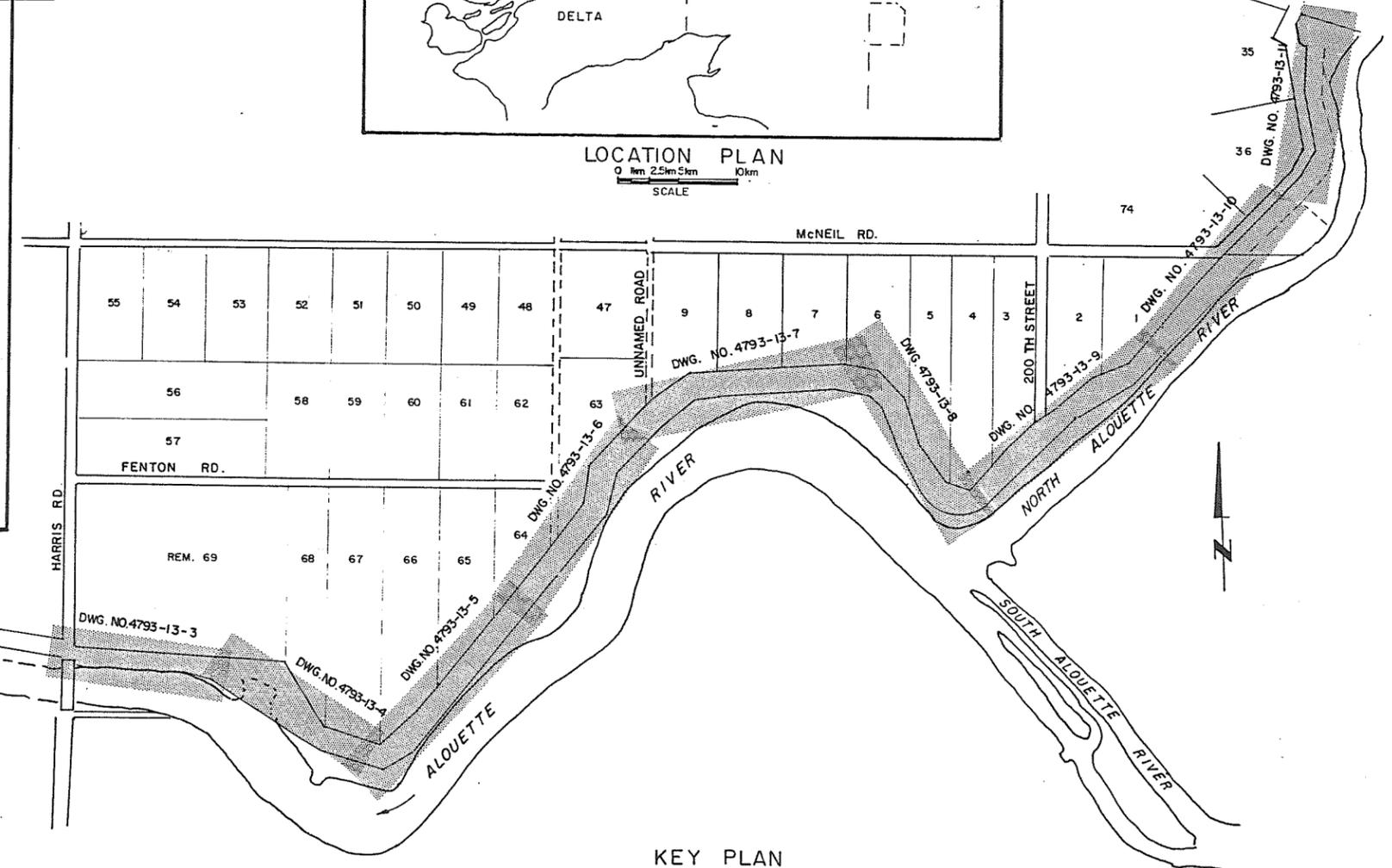




SITE ACCESS PLAN
 0 0.25km 0.5km 1.0km 2.0km
 SCALE



LOCATION PLAN
 0 2.5km 5km 10km
 SCALE



KEY PLAN
 0 20 50m 100m 200m 300m
 SCALE

GENERAL NOTES

1. ELEVATIONS ARE TO GEODETIC DATUM IN METRES.
2. GENERAL DYKE CONSTRUCTION IS INDICATED ON THE TYPICAL CROSS-SECTIONS. THE ACTUAL DYKE SECTION AT ANY STATION IS SHOWN ON A SEPARATE SET OF CROSS-SECTIONS, AVAILABLE FOR INSPECTION BY TENDERERS AND WILL BE SUPPLIED TO THE CONTRACTOR FOR INFORMATION ONLY (NOTE 4)
3. ALL GATE AND RAMP LOCATIONS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. OFFSETS SHOWN FROM TRAVERSE LINE (TL) TO DESIGN CL OF DYKE ARE APPROXIMATE ONLY. FINAL OFFSETS WILL BE VERIFIED PRIOR TO CONSTRUCTION.
5. ALL CHAINAGES ARE IN METRIC. EQUAL CHAINAGES IN FEET ARE SHOWN IN BRACKETS.
6. TOP OF ACCESS RAMPS TO BE COVERED WITH 300 mm THICK TYPE IV SURFACE GRAVEL ON TOP OF TYPE I FILL OR EXISTING SURFACE.
7. REMOVE EXISTING FENCE AND ERECT NEW FENCE AS DIRECTED BY THE ENGINEER, 2.5m TO 3.0m DISTANCE OUTSIDE TOE OF DYKE.

ASSOCIATED ENGINEERING

AE DWG. NO. V 43 J - 13 - 24 - 101

3	V.W.	AS CONSTRUCTED	3.11.87
2	V.W.	ISSUED FOR CONSTR.	24.9.86
1	V.W.	ISSUED FOR TENDER	7.8.86
NO.	BY	REVISIONS	DATE

RECOMMENDED *P. J. Cameron*
 PROJECT MANAGER
 DATE *July 28, 1986*

APPROVED *W. S. Fuller*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE *July 23, 1986*

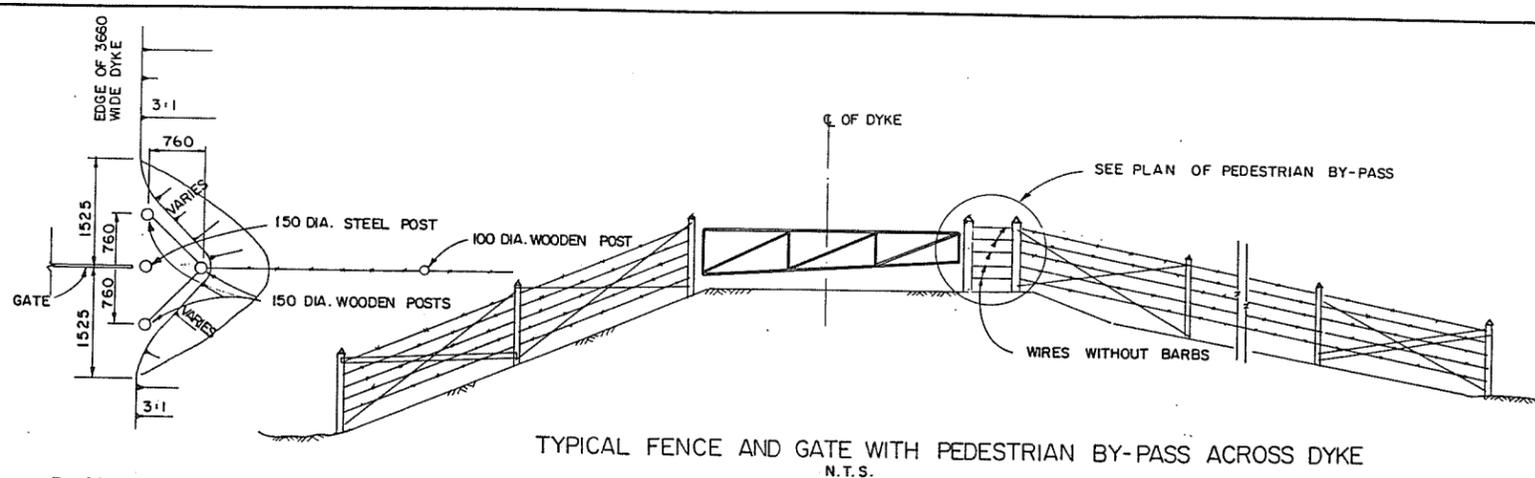
BRITISH COLUMBIA
 MINISTRY OF ENVIRONMENT
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 13

KEY PLAN

280842

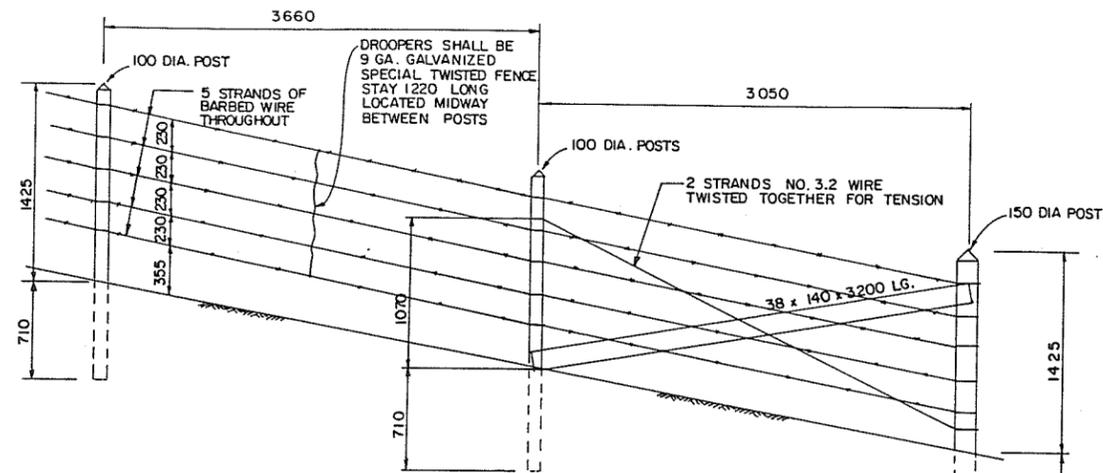
DESIGNED	S. G.	SURVEYED	N/A
DRAWN	V. W.	DATE	N/A
CHECKED		FILE NO.	0281550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-1	SHEET	1 OF 11 SHEETS

Amadaso
 July 23/86

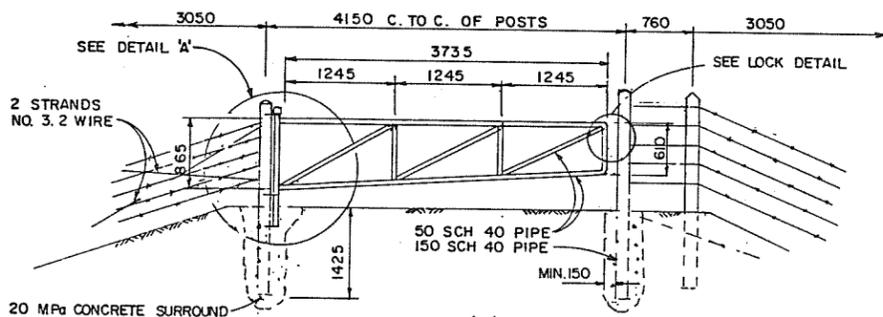


PLAN OF PEDESTRIAN BY-PASS
N.T.S.

TYPICAL FENCE AND GATE WITH PEDESTRIAN BY-PASS ACROSS DYKE
N.T.S.



FENCE DETAIL AND END STRAINING POST
N.T.S.

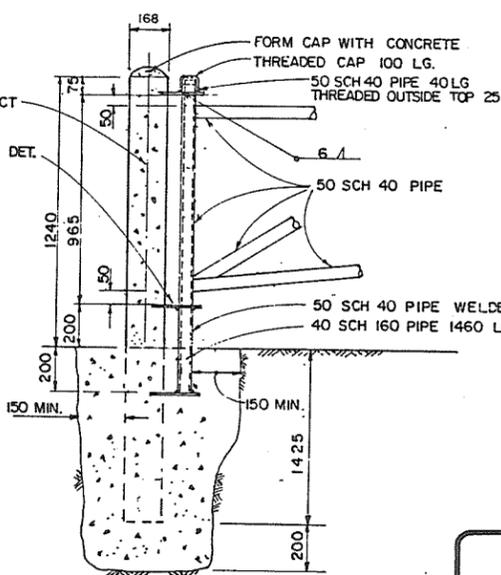


TYPE 'A' GATE
N.T.S.

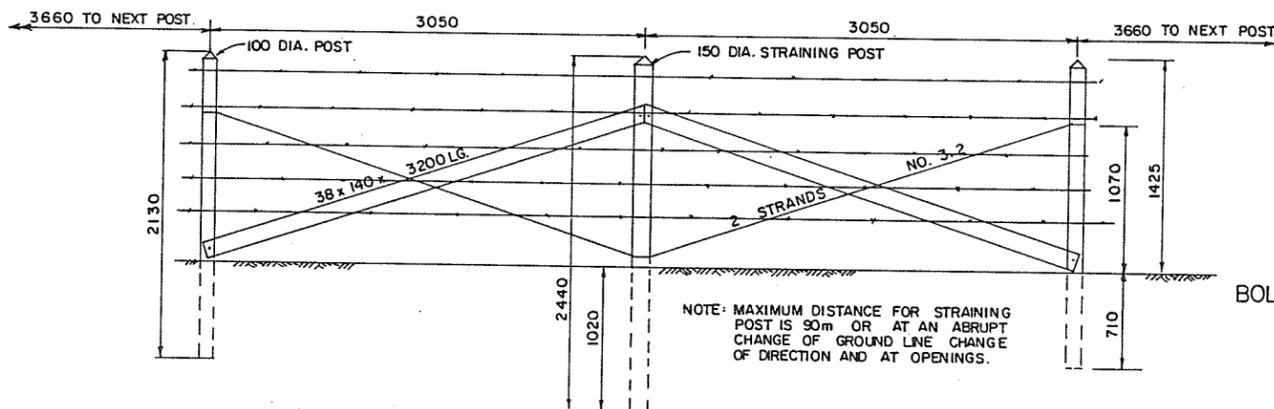
NOTE: ALTERNATIVE GATE PROPOSALS TO THE DIMENSIONS SHOWN MAY BE ACCEPTED. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

NOTES.

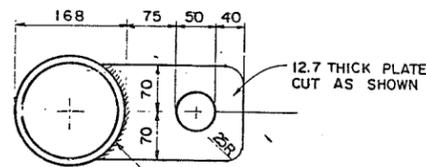
1. ALL JOINTS TO BE FULL STRENGTH WELDED.
2. WHOLE ASSEMBLY TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
3. ALL HARDWARE TO BE GALVANIZED.
4. STEEL PIPE DIAMETERS AS SHOWN ARE I.D.
5. METAL POSTS FOR GATE ARE 2665 LG. AND TO BE INFILLED WITH CONC. AFTER INSTALLATION.
6. WOODEN POSTS TO BE PRESSURE TREATED AS SPECIFIED.
7. PADLOCKS WILL BE SUPPLIED BY THE CORPORATION OF THE DISTRICT OF PITT MEADOWS.



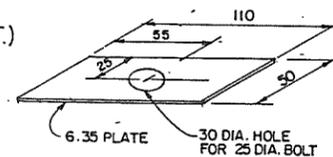
DETAIL 'A'
N.T.S.



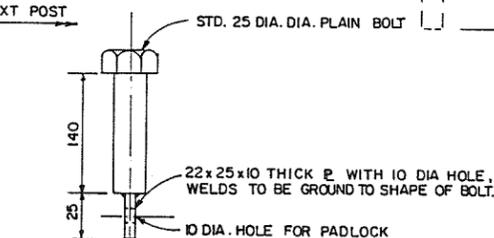
TYPICAL FENCE DETAIL WITH INTERMEDIATE STRAINING POSTS
N.T.S.



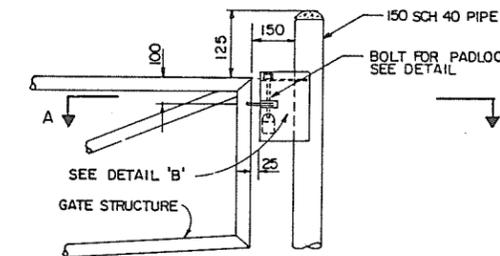
PLAN VIEW OF HINGE BRACKET (3REQ'D)
2 AS SHOWN
1 WITHOUT HOLE (BOT.)
N.T.S.



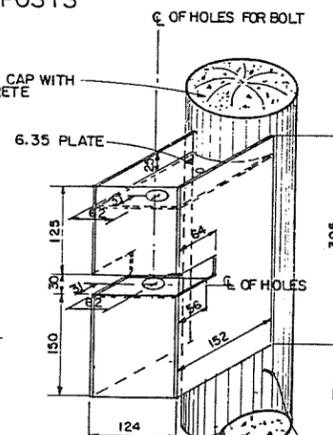
DETAIL 'B'
N.T.S.



BOLT FOR PADLOCK
N.T.S.



LOCKING DETAIL
N.T.S.



SECTION A-A
N.T.S.

NOTE: ALL DIMENSIONS ARE IN MM, EXCEPT WHERE SHOWN OTHERWISE.

280843

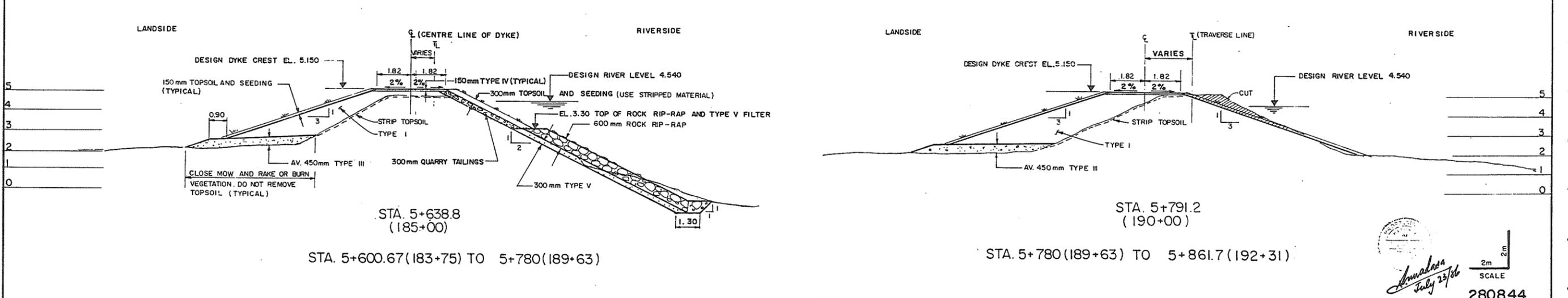
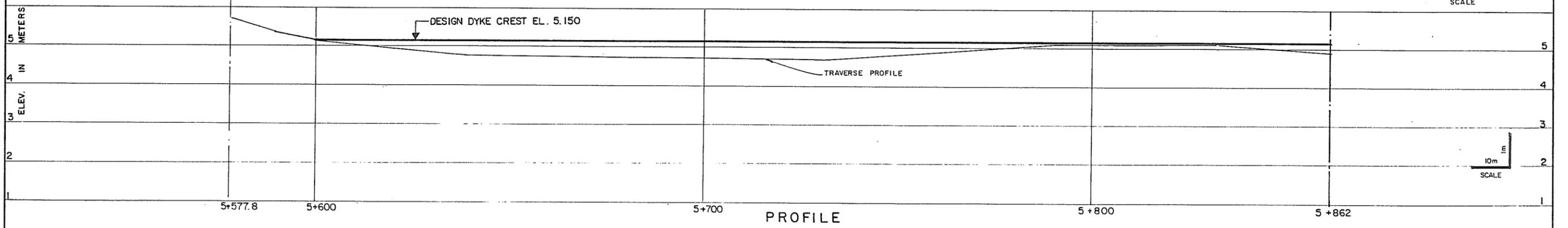
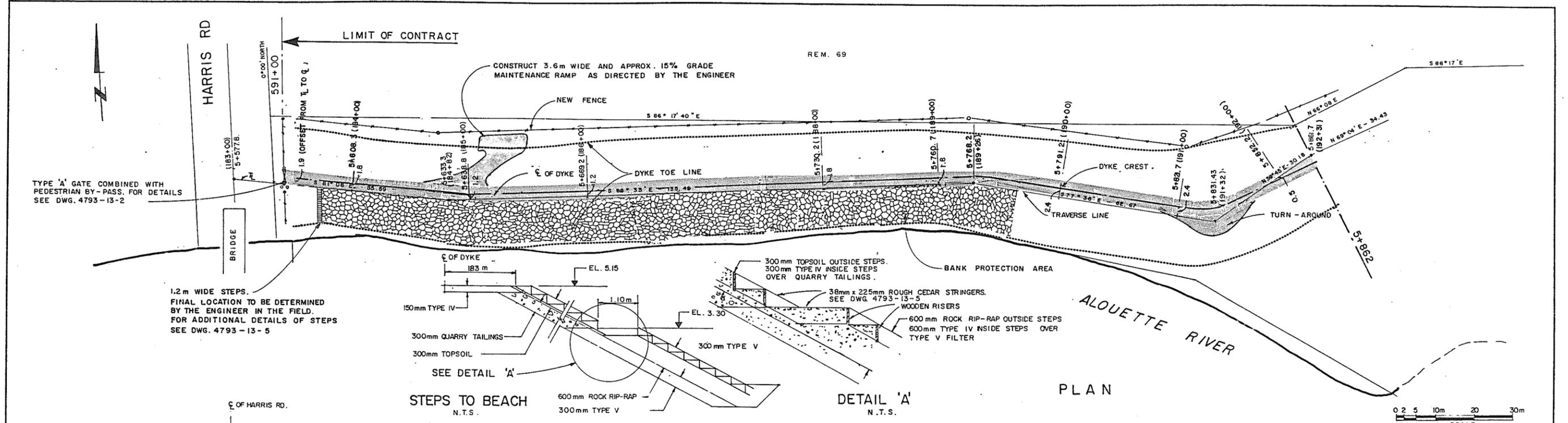
ASSOCIATED ENGINEERING **AE**
AE DWG. NO. V43J-13-24-102

3	V.W.	AS CONSTRUCTED	3.11.87
2	V.W.	ISSUED FOR CONSTR.	24.9.86
1	V.W.	ISSUED FOR TENDER	7.8.86
NO.	BY	REVISIONS	DATE

RECOMMENDED	<i>R. G. Cameron</i> PROJECT MANAGER
DATE	July 28, 1986
APPROVED	<i>W. J. Miller</i> DIRECTOR, WATER MANAGEMENT BRANCH
DATE	July 29, 1986

DESIGNED	V.W.	SURVEYED	N.A.
DRAWN	V.W.	DATE	N.A.
CHECKED	S.G.	FILE NO.	0281550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-2	SHEET	2 OF 11 SHEETS

FENCING AND GATE DETAILS



ASSOCIATED ENGINEERING

DWG. NO. V 43 J-13-24-103

3	V.W.	AS CONSTRUCTED	26.8.87
2	V.W.	ISSUED FOR CONSTR.	24.9.86
1	V.W.	ISSUED FOR TENDER	7.8.86
NO. BY		REVISIONS	DATE

RECOMMENDED *P. de Coninck*
PROJECT MANAGER

DATE *July 24, 1986*

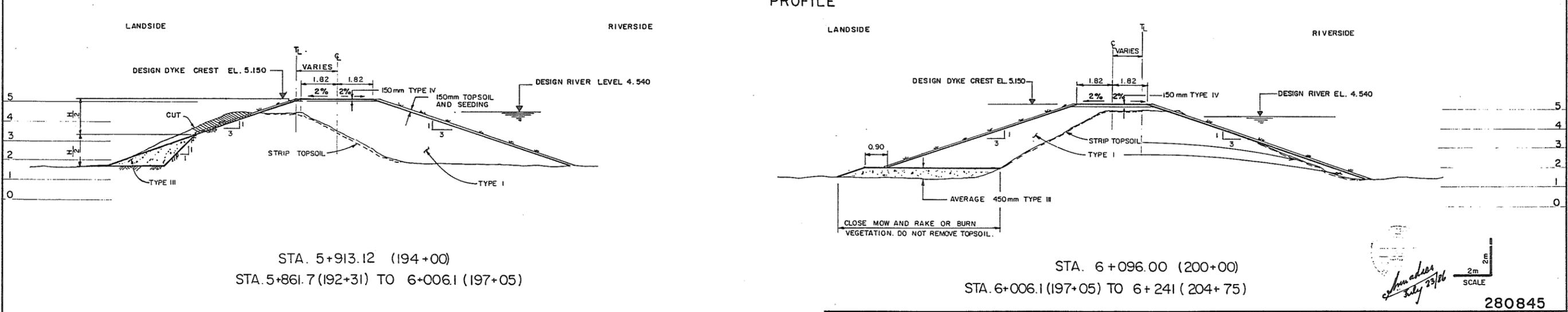
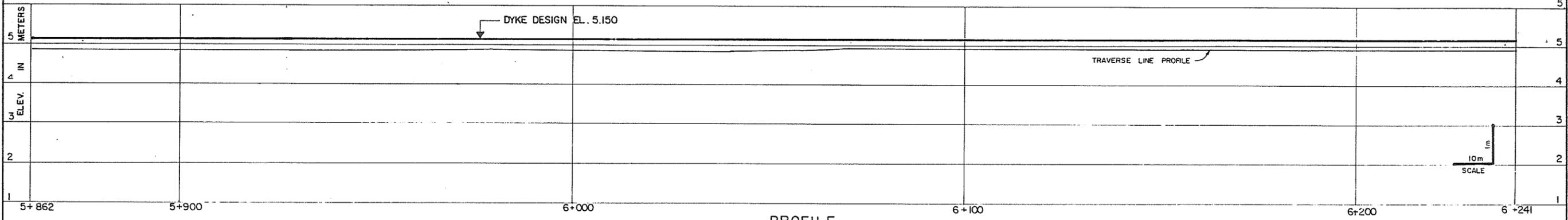
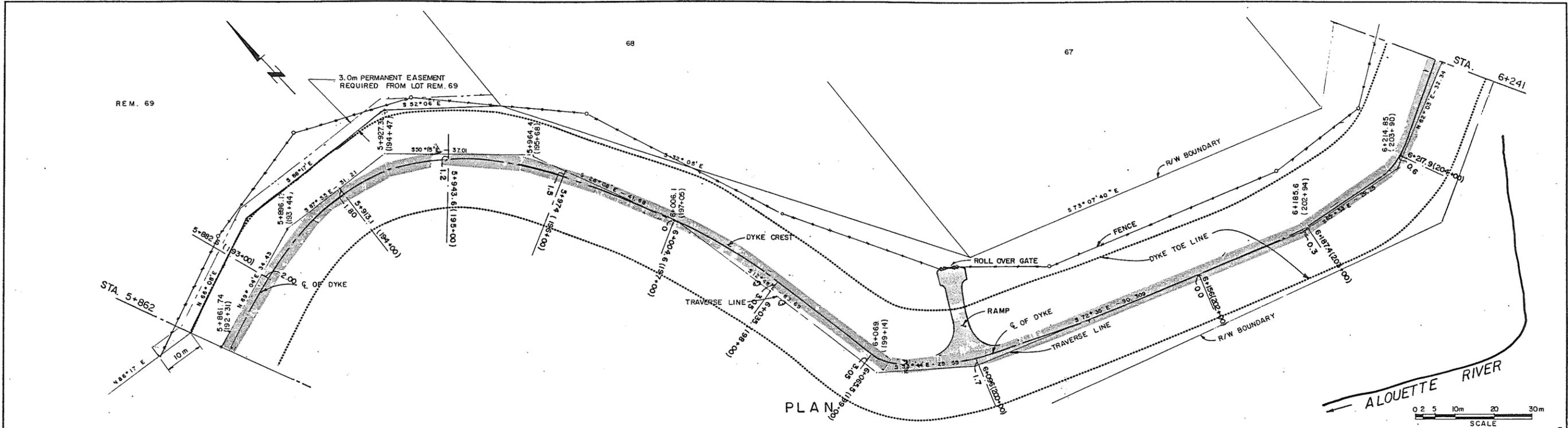
APPROVED *[Signature]*
DIRECTOR, WATER MANAGEMENT BRANCH

DATE *July 27/86*

DESIGNED	S.G.	SURVEYED	A.E. (B.C.) LTD.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED	[Signature]	FILE NO.	0281550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-3	SHEET	3 OF 11 SHEETS

Amalusa
July 27/86

280844



ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-13-24-104

3	V.W.	AS CONSTRUCTED	26.8.87
2	V.W.	ISSUED FOR CONSTR.	24.8.86
1	V.W.	ISSUED FOR TENDER	7.8.86
NO.	BY	REVISIONS	DATE

RECOMMENDED *P. H. Cameron*
PROJECT MANAGER
DATE *July 28, 1986*

APPROVED *John Miller*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE *Jul 28/86*

DESIGNED	S.G.	SURVEYED	A.E.(B.C.) LTD.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED	<i>[Signature]</i>	FILE NO.	0281550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-4	SHEET	4 OF 11 SHEETS

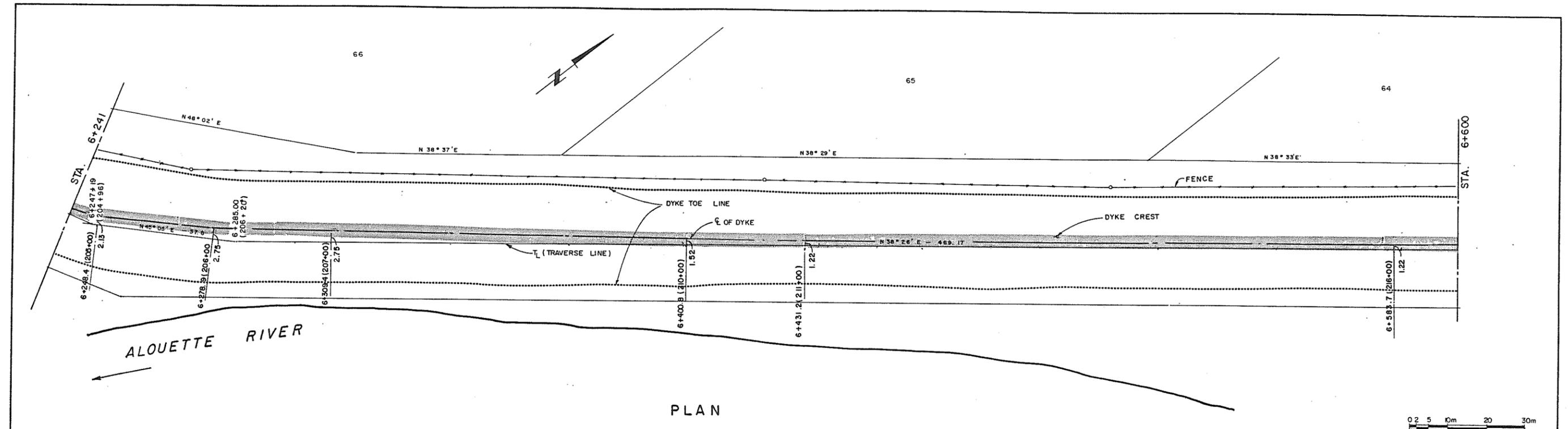
BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO.13
PLAN, PROFILE AND CROSS SECTION
STA. 5+862 TO 6+241

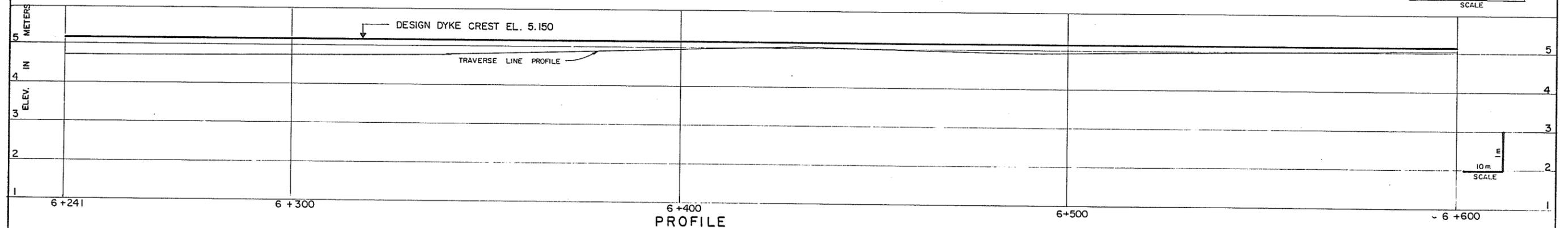
John Miller
July 28/86

2m
SCALE

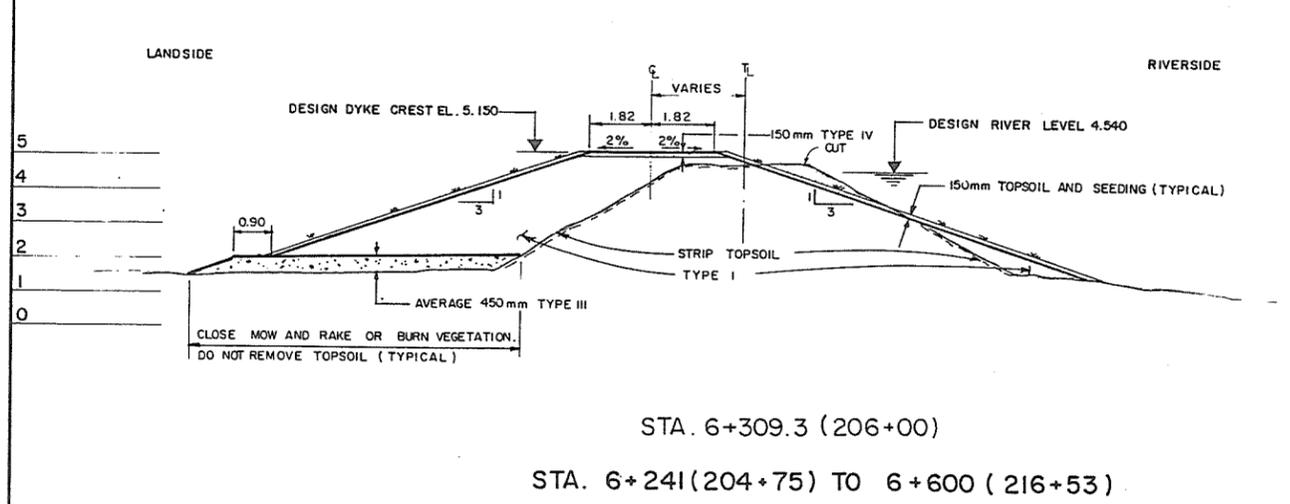
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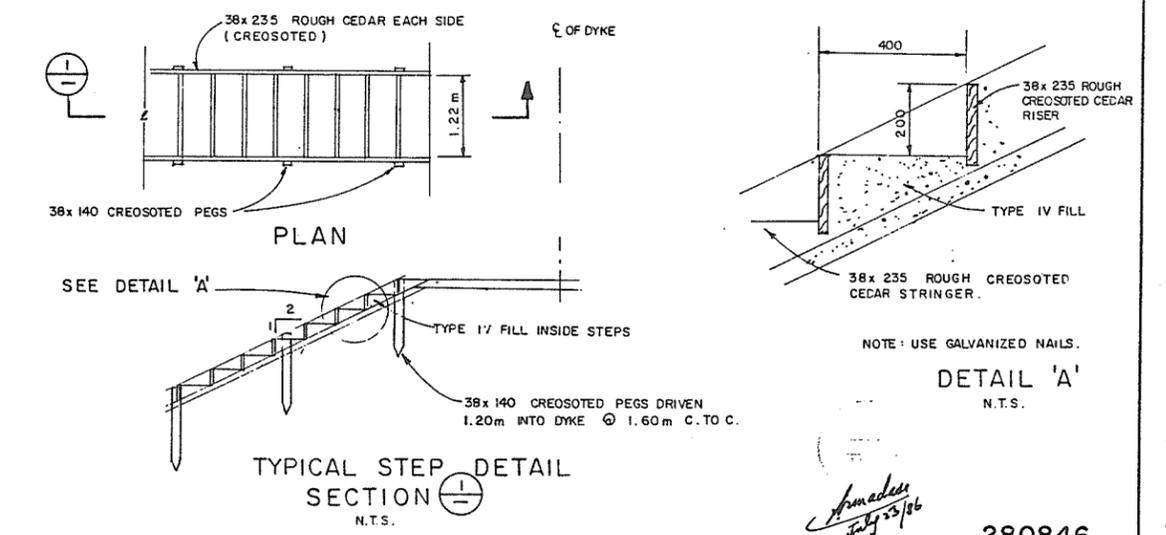
PLAN



PROFILE



STA. 6+309.3 (206+00)
 STA. 6+241 (204+75) TO 6+600 (216+53)



TYPICAL STEP DETAIL SECTION

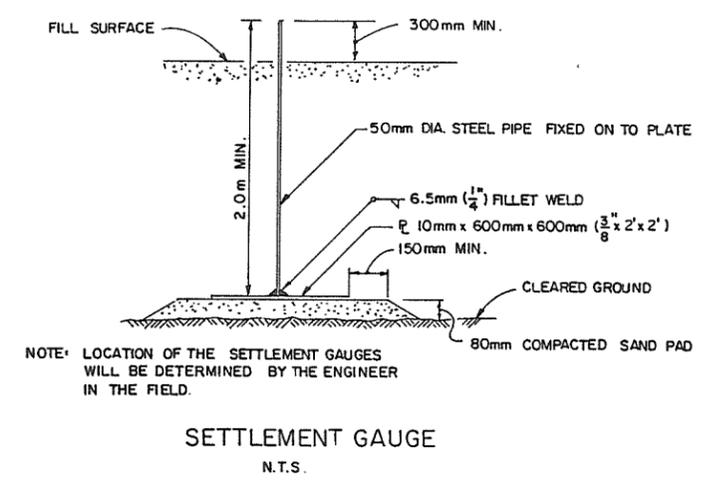
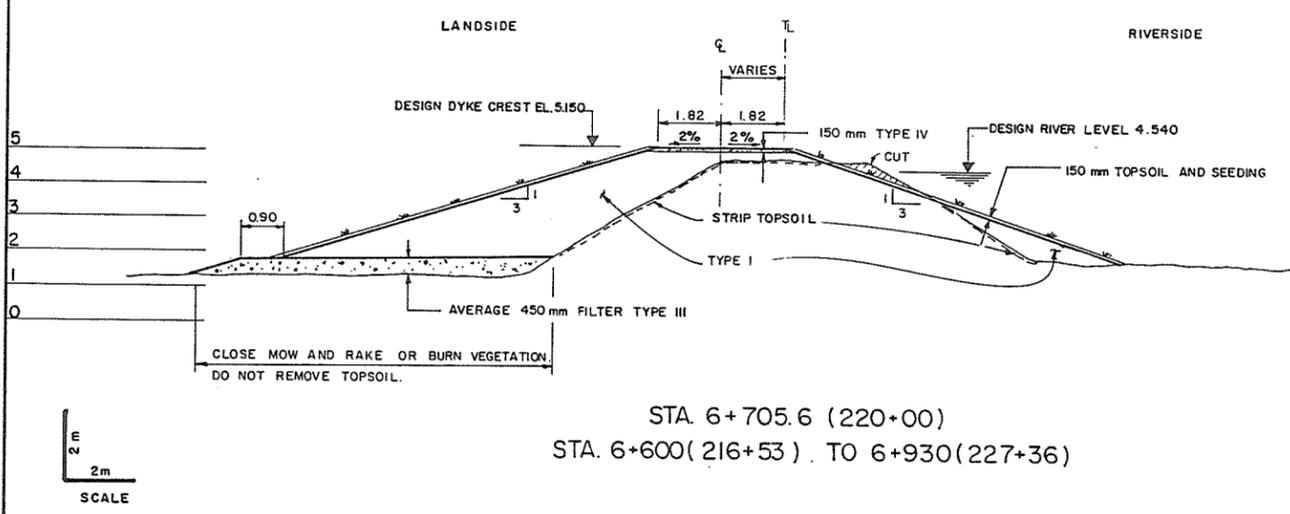
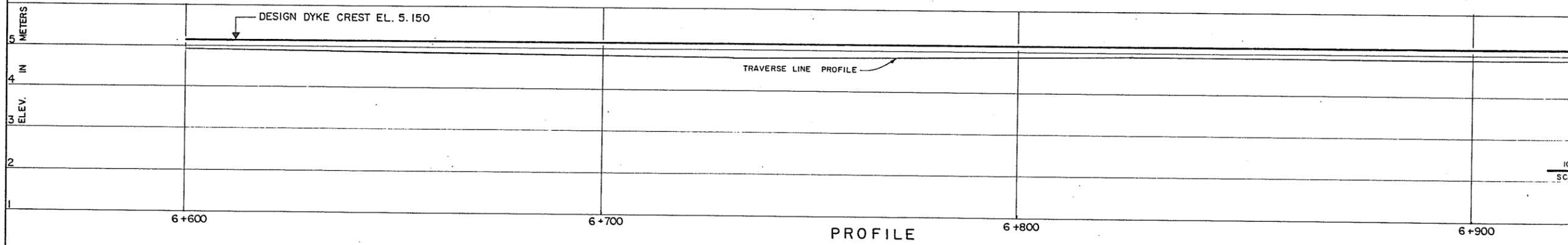
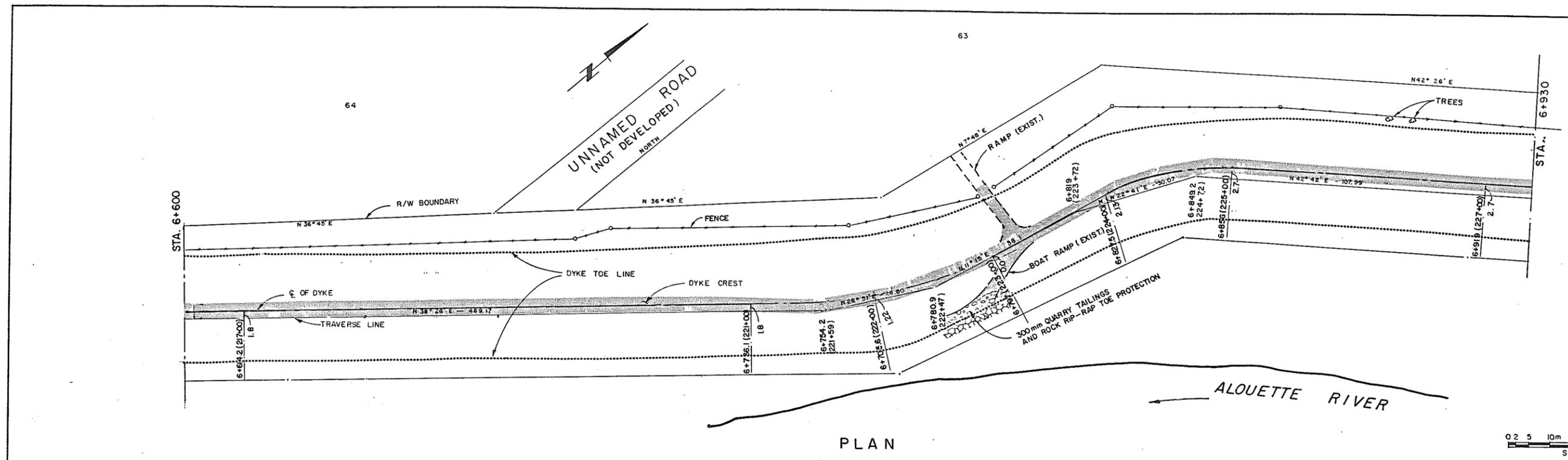
ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-13-24-105

3 V.W. AS CONSTRUCTED 268.87		RECOMMENDED <i>P.A. Cameron</i> PROJECT MANAGER		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT		DESIGNED S.G.	SURVEYED A.E.(B.C.)LTD.
2 V.W. ISSUED FOR CONSTR. 249.80		DATE <i>July 28, 1986</i>		PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 13		DRAWN V.W.	DATE 1969 8 1986
1 V.W. ISSUED FOR TENDER 7.8.86		APPROVED <i>J.M. Fuller</i> DIRECTOR, WATER MANAGEMENT BRANCH		PLAN, PROFILE AND CROSS SECTION STA. 6+241 TO 6+600		CHECKED <i>sh</i>	FILE NO. 0281550-C14-13
NO. BY REVISIONS DATE		DATE <i>July 28/86</i>		SCALE AS SHOWN		DWG. NO. 4793-13-5	DATE JUNE 1986
						SHEET 5 OF 11 SHEETS	

280846

Approved July 28/86



STA. 6+705.6 (220+00)
 STA. 6+600 (216+53) TO 6+930 (227+36)

ASSOCIATED ENGINEERING *AE*

AE DWG. NO. V43J-13-24-106

3	V.W.	AS CONSTRUCTED	26.8.87
2	V.W.	ISSUED FOR CONSTR.	24.9.86
1	V.W.	ISSUED FOR TENDER	7.8.86
NO.	BY	REVISIONS	DATE

RECOMMENDED *P.A. Cameron*
 PROJECT MANAGER

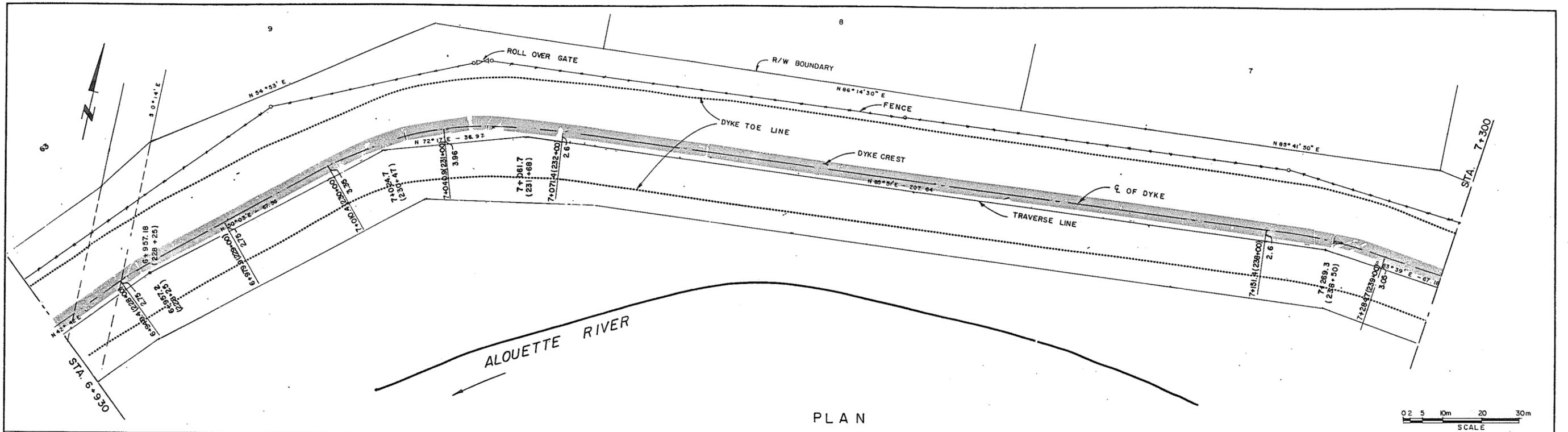
DATE *July 28, 1986*

APPROVED *John Fuller*
 DIRECTOR, WATER MANAGEMENT BRANCH

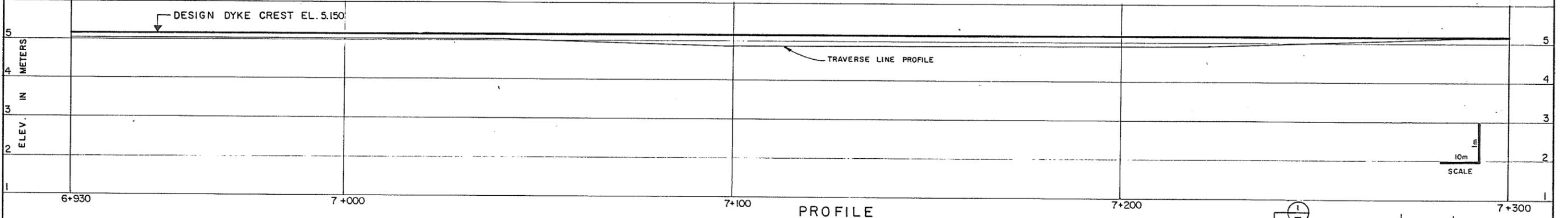
DATE *Jul 28/86*

DESIGNED	S.G.	SURVEYED	A.E. (B.C.) LTD.
DRAWN	V.W.	DATE	1969 8 1986
CHECKED		FILE NO.	0281550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-6	SHEET	6 OF 11 SHEETS

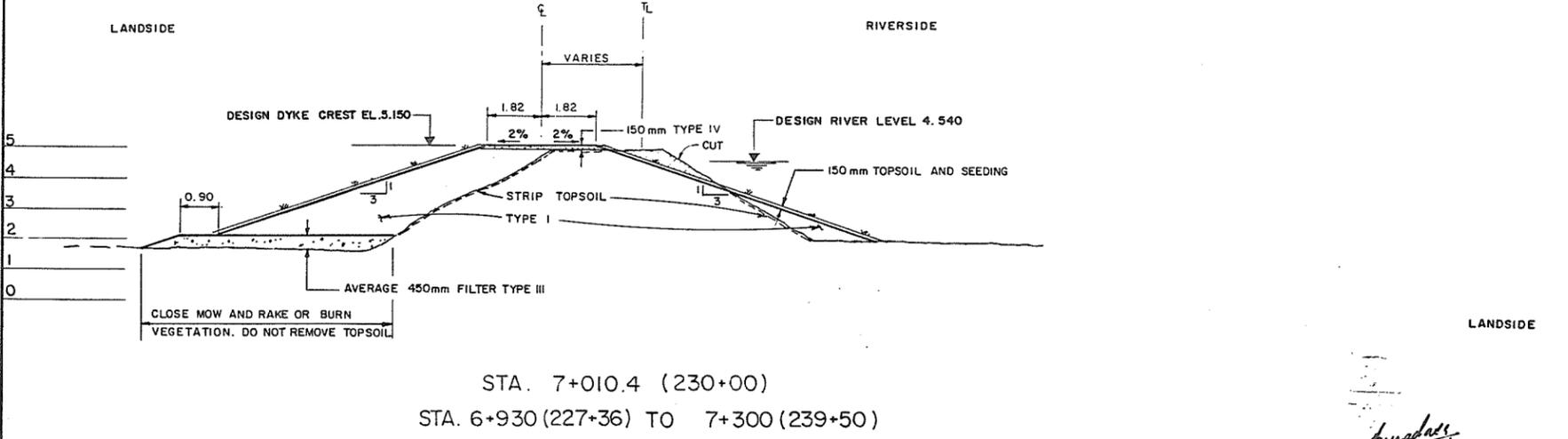
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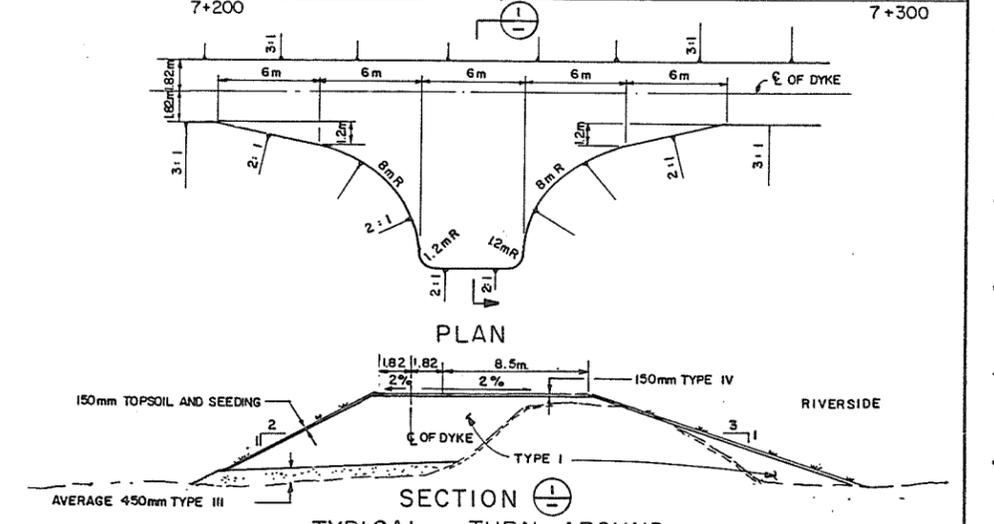
PLAN



PROFILE



STA. 7+010.4 (230+00)
STA. 6+930 (227+36) TO 7+300 (239+50)



SECTION 1-1
TYPICAL TURN-AROUND
N.T.S.

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-13-24-108

NO.	BY	REVISIONS	DATE
3	VW	AS CONSTRUCTED	27.8.86
2	VW	ISSUED FOR CONSTR.	24.9.86
1	VW	ISSUED FOR TENDER	7.8.86

RECOMMENDED *P.A. Lemley*
PROJECT MANAGER
DATE *July 28, 1986*

APPROVED *John Miller*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE *Jul 27 86*

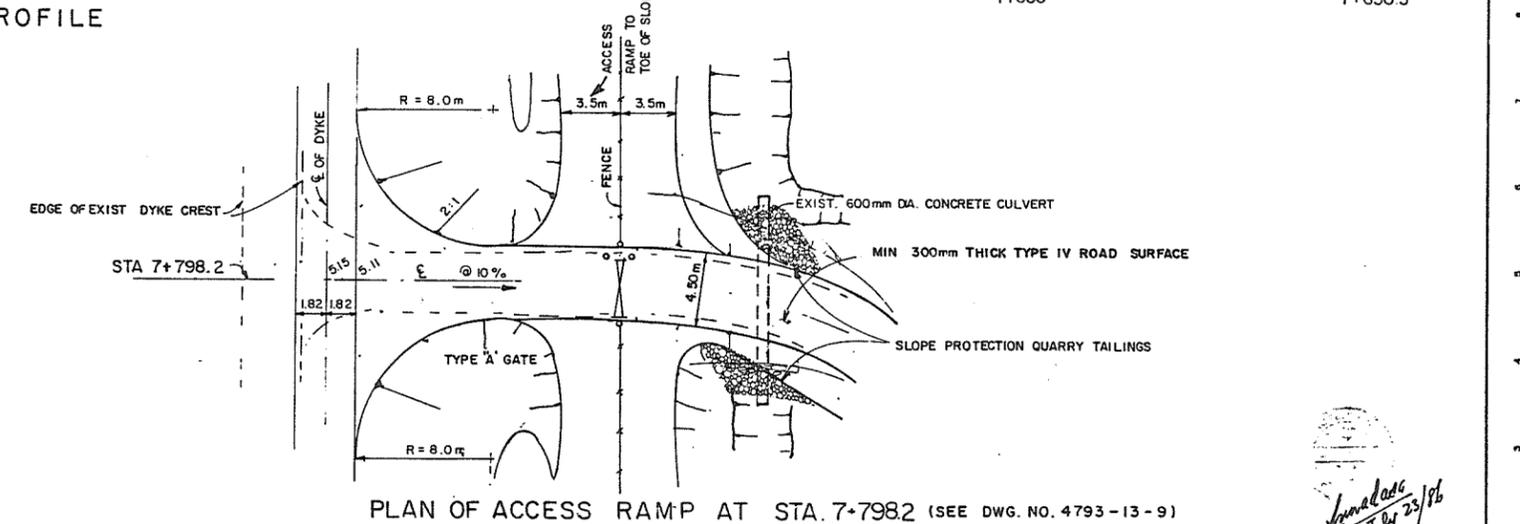
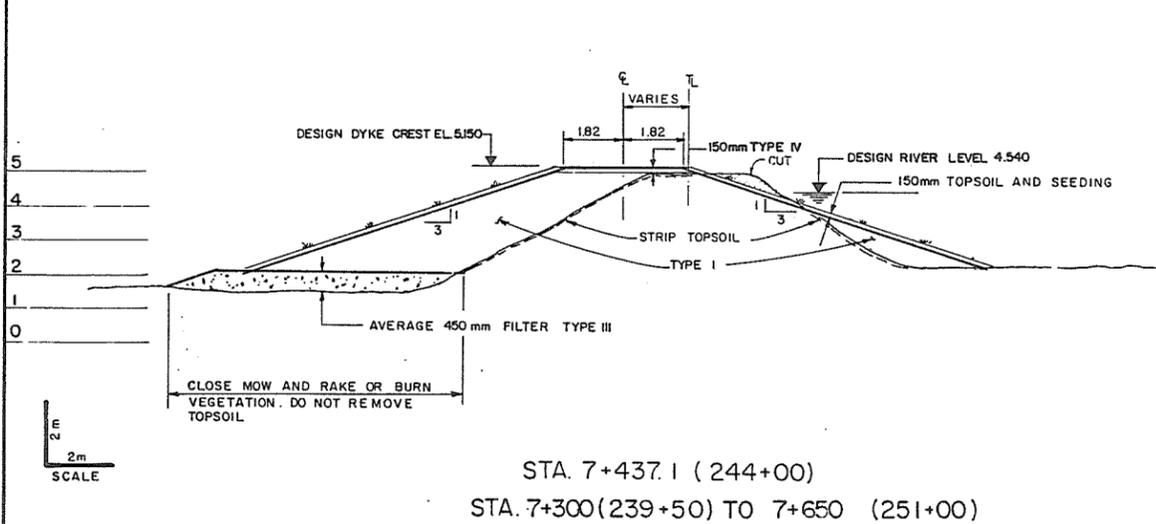
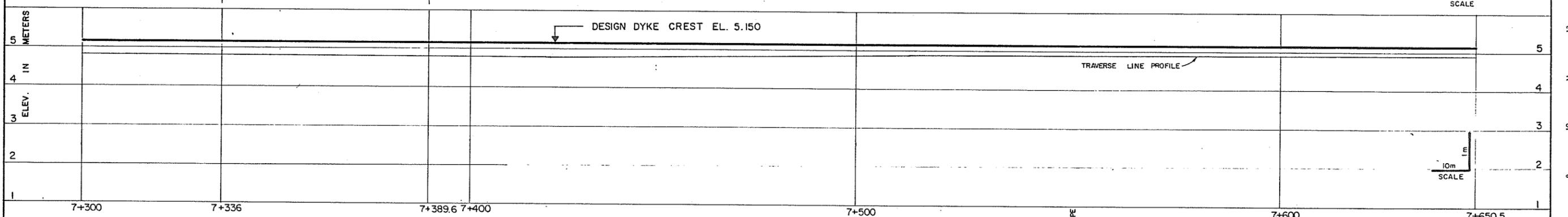
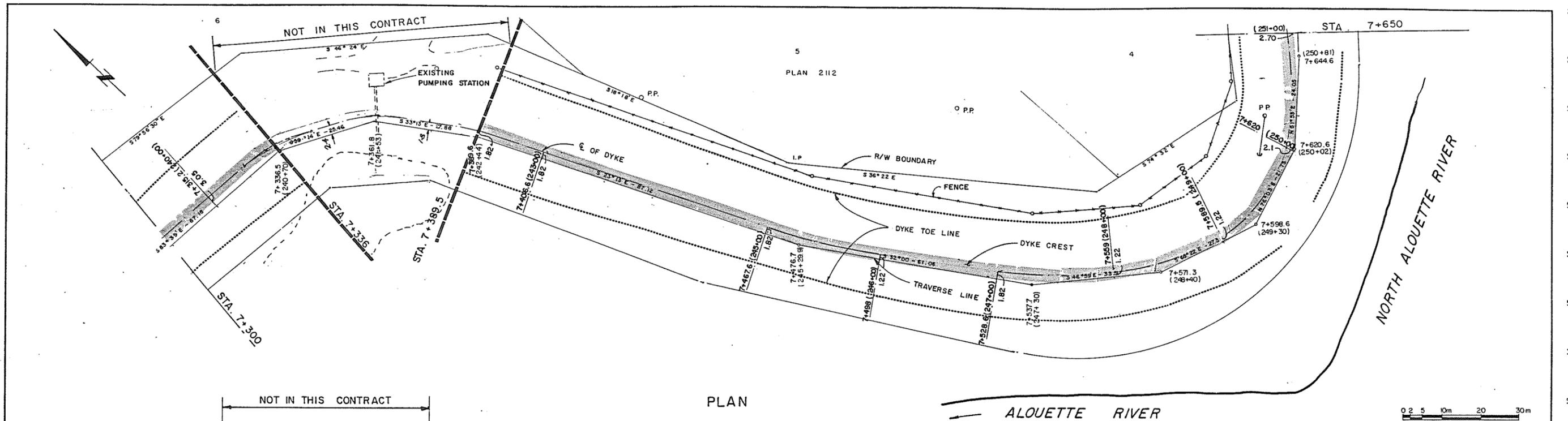
BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 13
PLAN, PROFILE AND CROSS SECTION
STA. 6+930 TO 7+300

DESIGNED	S.G.	SURVEYED	A.E. (B.C.) LTD.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED	<i>[Signature]</i>	FILE NO.	0281550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-7	SHEET	7 OF 11 SHEETS

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Amudax
July 23/86



ASSOCIATED ENGINEERING
AE
 DWG. NO. V43J-13-24-108

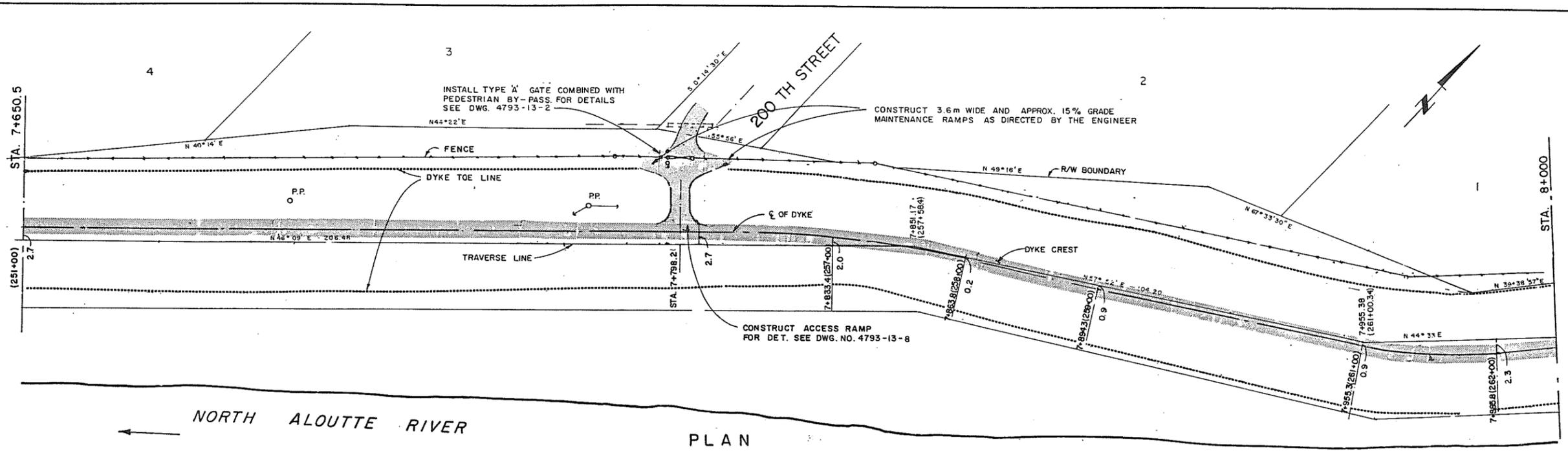
3	V.W.	AS CONSTRUCTED	1.9.87
2	V.W.	ISSUED FOR CONSTR.	24.9.86
1	V.W.	ISSUED FOR TENDER	7.8.86
NO. BY REVISIONS DATE			

RECOMMENDED *R. B. Cameron*
 PROJECT MANAGER
 DATE *July 26, 1986*
 APPROVED *W. J. Fuller*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE *Jul 27/86*

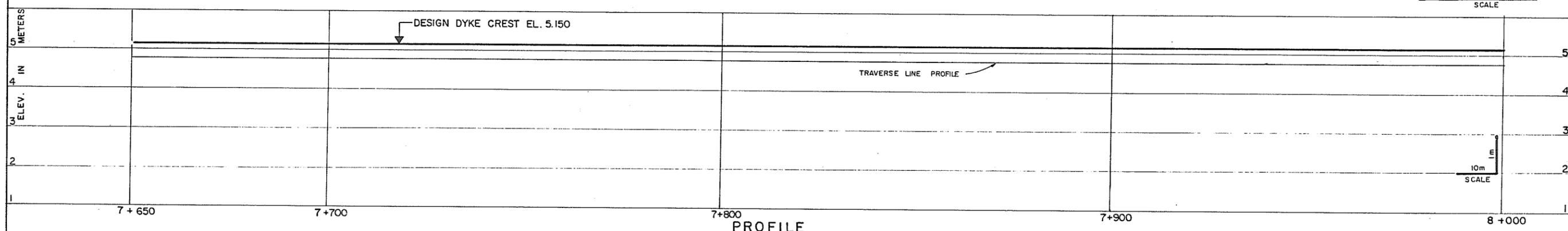
DESIGNED	S.G.	SURVEYED	A.E.(B.C.)LTD.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED		FILE NO.	028550-C4-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-8	SHEET	8 OF 11 SHEETS

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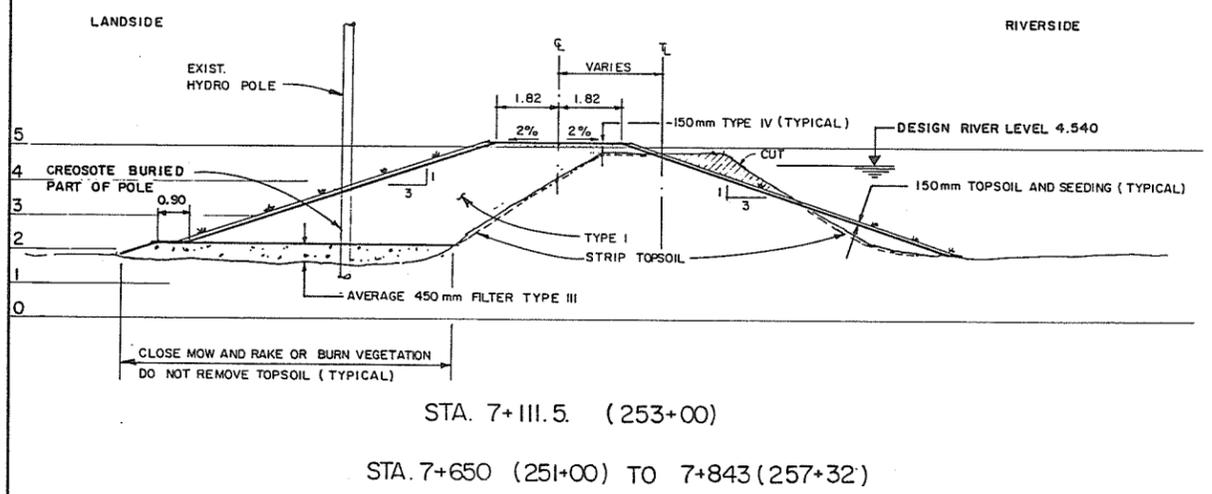
London
July 23/86



PLAN

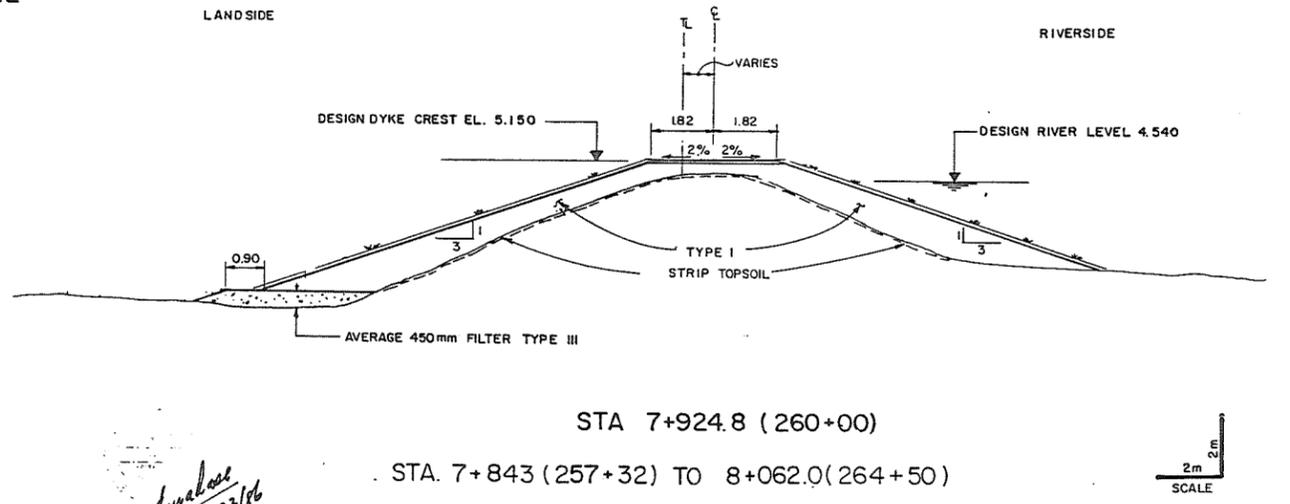


PROFILE



STA. 7+111.5 (253+00)

STA. 7+650 (251+00) TO 7+843 (257+32)



STA. 7+924.8 (260+00)

STA. 7+843 (257+32) TO 8+062.0 (264+50)

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-13-24-109

3	V.W. AS CONSTRUCTED	3.11.87
2	V.W. ISSUED FOR CONSTR.	24.9.86
1	V.W. ISSUED FOR TENDER	7.8.86

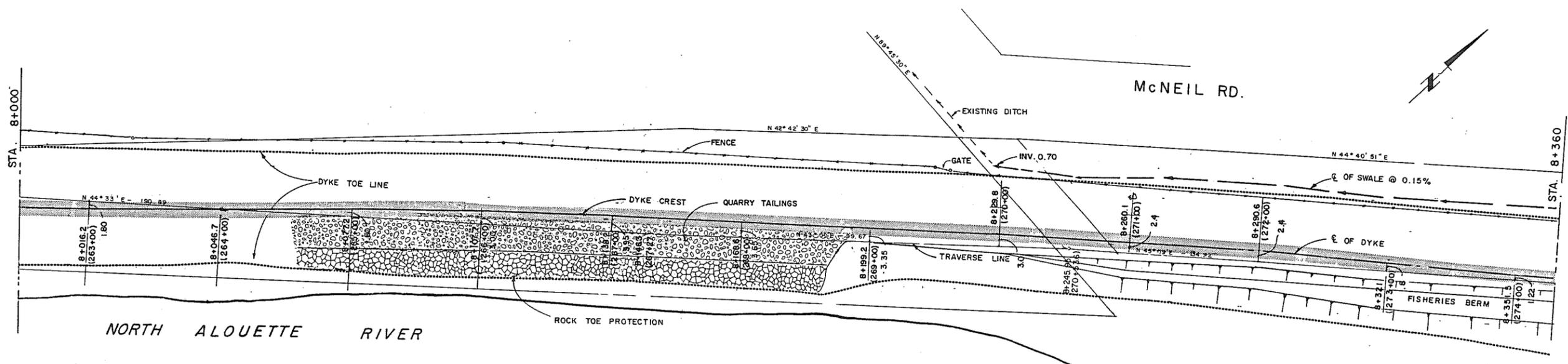
RECOMMENDED *P.A. Cameron*
PROJECT MANAGER
DATE *July 28, 1986*

APPROVED *John Miller*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE *July 28, 1986*

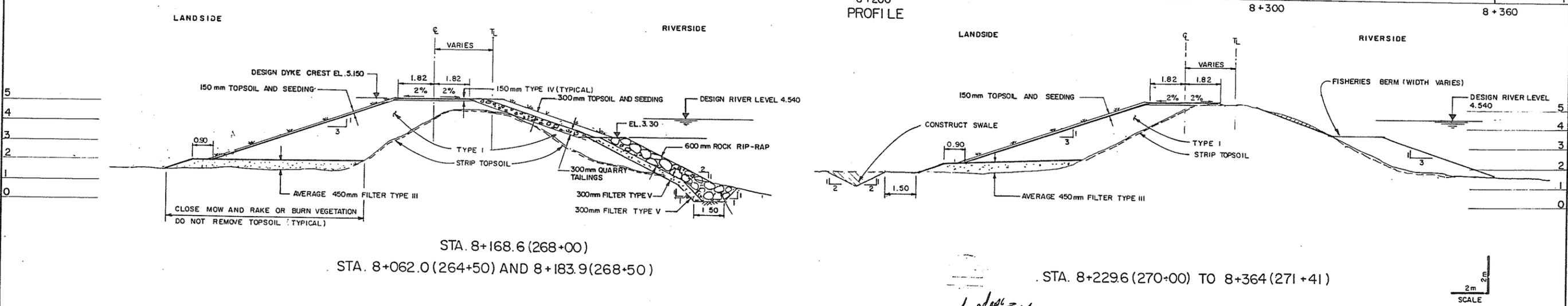
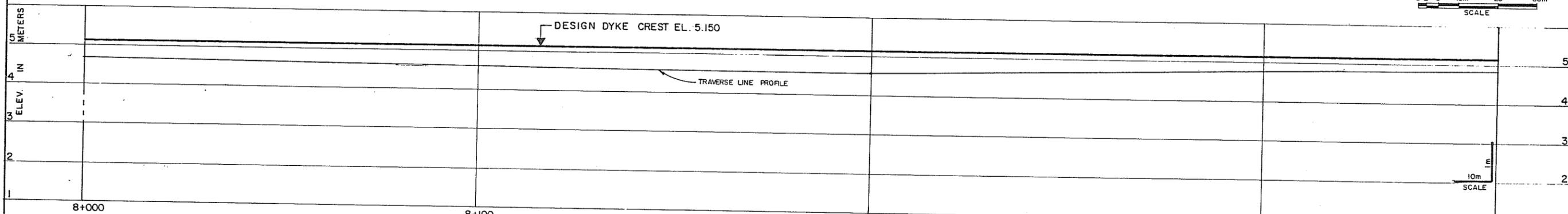
BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 13
PLAN, PROFILE AND CROSS SECTION
STA. 7+650 TO 8+000

DESIGNED S.G.	SURVEYED A.E. (B.C.) LTD.
DRAWN V.W.	DATE 1969 & 1986
CHECKED	FILE NO. 0281550-C14-13
SCALE AS SHOWN	DATE JUNE 1986
DWG. NO. 4793-13-9	SHEET 9 OF 11 SHEETS

280850



PLAN



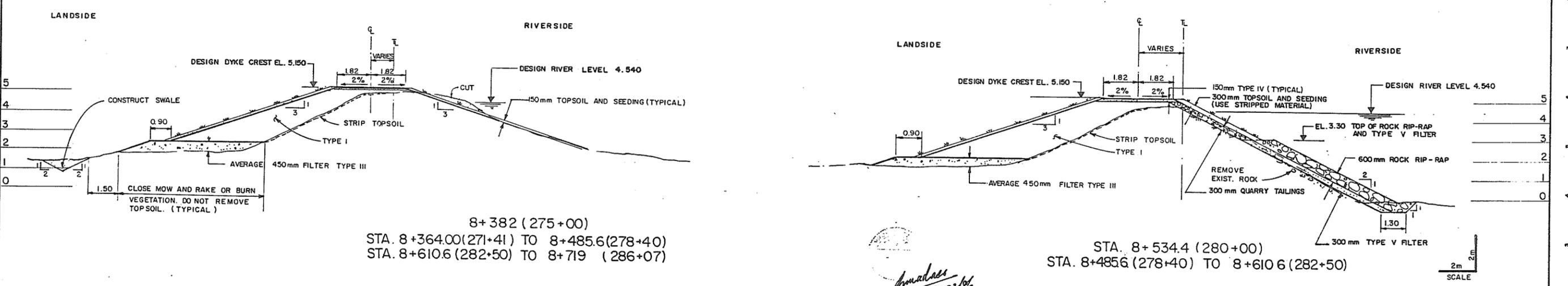
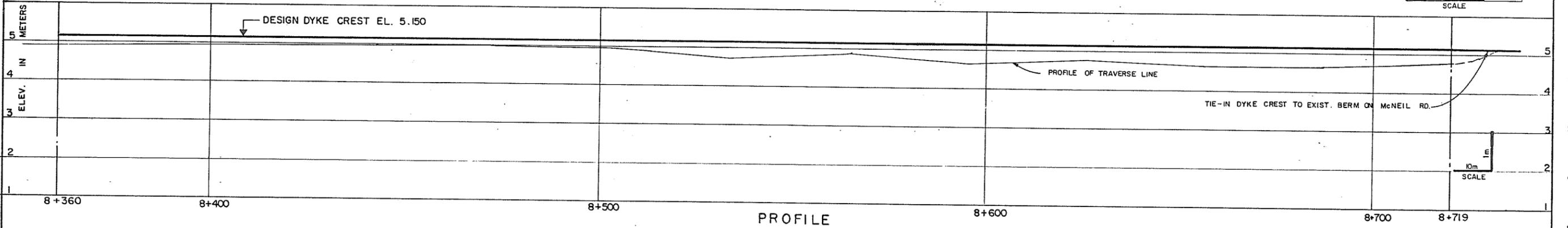
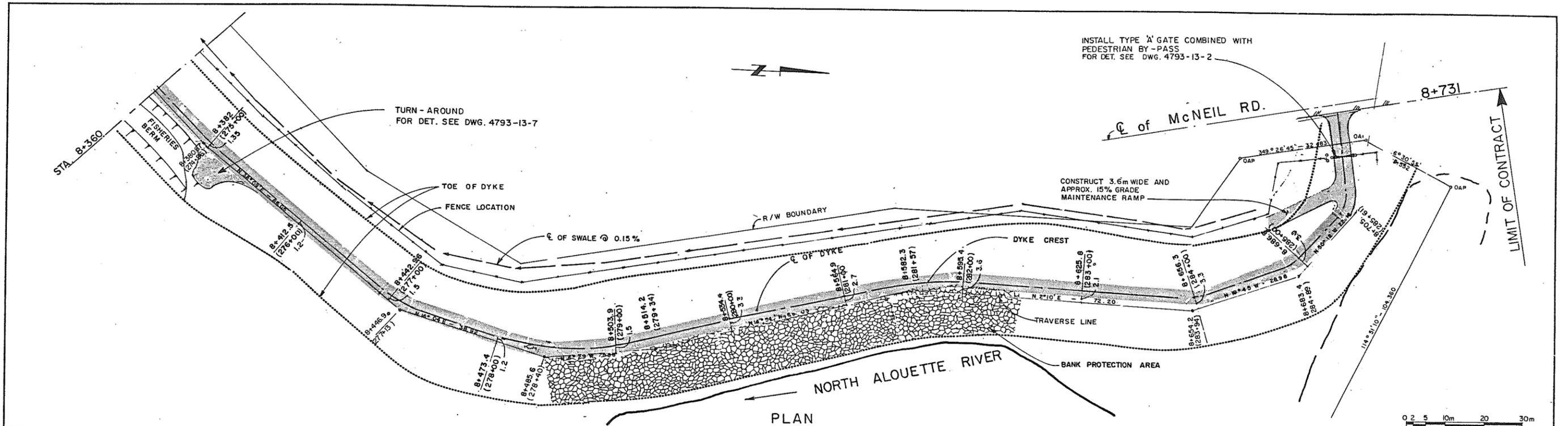
ASSOCIATED ENGINEERING **AE**

DWG. NO. V43J-13-24-110

3	V.W.	AS CONSTRUCTED	3.11.87
2	V.W.	ISSUED FOR CONSTR.	24.9.86
1	V.W.	ISSUED FOR TENDER	7.8.86
NO.	BY	REVISIONS	DATE

RECOMMENDED	<i>B.H. Cameron</i> PROJECT MANAGER	DATE	<i>July 28, 1986</i>
APPROVED	<i>W.L. Fuller</i> DIRECTOR, WATER MANAGEMENT BRANCH	DATE	<i>July 22, 1986</i>
BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 13 PLAN, PROFILE AND CROSS SECTION STA. 8+000 TO 8+360			
DESIGNED	S.G.	SURVEYED	A.E. (B.C.) LTD.
DRAWN	V.W.	DATE	1969 8 1986
CHECKED		FILE NO.	028550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-10	SHEET	10 OF 11 SHEETS

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ASSOCIATED ENGINEERING **AE**
 DWG. NO. V43J-13-24-III

3	V.W. AS CONSTRUCTED	4.11.87
2	V.W. ISSUED FOR CONSTR.	24.9.86
1	V.W. ISSUED FOR TENDER	7.8.86
NO. BY REVISIONS DATE		
RECOMMENDED <i>R.H. Cameron</i> PROJECT MANAGER		
DATE <i>July 27, 1986</i>		
APPROVED <i>W.H. Fuller</i> DIRECTOR, WATER MANAGEMENT BRANCH		
DATE <i>Jul 28/86</i>		

BRITISH COLUMBIA
 MINISTRY OF ENVIRONMENT
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 13
 PLAN, PROFILE AND CROSS SECTION
 STA. 8+360 TO 8+719

DESIGNED	S.G.	SURVEYED	A.E. (B.C.) LTD.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED		FILE NO.	028550-C14-13
SCALE	AS SHOWN	DATE	JUNE 1986
DWG. NO.	4793-13-11	SHEET	11 OF 11 SHEETS

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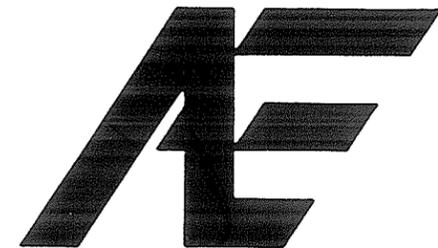
Amadas
July 23/86

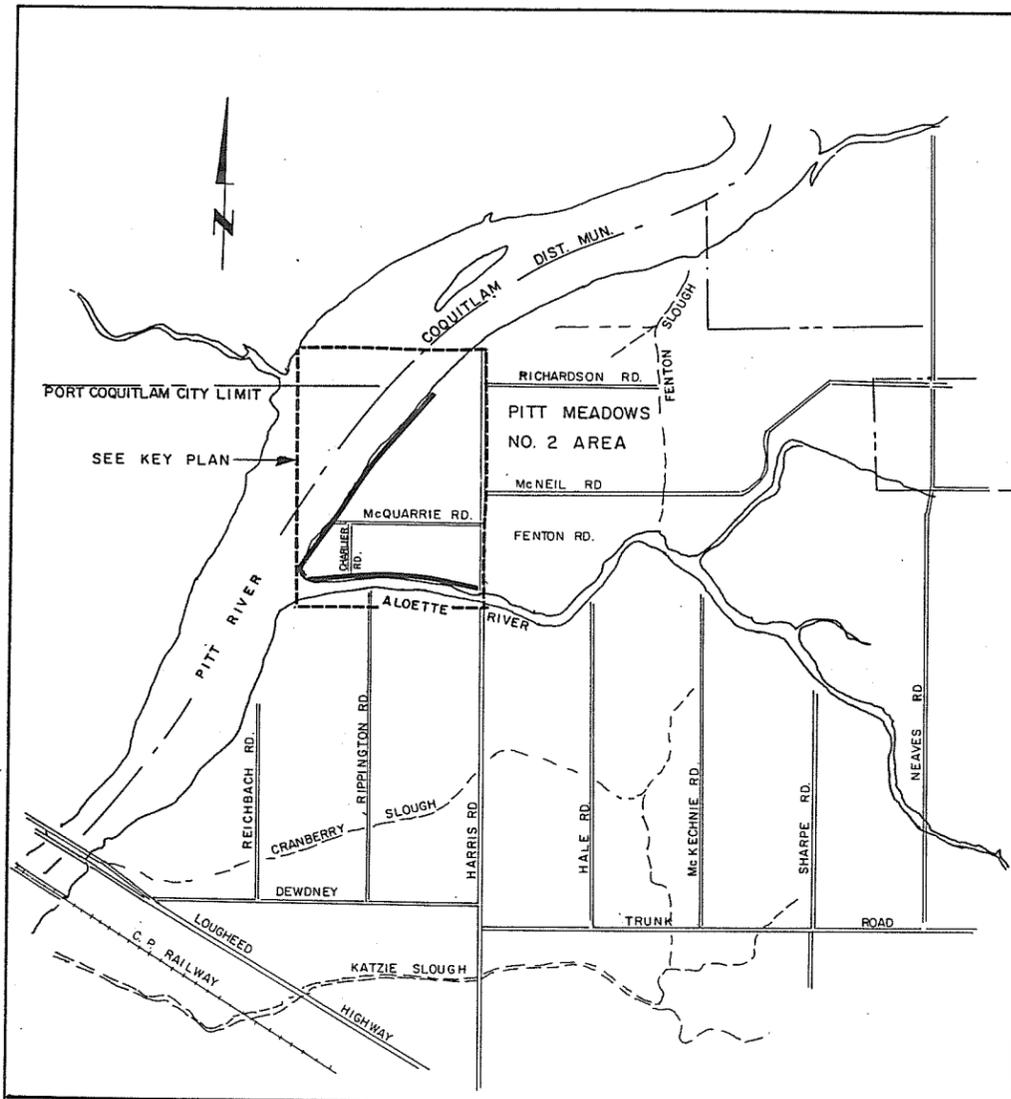
CONTRACT NO. 14

**CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 2 DISTRICT OF PITT MEADOWS
PITT MEADOWS NO. 2 AREA**

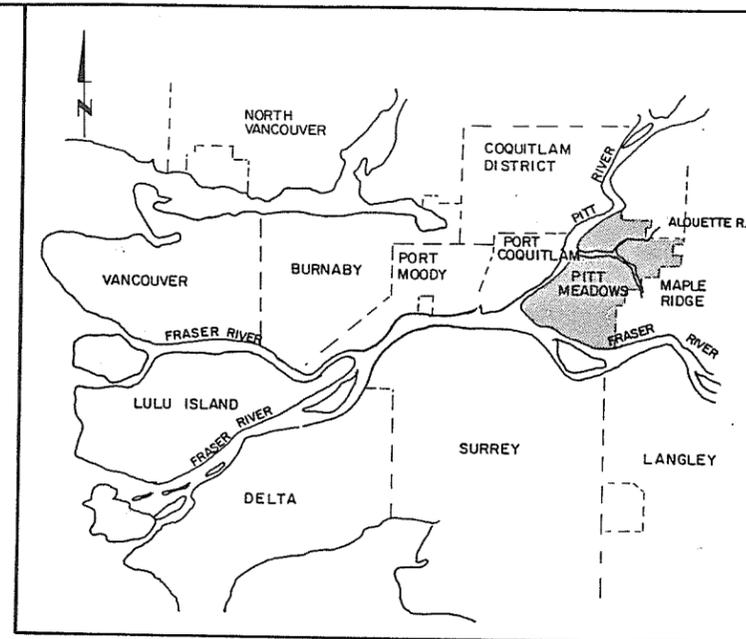
**CONTRACT NO. 14
DYKE RECONSTRUCTION
BETWEEN HARRIS AND RICHARDSON ROADS**

**ASSOCIATED
ENGINEERING**

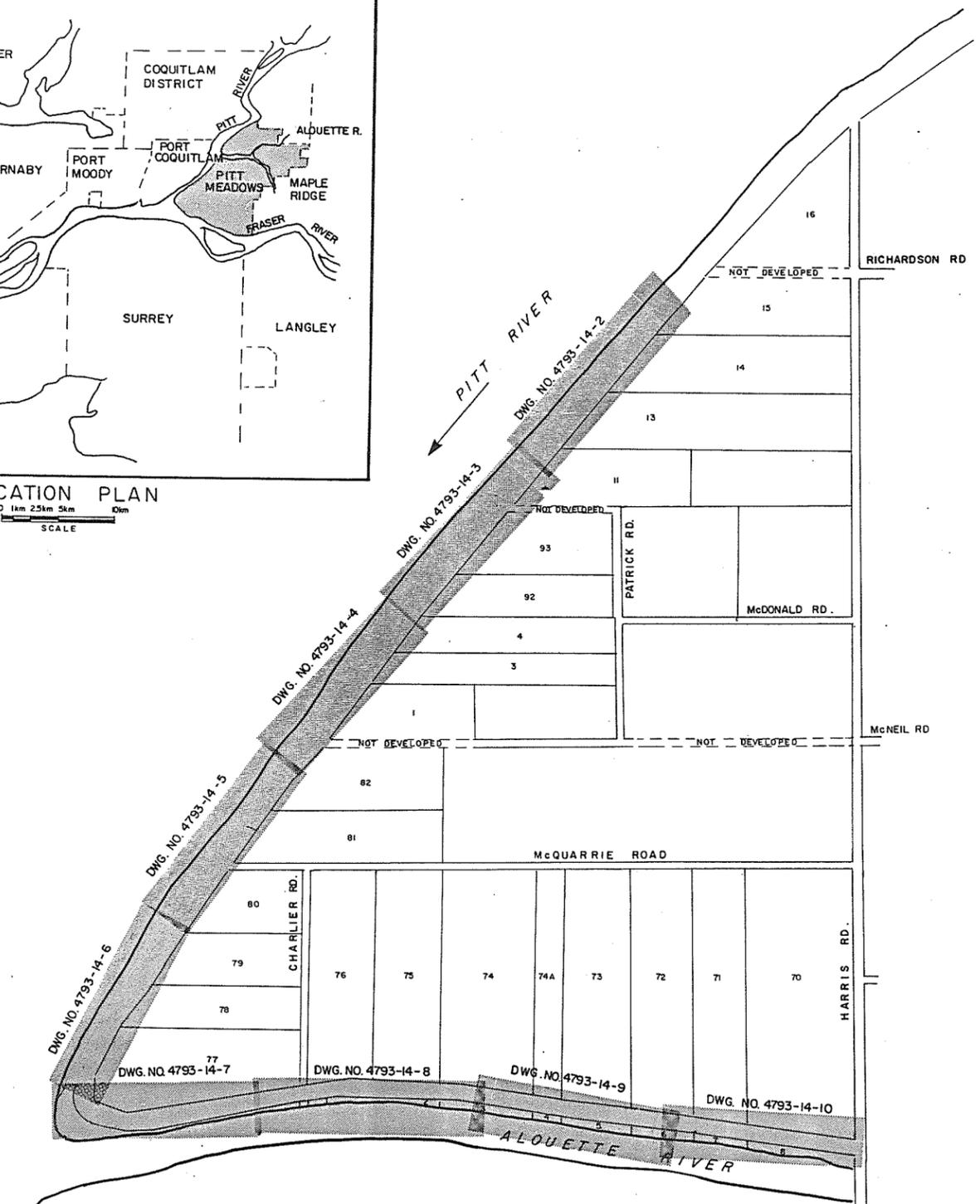




SITE ACCESS PLAN
 0 0.25km 0.5km 1.0km 2.0km
 SCALE



LOCATION PLAN
 0 1km 2.5km 5km 10km
 SCALE



KEY PLAN
 0 20 50 100m 200m 300m
 SCALE

GENERAL NOTES

1. ELEVATIONS ARE TO GEODETIC DATUM IN METRES.
2. GENERAL DYKE CONSTRUCTION IS INDICATED ON THE TYPICAL CROSS-SECTIONS. THE ACTUAL DYKE SECTION AT ANY STATION IS SHOWN ON A SEPARATE SET OF CROSS-SECTIONS. AVAILABLE FOR INSPECTION BY TENDERERS AND WILL BE SUPPLIED TO THE CONTRACTOR FOR INFORMATION ONLY (NOTE 4)
3. ALL GATE AND RAMP LOCATIONS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. OFFSETS SHOWN FROM TRAVERSE LINE (TL) TO DESIGN CL OF DYKE ARE APPROXIMATE ONLY. FINAL OFFSETS WILL BE VERIFIED PRIOR TO CONSTRUCTION.
5. ALL CHAINAGES ARE IN METRIC. EQUAL CHAINAGES IN FEET ARE SHOWN IN BRACKETS.
6. TOP OF ACCESS RAMPS TO BE COVERED WITH 300mm THICK TYPE IV SURFACE GRAVEL ON TOP OF TYPE I FILL OR EXISTING SURFACE.
7. REMOVE EXISTING FENCE AND ERECT NEW FENCE AS DIRECTED BY THE ENGINEER, 2.5m TO 3.0m DISTANCE OUTSIDE TOE OF DYKE.

ASSOCIATED ENGINEERING

AE DWG. NO. V43J-14-24-101

3	V.W.	AS CONSTRUCTED	23.11.87	RECOMMENDED	<i>A. H. Cameron</i>	PROJECT MANAGER
2	V.W.	ISSUED FOR CONSTRUCTION	9.2.87	DATE	DEC. 12 1986.	
1	V.W.	ISSUED FOR TENDER	12.1.87	APPROVED	<i>John Miller</i>	PROJECTOR: WATER MANAGEMENT BRANCH
NO.	BY	REVISIONS	DATE	DATE	Dec 15/86	

BRITISH COLUMBIA
 MINISTRY OF ENVIRONMENT
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1988 AGREEMENT

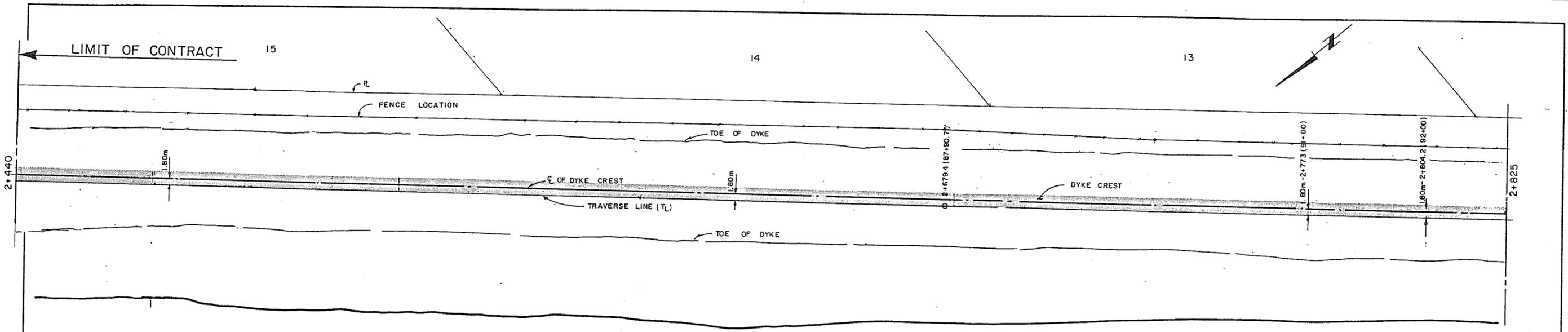
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14

KEY PLAN

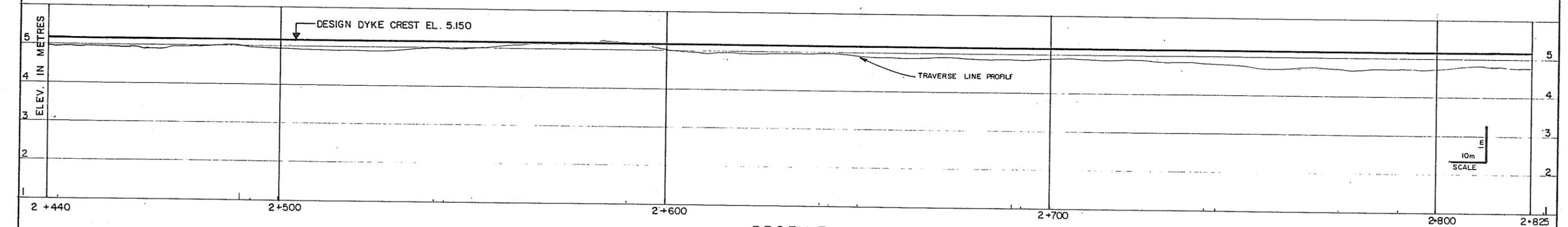
DESIGNED	S.G.	SURVEYED	N/A
DRAWN	V.W.	DATE	N/A
CHECKED		FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-1	SHEET	1 OF 11 SHEETS

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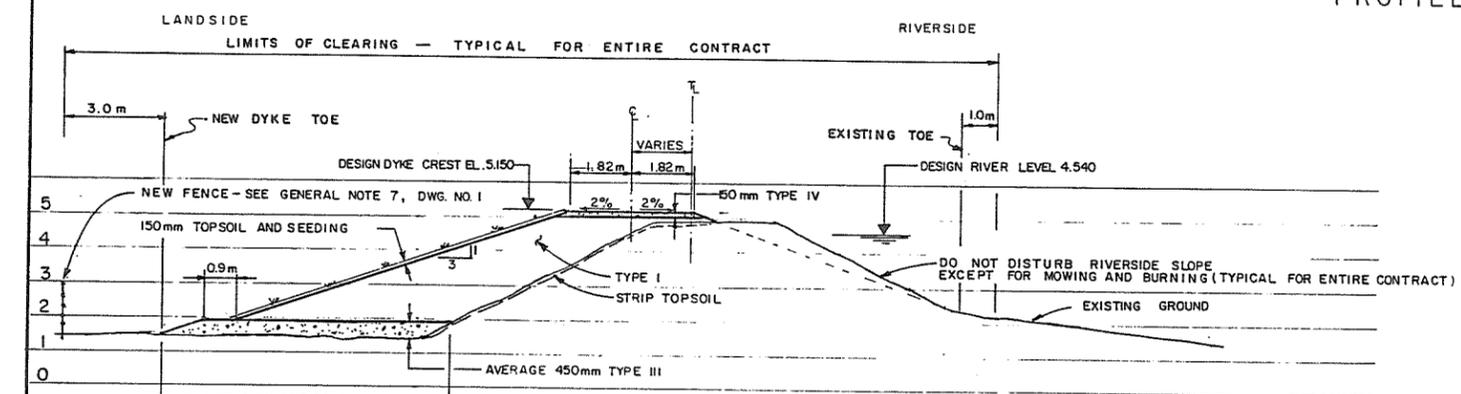
200 4/86



PLAN



PROFILE



CLOSE MOW AND RAKE OR BURN VEGETATION. DO NOT REMOVE TOPSOIL (TYPICAL)

SCALE 2m

STA 2+529.4 (83+00)
 STA. 2+4 (81+20) TO 2+825 (92+68)

ASSOCIATED ENGINEERING

AE DWG. NO. V43J-14-24-2

3	V.W. AS CONSTRUCTED	23.11.87
2	V.W. ISSUED FOR CONSTRUCTION	9.2.87
1	V.W. ISSUED FOR TENDER	12.1.87
NO.	BY	REVISIONS
		DATE

RECOMMENDED *P. H. Cameron*
 PROJECT MANAGER
 DATE *Dec. 12, 1986*

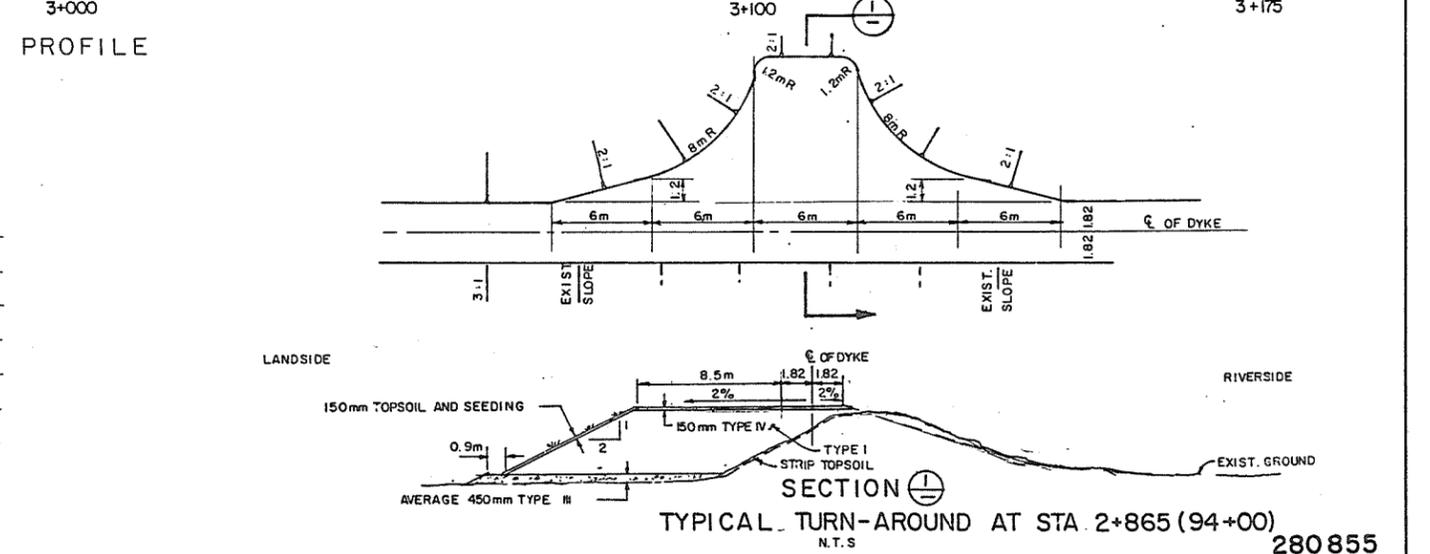
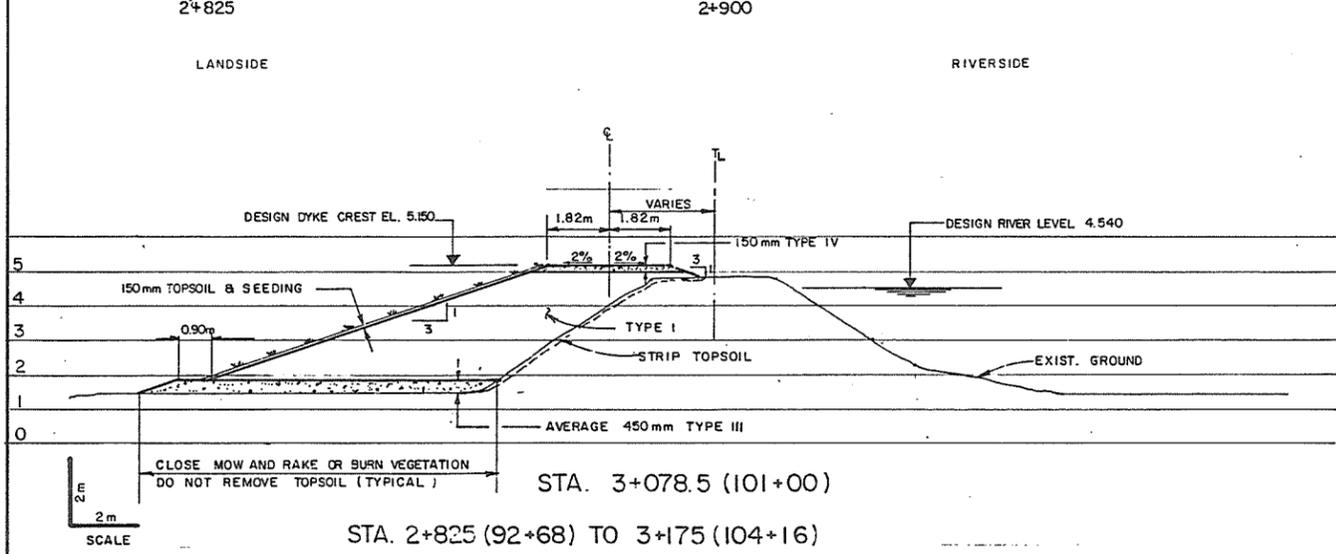
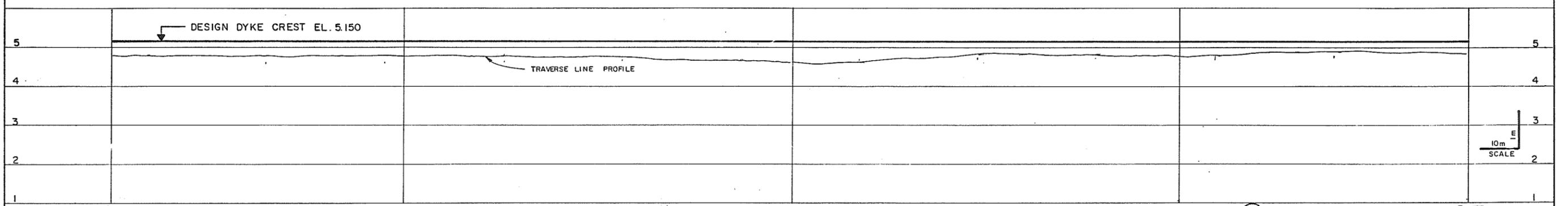
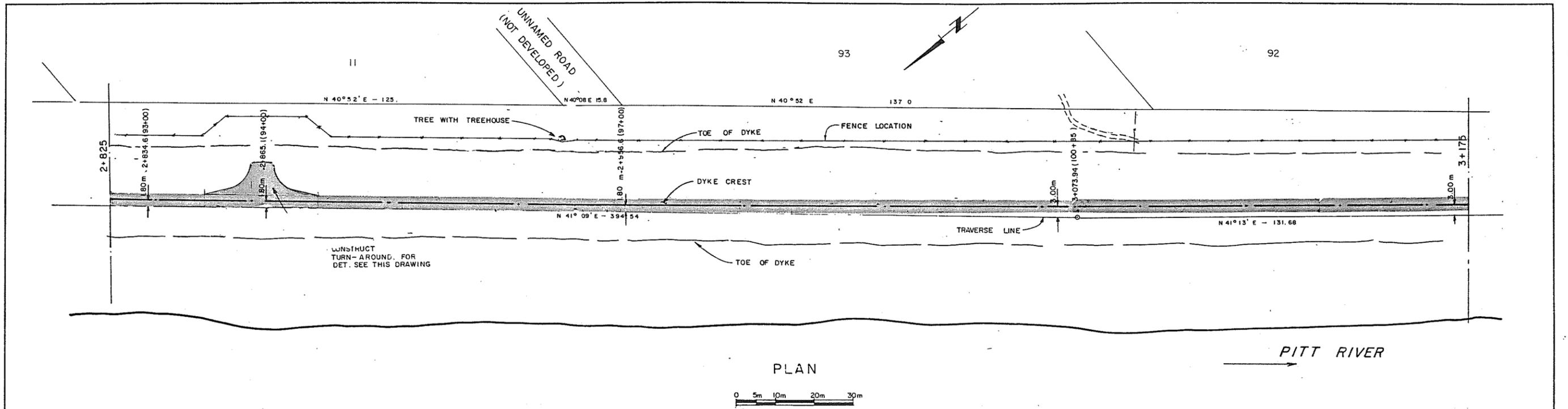
APPROVED *John Fuller*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE *Dec 15/86*

BRITISH COLUMBIA
 MINISTRY OF ENVIRONMENT
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14
 PLAN, PROFILE AND CROSS SECTION
 STA. 2+475 TO 2+825

DESIGNED	S. G.	SURVEYED	A. E.
DRAWN	V. W.	DATE	1969 8 1986
CHECKED		FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-2	SHEET 2	OF 11 SHEETS

280854



James
Dec 4/86

ASSOCIATED ENGINEERING

DWG. NO. V43J-14-24-103

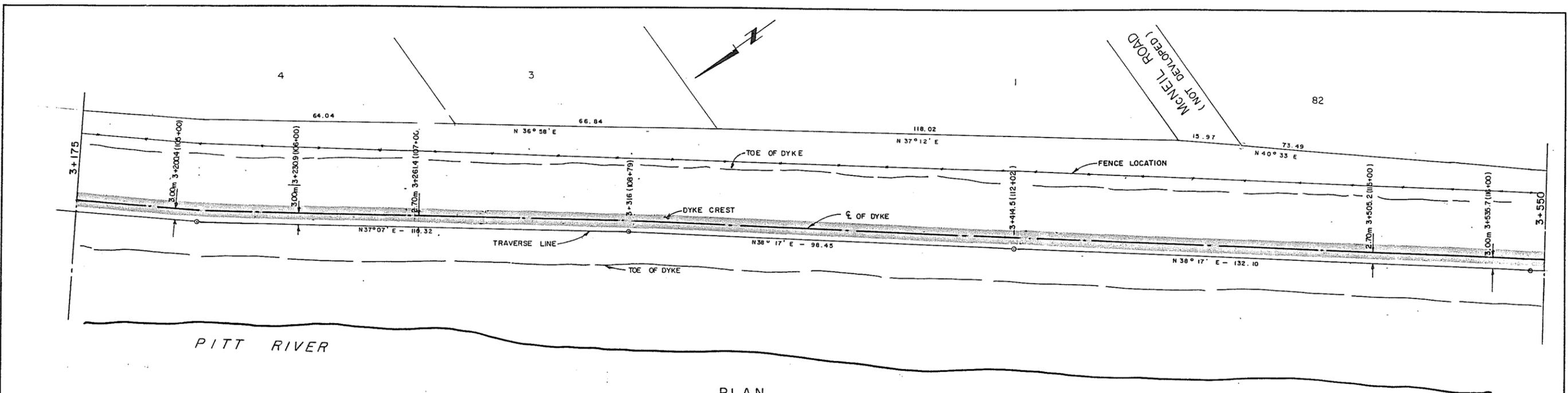
4	V.W.	AS CONSTRUCTED	23.11.87
3	V.W.	TURN-AROUND CHANGED	18.3.87
2	V.W.	ISSUED FOR CONSTRUCTION	9.2.87
1	V.W.	ISSUED FOR TENDER	12.1.87

RECOMMENDED *P. N. Lemson*
PROJECT MANAGER
DATE **DEC. 12 1986.**

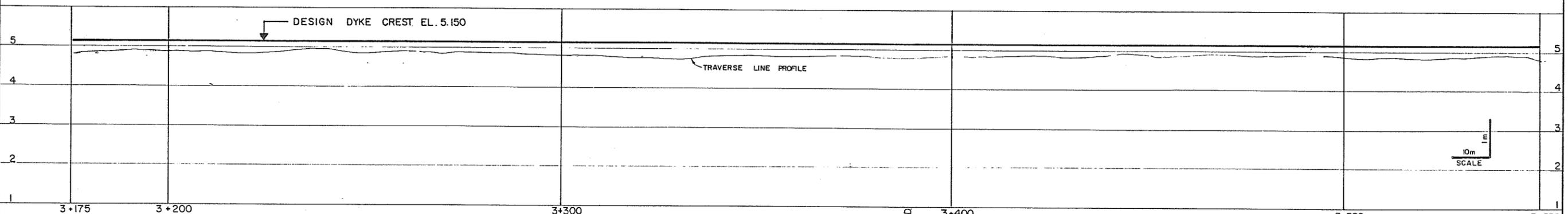
APPROVED *John Miller*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE **Dec. 15/86**

BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1988 AGREEMENT
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14
PLAN, PROFILE AND CROSS SECTION
STA. 2+625 TO 3+175

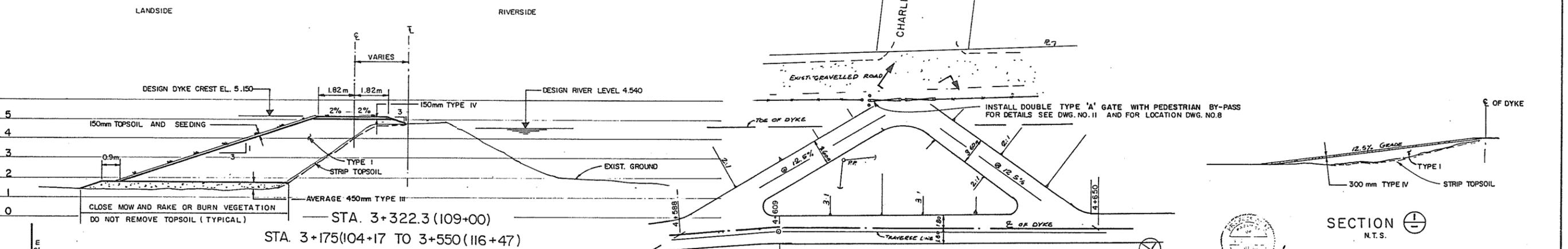
DESIGNED	S.G.	SURVEYED	A.E.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED	<i>sh</i>	FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-3	SHEET	3 OF 11 SHEETS



PLAN
0 5m 10m 20m 30m



PROFILE



SECTION
N.T.S.

PLAN OF CHARLIER RD. RAMPS
N.T.S.



AE DWG. NO. V43J-14-24-104

3	V.W. AS CONSTRUCTED	23.11.87
2	V.W. ISSUED FOR CONSTRUCTION	9.2.87
1	V.W. ISSUED FOR TENDER	12.1.87
NO.	BY	REVISIONS

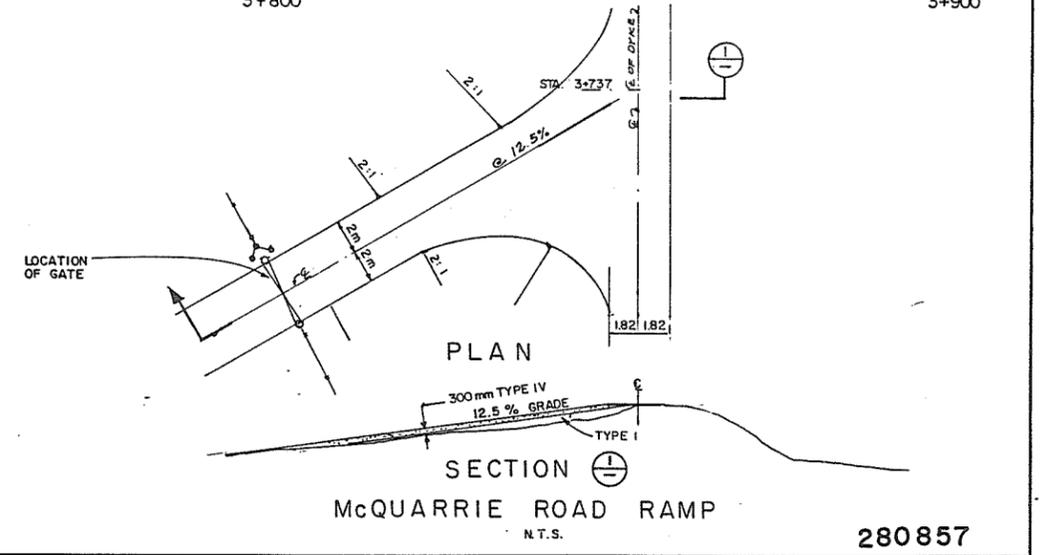
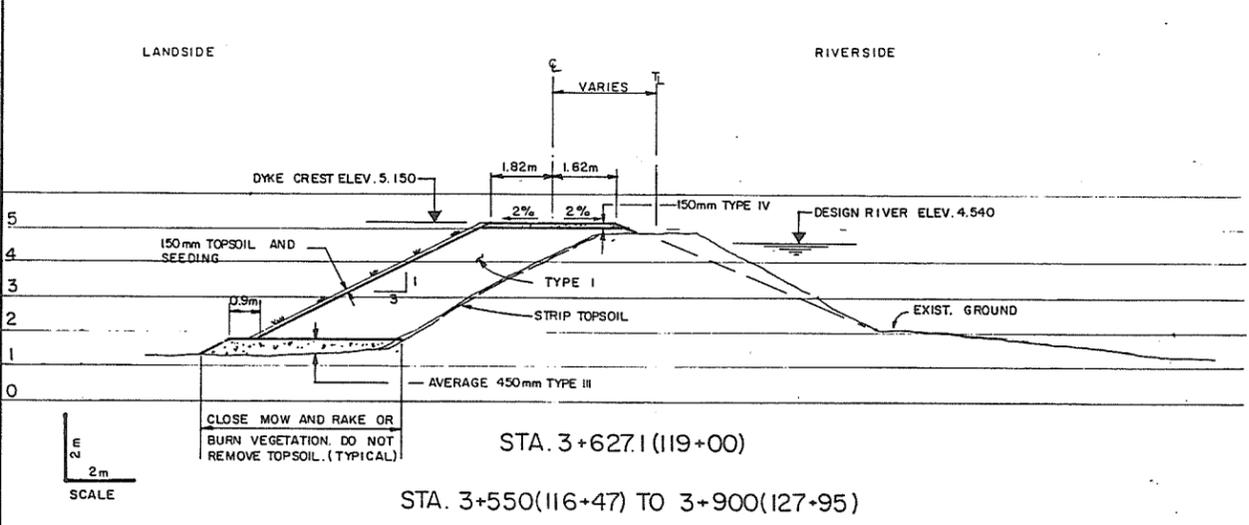
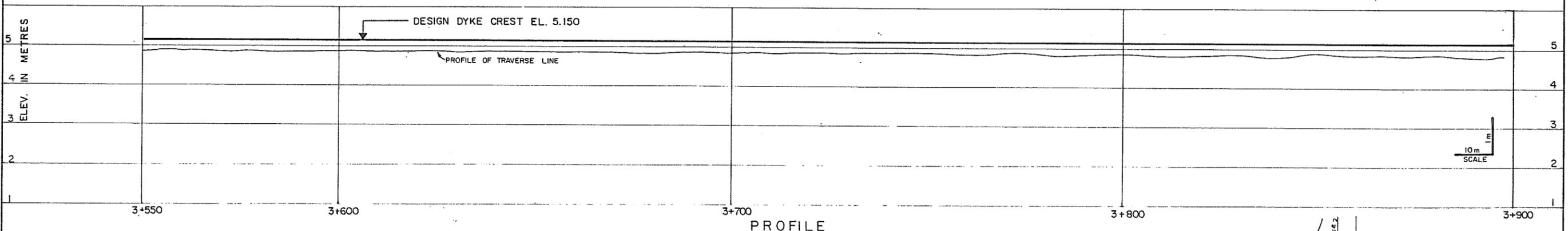
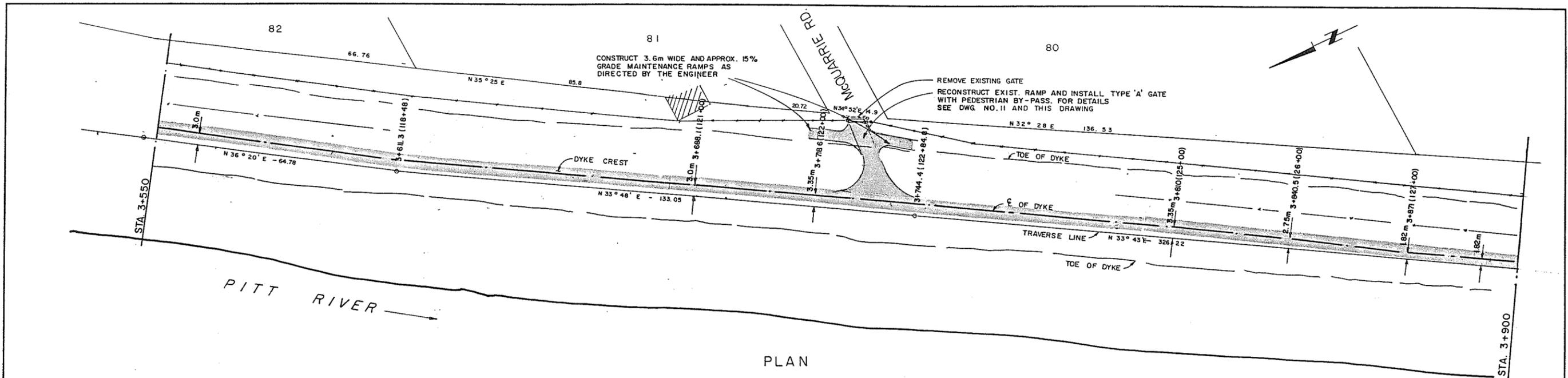
RECOMMENDED *R.A. Cameron*
PROJECT MANAGER
DATE **DEC. 12. 1986**

APPROVED *Gill Fuller*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE **Dec. 15/86**

DESIGNED	S.G.	SURVEYED	A.E.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED		FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-4	SHEET	4 OF 11 SHEETS

280856

Jan 4/86



ASSOCIATED ENGINEERING **AE**

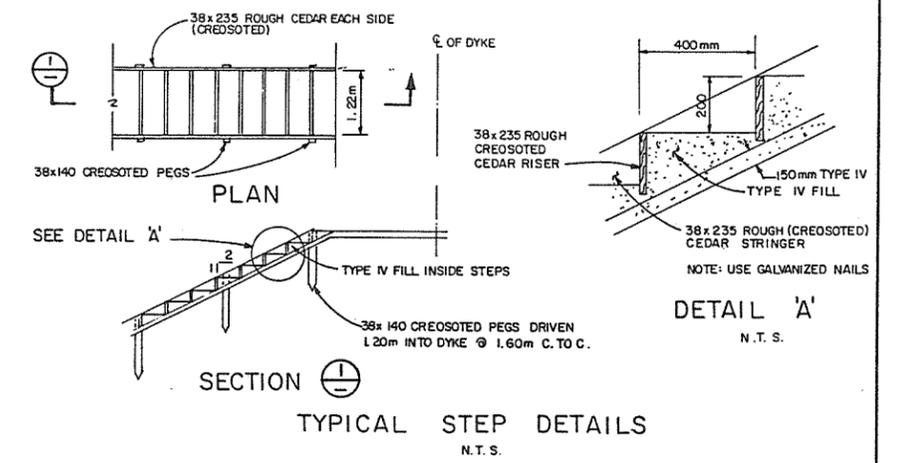
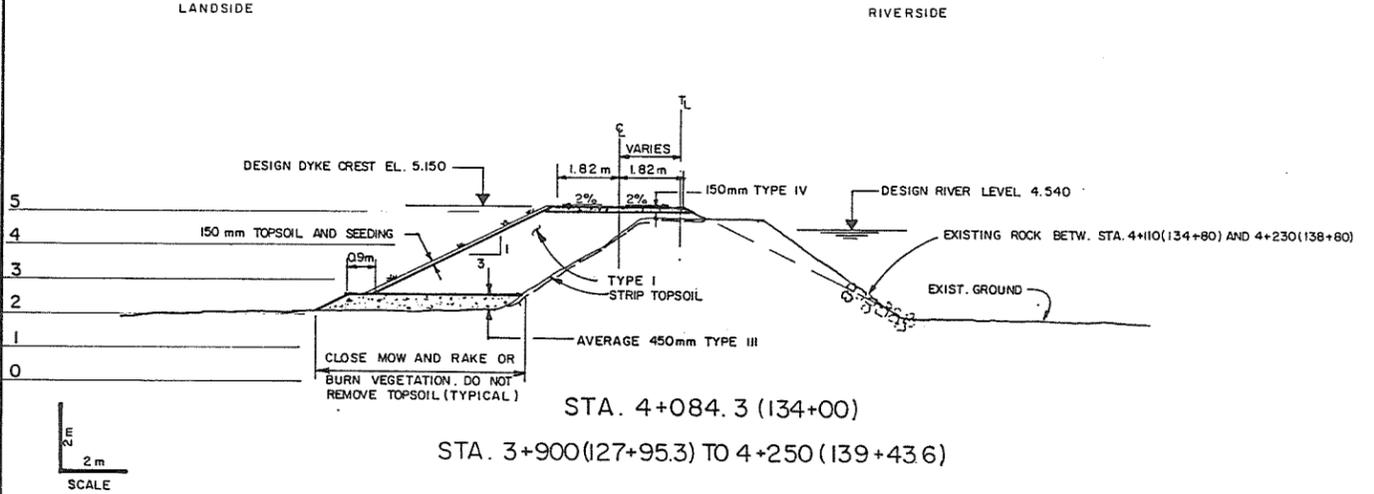
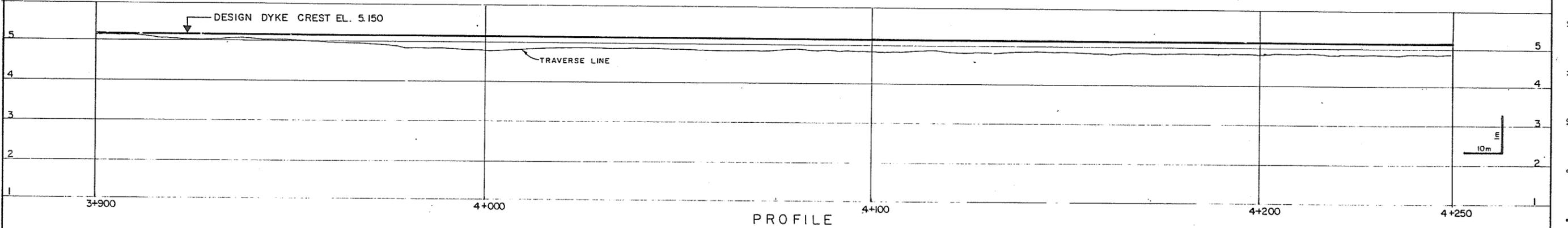
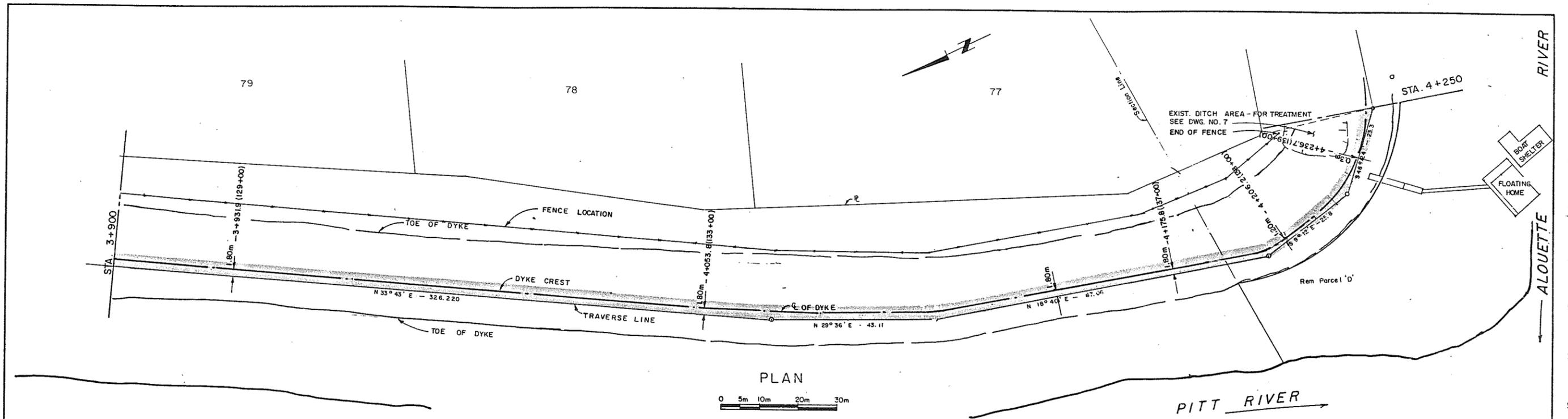
AE DWG. NO. V43J-14-24-105

3	V.W.	AS CONSTRUCTED	24.87	RECOMMENDED	<i>P. R. Cameron</i>	PROJECT MANAGER
2	V.W.	ISSUED FOR CONSTRUCTION	9.2.87	DATE	DEC. 12 1986	
1	V.W.	ISSUED FOR TENDER	12.1.87	APPROVED	<i>John Fuller</i>	DIRECTOR, WATER MANAGEMENT BRANCH
	NO.	BY	REVISIONS	DATE	DEC 15 1986	

BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14
PLAN PROFILE AND CROSS SECTION
STA. 3+550 TO 3+900

DESIGNED	S C	SURVEYED	A.E.
DRAWN	V. W.	DATE	1969 & 1986
CHECKED	<i>W.</i>	FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-5	SHEET	5 OF 11 SHEETS

280857



Handwritten signature and date: Dec 4 '86

ASSOCIATED ENGINEERING

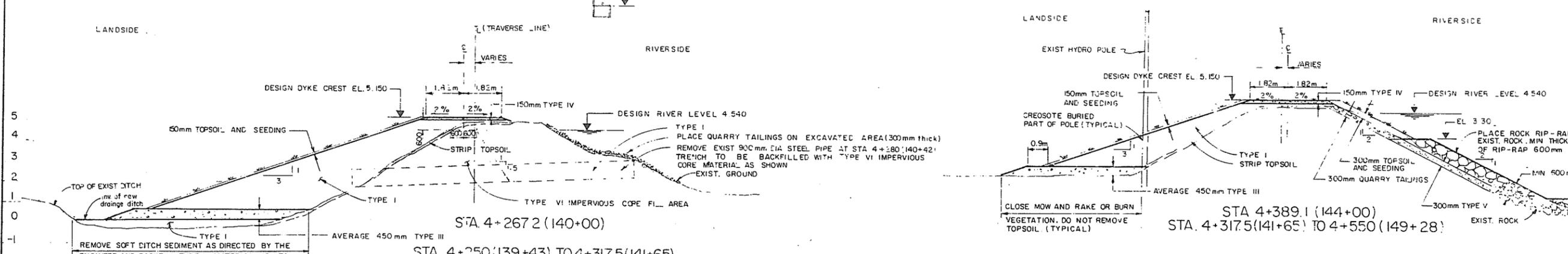
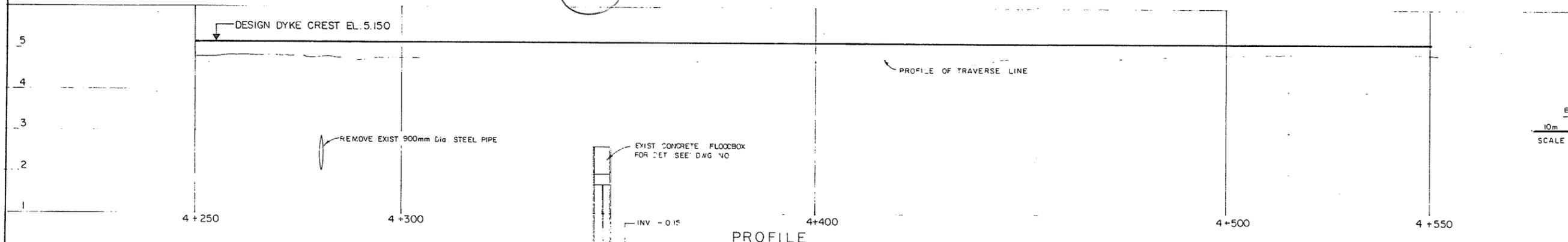
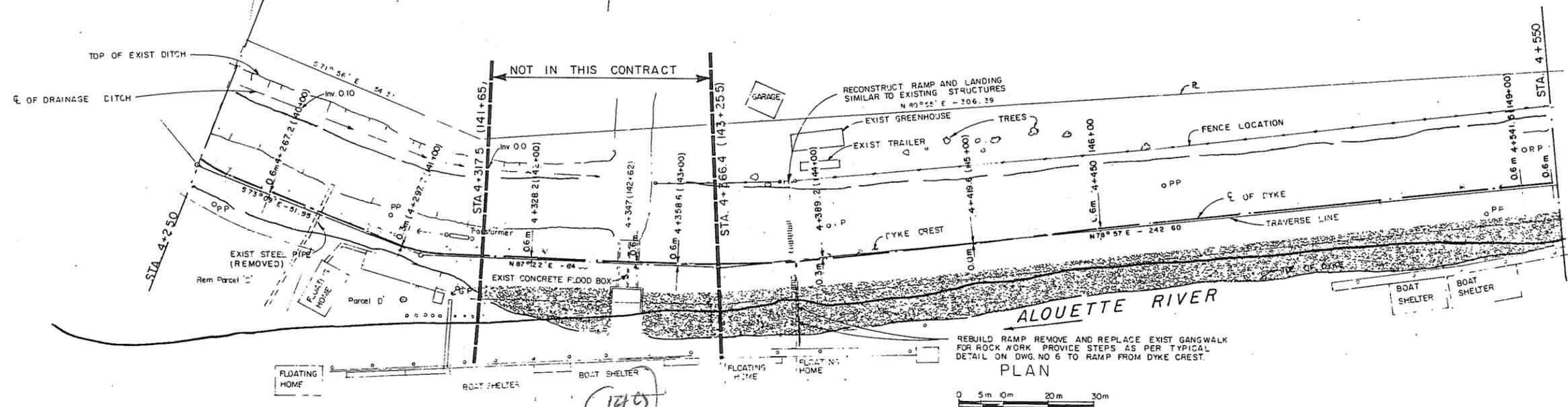
AE DWG. NO. V43J-14-24-106

3	V.W. AS CONSTRUCTED	24.11.87	RECOMMENDED <i>A. H. Cameron</i> PROJECT MANAGER
2	V.W. ISSUED FOR CONSTRUCTION	9.2.87	DATE <i>DEC. 12 1986</i>
1	V.W. ISSUED FOR TENDER	12.1.87	APPROVED <i>W. Fuller</i> DIRECTOR, WATER MANAGEMENT BRANCH
NO.	BY	REVISIONS	DATE <i>Dec 15/86</i>

BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14
PLAN, PROFILE AND CROSS SECTION
STA. 3+900 TO 4+250

DESIGNED	S. G.	SURVEYED	A. E.
DRAWN	V. W.	DATE	1969 & 1986
CHECKED	<i>[Signature]</i>	FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-6	SHEET	6 OF 11 SHEETS

280858



280859

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. : 43 - 14 - 24 - 107

3	V.W.	AS CONSTRUCTED	23.11.87
2	V.W.	ISSUED FOR CONSTRUCTION	19.2.87
1	V.W.	ISSUED FOR TENDER	12.1.87
NO.	BY	DATE	

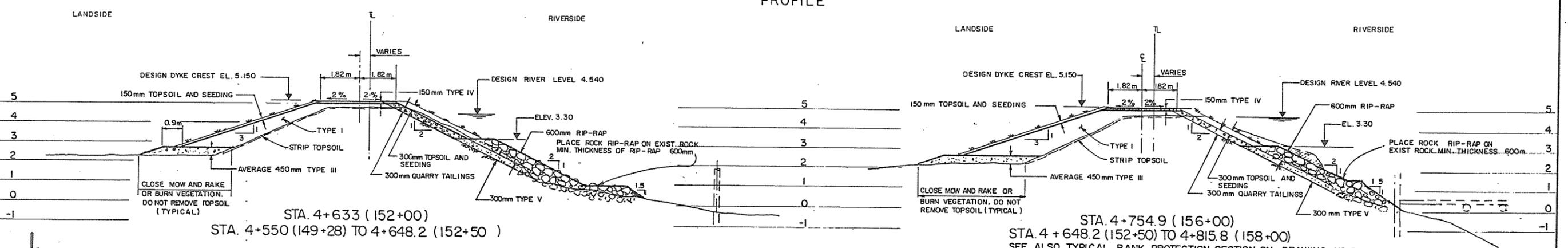
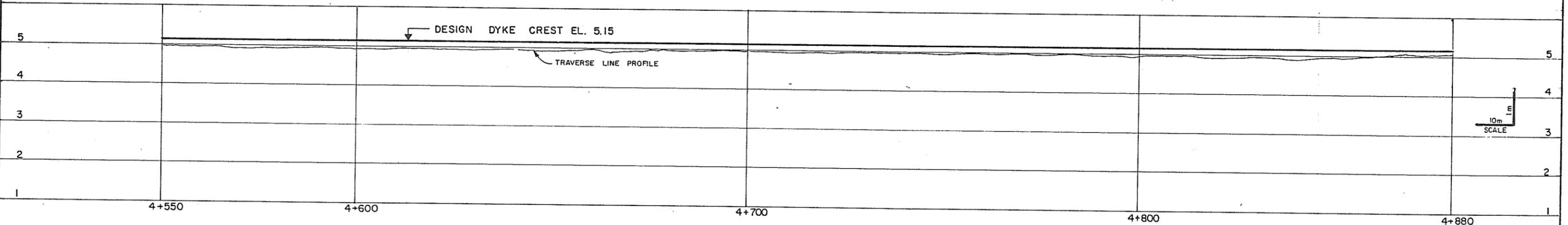
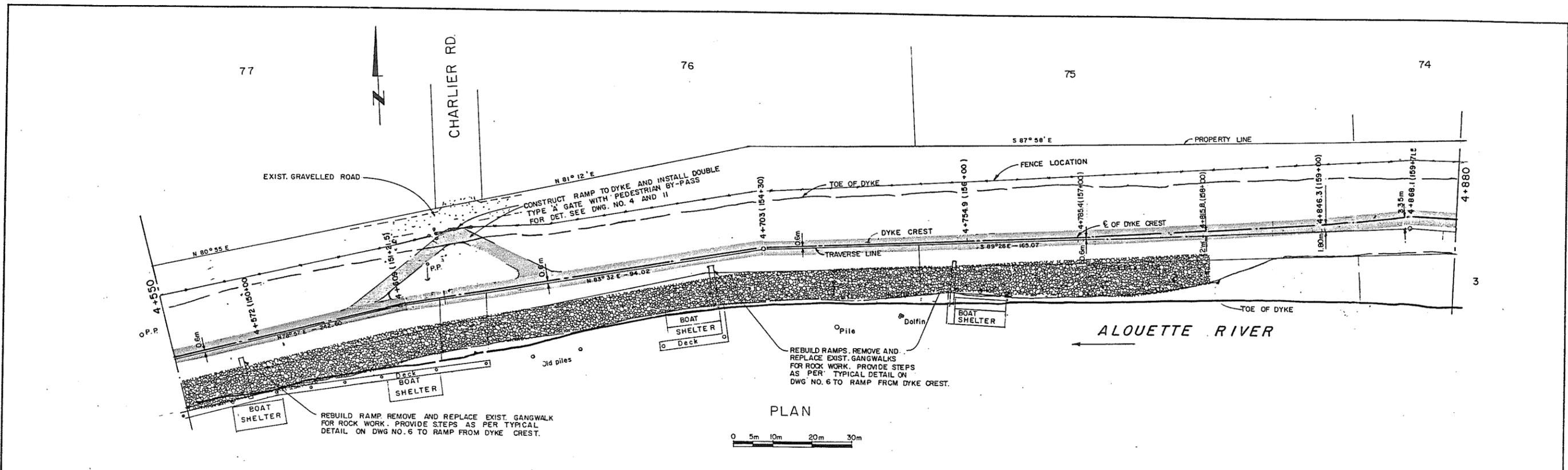
RECOMMENDED
DATE
APPROVED <i>John Fuller</i>
DATE 15/1/84

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14

PLAN, PROFILE AND CROSS SECTION

STA. 4+250 TO 4+550

SCALE	S G	DATE	A E
V.W.		1969 & 1986	
AS SHOWN		0281550-C14-14	
4793-14-7		DEC. 1986	



280860

ASSOCIATED ENGINEERING

AE DWG. NO. V43J-14-24-108

NO.	BY	REVISIONS	DATE
3	V.W.	AS CONSTRUCTED	23.8.86
2	V.W.	ISSUED FOR CONSTRUCTION	9.2.87
1	V.W.	ISSUED FOR TENDER	12.1.87

RECOMMENDED *R. H. Cameron*
PROJECT MANAGER

DATE *Dec. 12, 1986*

APPROVED *John Suller*
DIRECTOR, WATER MANAGEMENT BRANCH

DATE *Dec. 1986*

BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14

PLAN, PROFILE AND CROSS SECTION
STA. 4+550 TO 4+880

DESIGNED	SURVEYED
S. G.	A. E.
DRAWN	DATE
CHECKED	FILE NO.
SCALE	DATE
DWG. NO.	SHEET

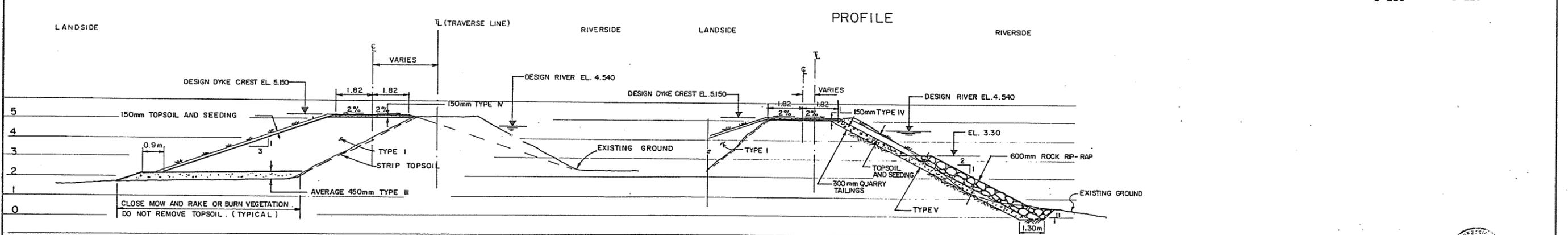
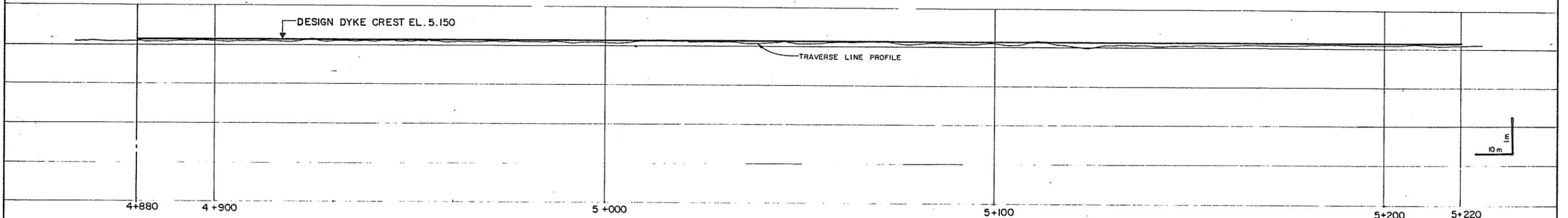
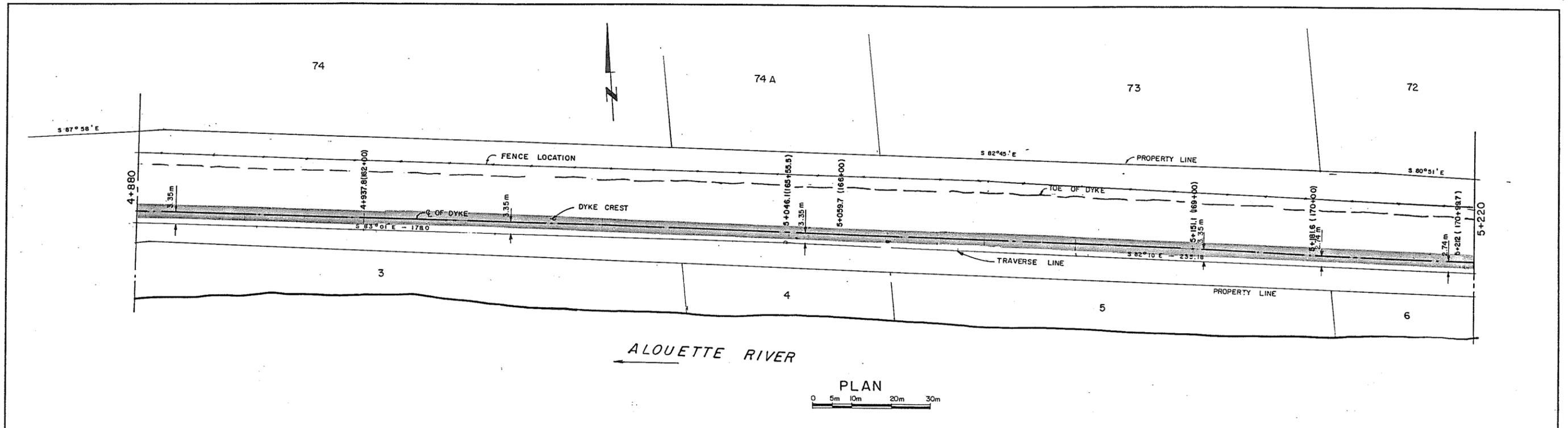
1969 & 1986

0281550-CH-14

DEC. 1986

4793-14-8

SHEET 8 OF 11 SHEETS



STA. 5+120.6 (168+00)
 STA. 4+815.8 (158+00) TO STA. 5+220 (171+26')

TYPICAL BANK PROTECTION SECTION BETW. APPROX.
 STA. 4+663 (153+00) AND 4+815.8 (158+00) FOR
 AREAS WITHOUT ROCK AND FILTER

280861
[Signature]
 28/12/86

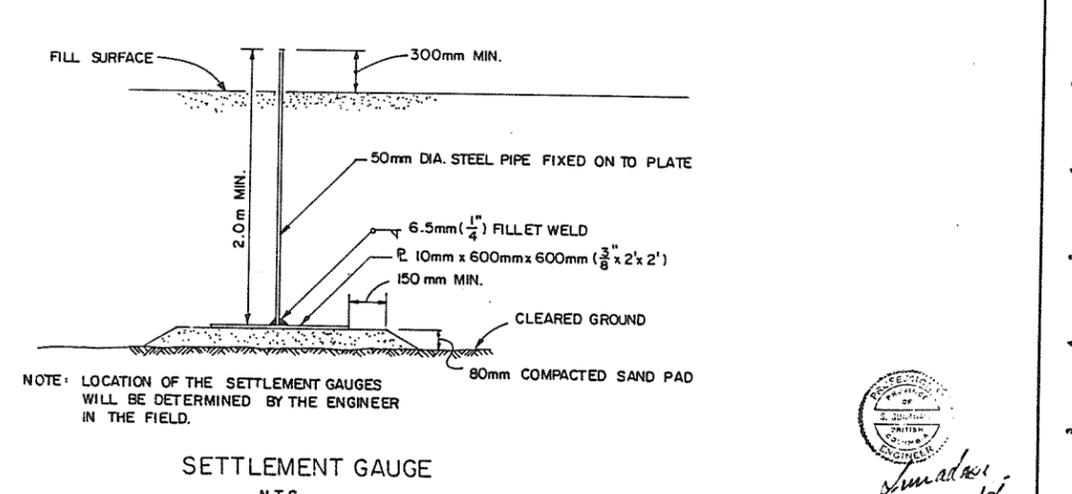
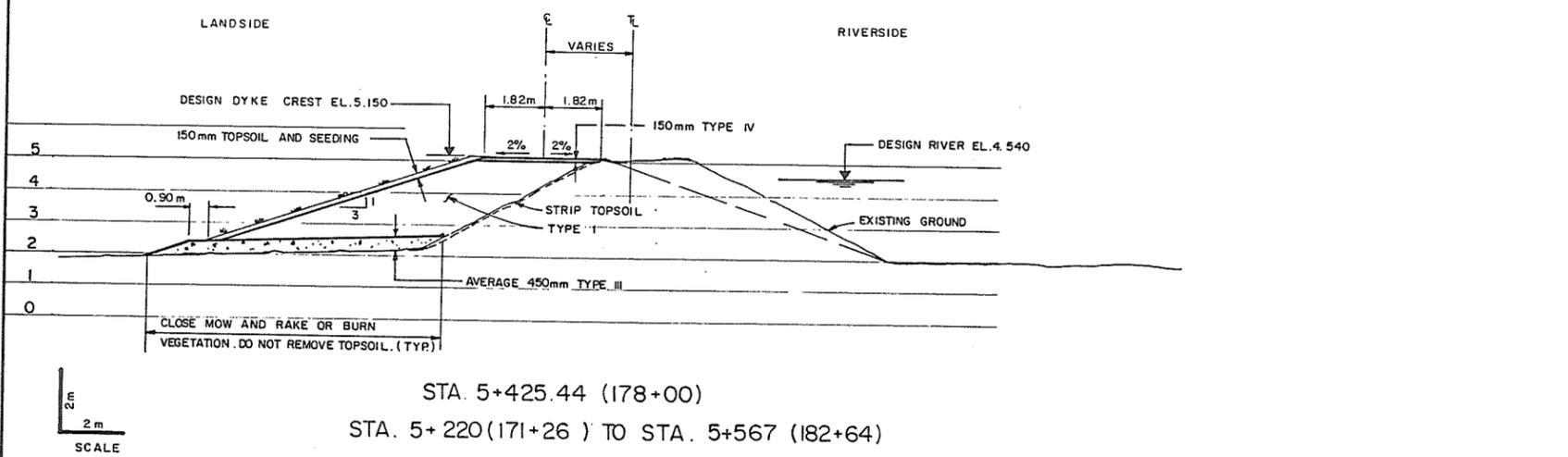
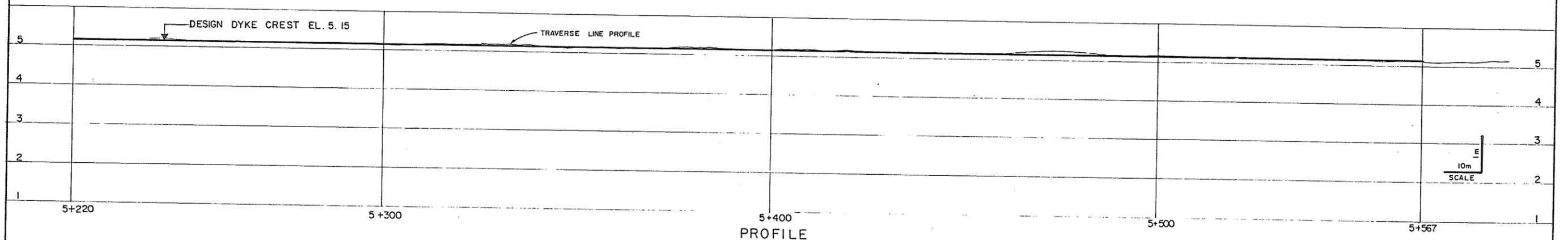
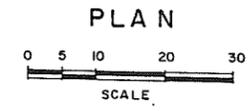
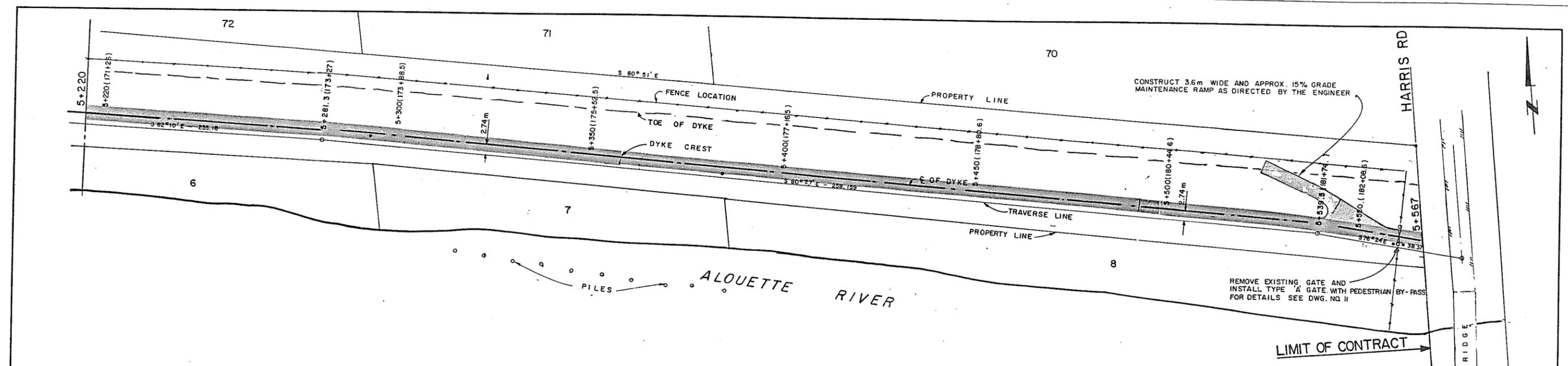
ASSOCIATED ENGINEERING **AE**
 DWG. NO. V43J-14-24-108

3	V.W.	AS CONSTRUCTED	24.1.87
2	V.W.	ISSUED FOR CONSTRUCTION	9.2.87
1	V.W.	ISSUED FOR TENDER	12.1.87
NO. BY		REVISIONS	DATE

RECOMMENDED *A. H. Connor*
 PROJECT MANAGER
 DATE *Dec. 12, 1986*
 APPROVED *[Signature]*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE *Dec. 15/86*

DESIGNED	S.G.	SURVEYED	A.E.
DRAWN	V.W.	DATE	1969 & 1986
CHECKED	[Signature]	FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-9	SHEET	9 OF 11 SHEETS

BRITISH COLUMBIA
 MINISTRY OF ENVIRONMENT
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14
 PLAN, PROFILE AND CROSS SECTION
 STA. 4+880 TO 5+220



ASSOCIATED ENGINEERING **AE**

DWG. NO. V43J-14-24-110

NO.	BY	REVISIONS	DATE
3	V.W.	AS CONSTRUCTED	28.11.87
2	V.W.	ISSUED FOR CONSTRUCTION	9.2.87
1	V.W.	ISSUED FOR TENDER	12.1.87

RECOMMENDED *R.A. Cameron*
PROJECT MANAGER
DATE *DEC. 12, 1986*

APPROVED *W. Fuller*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE *Dec 15/86*

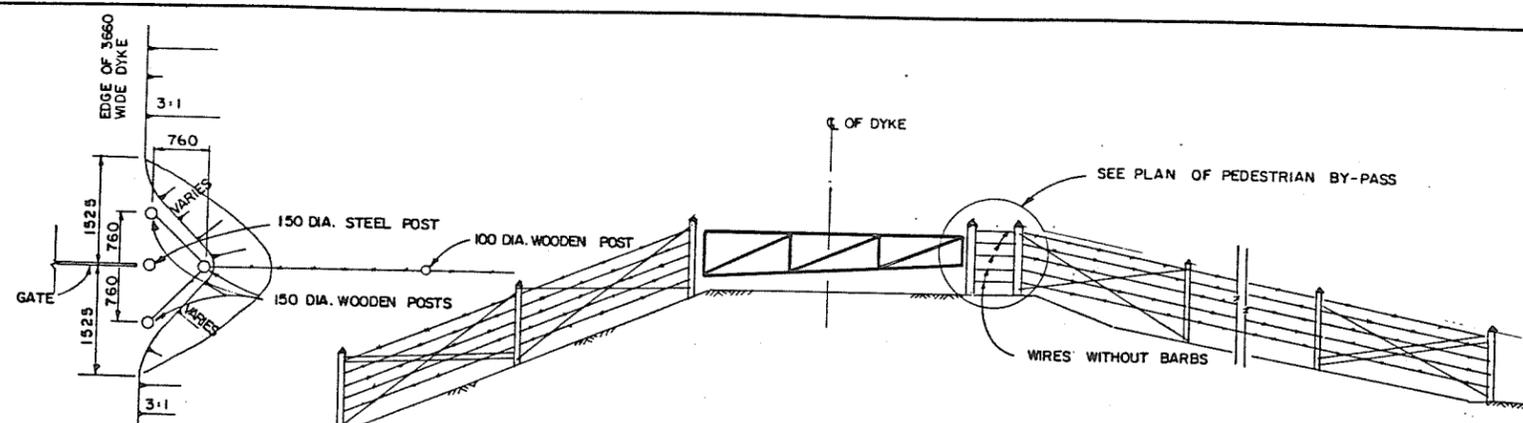
BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14
PLAN, PROFILE AND CROSS SECTION
STA. 5+220 TO 5+567

DESIGNED	S.G.	SURVEYED	A.E.
DRAWN	<i>V.W.</i>	DATE	1969 & 1986
CHECKED	<i>[initials]</i>	FILE NO.	0281550-C14-14
SCALE	AS SHOWN	DATE	DEC. 1986
DWG. NO.	4793-14-10	SHEET	10 OF 11 SHEETS

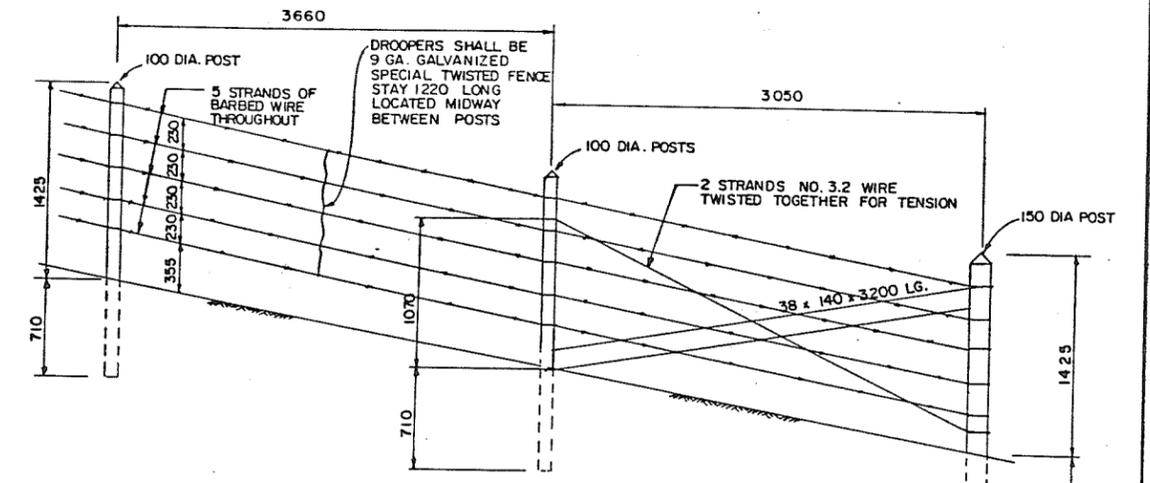
280862

Sumadrai
28 Dec 86

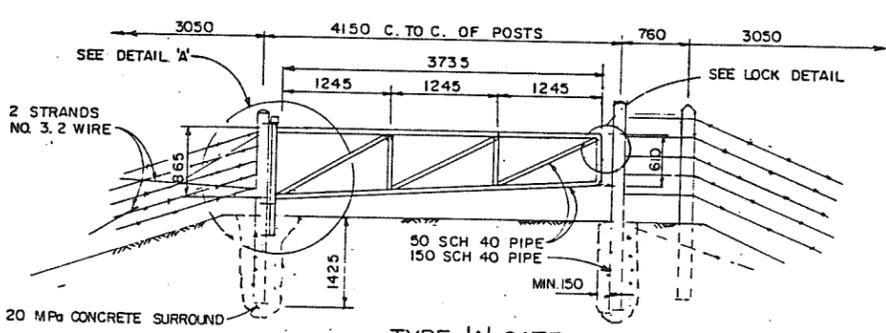


PLAN OF PEDESTRIAN BY-PASS
N.T.S.

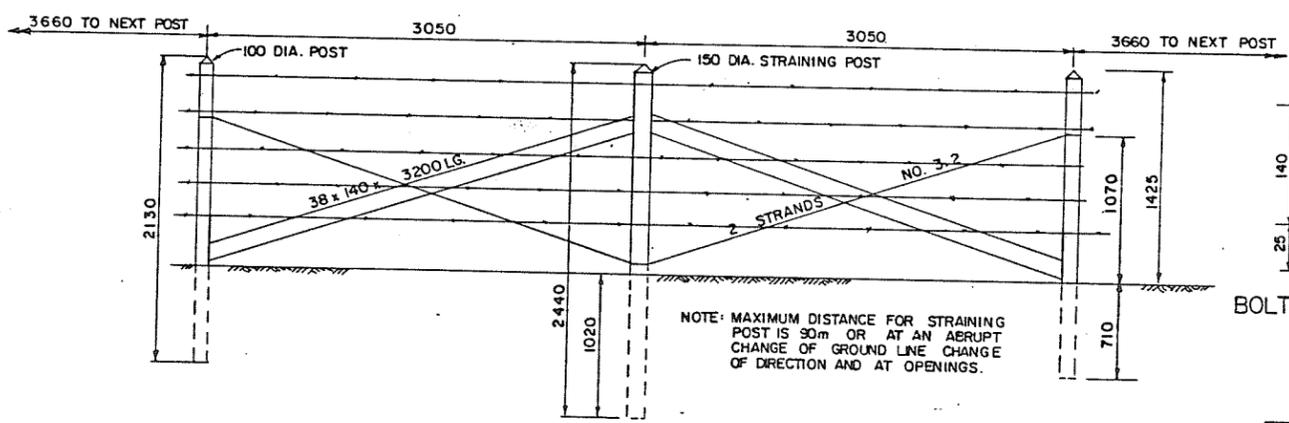
TYPICAL FENCE AND GATE WITH PEDESTRIAN BY-PASS ACROSS DYKE
N.T.S.



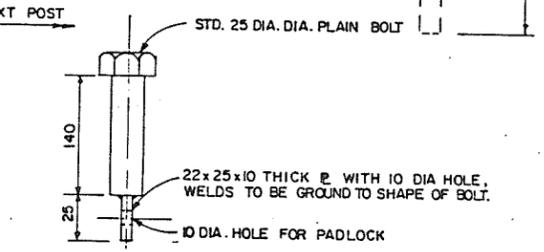
FENCE DETAIL AND END STRAINING POST
N.T.S.



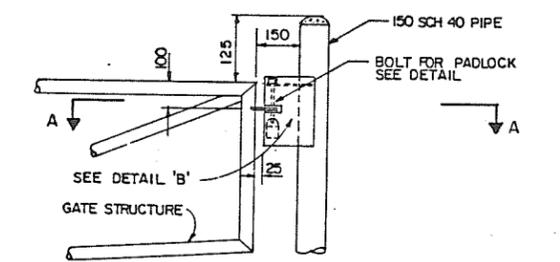
TYPE 'A' GATE
N.T.S.



TYPICAL FENCE DETAIL WITH INTERMEDIATE STRAINING POSTS
N.T.S.



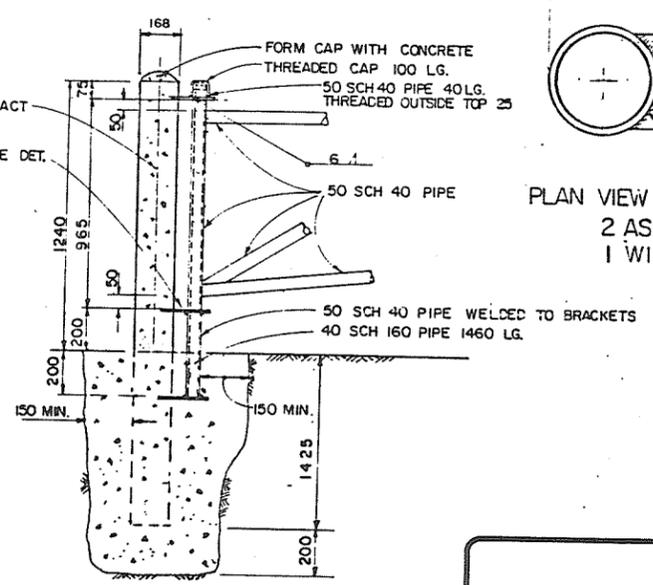
BOLT FOR PADLOCK
N.T.S.



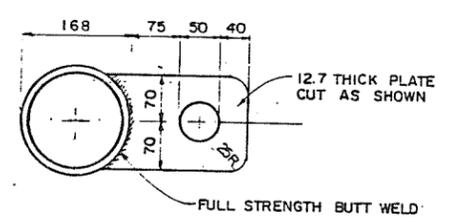
LOCKING DETAIL
N.T.S.

NOTE: ALTERNATIVE GATE PROPOSALS TO THE DIMENSIONS SHOWN MAY BE ACCEPTED. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

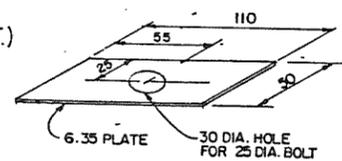
- NOTES:
1. ALL JOINTS TO BE FULL STRENGTH WELDED.
 2. WHOLE ASSEMBLY TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
 3. ALL HARDWARE TO BE GALVANIZED.
 4. STEEL PIPE DIAMETERS AS SHOWN ARE I.D.
 5. METAL POSTS FOR GATE ARE 2665 LG. AND TO BE INFILLED WITH CONC. AFTER INSTALLATION.
 6. WOODEN POSTS TO BE PRESSURE TREATED AS SPECIFIED.
 7. PADLOCKS WILL BE SUPPLIED BY THE CORPORATION OF THE DISTRICT OF PITT MEADOWS.



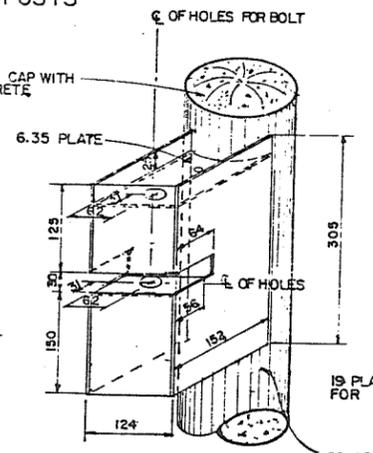
DETAIL 'A'
N.T.S.



PLAN VIEW OF HINGE BRACKET (3 REQ'D)
2 AS SHOWN
1 WITHOUT HOLE (BOT.)
N.T.S.



DETAIL 'B'
N.T.S.



SECTION A-A
N.T.S.

NOTE: ALL DIMENSIONS ARE IN MM, EXCEPT WHERE SHOWN OTHERWISE.

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-13-24-102

3	V.W.	AS CONSTRUCTED	25.11.87
2	V.W.	ISSUED FOR CONSTRUCTION	22.07
1	V.W.	ISSUED FOR TENDER	12.1.87
NO.	BY	REVISIONS	DATE

RECOMMENDED *R.A. Cameron*
PROJECT MANAGER
DATE *DEC. 12 1986*

APPROVED *W.L. Fuller*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE *Dec. 15/86*

BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 14		DESIGNED <i>V.W.</i>	SURVEYED <i>N.A.</i>
FENCING AND GATE DETAILS		DRAWN <i>V.W.</i>	DATE <i>N.A.</i>
DWG. NO. 4793-14-11		CHECKED <i>V.W.</i>	FILE NO. 0281550-C14-14
SHEET 11 OF 11 SHEETS		SCALE AS SHOWN	DATE NOV. 1986

280863

CONTRACT NO. 15

**CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO.2 DISTRICT OF PITT MEADOWS
PITT MEADOWS NO.2 AREA**

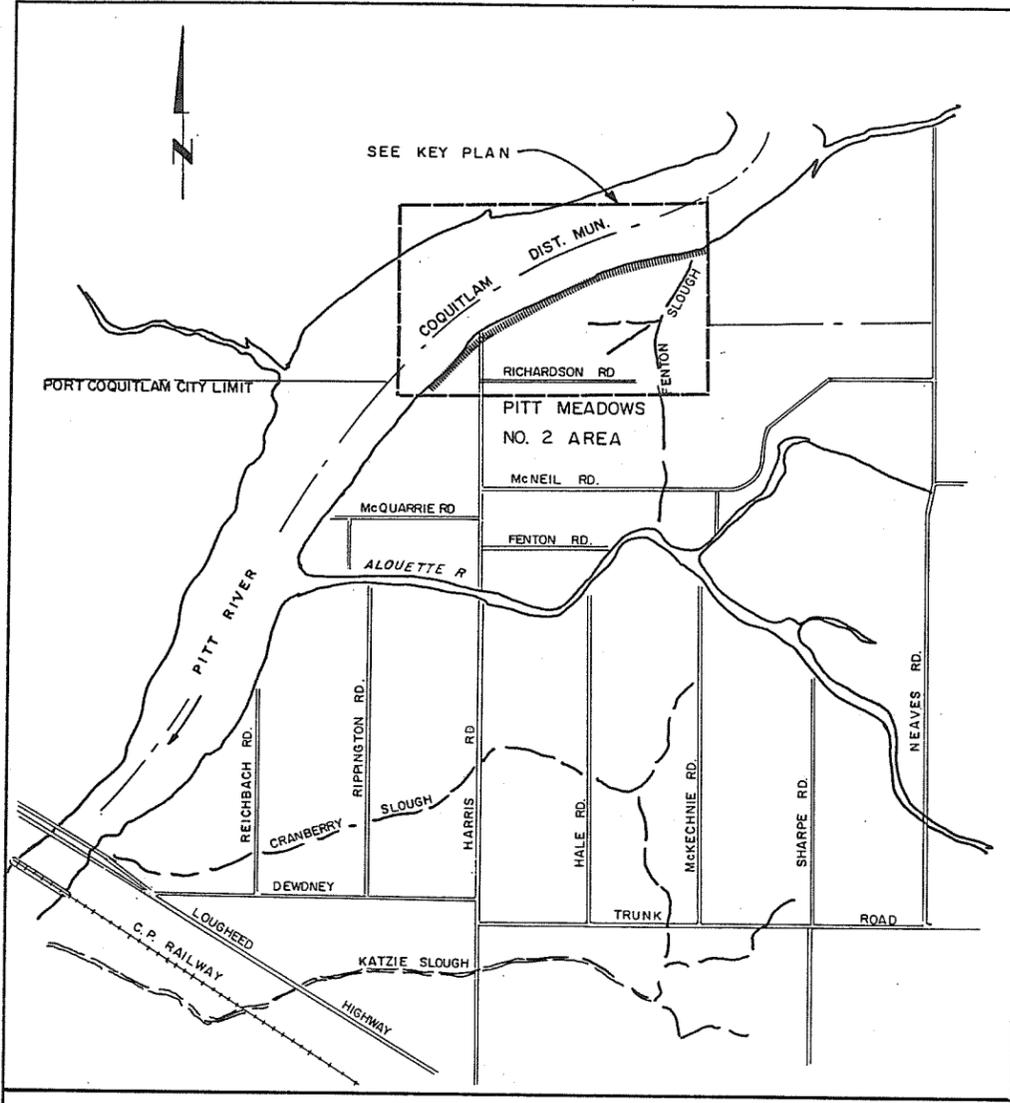
CONTRACT NO.15

DYKE RECONSTRUCTION

BETWEEN SHERIDAN HILL AND RICHARDSON ROAD

**ASSOCIATED
ENGINEERING**

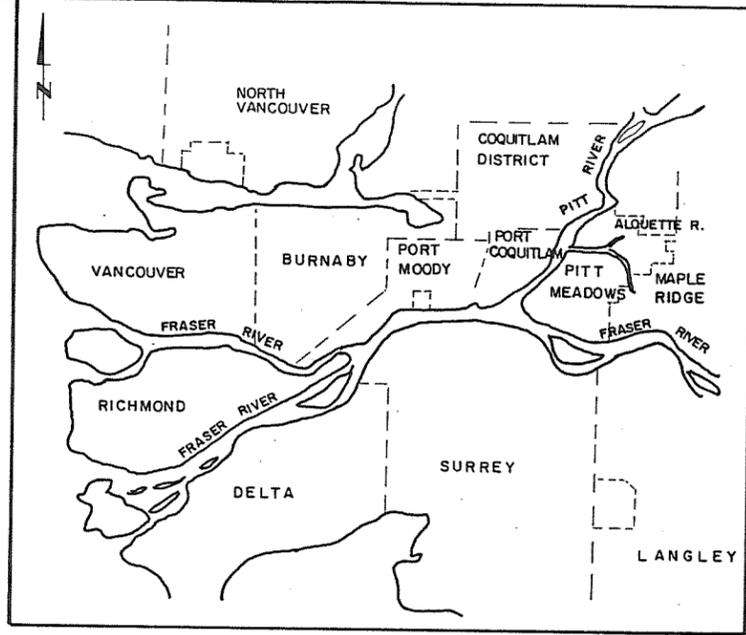




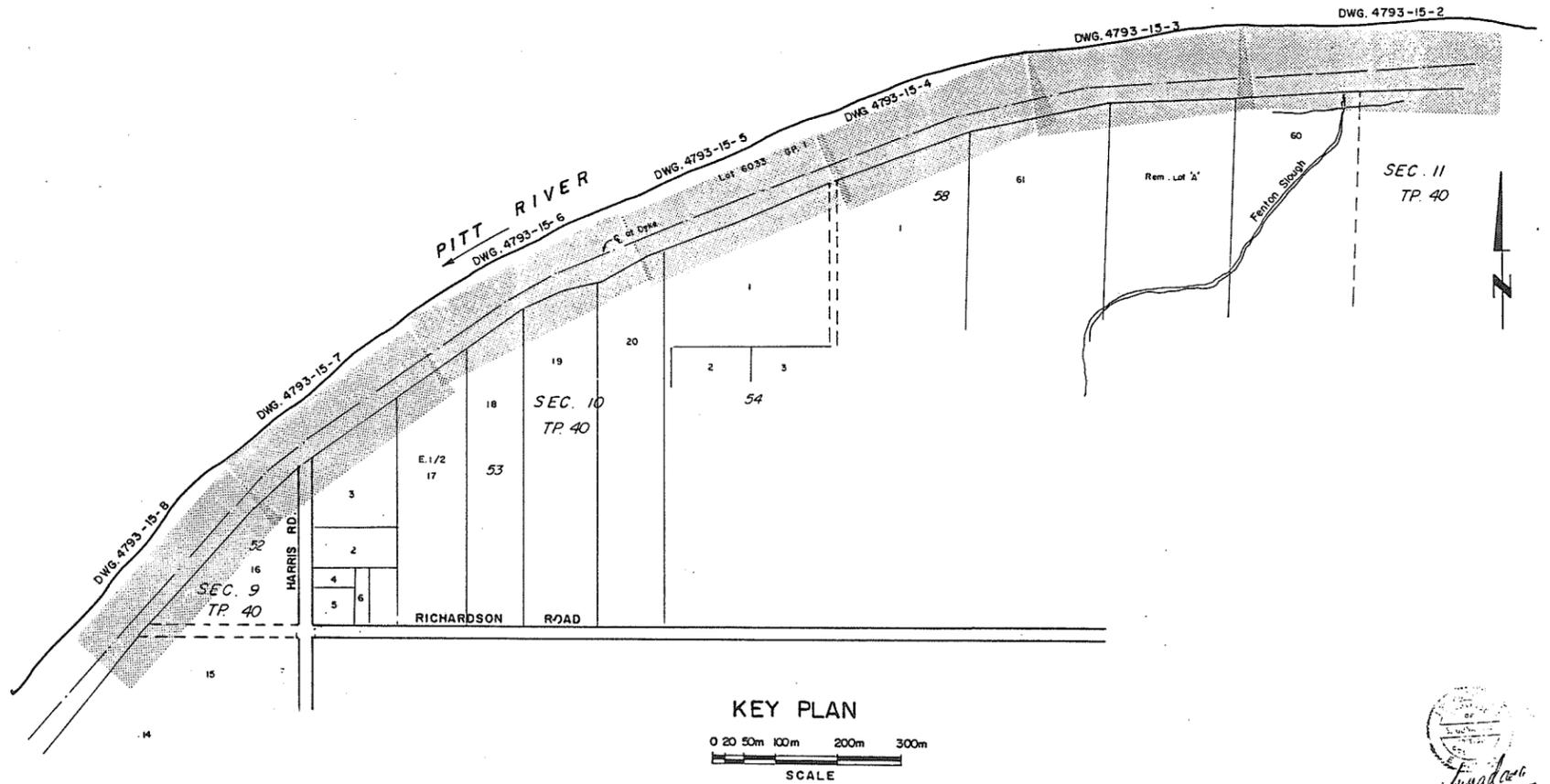
SITE ACCESS PLAN
 0 0.25km 0.5km 1.0km 2.0km
 SCALE

GENERAL NOTES

1. ELEVATIONS ARE TO GEODETIC DATUM IN METRES
2. GENERAL DYKE CONSTRUCTION IS INDICATED ON THE TYPICAL CROSS-SECTIONS. THE ACTUAL DYKE SECTION AT ANY STATION IS SHOWN ON A SEPARATE SET OF CROSS-SECTIONS. AVAILABLE FOR INSPECTION BY TENDERERS AND WILL BE SUPPLIED TO THE CONTRACTOR FOR INFORMATION ONLY (NOTE 4)
3. ALL GATE AND RAMP LOCATIONS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. OFFSETS SHOWN FROM TRAVERSE LINE (T_L) TO DESIGN C_L OF DYKE ARE APPROXIMATE ONLY. FINAL OFFSETS WILL BE VERIFIED PRIOR TO CONSTRUCTION.
5. ALL CHAINAGES ARE IN METRIC. EQUAL CHAINAGES IN FEET ARE SHOWN IN BRACKETS.
6. TOP OF ACCESS RAMPS TO BE COVERED WITH 300mm THICK TYPE IV SURFACE GRAVEL ON TOP OF TYPE I FILL OR EXISTING SURFACE.
7. REMOVE EXISTING FENCE AND ERECT NEW FENCE AS DIRECTED BY THE ENGINEER, 2.5m TO 3.0m DISTANCE OUTSIDE TOE OF DYKE. FOR FENCE DETAIL SEE DWG. NO. 9



LOCATION PLAN
 0 1km 2.5km 5km 10km
 SCALE



KEY PLAN
 0 20 50m 100m 200m 300m
 SCALE

ASSOCIATED ENGINEERING **AE**
 DWG. NO. V 43 J-15-24-101

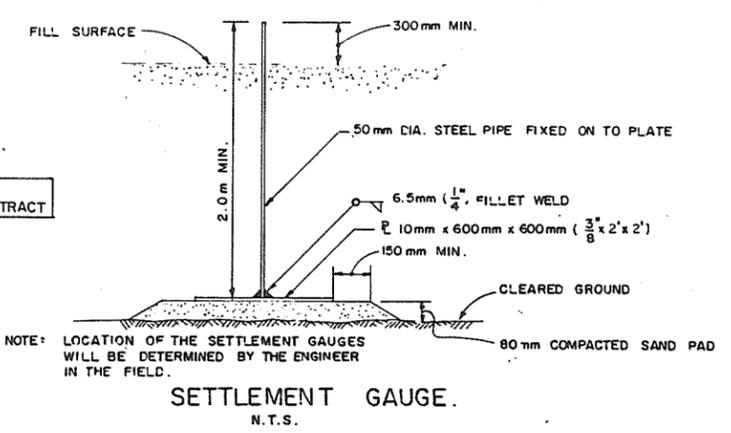
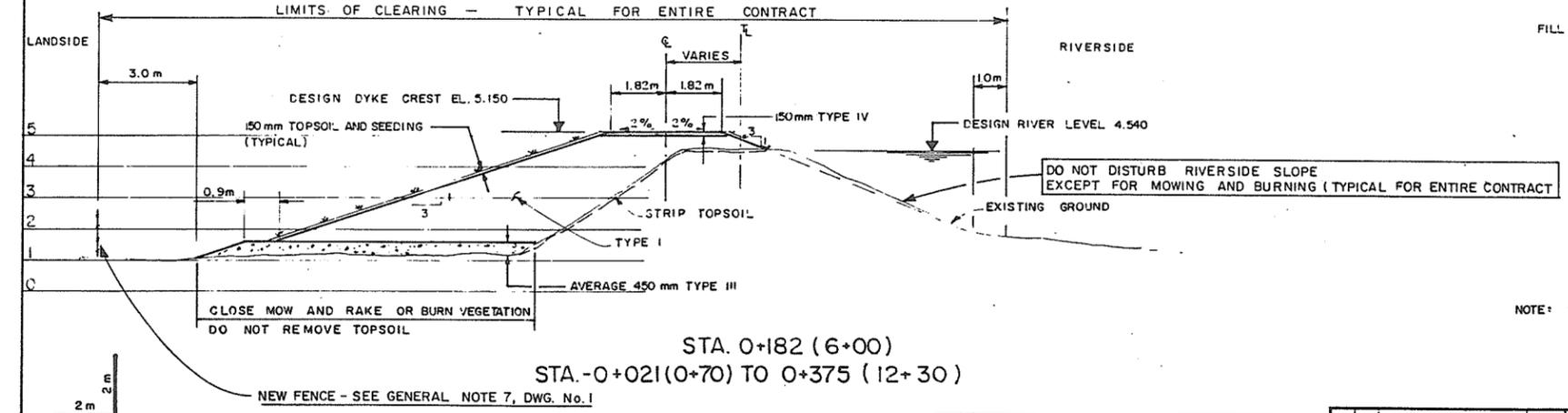
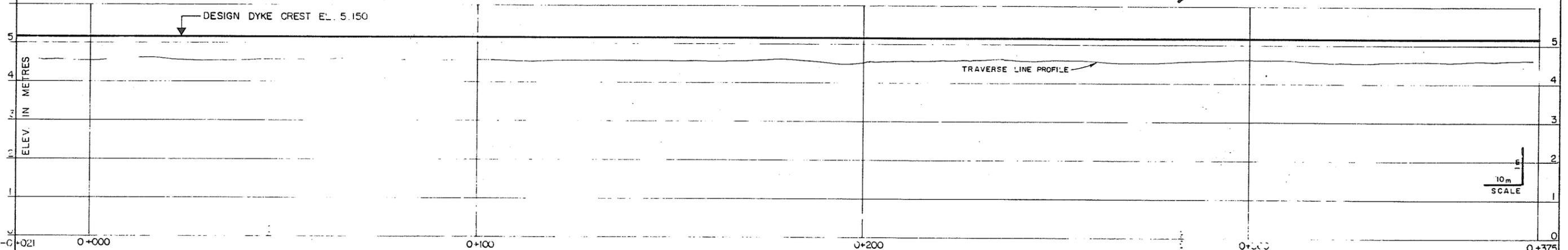
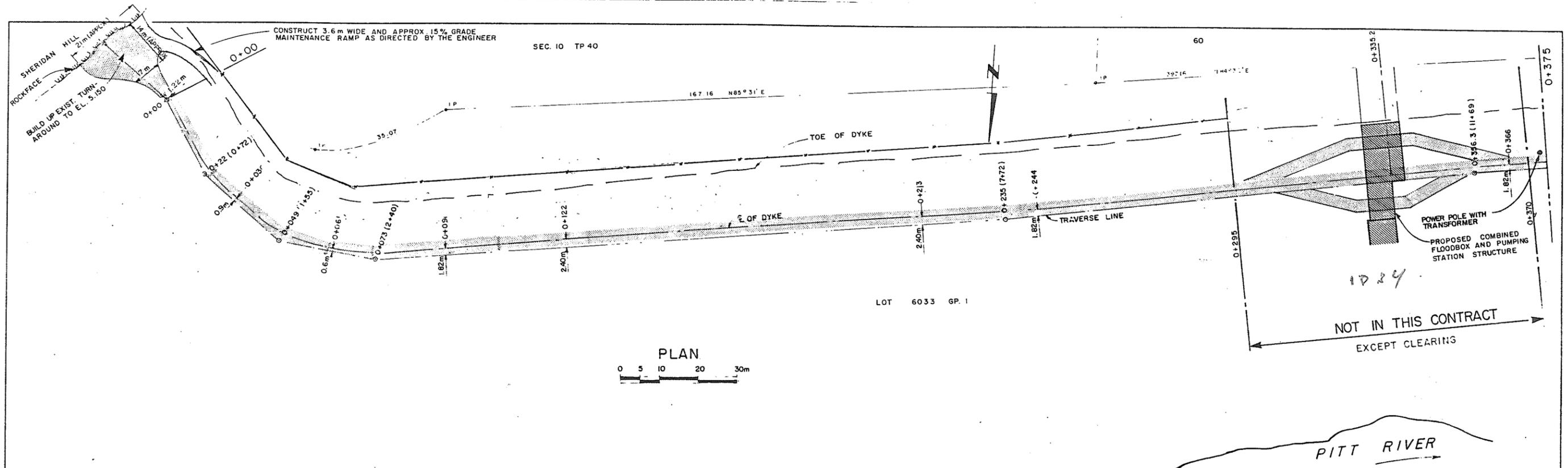
2	V.W.	AS CONSTRUCTED	JAN 88
1	V.W.	ISSUED FOR TENDER	25.1.88
RECOMMENDED		DATE: January 19, 1988	
APPROVED		DATE: 24/1/88	
NO. BY		REVISIONS	

BRITISH COLUMBIA
 MINISTRY OF ENVIRONMENT
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15
KEY PLAN

280864

DESIGNED	S.G.	SURVEYED	N.A.
DRAWN	V.W.	DATE	N.A.
CHECKED	A.	FILE NO.	0281550-C4-15
SCALE	AS SHOWN	DATE	JAN. 1988
DWG. NO.	4793-15-1	SHEET	1 OF 9 SHEETS

Jan 18/88



280865
John 19/88

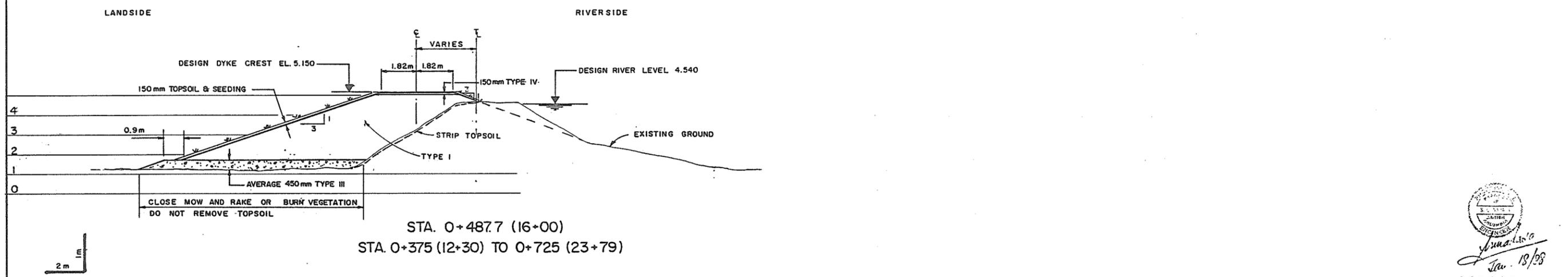
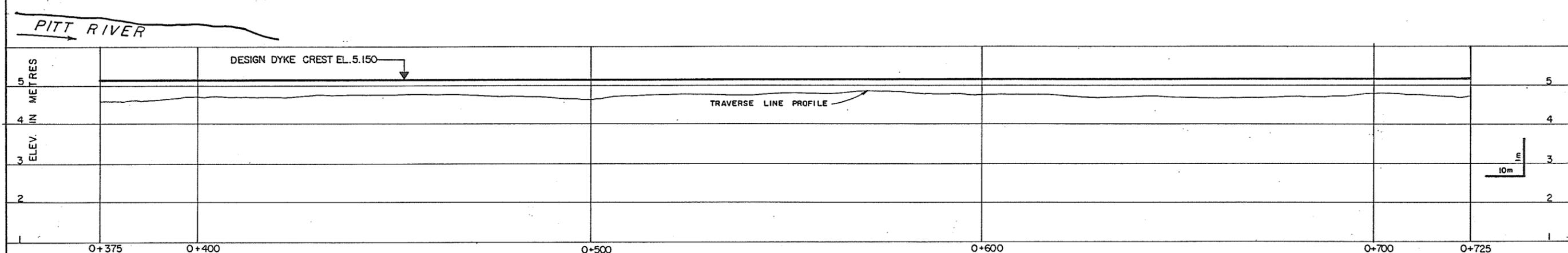
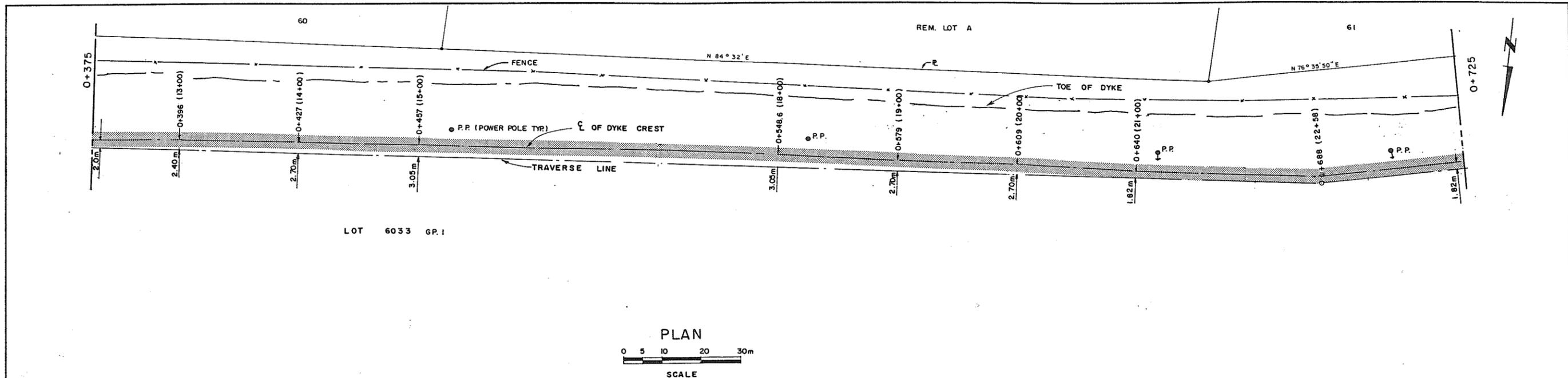
ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V 43J-15-24-102

RECOMMENDED	<i>H. J. Cameron</i>
DATE	<i>January 19 1988</i>
2 V.W. AS CONSTRUCTED	JAN 88
1 V.W. ISSUED FOR TENDER	21.1.88
APPROVED	<i>[Signature]</i>
DATE	<i>[Date]</i>

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15
PLAN, PROFILE AND CROSS SECTION
 STA. -0+021 TO 0+375

DESIGNED	S.G.	SURVEYED	AE (B.C.) LTD.
DRAWN	V.W.	DATE	1969 AND 1986
CHECKED	[Signature]	FILE NO.	0281550-C14-15
SCALE	AS SHOWN	DATE	JAN. 1988
PROJECT NO.	4793-15-2	SHEET	2 OF 9 SHEETS



280866

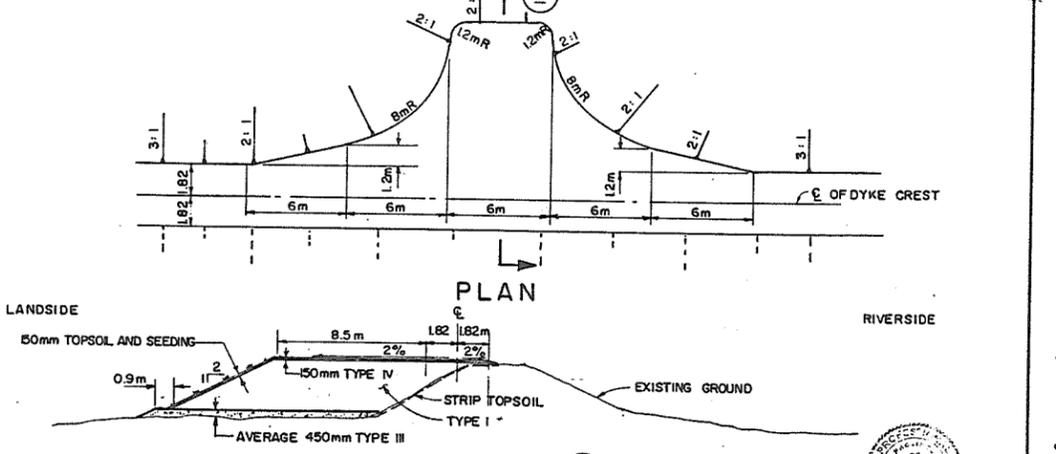
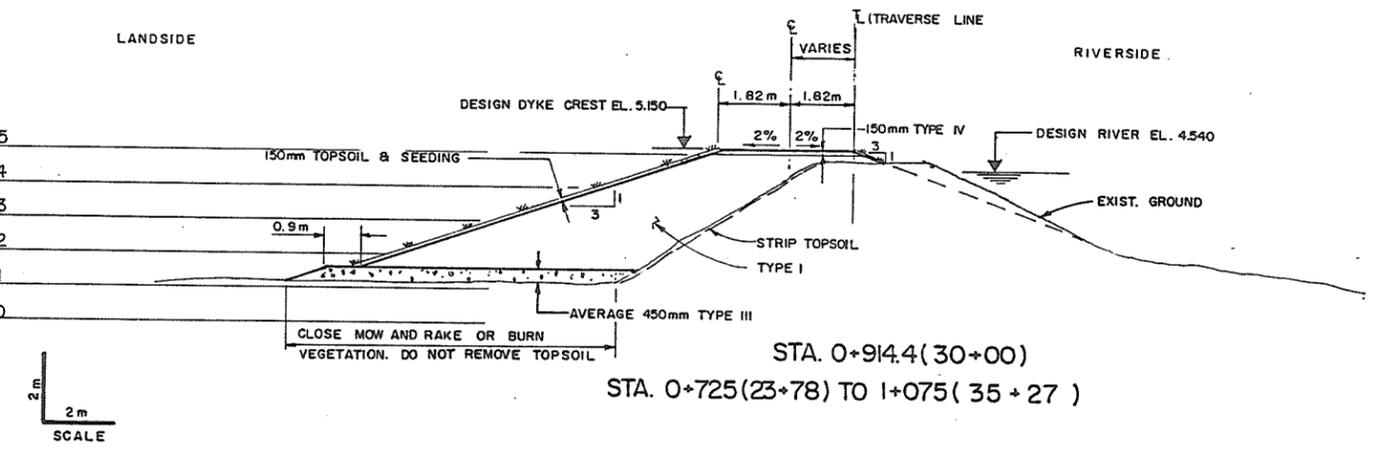
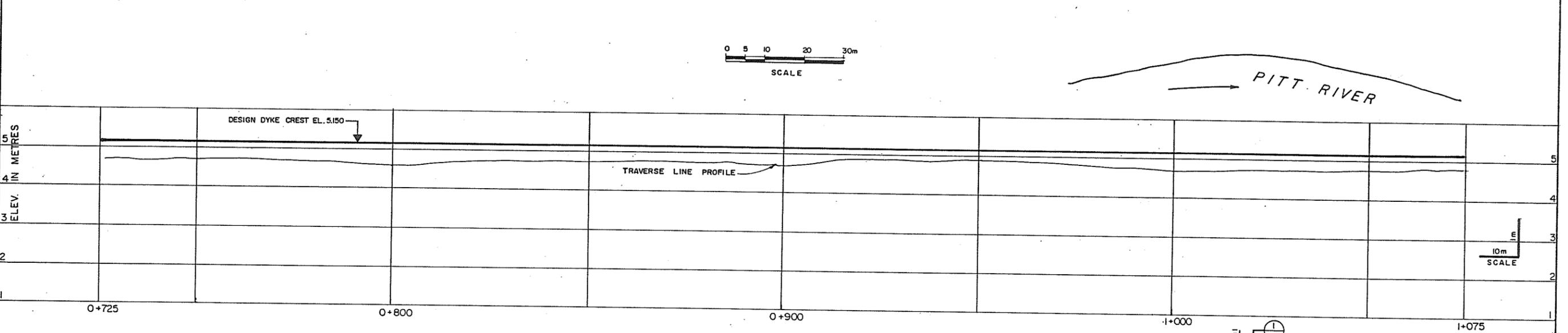
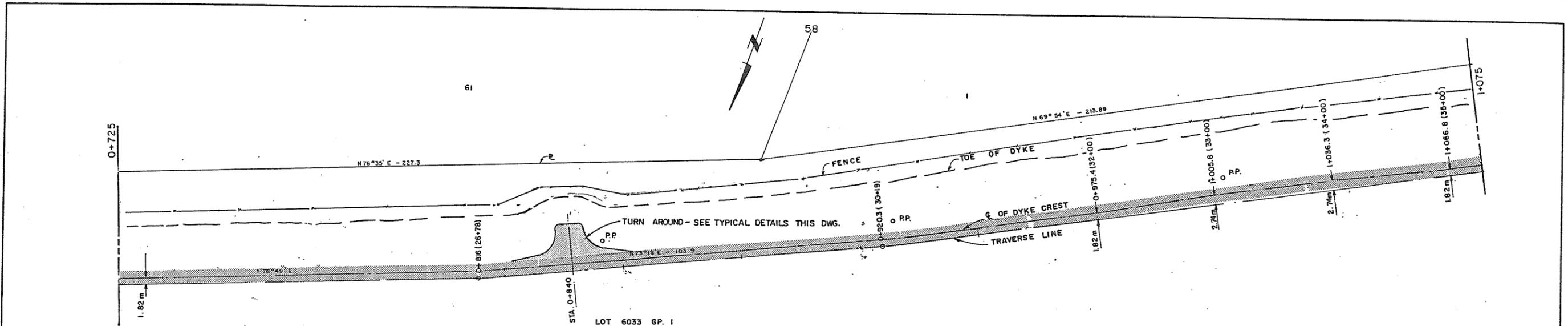
Jan 18/88

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-15-24-103

2	V.W.	AS CONSTRUCTED	JAN 88
1	V.W.	ISSUED FOR TENDER	25.1.88
NO.	BY	REVISIONS	DATE

RECOMMENDED <i>R. H. Cameron</i> PROJECT MANAGER	DATE <i>Jan 19 1988</i>	APPROVED <i>[Signature]</i> DIRECTOR, WATER MANAGEMENT BRANCH	DATE <i>Jan 13/88</i>
BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15		DESIGNED S.G.	SURVEYED A.E.(B.C.) LTD.
DRAWN V.W.		DATE 1969 AND 1986	FILE NO. 0281550-C14-15
CHECKED		SCALE AS SHOWN	DATE JAN. 1988
DWG. NO. 4793-15-3		SHEET 3 OF 9 SHEETS	



SECTION TYPICAL TURN AROUND N.T.S. 280867

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-15-24-104

2	V.W.	AS CONSTRUCTED	30.1.89
1	V.W.	ISSUED FOR TENDER	25.1.88
NO.	BY	REVISIONS	DATE

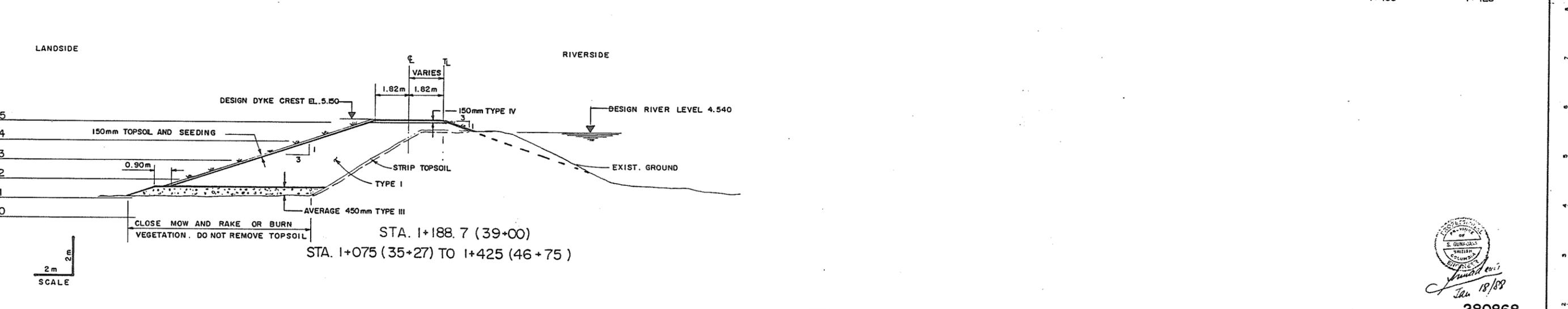
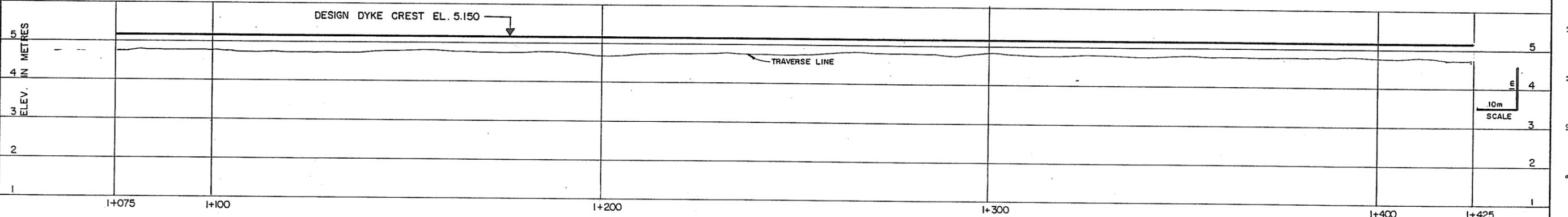
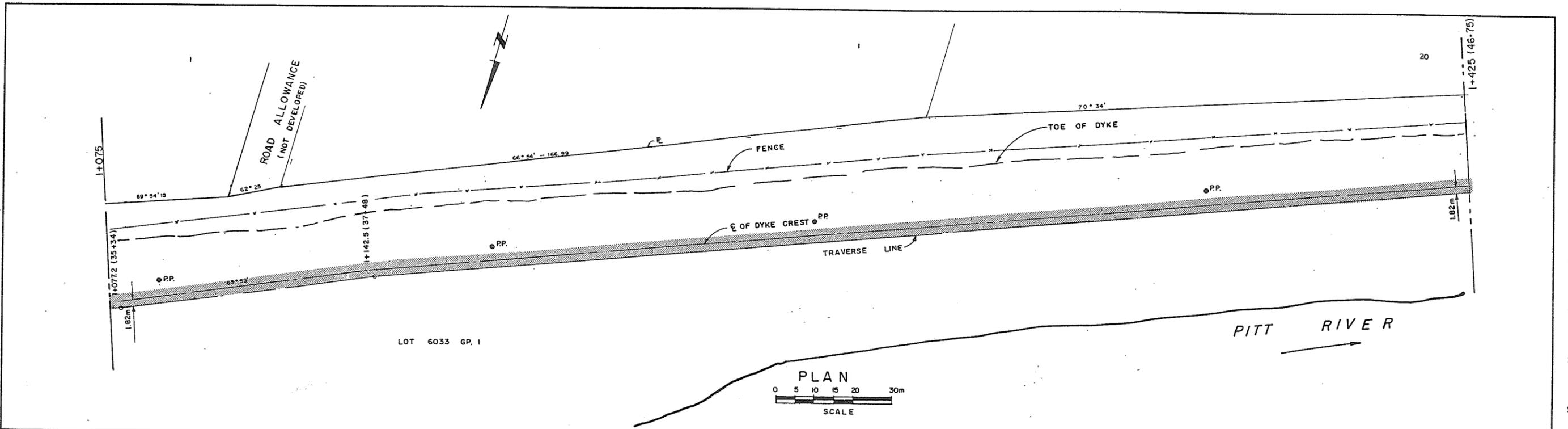
RECOMMENDED *R. H. Cameron*
PROJECT MANAGER
DATE *January 19, 1988*

APPROVED *[Signature]*
DIRECTOR, WATER MANAGEMENT BRANCH
DATE *Jan 1988*

BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15
PLAN, PROFILE AND CROSS SECTION
STA. 0+725 TO 1+075

DESIGNED	S.G.	SURVEYED	AE (BC) LTD.
DRAWN	V.W.	DATE	1969 AND 1986
CHECKED	[Signature]	FILE NO.	0281550-C4-15
SCALE	AS SHOWN	DATE	JAN. 1988
DWG. NO.	4793-15-4	SHEET	4 OF 9 SHEETS






 S. G.
 18/88

280868


 ASSOCIATED ENGINEERING
 DWG. NO. V43J-15-24-105

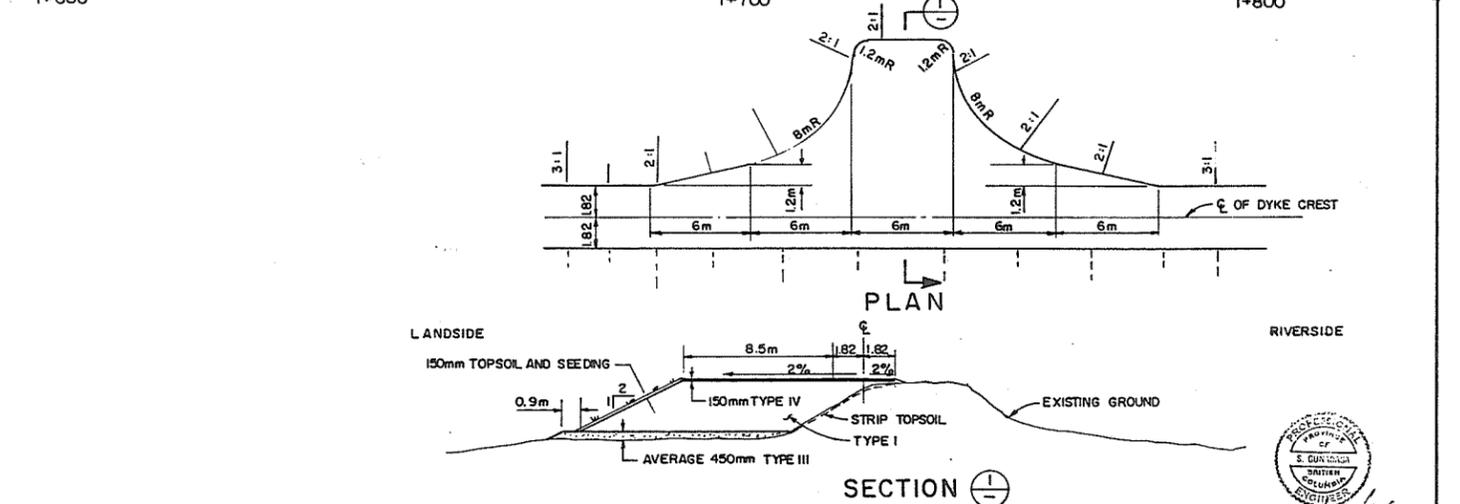
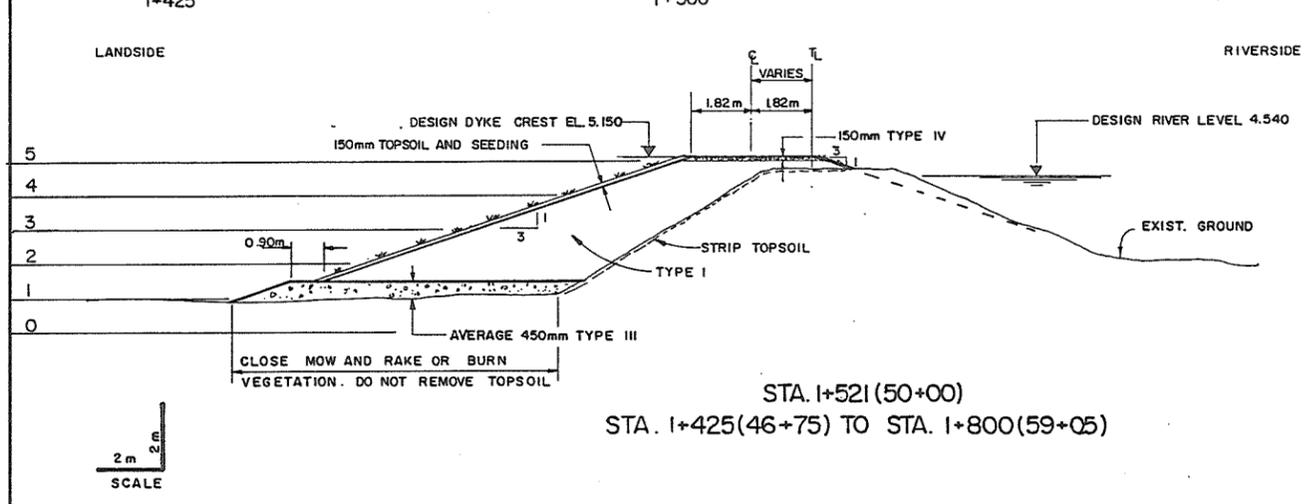
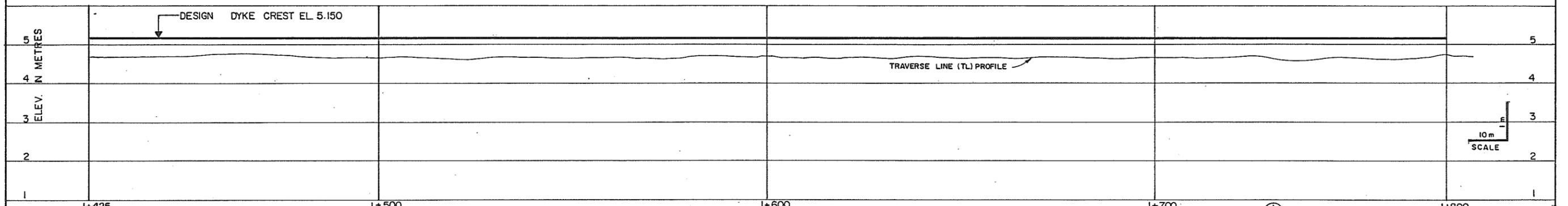
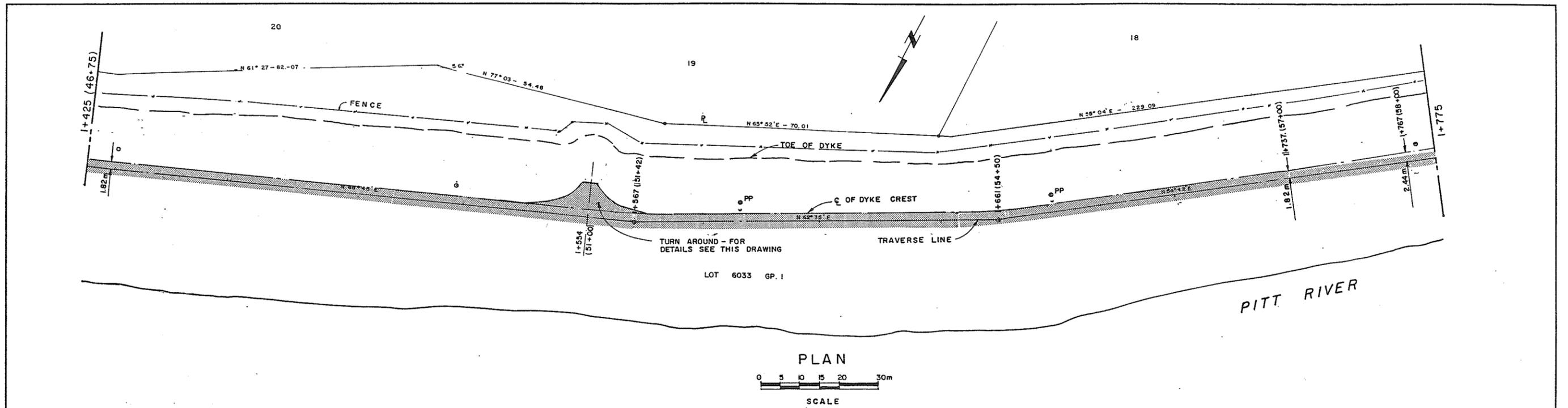
2	V.W.	AS CONSTRUCTED	30.1.88
1	V.W.	ISSUED FOR TENDER	25.1.88
NO.	BY	REVISIONS	DATE

RECOMMENDED *R. H. Cameron*
 PROJECT MANAGER
 DATE *January 19, 1988*
 APPROVED *[Signature]*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE *Jan 19, 1988*

BRITISH COLUMBIA
 MINISTRY OF ENVIRONMENT
 WATER MANAGEMENT BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15
PLAN, PROFILE AND CROSS SECTION
 STA. 1+075 TO 1+425

DESIGNED <i>S. G.</i>	SURVEYED <i>A.E.(B.C.) LTD.</i>
DRAWN <i>V.W.</i>	DATE 1969 AND 1986
CHECKED <i>[Signature]</i>	FILE NO. 0281550-C14-15
SCALE AS SHOWN	DATE JAN 1988
DWG. NO. 4793-15-5	SHEET 5 OF 9 SHEETS

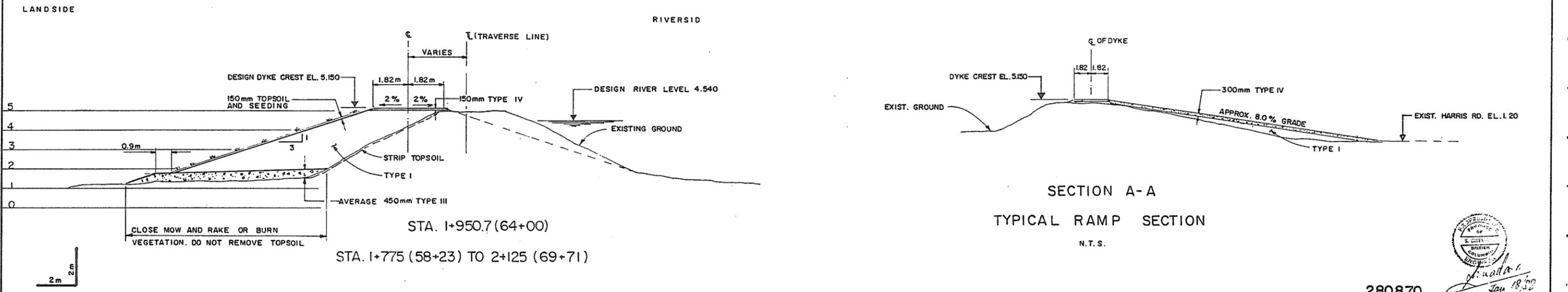
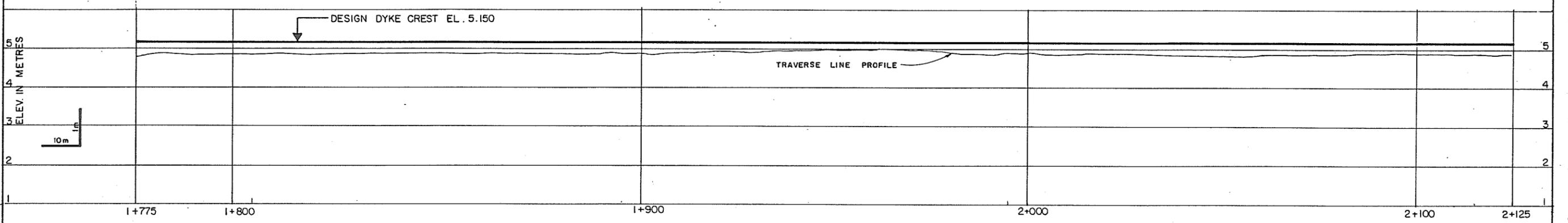
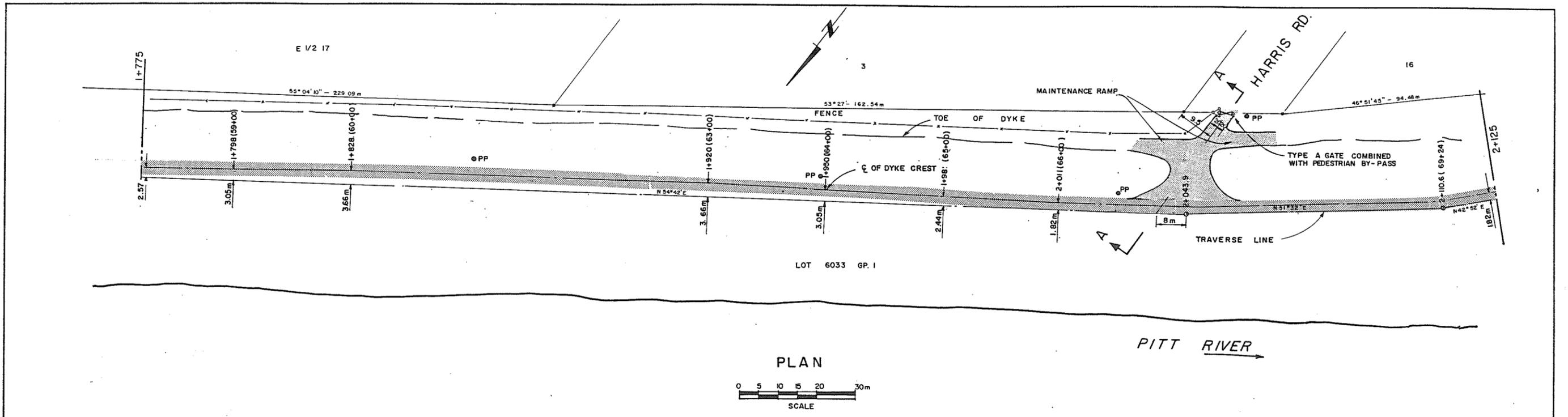
11/10/88



ASSOCIATED ENGINEERING **AE**
 DWG. NO. V43J-15-24-106

2	V.W.	AS CONSTRUCTED	30.1.88	RECOMMENDED	R. H. Cameron PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED	S. G.	SURVEYED	A.E.(B.C.) LTD.
1	V.W.	ISSUED FOR TENDER	25.1.88	DATE	January 19, 1988	PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15	DRAWN	V. W.	DATE	19 69 AND 1986
				APPROVED	[Signature]	PLAN, PROFILE AND CROSS SECTION STA. 1+425 TO 1+775	CHECKED	[Signature]	FILE NO.	0281550-C1415
				DATE	Jan 17/88		SCALE	AS SHOWN	DATE	JAN. 1988
							DWG. NO.	4793-15-6	SHEET	6 OF 9 SHEETS

280869
 Jan 18/88



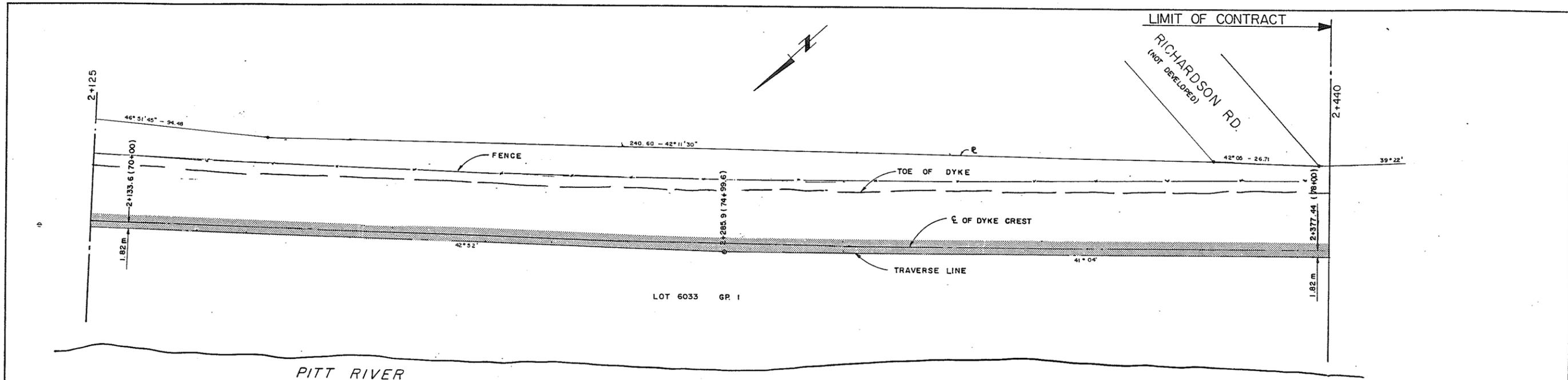
ASSOCIATED ENGINEERING **AE**
 DWG. NO. V43J-15-24-107

2	V.W.	AS CONSTRUCTED	31.1.88
1	V.W.	ISSUED FOR TENDER	25.1.88
NO. BY		REVISIONS	DATE

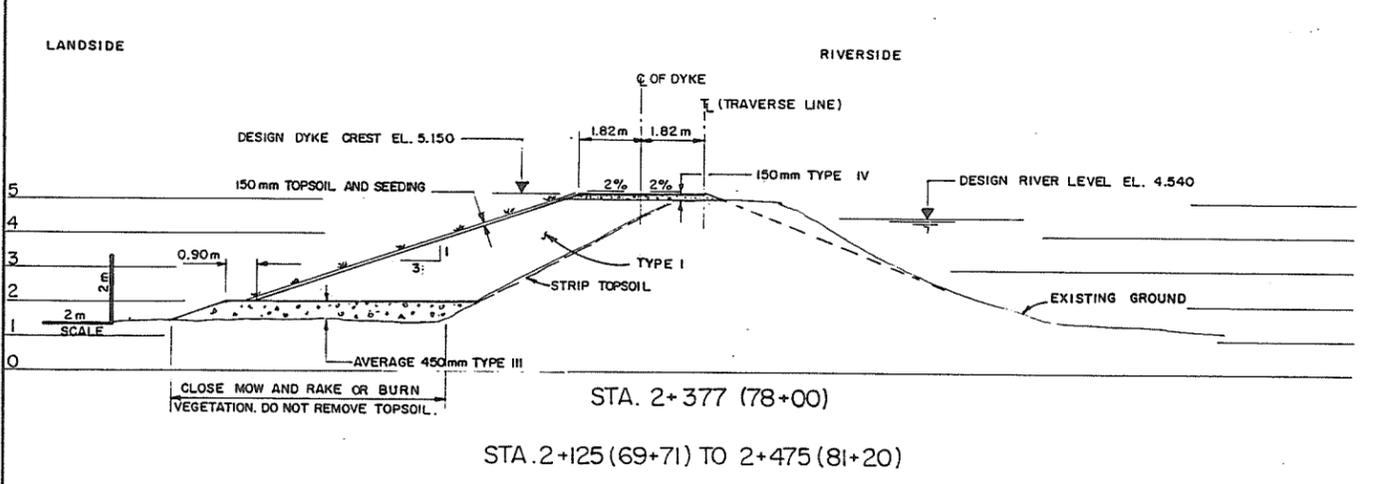
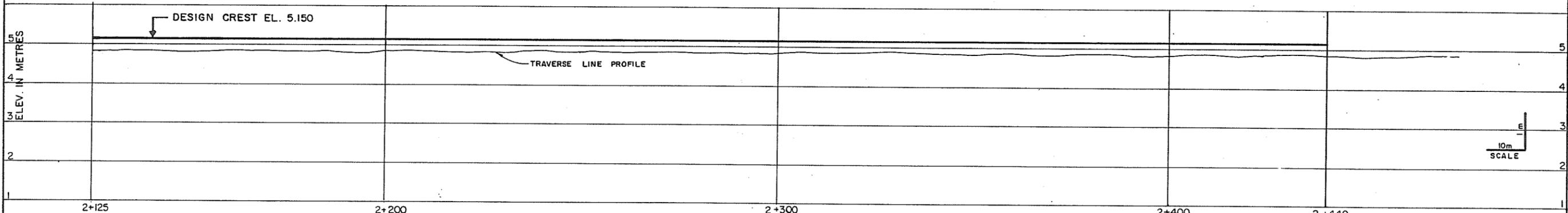
RECOMMENDED *S. G.*
 PROJECT MANAGER
 DATE *January 19, 1988*
 APPROVED *[Signature]*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE *Jan 19 1988*

DESIGNED	S. G.	SURVEYED	A.E.(B.C.) LTD.
DRAWN	V.W.	DATE	1969 AND 1986
CHECKED	[Signature]	FILE NO.	0281550-CM-15
SCALE	AS SHOWN	DATE	JAN. 1988
DWG. NO.	4793-15-7	SHEET	7 OF 9 SHEETS





PLAN
 0 5 10 15 20 30m
 SCALE



STA. 2+125 (69+71) TO 2+475 (81+20)

ASSOCIATED ENGINEERING **AE**
 AE DWG. NO. V43J-15-24-108

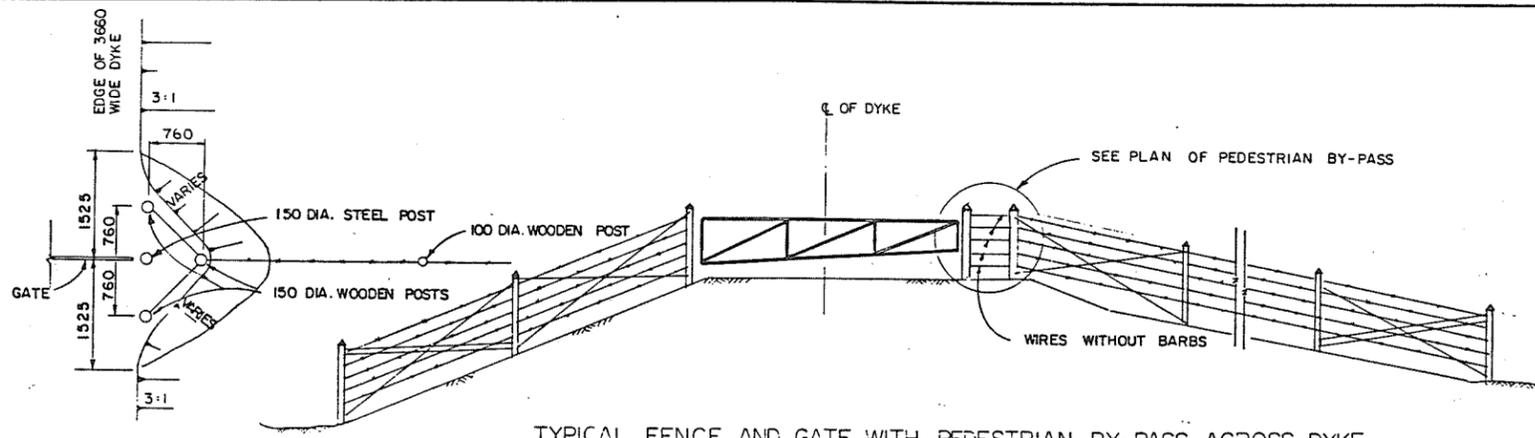
2	V.W.	AS CONSTRUCTED	51.1.89
1	V.W.	ISSUED FOR TENDER	21.1.88
NO.	BY	REVISIONS	DATE

RECOMMENDED *P. H. Cameron*
 PROJECT MANAGER
 DATE ... January 19, 1988
 APPROVED *[Signature]*
 DIRECTOR, WATER MANAGEMENT BRANCH
 DATE ... 26/1/88

DESIGNED	S. G.	SURVEYED	A.E.(B.C.) LTD.
DRAWN	V.W.	DATE	1969 AND 1986
CHECKED	[Signature]	FILE NO.	0281550-C14-15
SCALE	AS SHOWN	DATE	JAN. 1988
DWG. NO.	4793-15-8	SHEET	8 OF 9 SHEETS

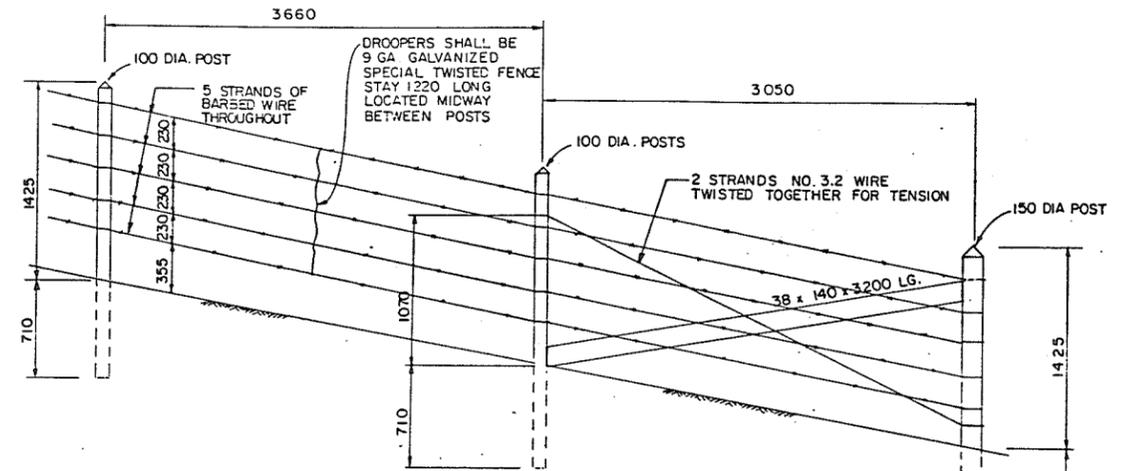
[Signature]
 Jan 8/88

280871

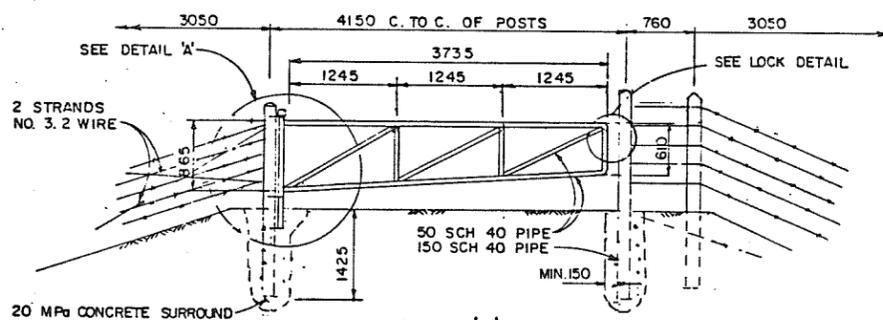


PLAN OF PEDESTRIAN BY-PASS
N.T.S.

TYPICAL FENCE AND GATE WITH PEDESTRIAN BY-PASS ACROSS DYKE
N.T.S.



FENCE DETAIL AND END STRAINING POST
N.T.S.

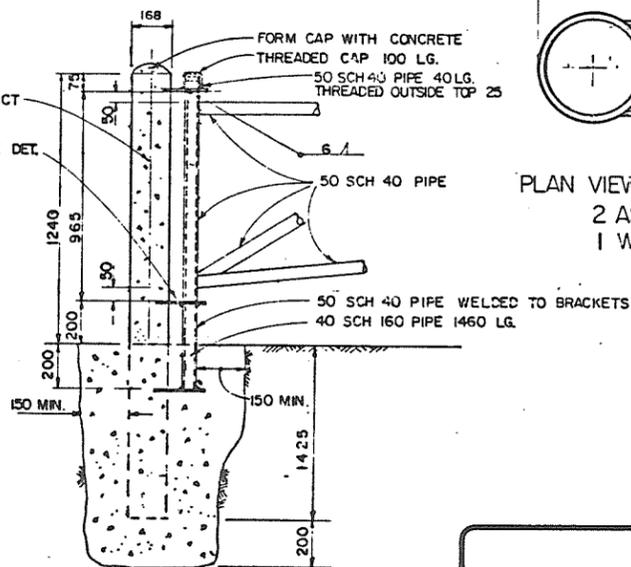


TYPE 'A' GATE
N.T.S.

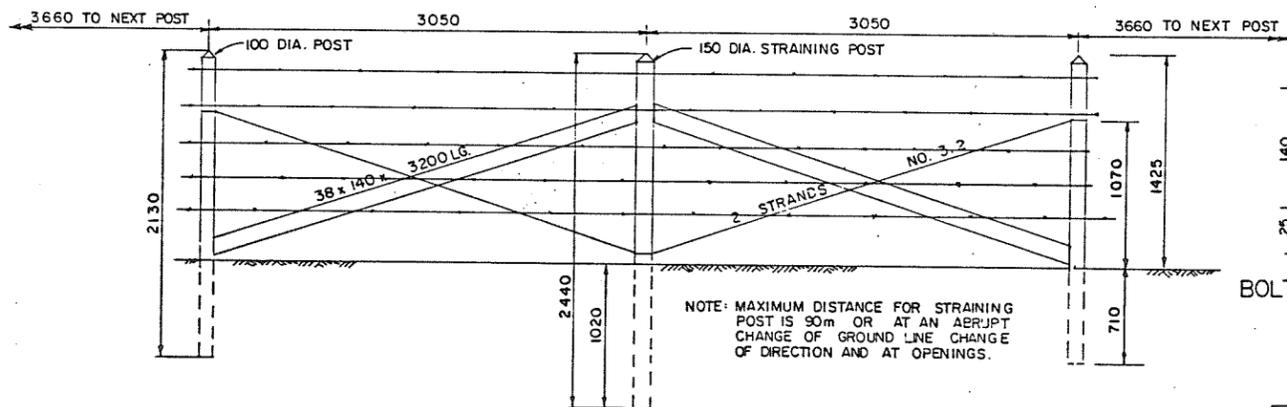
NOTE: ALTERNATIVE GATE PROPOSALS TO THE DIMENSIONS SHOWN MAY BE ACCEPTED. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

NOTES

1. ALL JOINTS TO BE FULL STRENGTH WELDED.
2. WHOLE ASSEMBLY TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
3. ALL HARDWARE TO BE GALVANIZED.
4. STEEL PIPE DIAMETERS AS SHOWN ARE I.D.
5. METAL POSTS FOR GATE ARE 2665 LG. AND TO BE INFILLED WITH CONC. AFTER INSTALLATION.
6. WOODEN POSTS TO BE PRESSURE TREATED AS SPECIFIED.
7. PADLOCKS WILL BE SUPPLIED BY THE CORPORATION OF THE DISTRICT OF PITT MEADOWS.

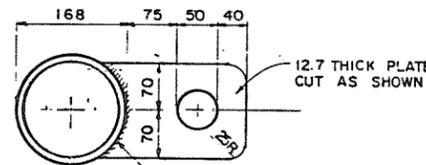


DETAIL 'A'
N.T.S.

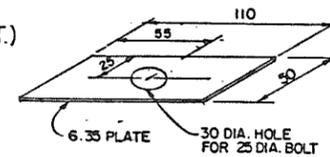


TYPICAL FENCE DETAIL WITH INTERMEDIATE STRAINING POSTS
N.T.S.

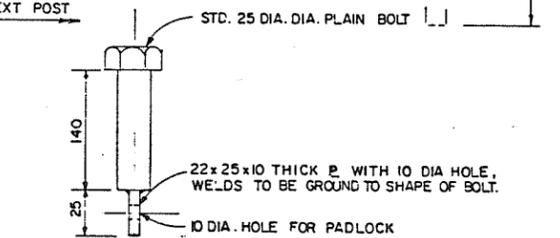
NOTE: MAXIMUM DISTANCE FOR STRAINING POST IS 90m OR AT AN ABRUPT CHANGE OF GROUND LINE CHANGE OF DIRECTION AND AT OPENINGS.



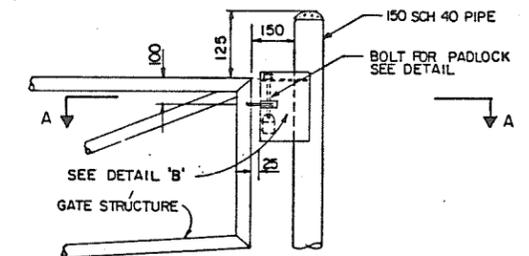
PLAN VIEW OF HINGE BRACKET (3 REQ'D)
2 AS SHOWN
1 WITHOUT HOLE (BOT.)
N.T.S.



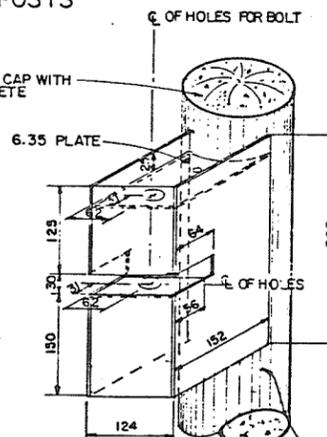
DETAIL 'B'
N.T.S.



BOLT FOR PADLOCK
N.T.S.



LOCKING DETAIL
N.T.S.



SECTION A-A
N.T.S.

NOTE: ALL DIMENSIONS ARE IN MM, EXCEPT WHERE SHOWN OTHERWISE.

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-15-24-109

2	V.W.	AS CONSTRUCTED	31.1.88
1	V.W.	ISSUED FOR TENDER	25.1.88
NO. BY		REVISIONS	DATE

RECOMMENDED	<i>P. H. Cameron</i> PROJECT MANAGER
DATE	January 20, 1988
APPROVED	<i>H. J. Fuller</i> DIRECTOR, WATER MANAGEMENT BRANCH
DATE	Jan 19/88

DESIGNED	V.W.	SURVEYED	N.A.
DRAWN	V.W.	DATE	N.A.
CHECKED		FILE NO.	Q281550-C4-15
SCALE	AS SHOWN	DATE	JAN. 1988
DWG. NO.	4793-15-9	SHEET	9 OF 9 SHEETS



280872

FENCING AND GATE DETAILS

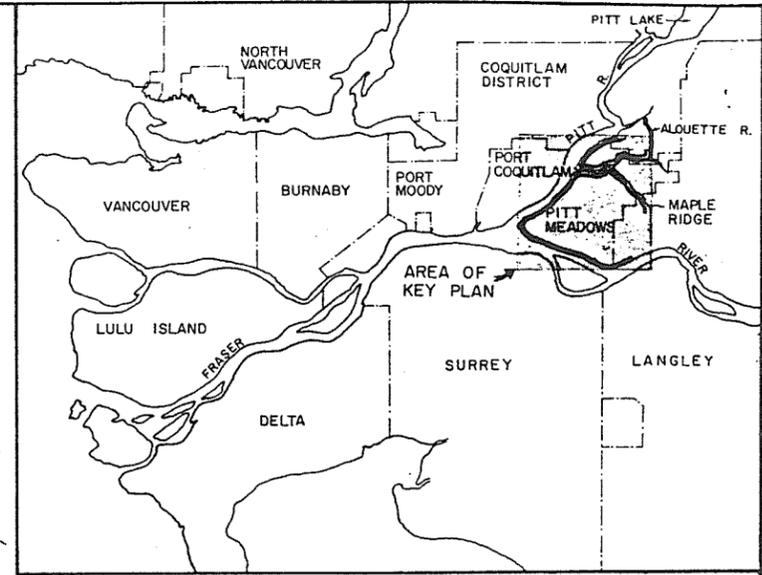
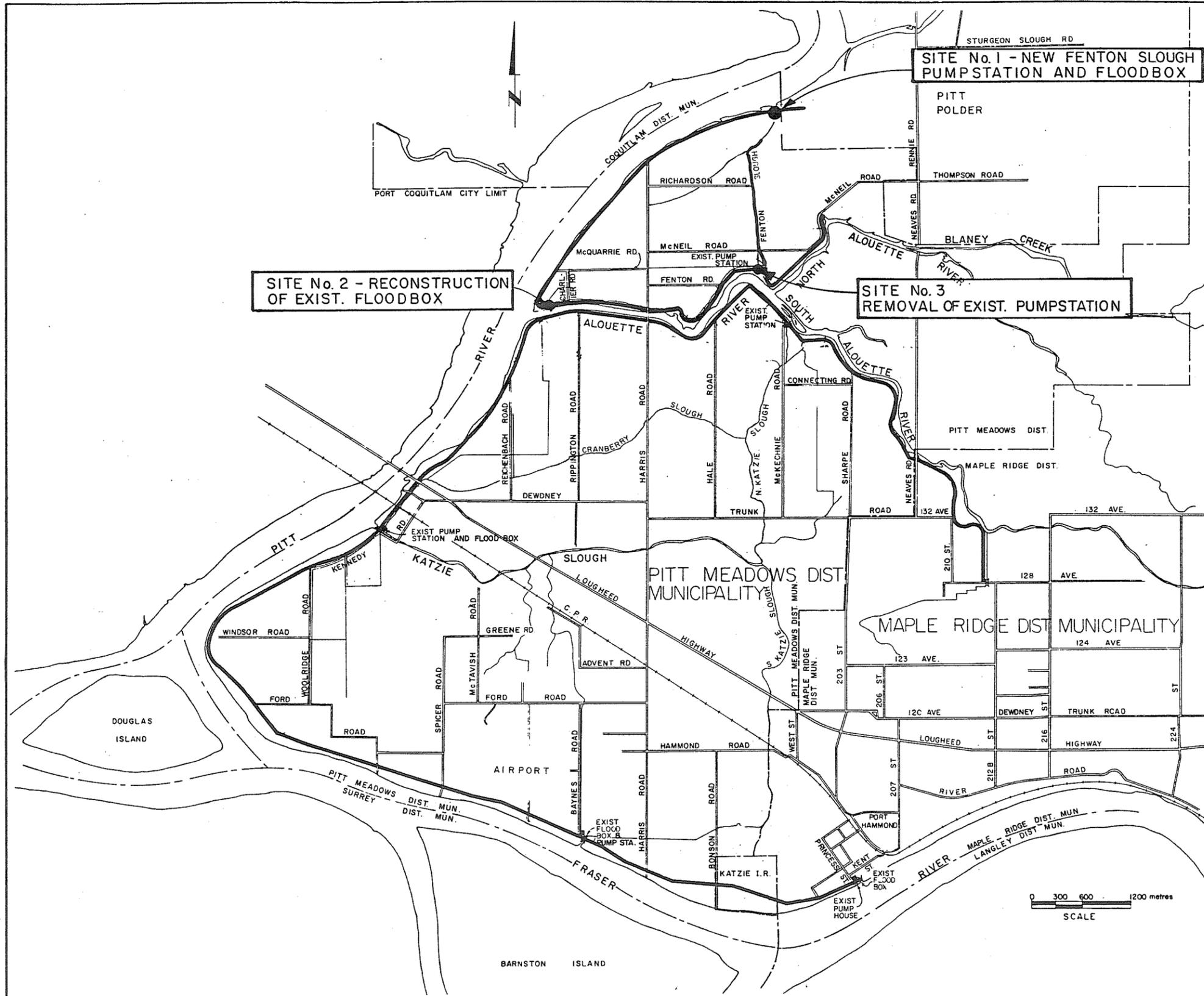
CONTRACT NO. 16

**CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO.2 DISTRICT OF PITT MEADOWS
ALSO ARDSA PROJECT NO.22011**

**CONTRACT NO. 16
FENTON SLOUGH PUMPSTATION
AND FLOODBOX, DYKE WORKS
AT SITES 2 AND 3**

**ASSOCIATED
ENGINEERING**





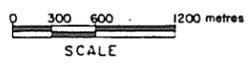
LOCATION PLAN
SCALE 1" = 4 MILES

LEGEND

- EXIST. FENCE
- NEW FENCE
- NEW MANHOLE
- ⋈ EXIST. GATE
- I.P. IRON PIN
- HYDRO POLE
- ▭ EXIST. BUILDING

DYKE FILL MATERIALS

- TYPE I BULK FILL
- TYPE II BEDDING MATERIAL
- TYPE III LANDSIDE TOE DRAIN FILTER
- TYPE IV DYKE SURFACING MATERIAL
- TYPE V FILTER MATERIAL



ASSOCIATED ENGINEERING

AE DWG. NO. V43J-25-101

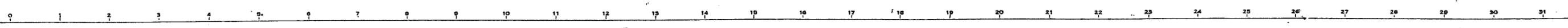
RECOMMENDED	DATE	APPROVED
PROJECT MANAGER	25.4.88	DIRECTOR, WATER MANAGEMENT BRANCH
DATE 1986-07-11		

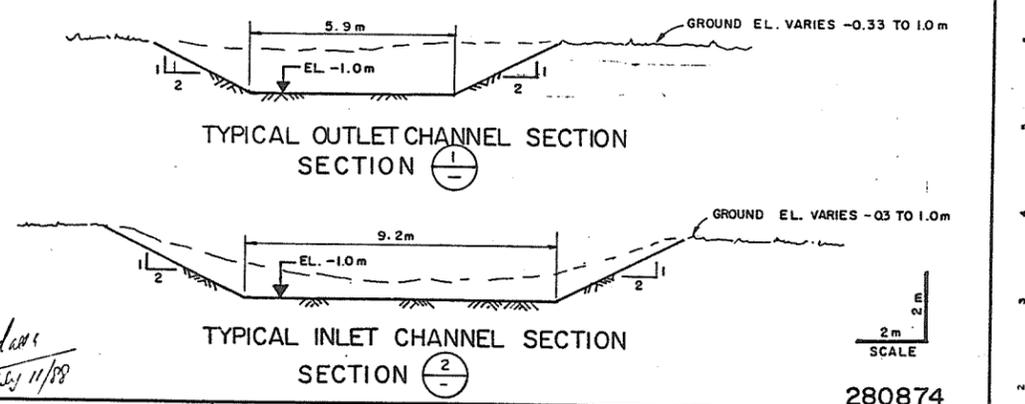
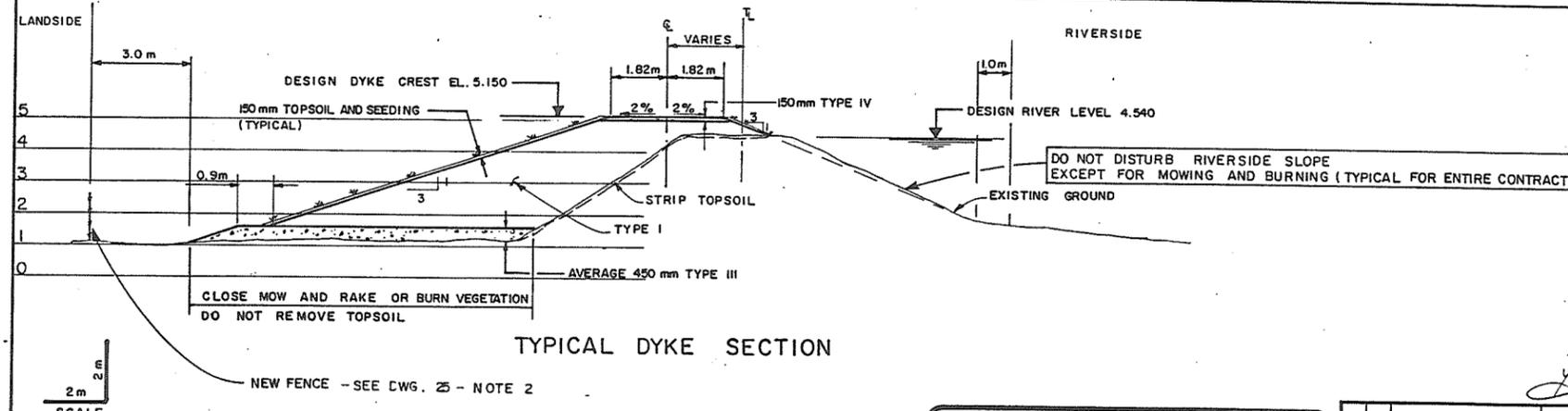
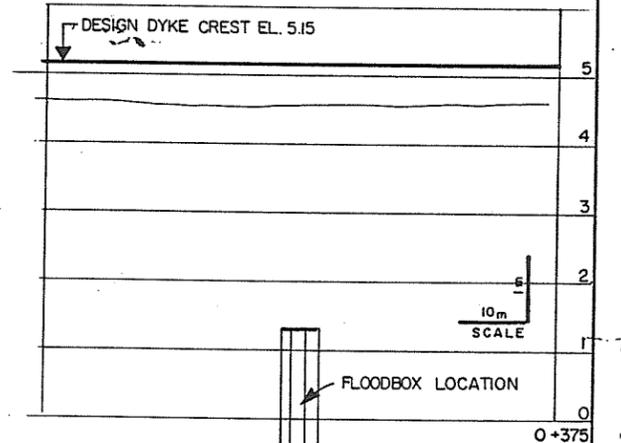
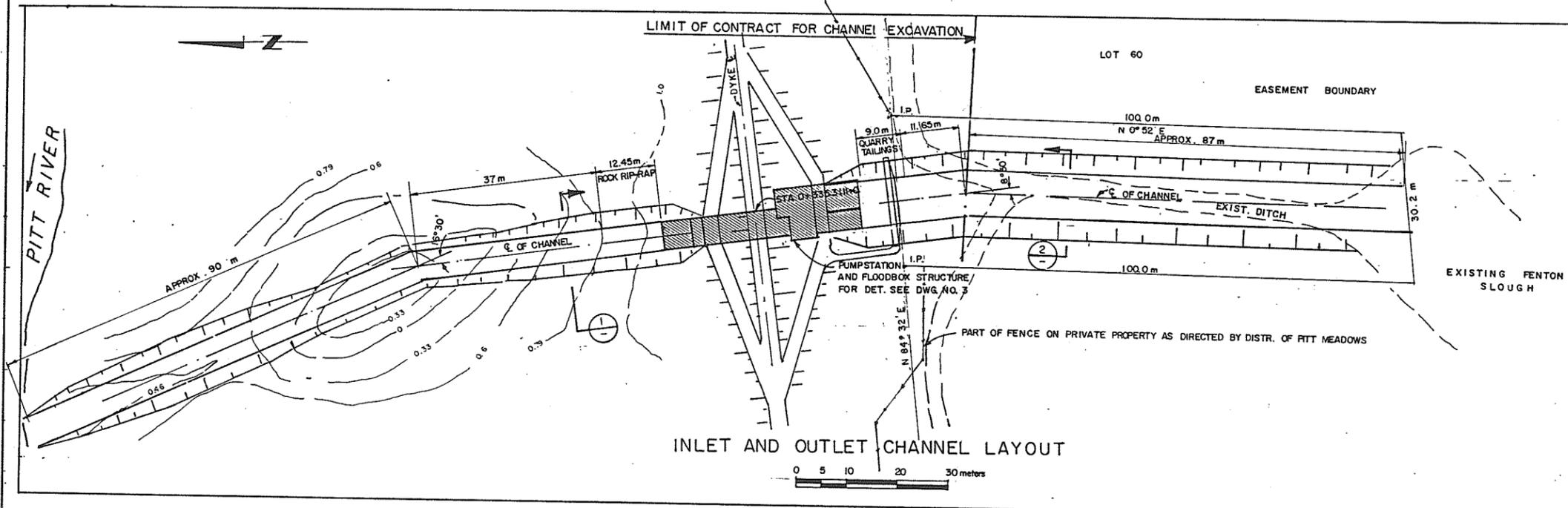
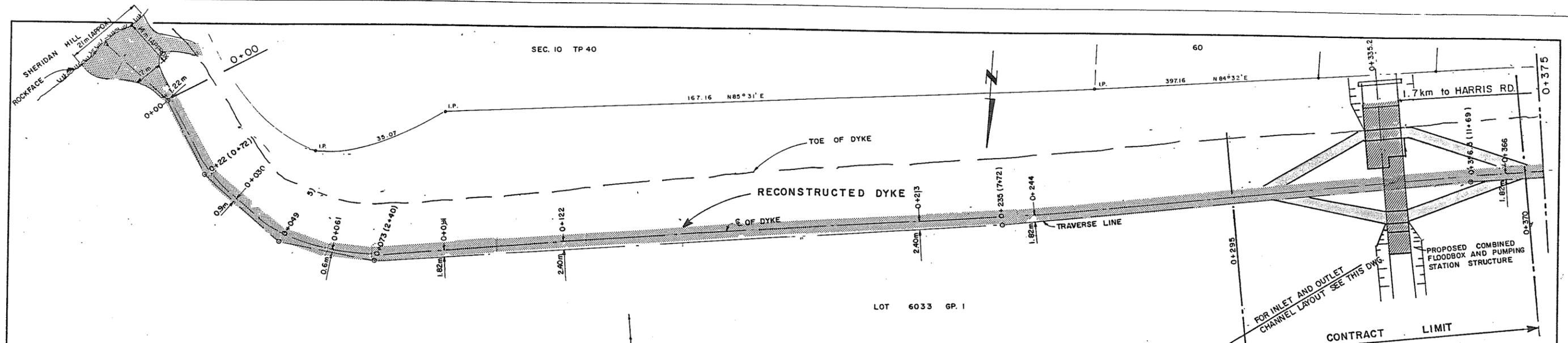
BRITISH COLUMBIA
MINISTRY OF ENVIRONMENT
WATER MANAGEMENT BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1948 AGREEMENT
PROJECT NO 2 DISTRICT OF PITT MEADOWS CONTRACT NO 16

SITE LOCATION PLAN

280873

DESIGNED S.G.	SURVEYED A.E.
DRAWN V.W.	DATE 1987
CHECKED	FILE NO. 028155C-C16
SCALE AS SHOWN	DATE MAY 1988
DWG. NO. 4793-16-1	SHEET 1 OF 26 SHEETS



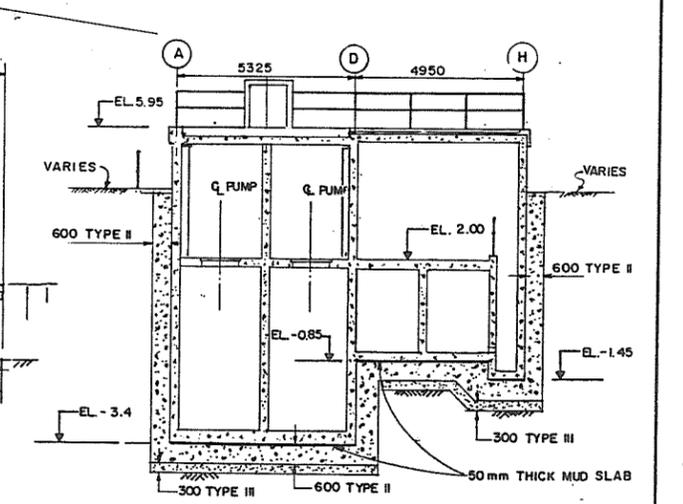
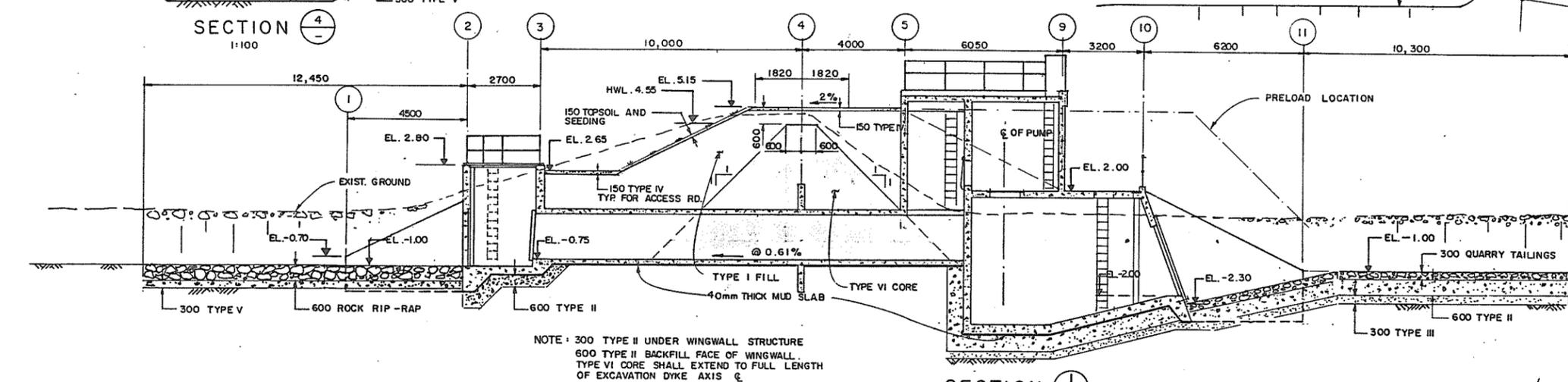
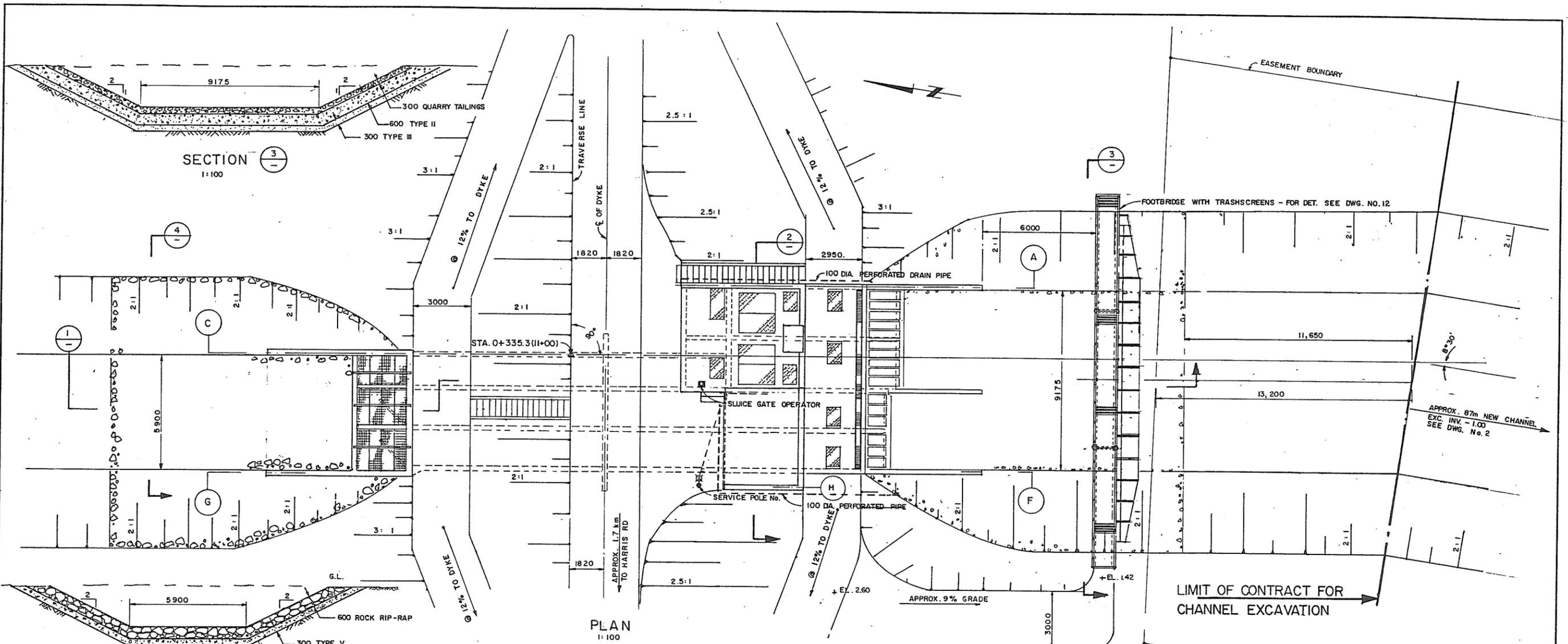


ASSOCIATED ENGINEERING **AE**
 DWG. NO. V43 J-25-102

1 V.W. AS CONSTRUCTED 25489		RECOMMENDED <i>R. P. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16	DESIGNED V.W./S.G.	SURVEYED AE (B.C.) LTD.
NO. BY REVISIONS DATE		DATE 1988-07-11	FENTON SLOUGH PUMPSTATION AND FLOODBOX INLET AND OUTLET CHANNEL LAYOUT AND SECTIONS.	DRAWN V.W.	DATE 1969 AND 1986
		APPROVED <i>[Signature]</i> DIRECTOR, WATER MANAGEMENT BRANCH		CHECKED S.G.	FILE NO. 0281550-C16
				SCALE AS SHOWN	DATE JULY, 1988
				DWG. NO. 4793-16-2	SHEET 2 OF 25 SHEETS

280874

Amador
July 11/88



SECTION 3
1:100

PLAN
1:100

SECTION 4
1:100

SECTION 1
1:100

SECTION 2
1:100

NOTE: 300 TYPE II UNDER WINGWALL STRUCTURE
600 TYPE II BACKFILL FACE OF WINGWALL.
TYPE VI CORE SHALL EXTEND TO FULL LENGTH
OF EXCAVATION DYKE AXIS &

ASSOCIATED ENGINEERING

DWG. NO. V43J-25-103

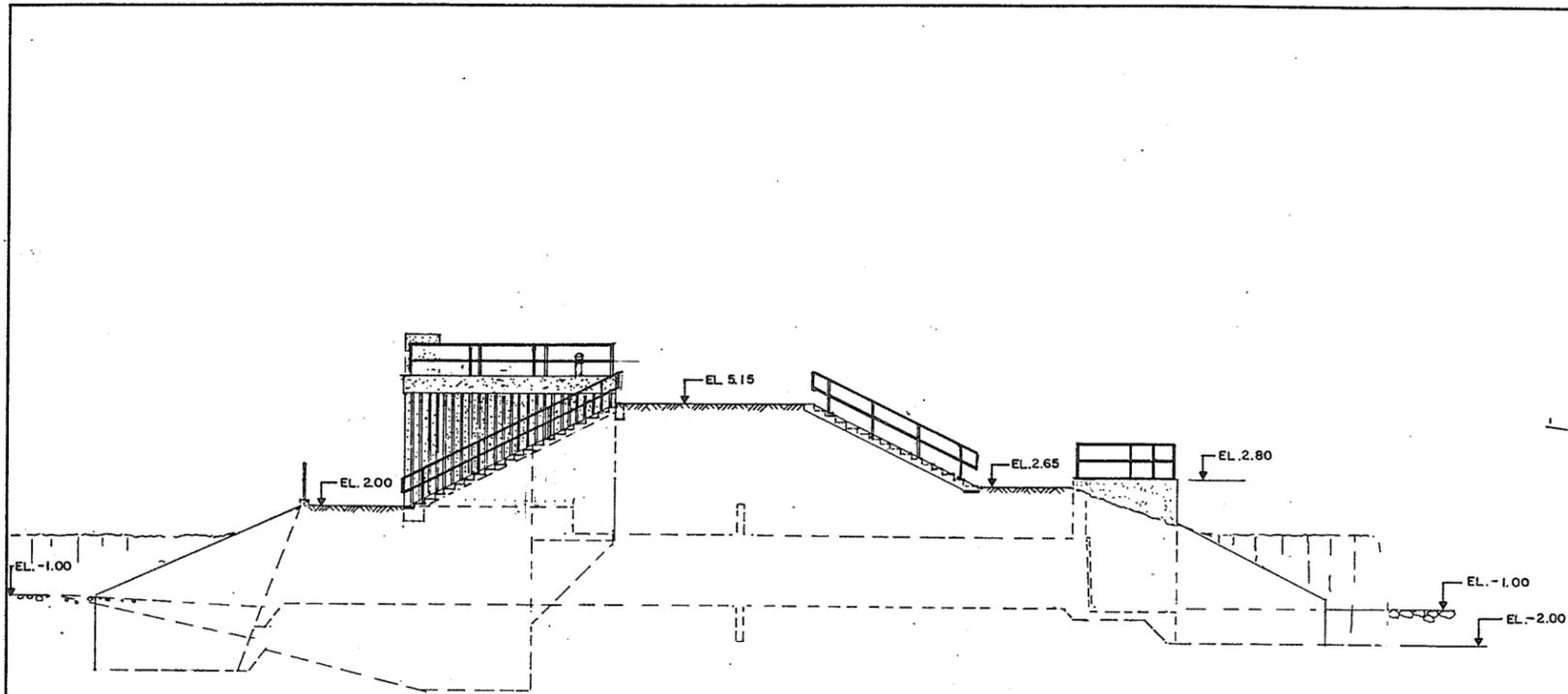
RECOMMENDED	<i>[Signature]</i> PROJECT MANAGER
DATE	2.16.1988
APPROVED	<i>[Signature]</i> DIRECTOR, WATER INVESTIGATIONS BRANCH
DATE	1988-07-11

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1988 AGREEMENT
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16
FENTON SLOUGH PUMPSTATION AND FLOODBOX
GENERAL LAYOUT PLAN

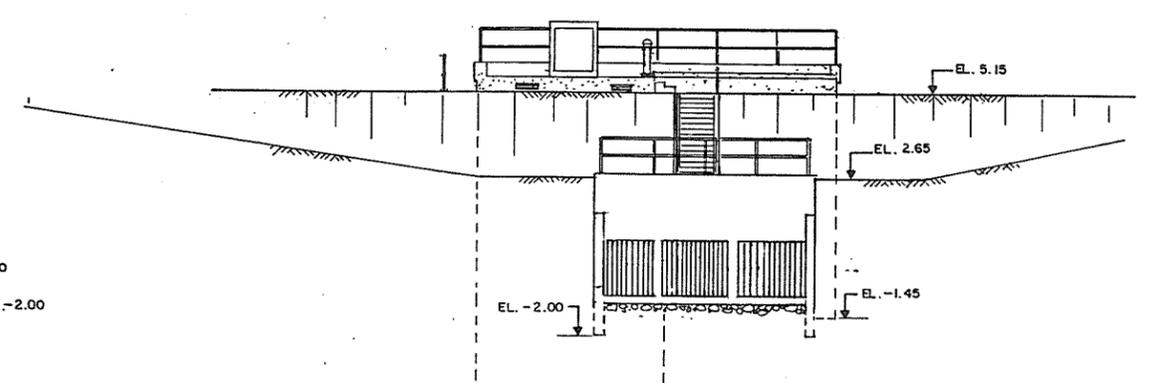
DESIGNED	V.W./S.G.	SURVEYED	
DRAWN	V.W.	DATE	
CHECKED	S.G.	FILE NO.	0281550-C16
SCALE	AS SHOWN	DATE	JULY 1988
DWG. NO.	4793-16-3	SHEET	3 OF 26 SHEETS

280875

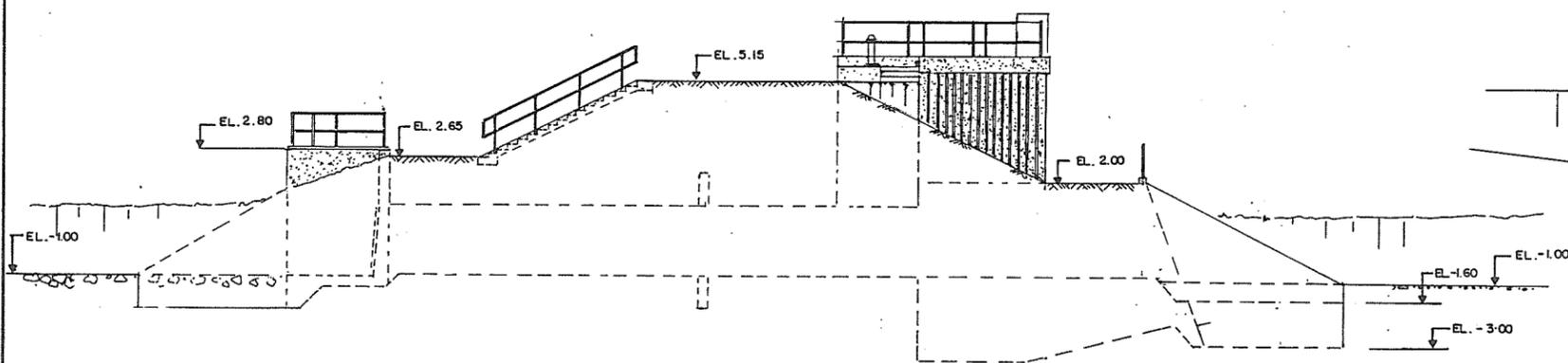
Amended July 11/88



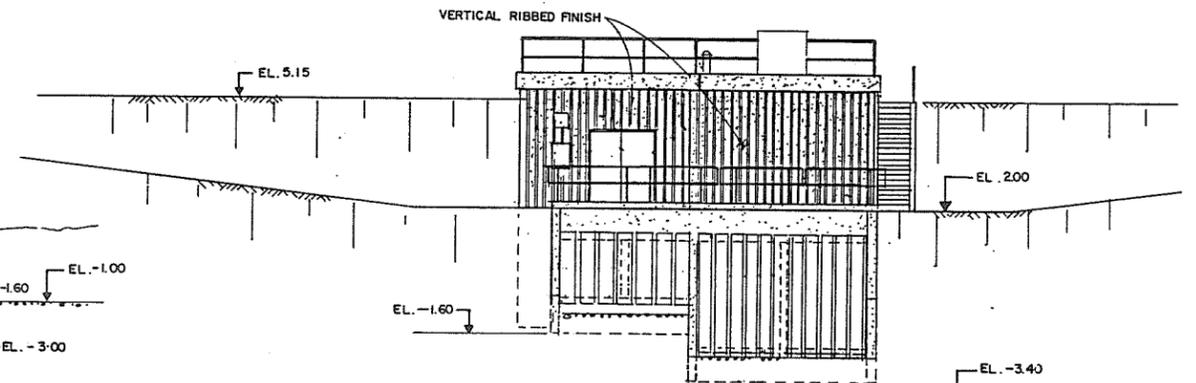
EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION

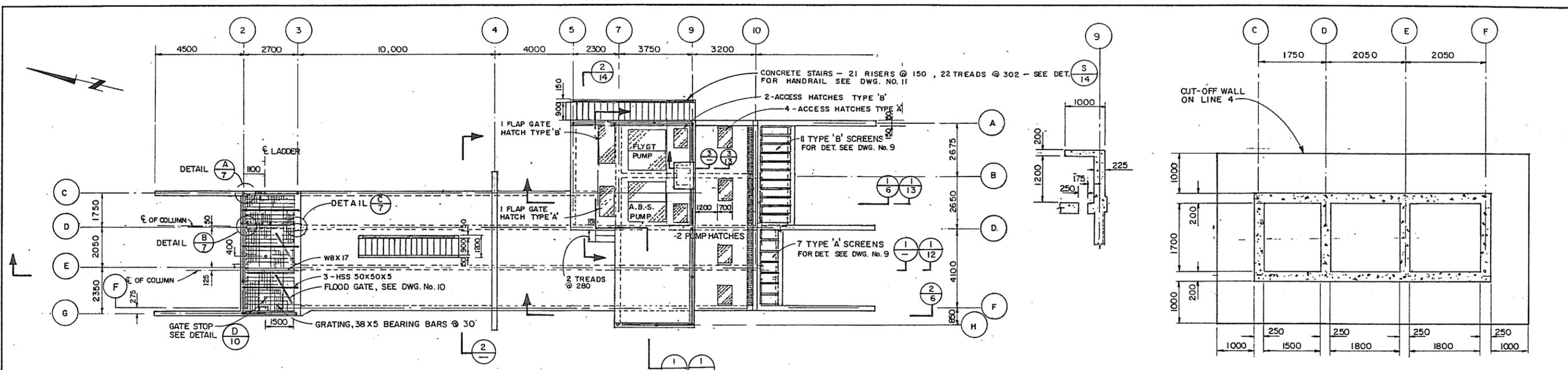


SOUTH ELEVATION

Am. ed. 000
July 11/88
280876


ASSOCIATED ENGINEERING
 AE DWG. NO. V43J-25-104

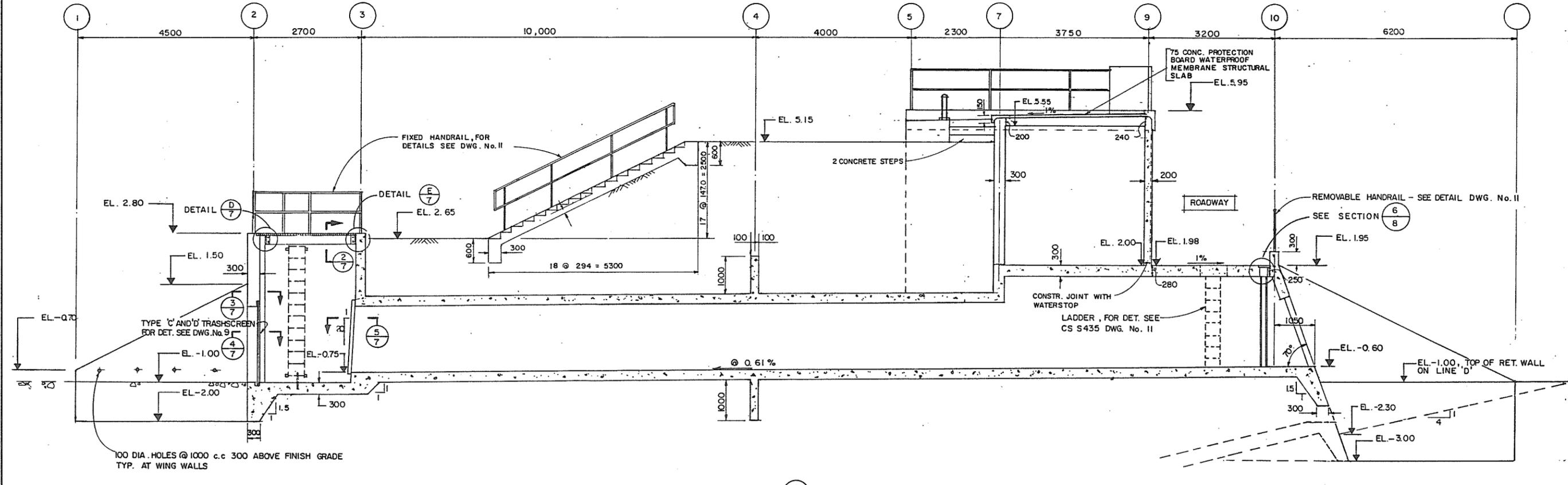
NO.	BY	REVISIONS	DATE	RECOMMENDED <i>R. H. Dawson</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16 FENTON SLOUGH PUMPSTATION AND FLOODBOX ELEVATIONS	DESIGNED V.W./S.G.	SURVEYED
				DATE <i>July 11, 1988</i>		DRAWN V.W.	DATE
				APPROVED <i>[Signature]</i> DIRECTOR, WATER MANAGEMENT BRANCH		CHECKED S.G.	FILE NO. 028550-C16
				DATE <i>1988-07-11</i>		SCALE 1:100	DATE JULY 1988
						DWG. NO. 4793-16-4	SHEET 4 OF 26 SHEETS



PLAN
1:100

SECTION 1
1:50

SECTION 2
1:50



SECTION 3
1:50

NOTES:

1. THE THICKNESS OF WALLS & SLABS TO BE 250 mm U.N.O.
2. FOR SCREEN DETAILS SEE DWG. NO. 9
3. FOR HATCH DETAILS SEE DWG. NO. 8
4. BAYLINES @ ϕ OF WALLS U.N.O.
5. ROADWAY SLAB DESIGN LOADING = MS 200 (STATIC)

ASSOCIATED ENGINEERING

AE DWG. NO. V43J-25-105

NO.	BY	REVISIONS	DATE
1	VW	AS CONSTRUCTED	25.8.89

RECOMMENDED *Ruth Cameron*
PROJECT MANAGER

DATE *JULY 11 1988*

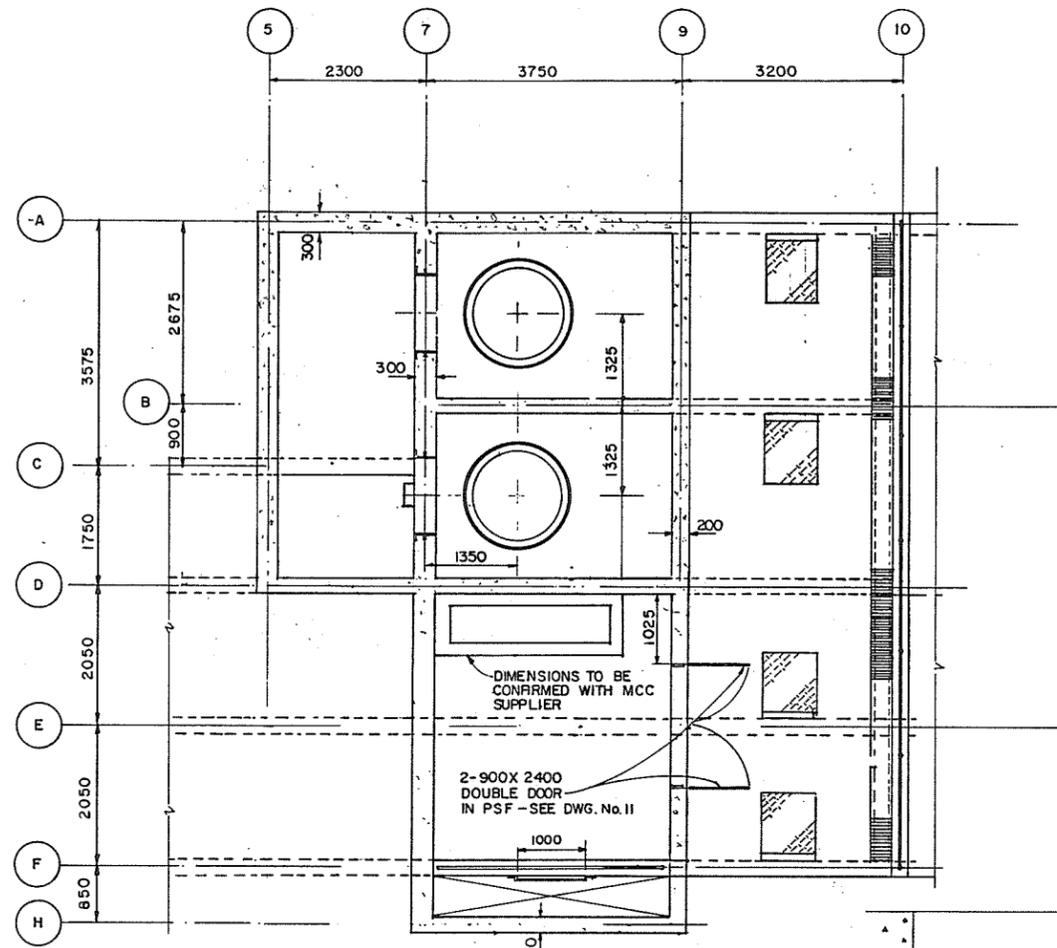
APPROVED *[Signature]*
DIRECTOR, WATER INVESTIGATIONS BRANCH

DATE *1988-07-11*

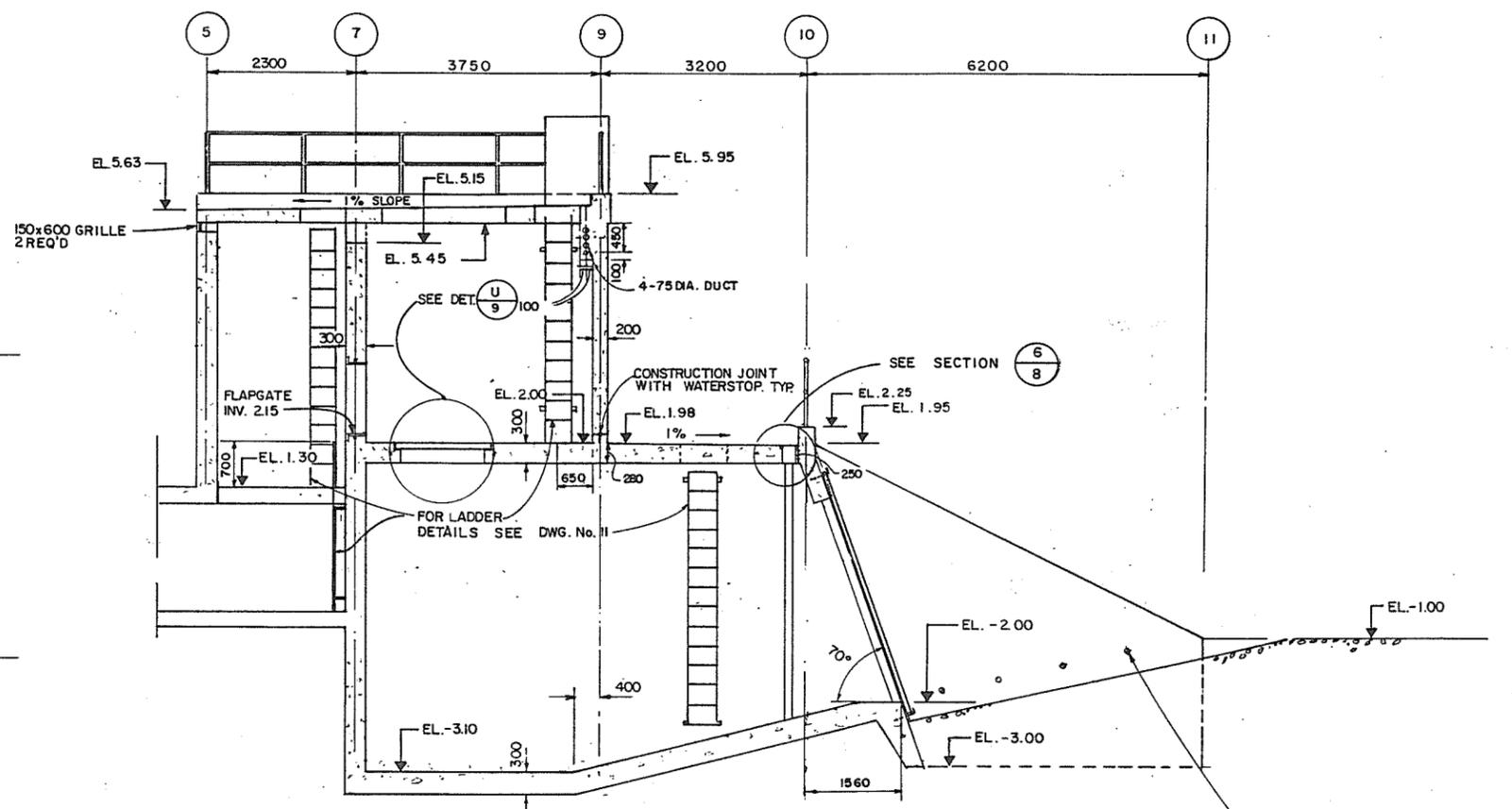
DESIGNED	V.W./S.G.	SURVEYED	
DRAWN	V.W.	DATE	
CHECKED	S.G./D.B.H.	FILE NO.	0281550 C-16
SCALE	AS SHOWN	DATE	JULY 1988
DWG. NO.	4793-16-5	SHEET	5 OF 26 SHEETS

280877

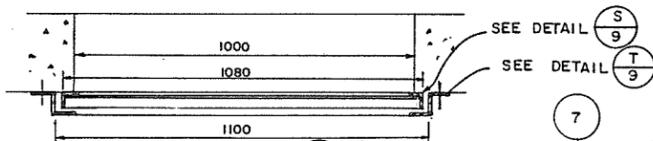
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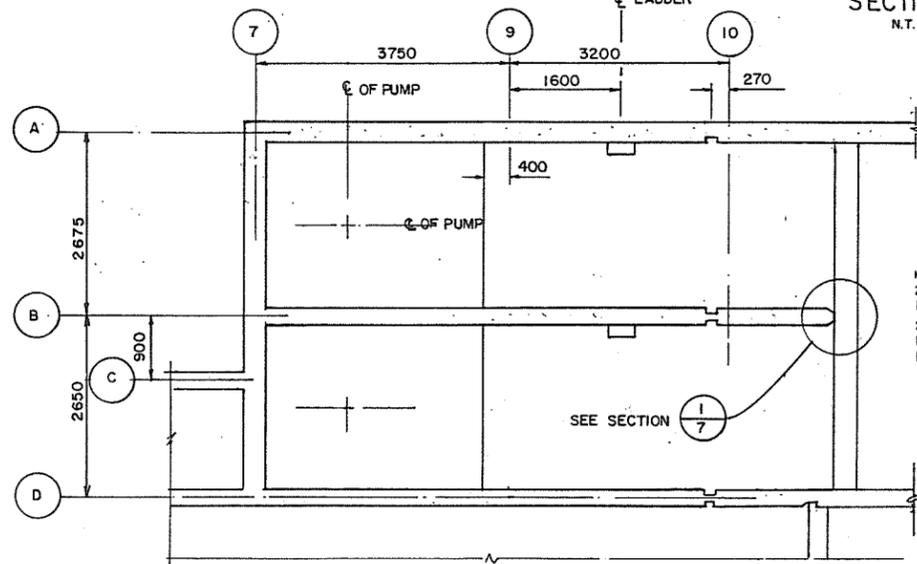
FLOOR PLAN
1:50



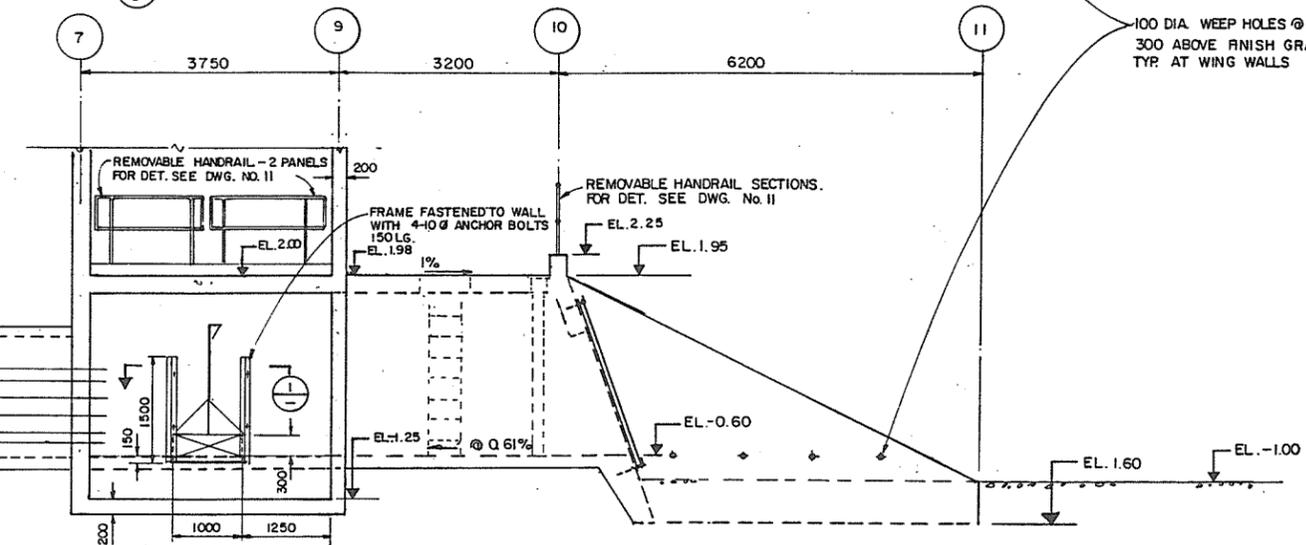
SECTION 1
1:50



SECTION 1
N.T.S.



FOUNDATION PLAN
1:50



SECTION 2
1:50

- HLA EL. 0.600
- 2nd PUMP START EL. 0.450
- 1st PUMP START EL. 0.200
- 2nd PUMP STOP EL. -0.050
- 1st PUMP STOP EL. -0.300
- LLA EL. -0.400

100 DIA. WEEP HOLES @ 1000
300 ABOVE FINISH GRADE
TYP. AT WING WALLS

280878

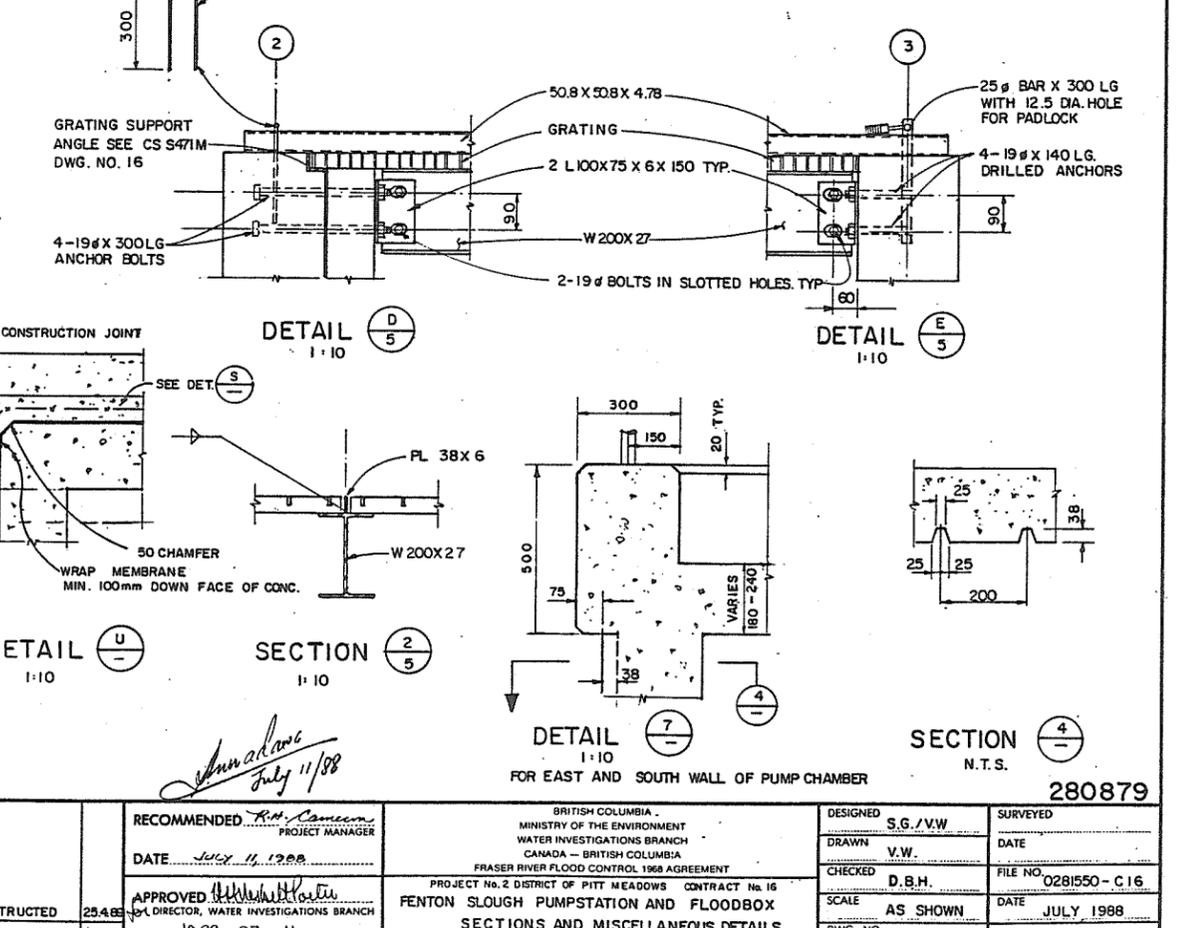
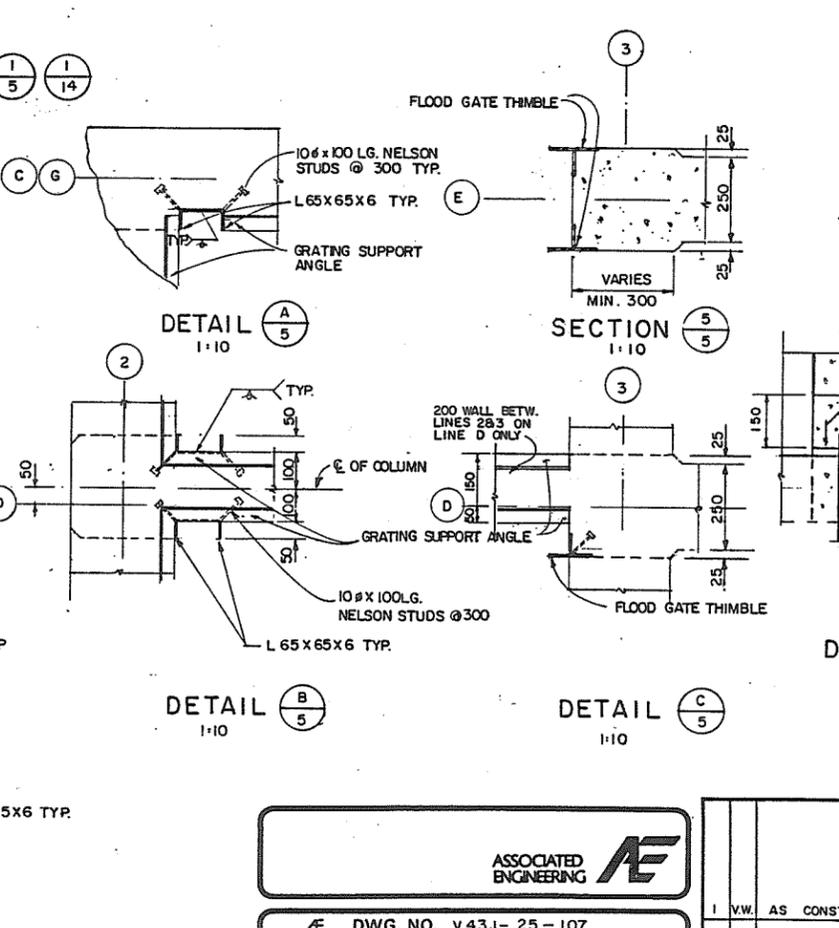
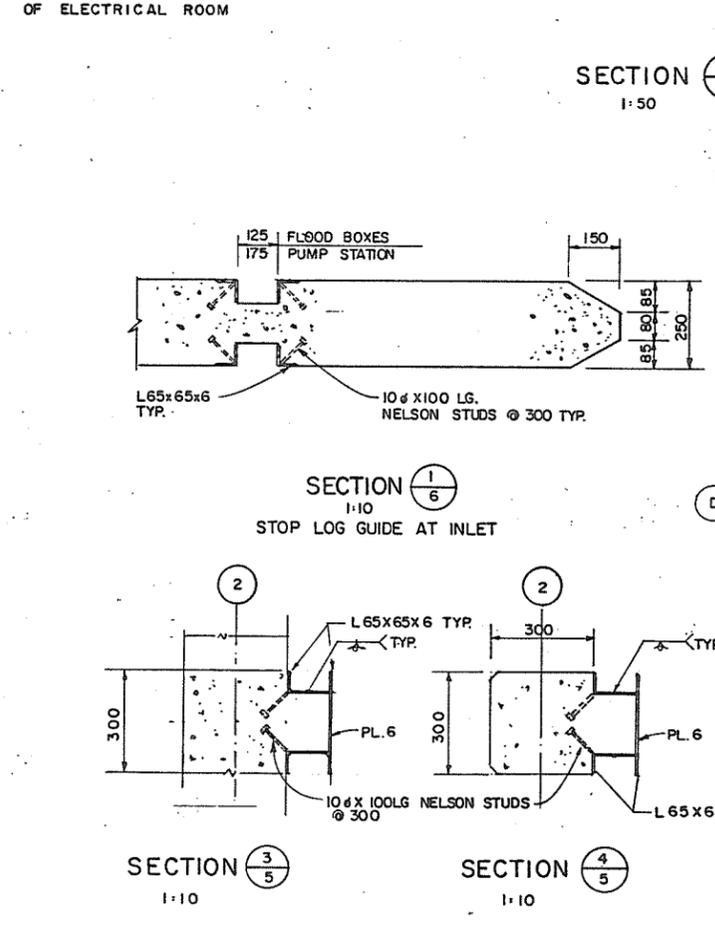
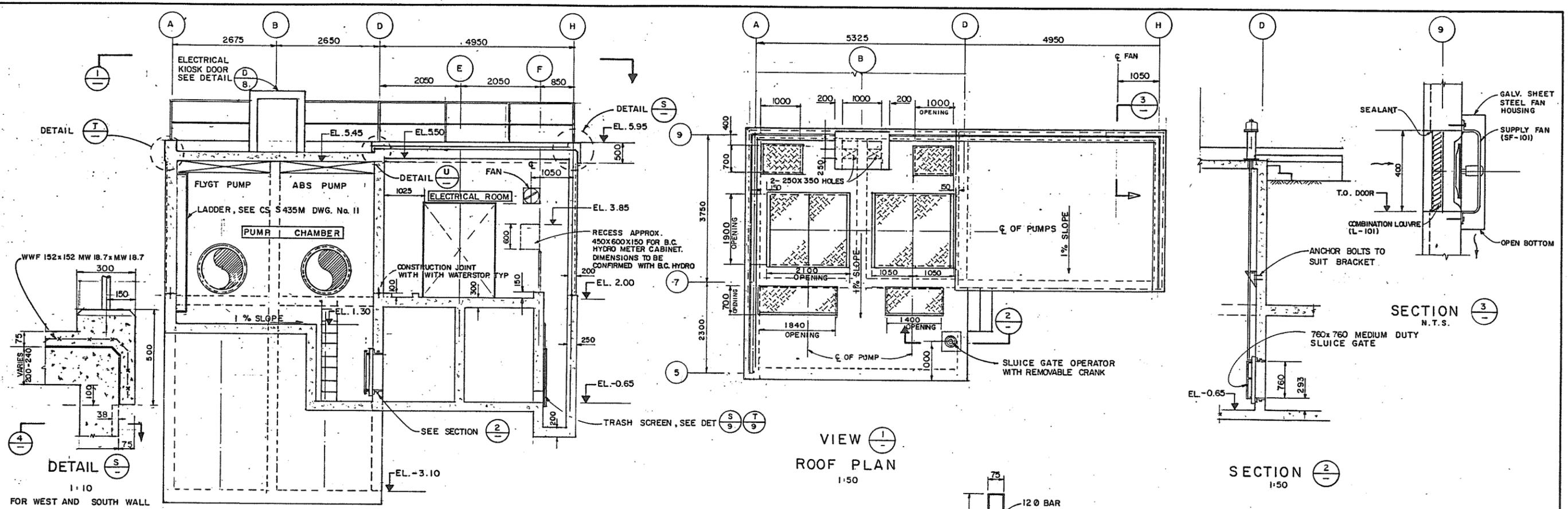
Signature
July 11/88

ASSOCIATED ENGINEERING **AE**
DWG. NO. V 43 J - 25 - 106

RECOMMENDED	<i>Signature</i> PROJECT MANAGER
DATE	1988-07-11
APPROVED	<i>Signature</i> DIRECTOR, WATER INVESTIGATIONS BRANCH
DATE	1988-07-11

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1988 AGREEMENT
PROJECT No. 2 DISTRICT OF PITT MEADOWS CONTRACT No. 16
FENTON SLOUGH PUMPSTATION AND FLOODBOX
SECTIONS

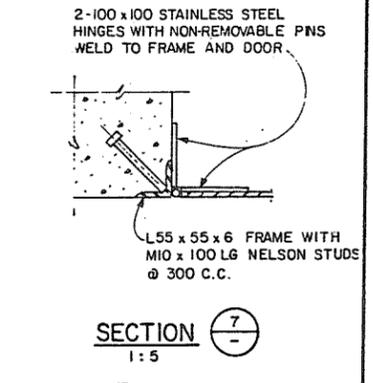
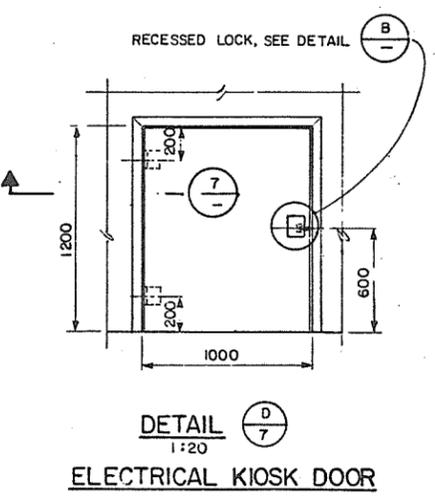
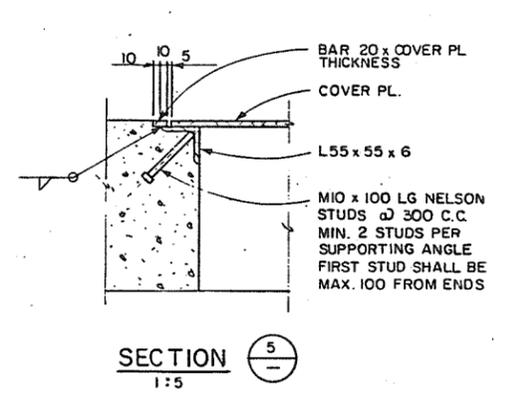
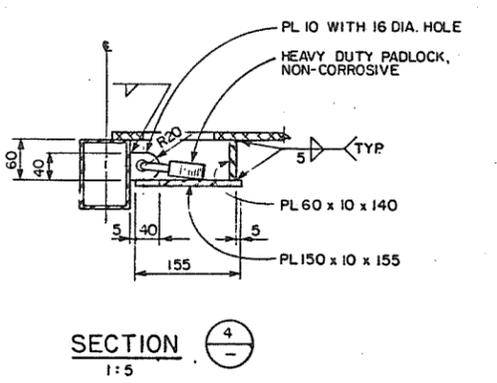
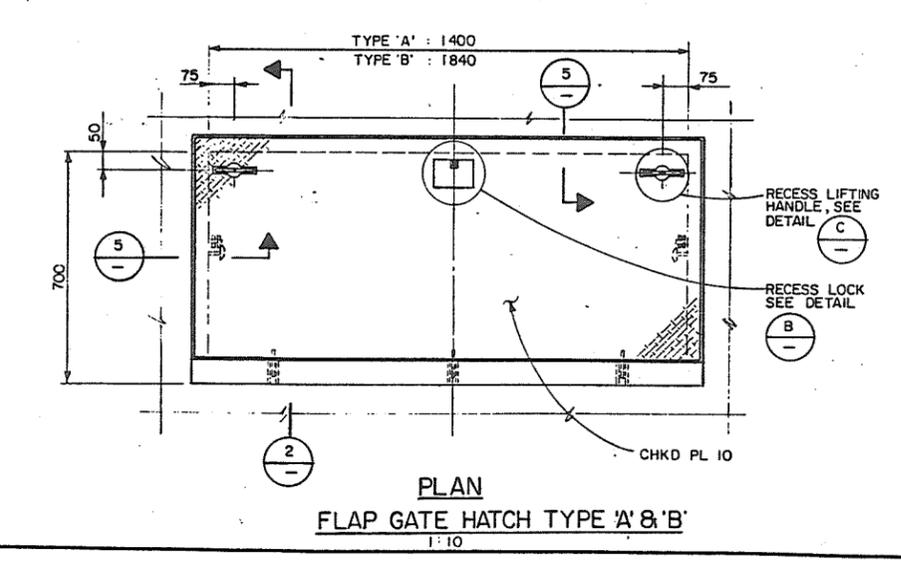
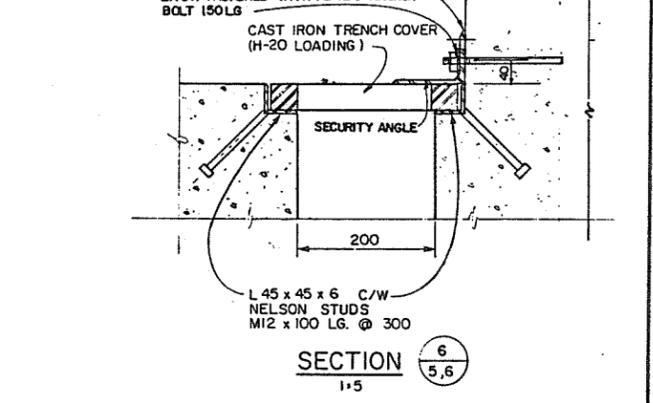
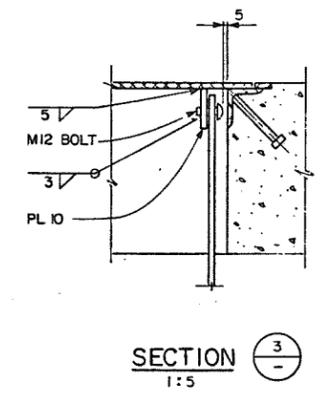
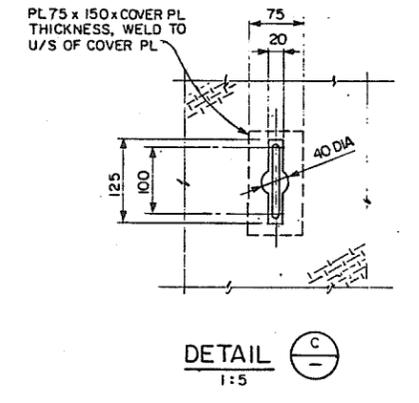
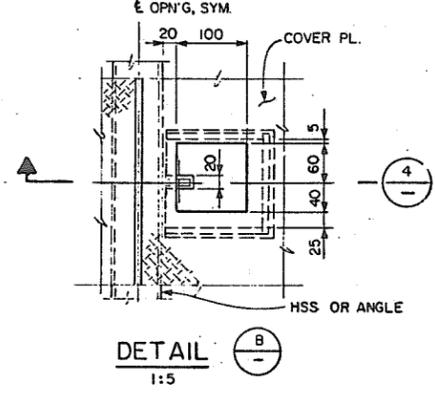
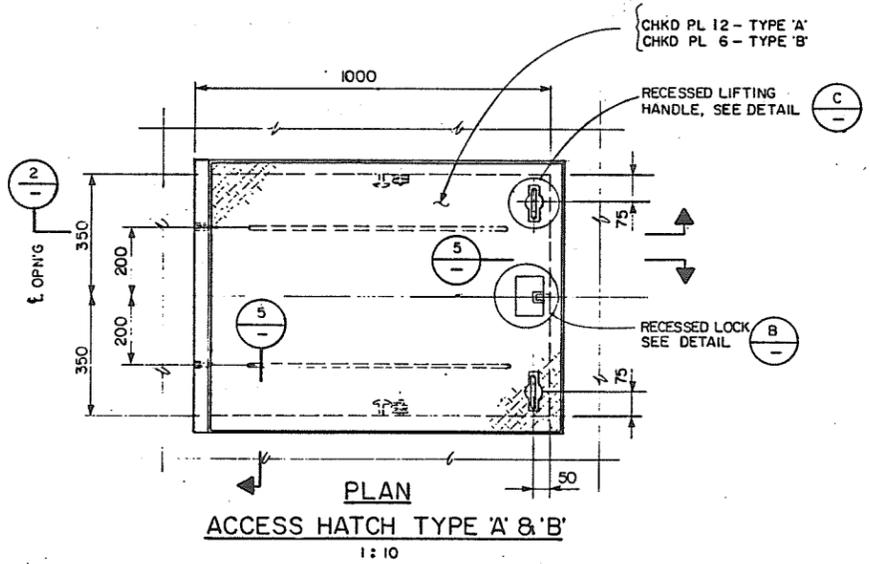
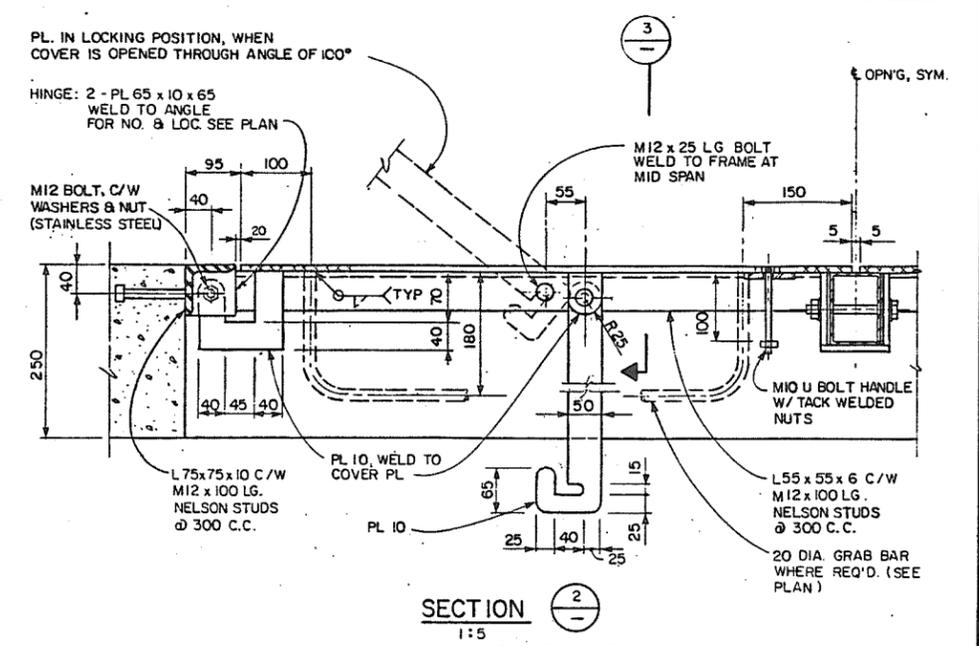
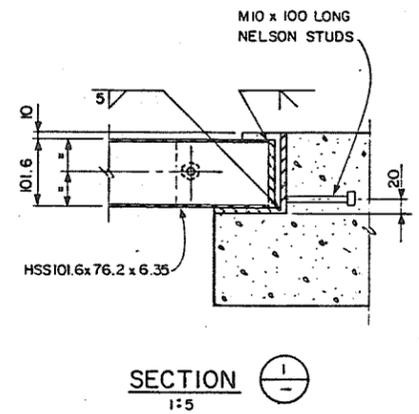
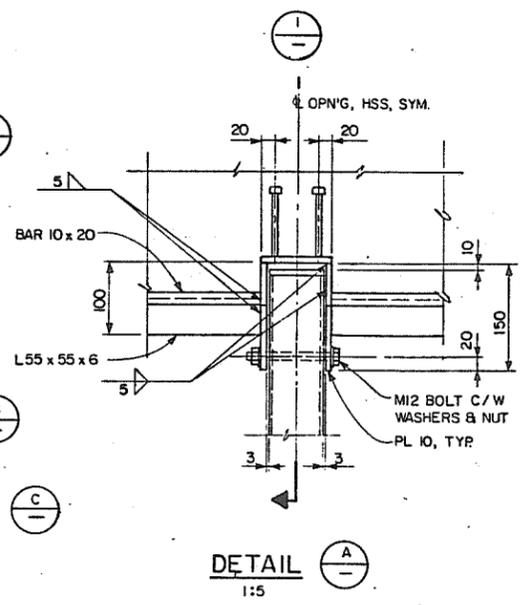
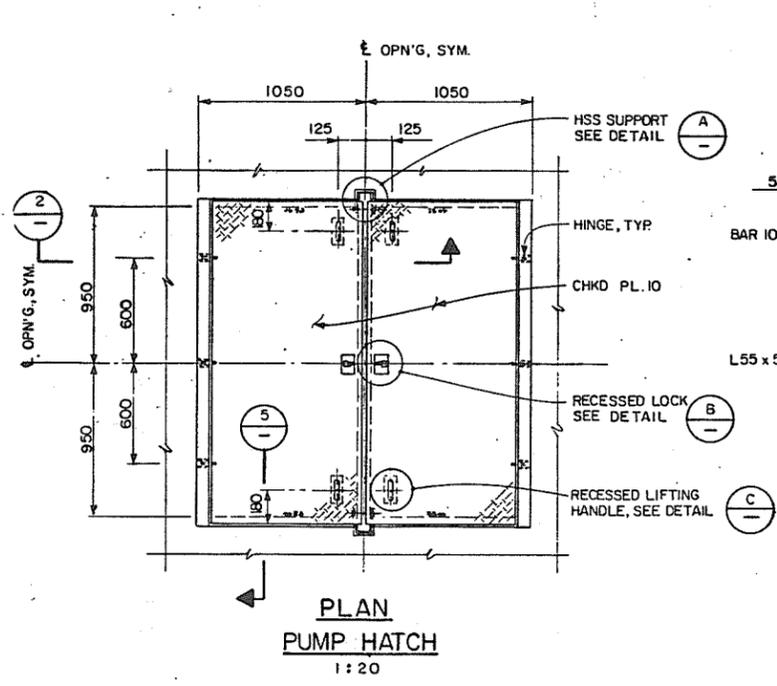
DESIGNED	S.G./V.W.	SURVEYED	
DRAWN	V.W.	DATE	
CHECKED	S.G./D.B.H.	FILE NO.	028150-C16
SCALE	AS SHOWN	DATE	JULY 1988
DWG. NO.	4793-16-6	SHEET	6 OF 26 SHEETS



ASSOCIATED ENGINEERING
 DWG. NO. V43J-25-107

RECOMMENDED R.H. Cameron PROJECT MANAGER	DESIGNED S.G./V.W.	SURVEYED
DATE JULY 11, 1988	DRAWN V.W.	DATE
APPROVED D.B.H. DIRECTOR, WATER INVESTIGATIONS BRANCH	CHECKED D.B.H.	FILE NO. 0281550-C16
DATE 1988-07-11	SCALE AS SHOWN	DATE JULY 1988
NO. BY REVISIONS DATE	DWG. NO. 4793-16-7	SHEET 7 OF 26 SHEETS

280879



ASSOCIATED ENGINEERING
 DWG. NO. V43J-25-108

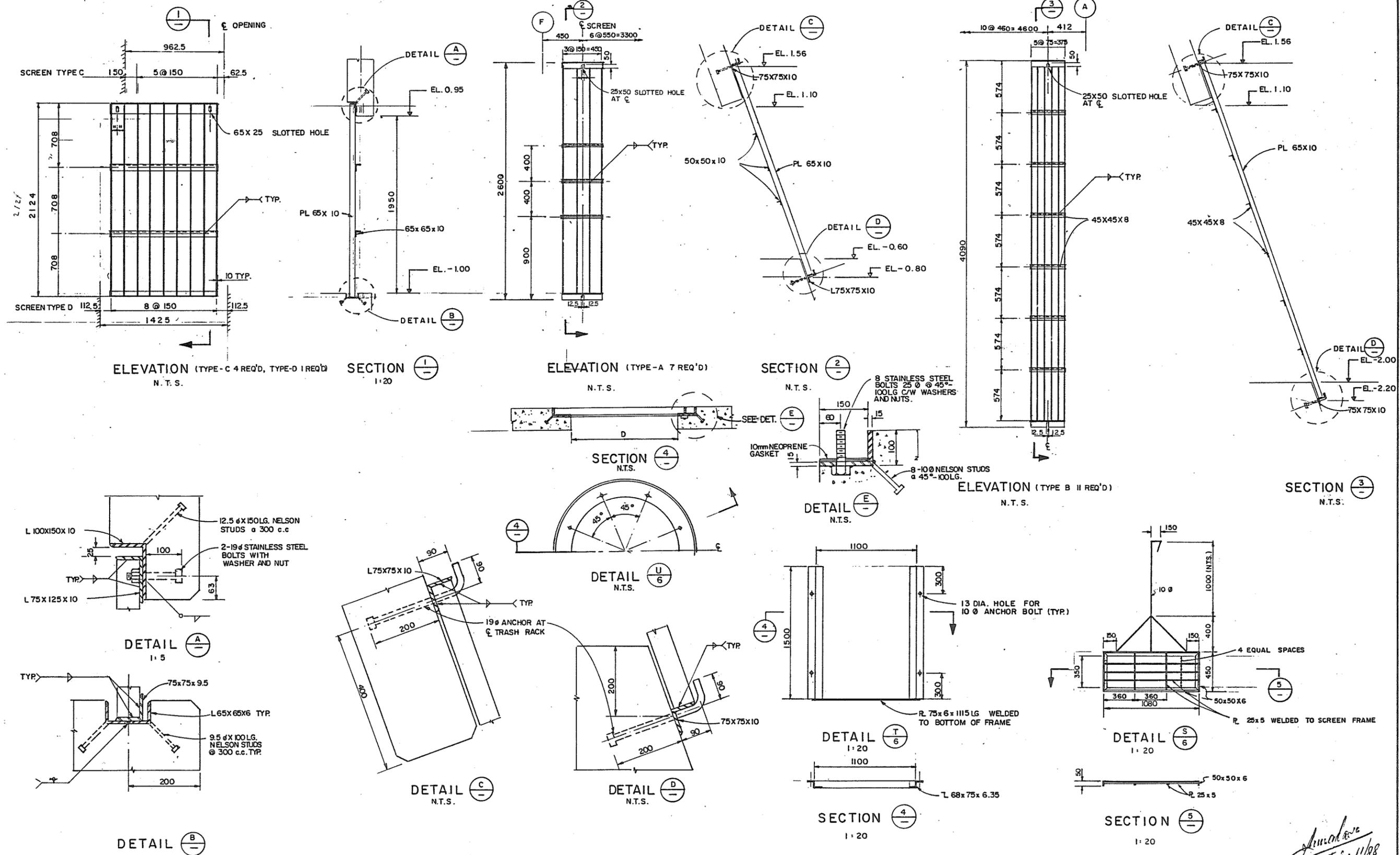
RECOMMENDED	<i>B. M. Cameron</i> PROJECT MANAGER
DATE	JULY 11, 1988
APPROVED	<i>W. H. [Signature]</i> DIRECTOR, WATER INVESTIGATIONS BRANCH
DATE	1988-07-11

BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1988 AGREEMENT

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16
 FENTON SLOUGH PUMPSTATION AND FLOODBOX
 MISCELLANEOUS DETAILS

DESIGNED	D.B.H.	SURVEYED	
DRAWN	V.W.	DATE	
CHECKED	S.G.	FILE NO.	0281550-16 C.
SCALE	AS	DATE	JULY 1989
DWG. NO.	4793-16-8	SHEET	8 OF 26 SHEETS

John [Signature]
 July 11/88
 280880



NOTE: 1. ALL STEEL DETAILS TO BE HOT-DIP GALVANIZED

ASSOCIATED ENGINEERING

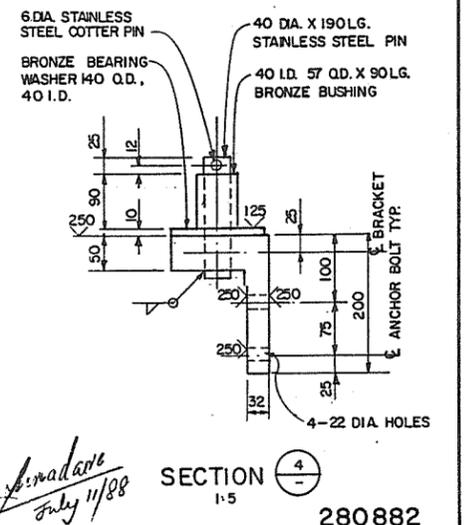
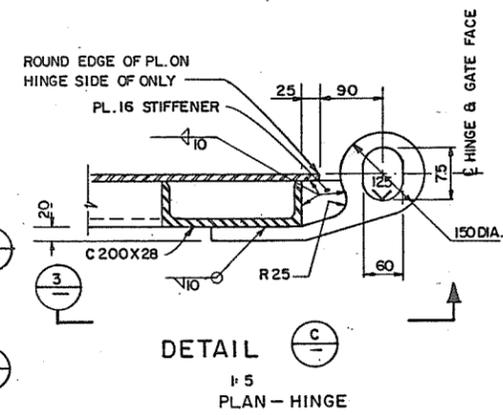
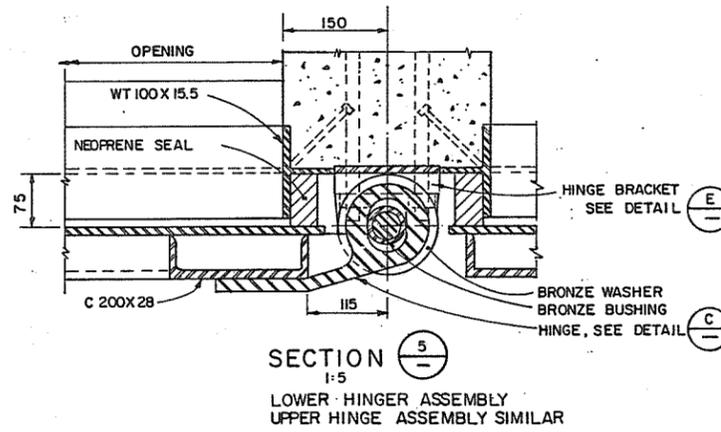
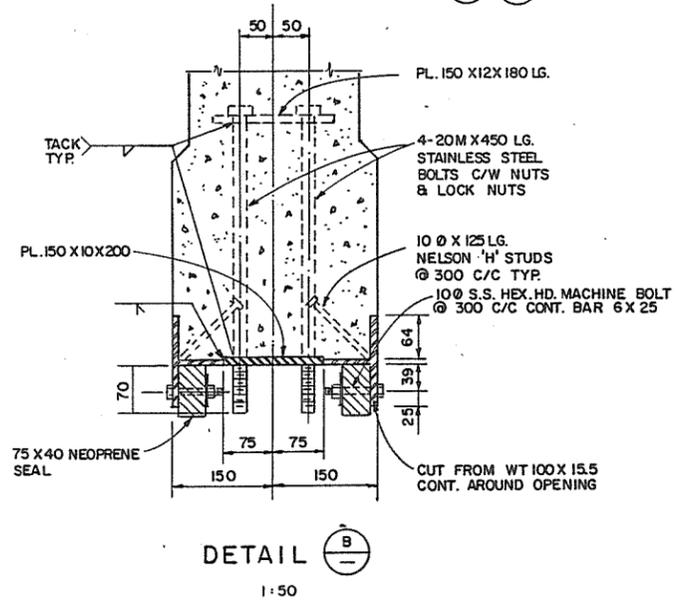
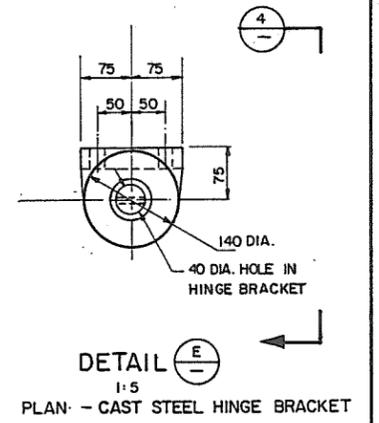
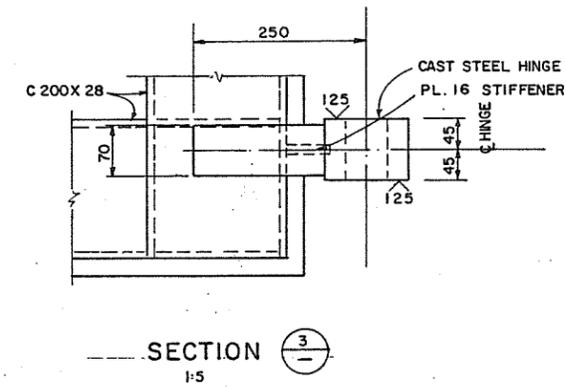
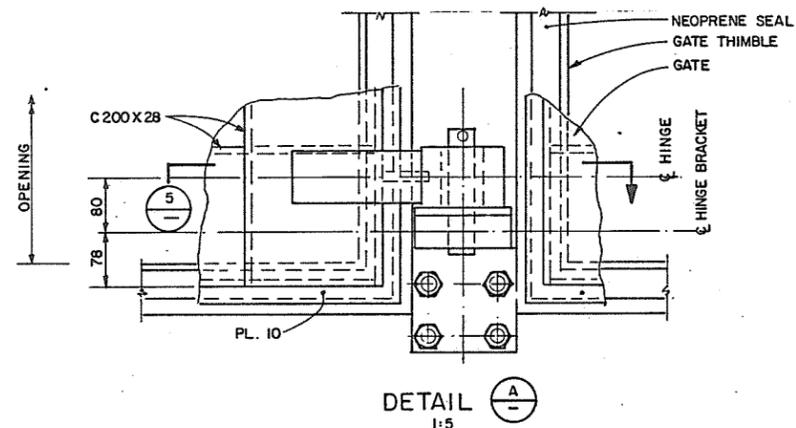
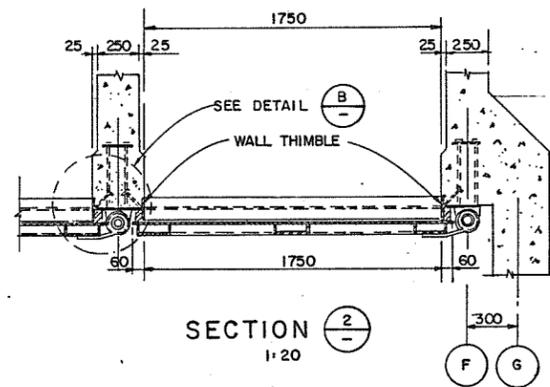
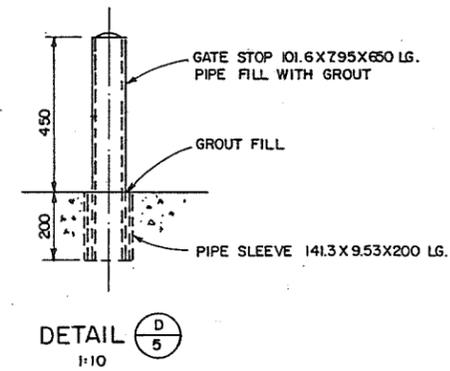
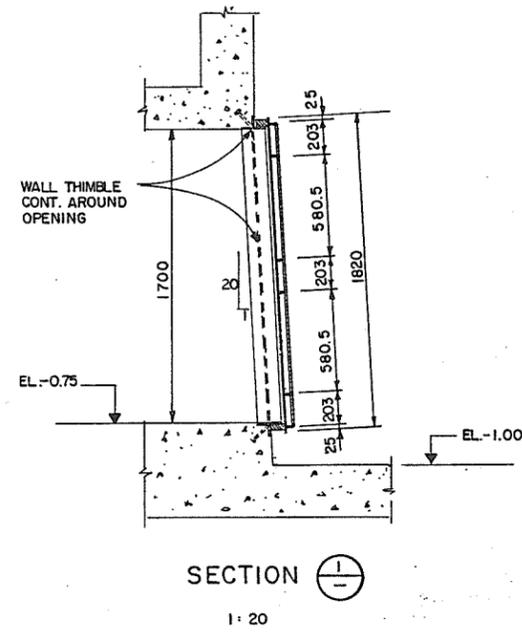
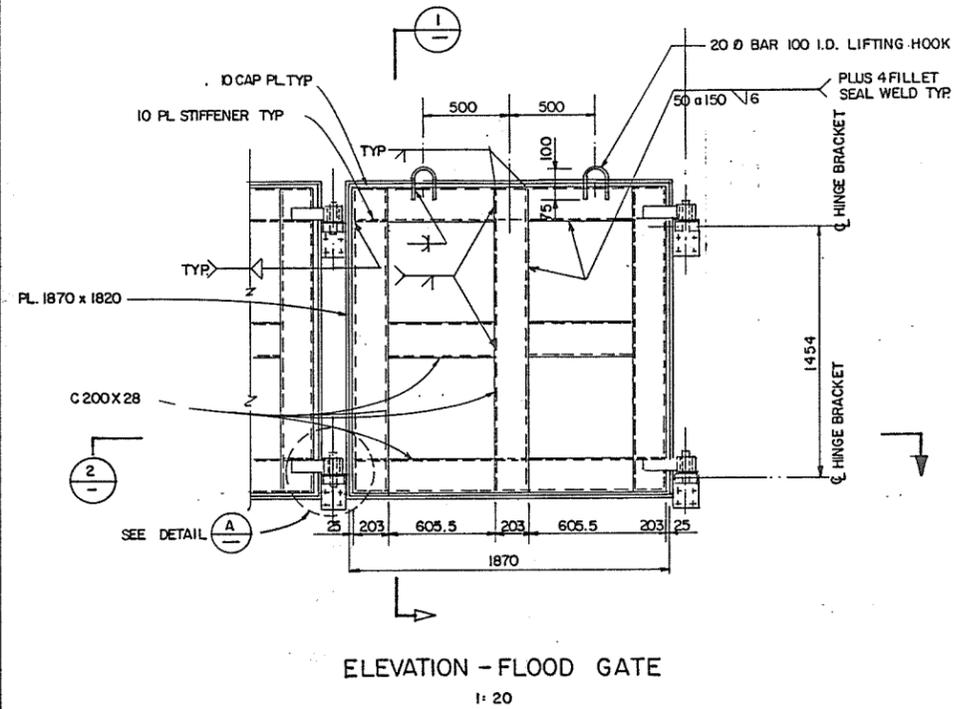
DWG. NO. V 43J-25-109

NO.	BY	REVISIONS	DATE
1	V.W.	AS CONSTRUCTED	25.4.88

RECOMMENDED	<i>R. H. Cameron</i> PROJECT MANAGER
DATE	July 14, 1988
APPROVED	<i>[Signature]</i> DIRECTOR, WATER MANAGEMENT BRANCH
DATE	1988-07-11

DESIGNED	V.W. / S.G.	SURVEYED	
DRAWN	V.W.	DATE	
CHECKED	S.G.	FILE NO.	0281550-C16
SCALE	AS SHOWN	DATE	JULY 1988
DWG. NO.	4793-16-9	SHEET	9 OF 26 SHEETS

280881 *[Signature]* July 11/88



ASSOCIATED ENGINEERING AE
DWG. NO. V 43 J - 25 - 110

DESIGNED	S.G./V.W.	SURVEYED
DRAWN	V.W.	DATE
CHECKED	S.G.	FILE NO. 0281550 - C 16
SCALE	AS SHOWN	DATE JULY 1988
DWG. NO.	4793-16-10	SHEET 10 OF 26 SHEETS

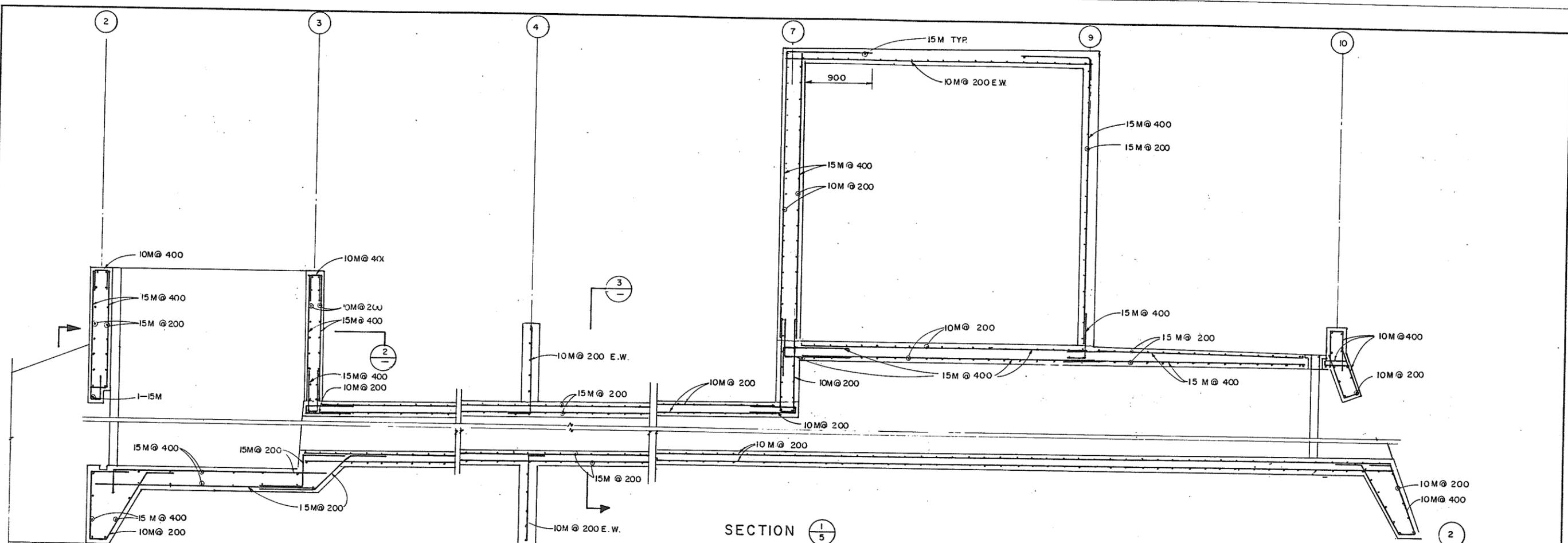
RECOMMENDED	R.H. Cameron PROJECT MANAGER
DATE	July 11, 1988
APPROVED	[Signature] DIRECTOR, WATER INVESTIGATIONS BRANCH
DATE	1988-07-11

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT No. 2 DISTRICT OF PITT MEADOWS CONTRACT No. 16
FENTON SLOUGH PUMPSTATION AND FLOODBOX
FLOODGATE DETAILS

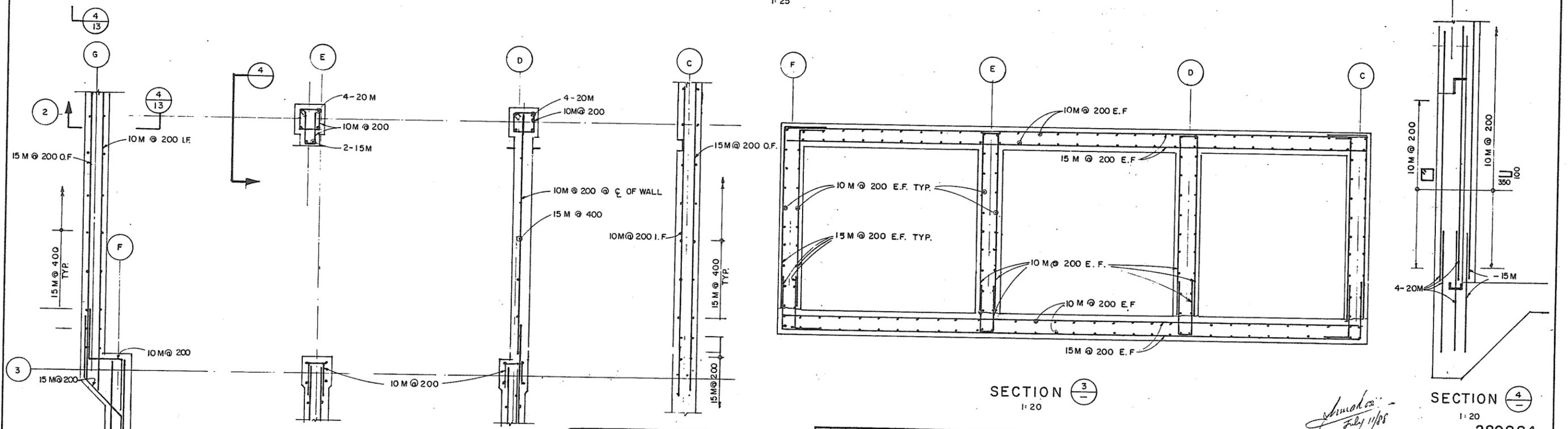
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DRAWN	V.W.	DATE
CHECKED	S.G.	FILE NO. 0281550 - C 16
SCALE	AS SHOWN	DATE JULY 1988
DWG. NO.	4793-16-10	SHEET 10 OF 26 SHEETS

Approved July 11/88

280882



SECTION 1/5
1:25



SECTION 2
1:20

SECTION 3
1:20

SECTION 4
1:20

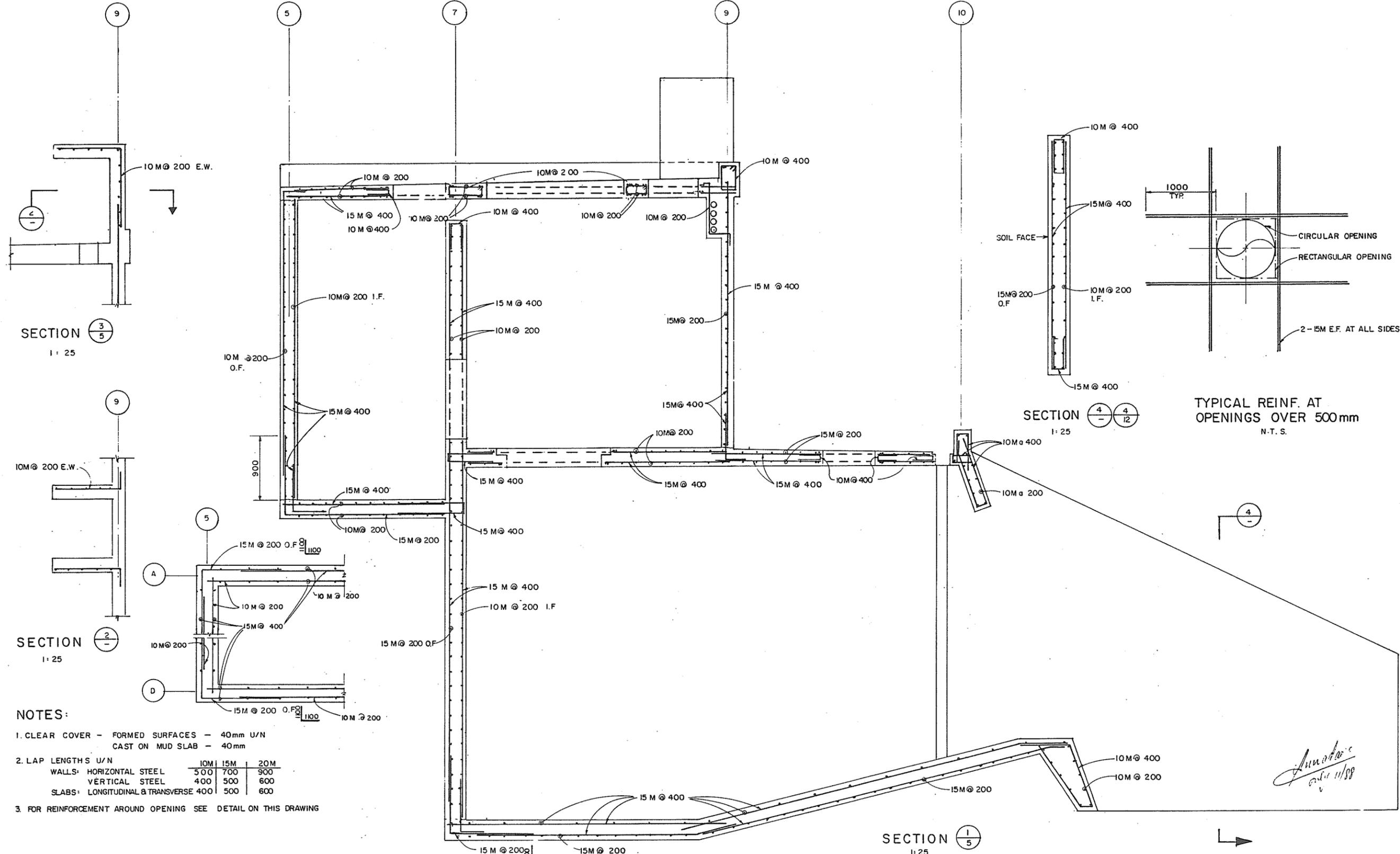
ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43 J - 25 - 112

NO.	BY	REVISIONS	DATE	RECOMMENDED	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED	SURVEYED
				DATE		PROJECT MANAGER	
1	V.W.	AS CONSTRUCTED	25.4.89	APPROVED	FENTON SLOUGH PUMPSTATION AND FLOODBOX REINFORCING - SHEET 1	CHECKED	FILE NO.
				DATE		D. B. H.	0281550 - C 16
				DATE		SCALE	DATE
				1988-07-11		AS SHOWN	JULY 1988
						DWG. NO.	SHEET 12 OF 26 SHEETS
						4793-16-12	

Amador
July 11/88

280884



SECTION $\frac{3}{5}$
1:25

SECTION $\frac{2}{5}$
1:25

SECTION $\frac{4}{12}$
1:25

SECTION $\frac{1}{5}$
1:25

TYPICAL REINF. AT
OPENINGS OVER 500mm
N.T.S.

NOTES:

- CLEAR COVER - FORMED SURFACES - 40mm U/N
CAST ON MUD SLAB - 40mm
- LAP LENGTHS U/N

	10M	15M	20M
WALLS: HORIZONTAL STEEL	500	700	900
VERTICAL STEEL	400	500	600
SLABS: LONGITUDINAL & TRANSVERSE	400	500	600
- FOR REINFORCEMENT AROUND OPENING SEE DETAIL ON THIS DRAWING

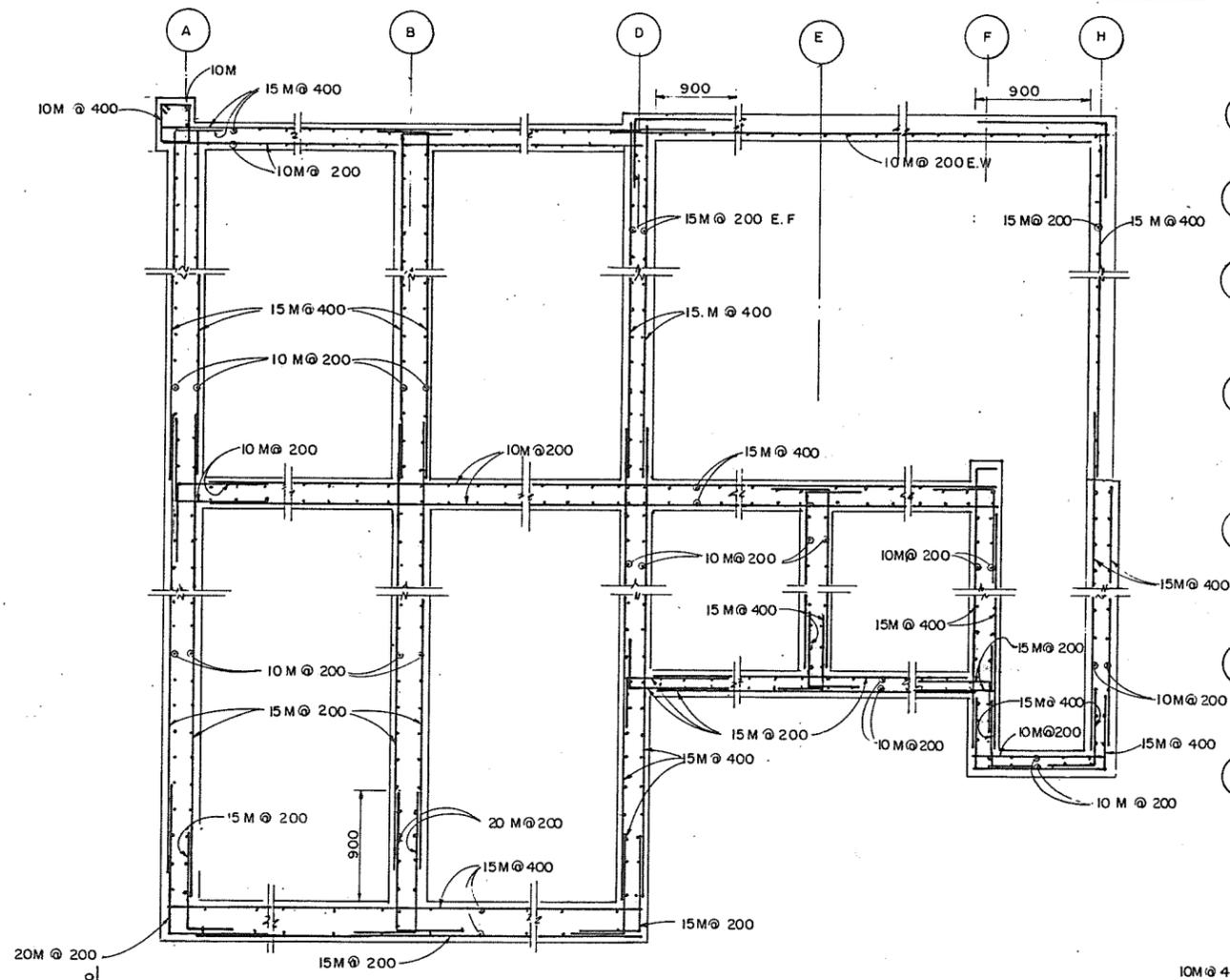
ASSOCIATED ENGINEERING

AE DWG. NO. V 43 J - 25 - 113

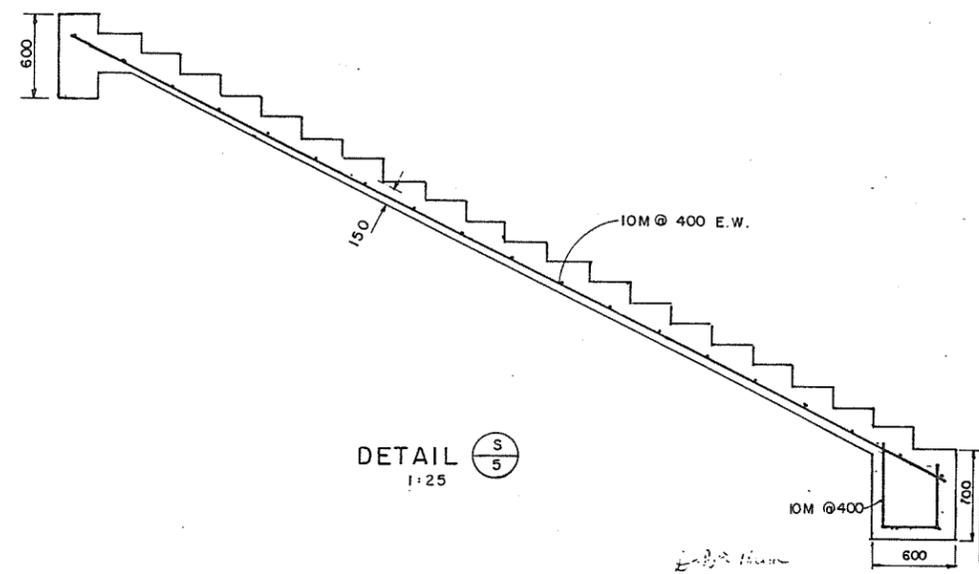
1	V.W.	AS CONSTRUCTED	25.4.88	RECOMMENDED	PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1984 AGREEMENT PROJECT NO 2 DISTRICT OF PITT MEADOWS CONTRACT NO 16 FENTON SLOUGH PUMPSTATION AND FLOODBOX REINFORCING SECTIONS - SHEET 2	DESIGNED	D.B.H.	SURVEYED	
	NO	BY	REVISIONS	DATE	DATE 1988-07-11		CHECKED	D.B.H.	FILE NO.	0281550-C16
						SCALE	AS SHOWN	DATE	JULY 1988	
						DWG. NO.	4793-16-13	SHEET	13	OF 26 SHEETS

280885

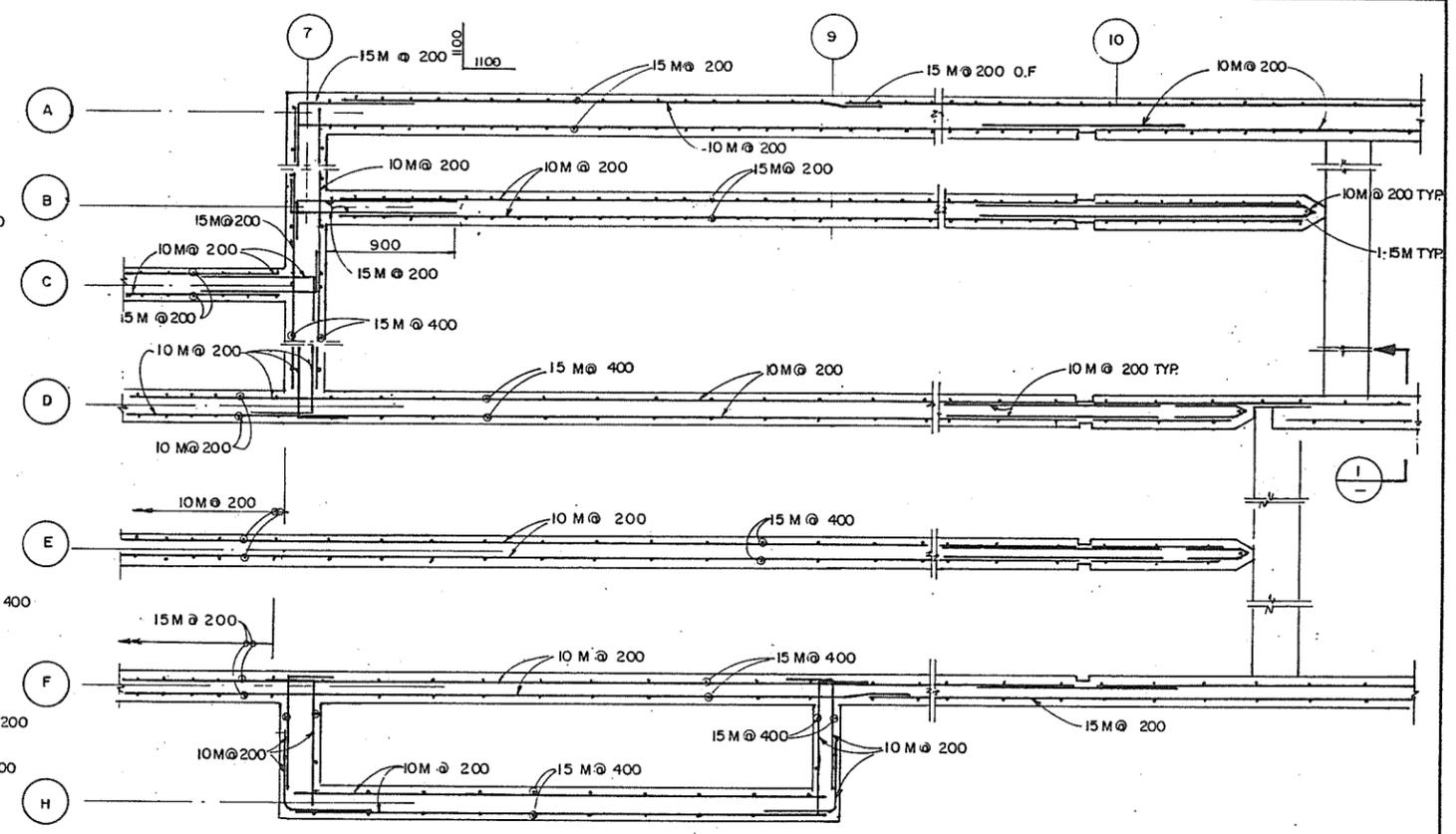
Signature
DATE 11/88



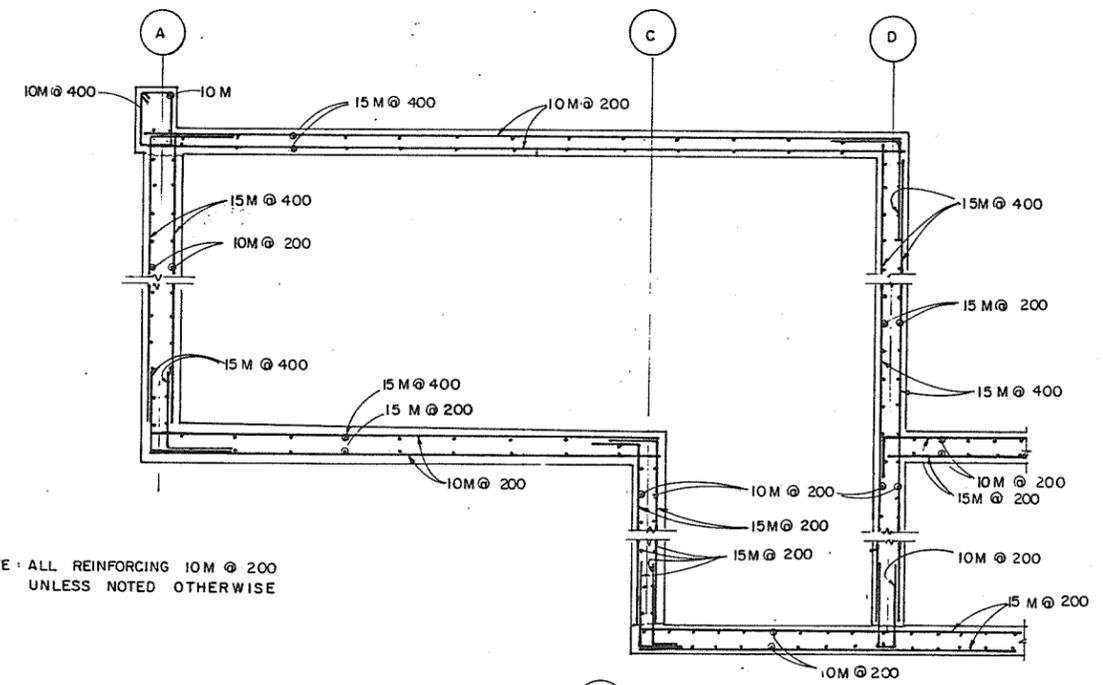
SECTION 1/5
1:25



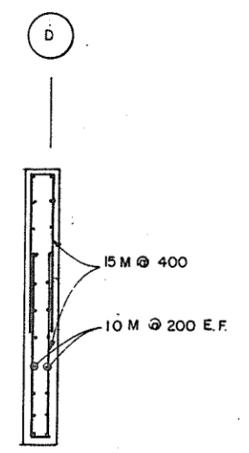
DETAIL S/5
1:25



INTAKE REINFORCING
1:25



SECTION 2/5
1:25



SECTION 1/5
1:25

NOTE: ALL REINFORCING 10M @ 200
UNLESS NOTED OTHERWISE

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V 43 J - 25 - 114

DESIGNED	D.B.H.	SURVEYED	
DRAWN	V.W.	DATE	
CHECKED	D.B.H.	FILE NO.	0281550-C16
SCALE	AS SHOWN	DATE	JULY 1988
DWG. NO.	4793-16-14	SHEET	14 OF 26 SHEETS

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

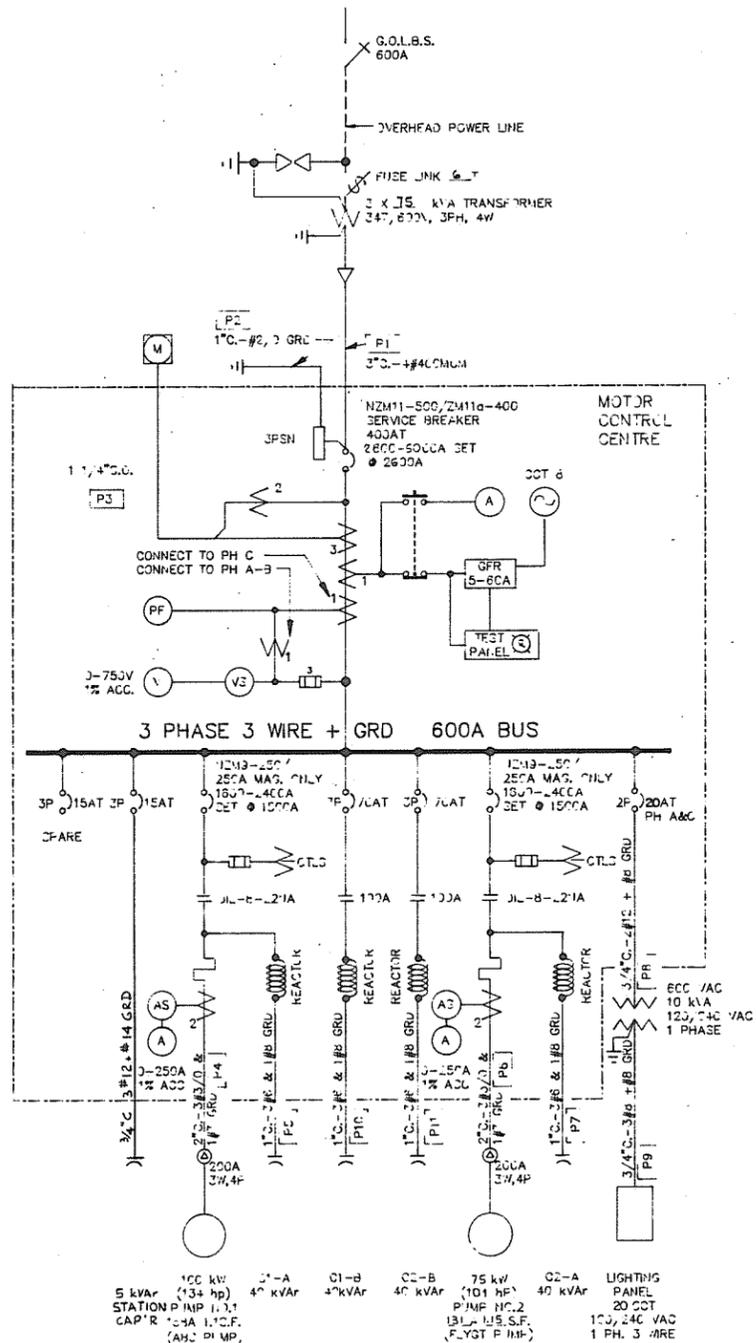
PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16
FENTON SLOUGH PUMPSTATION AND FLOODBOX
REINFORCING SECTIONS - SHEET 3

RECOMMENDED	DATE	APPROVED	DATE
	11/22/88		11/22/88

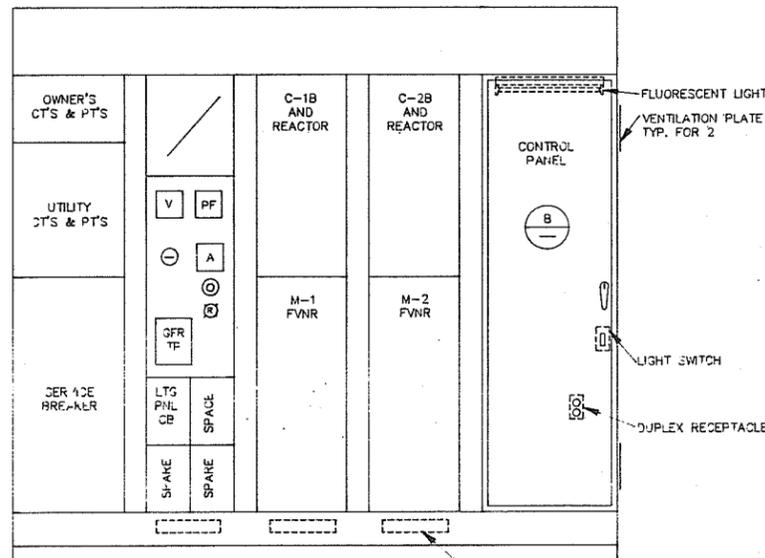
Amal
July 11/88

280886

B.C. HYDRO SERVICE
14.4 / 25 kV, 3 PHASE, 4 WIRE



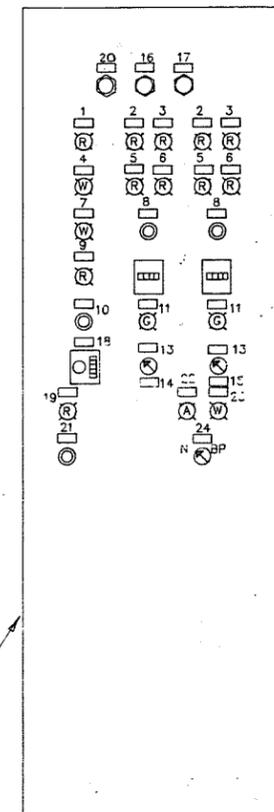
SINGLE LINE DIAGRAM



DETAIL - MOTOR CONTROL CENTRE

N.T.S.

LAYOUT NOT EXACTLY AS SHOWN; REFER TO KLOCKNER-MOELLER DWG #3CDN LOP463-18/88-5132



CONTROL PANEL DOOR LAYOUT

N.T.S.

1. HIGH LEVEL
2. MOTOR OVERLOAD
3. MOTOR HIGH TEMPERATURE
4. SECOND PUMP CALLED
5. MOTOR MOISTURE
6. BEARING HIGH TEMPERATURE
7. FIRST PUMP CALLED
8. RESET
9. LOW LEVEL
10. LEVEL ALARM RESET
11. RUNNING
12. UNUSED
13. HAND - OFF - AUTO
14. PUMP NO.1 (ABS)
15. PUMP NO.2 (FLYGT)
17. PUMP CONTROLS AND LEVEL ALARMS (FU3)
16. MISC. AND REMOTE ALARMS (FU2)
18. STRIP HEATERS
19. POWER FAILED
20. PUMP NO.2 MONITOR (FU1)
21. POWER FAILURE RESET
22. REMOTE ALARM TRIGGERED
23. REMOTE ALARM BYPASSED
24. REMOTE ALARM

NAMEPLATE LEGEND

DESCRIPTION	RECEPTACLE NO.	REMARKS
LIGHTS	1, 2	2 RECEPTACLES
TRASH SCREEN LIGHTS	3, 4	FAN
STRIP HEATERS	5, 6	MCC RELAY PANEL LIGHT AND RECEPTACLE
SPARE	7, 8	MCC RELAY PANEL CONTROL AND ALARM CIRCUITS
YARD LIGHT	9, 10	EXTERIOR SPOT RECEPTACLE AT KIOSK
SPOT LIGHT	11, 12	
SPARE	13, 14	TRASH SCREEN RECEPTACLES (2)
AUTOMATIC DIALER	15, 16	SPARE
SPARE	17, 18	SPARE
SPARE	19, 20	SPARE

PANEL SCHEDULE

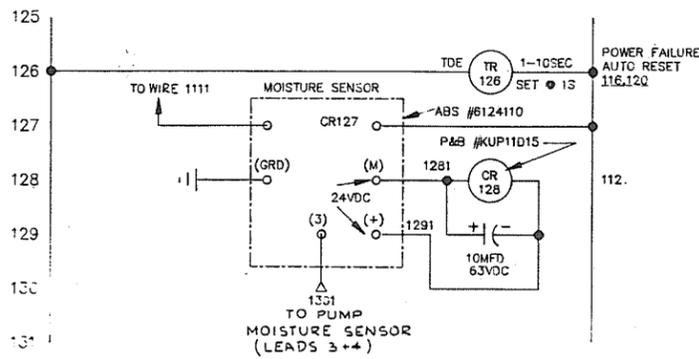
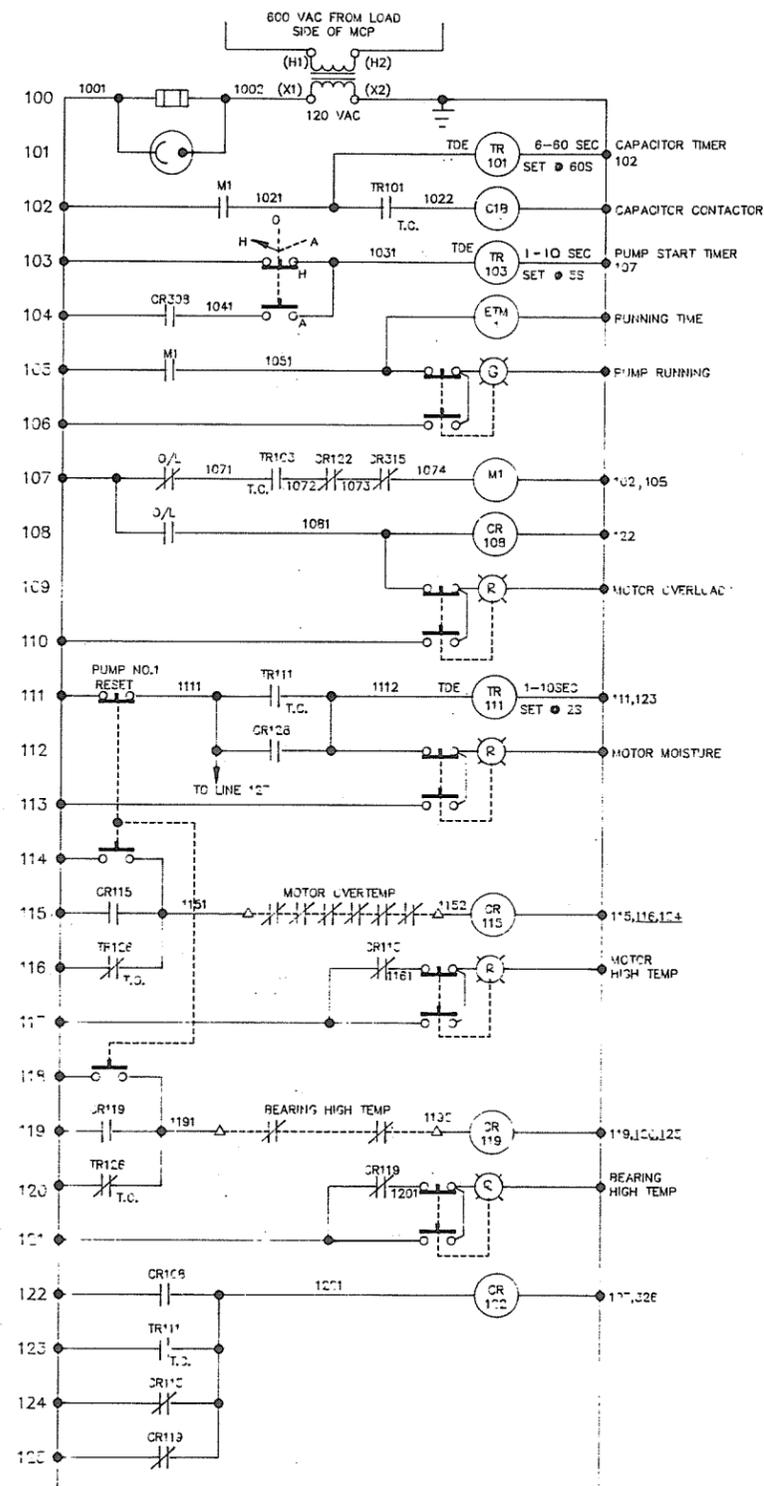
ASSOCIATED ENGINEERING

AE DWG. NO. V43J-40-101

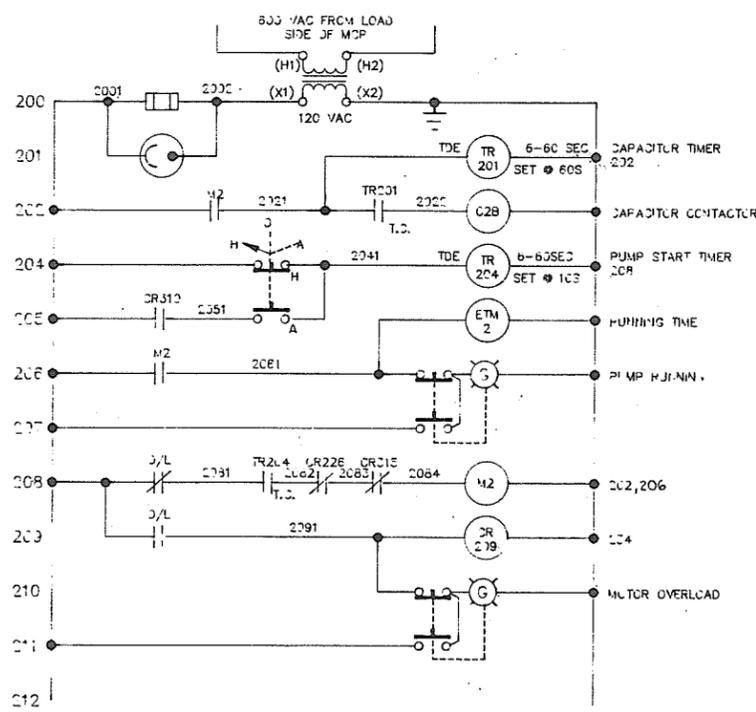
RECOMMENDED PROJECT MANAGER		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH FRASER RIVER FLOOD CONTROL 1968 AGREEMENT		DESIGNED JT	SURVEYED
DATE 1988-07-11		PROJECT NO 2 DISTRICT OF PITT MEADOWS CONTRACT NO		DRAWN DF	DATE
APPROVED		FENTON SLOUGH PUMPSTATION AND FLOODBOX		CHECKED	FILE NO. 02B1550-C 16
DATE 1988-07-11		SINGLE LINE DIAGRAM, MCC LAYOUT AND DETAILS		SCALE AS SHOWN	DATE JULY 1988
NO.	BY	REVISIONS	DATE	DWG. NO. 4793-16-16	SHEET 16 OF 26 SHEETS

280888

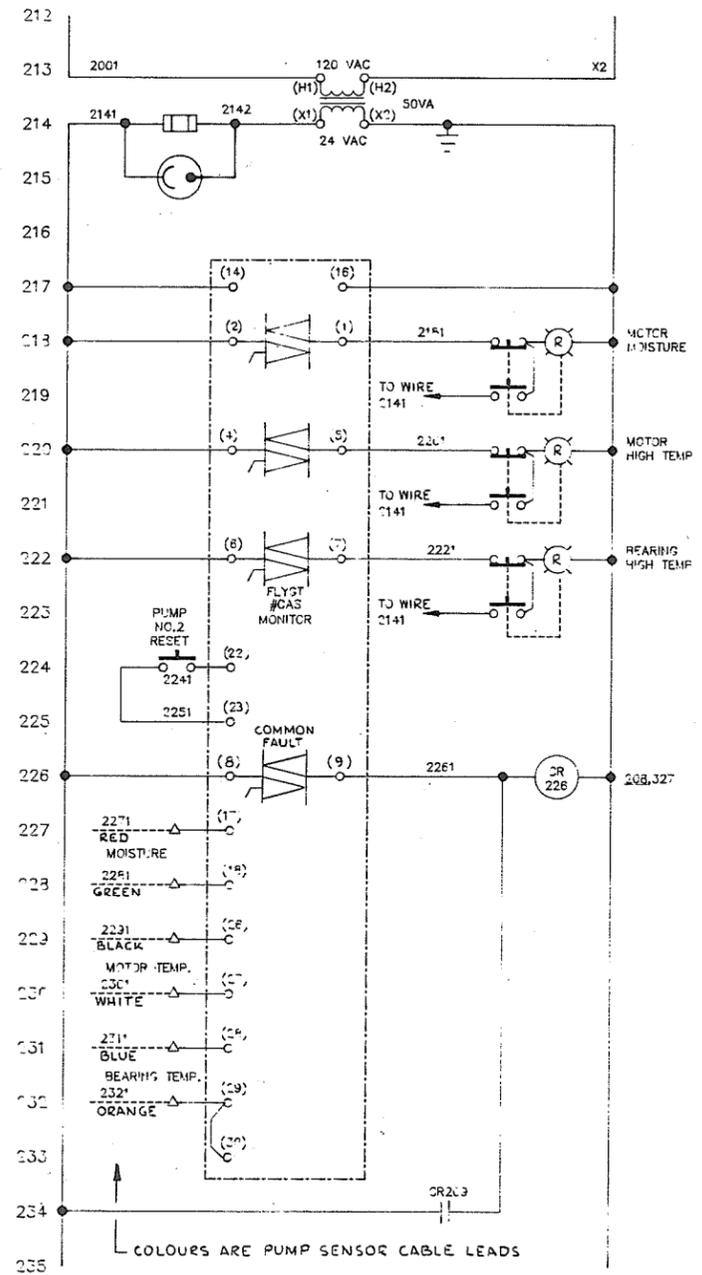
JULY 1988



PUMP NO.1 (ABS PUMP)



PUMP NO.2 (FLYGT PUMP)

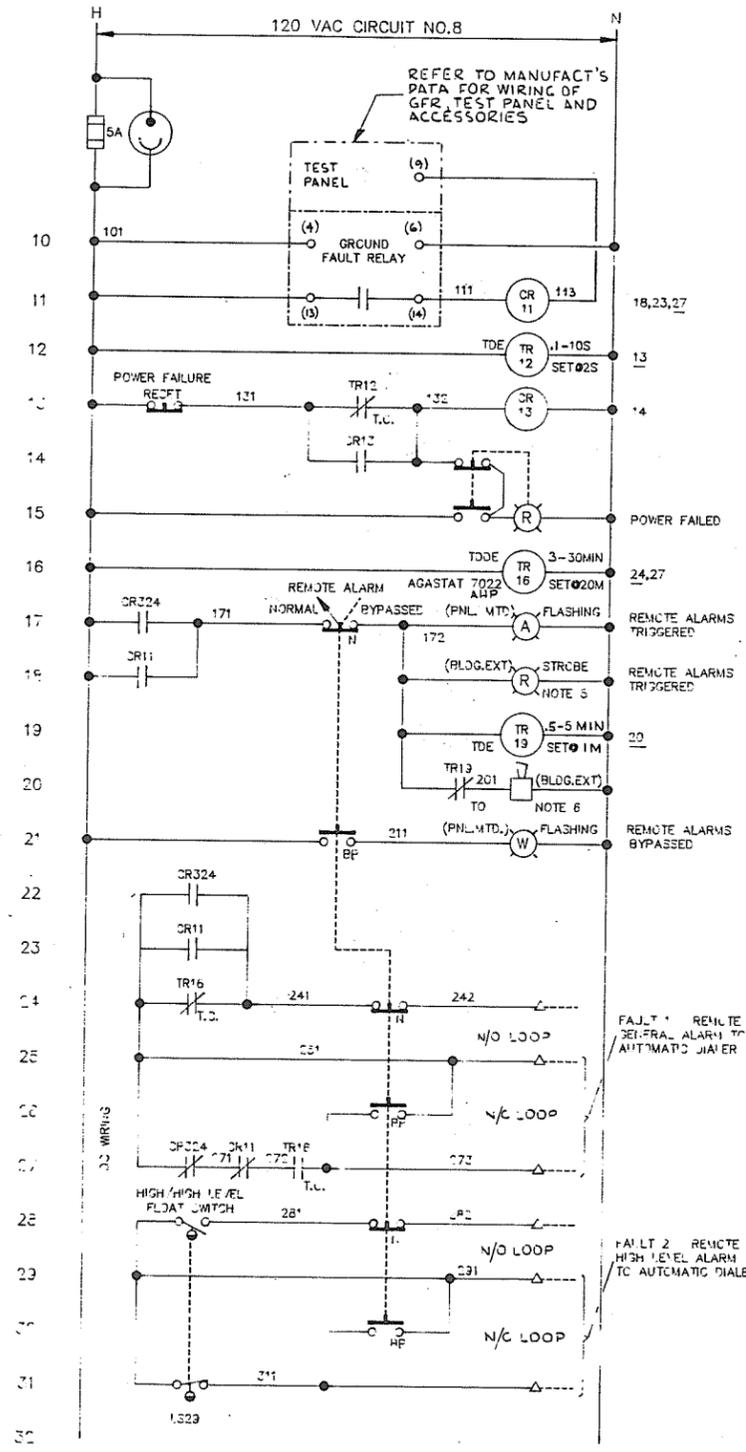


NOTE
FOR MAKE AND TYPES OF RELAYS REFER TO
KLOCKNER-MOELLER DWG. 3CDNWD 463-13/88-5132

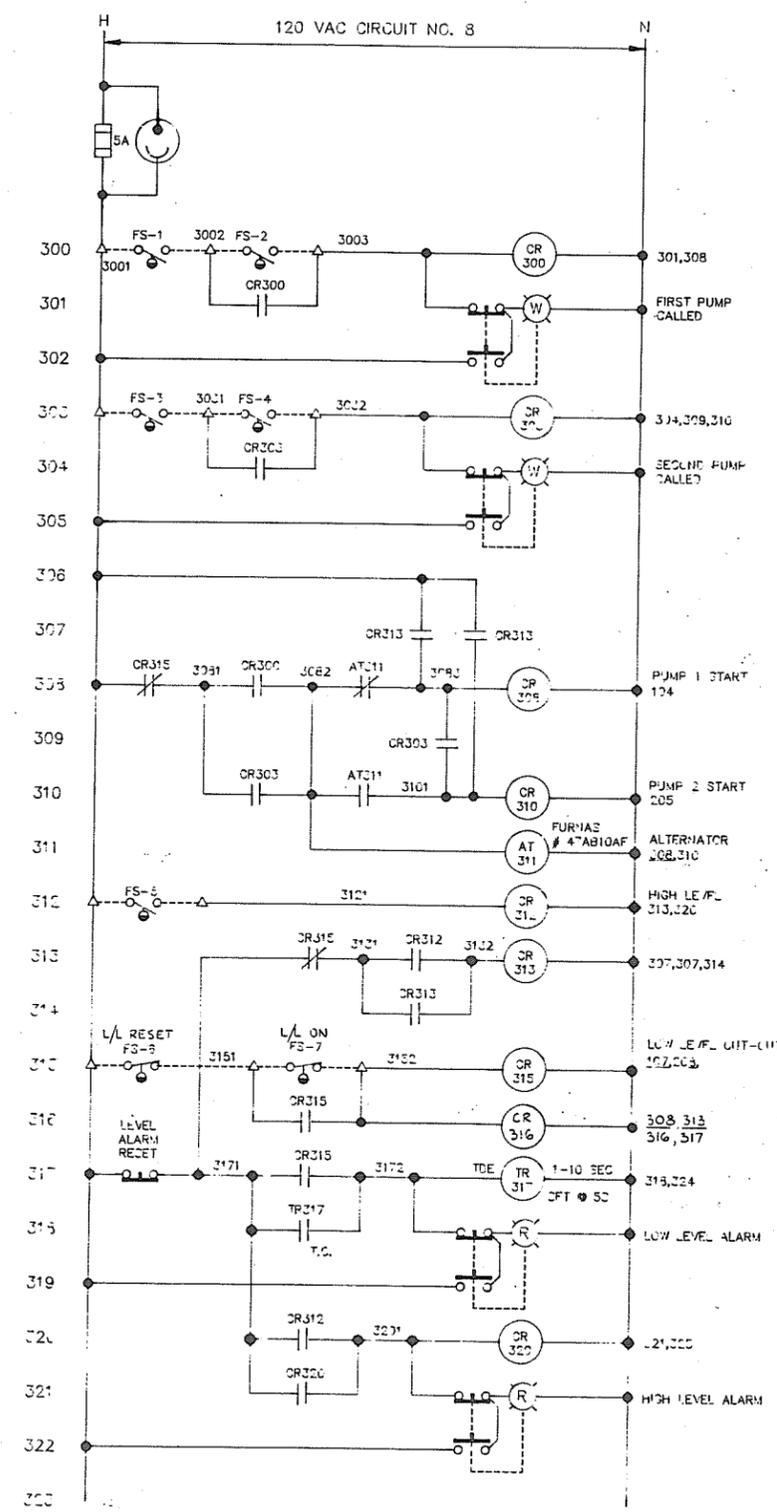
ASSOCIATED ENGINEERING **AE**
DWG. NO. V43J-40-102

RECOMMENDED PROJECT MANAGER		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT		DESIGNED JT	SURVEYED
DATE		PROJECT NO 2 DISTRICT OF PITT MEADOWS CONTRACT NO		DRAWN DF	DATE
APPROVED <i>[Signature]</i> DIRECTOR, WATER MANAGEMENT BRANCH		FENTON SLOUGH PUMPSTATION AND FLOODBOX		CHECKED <i>[Signature]</i>	FILE NO. 0281550-C 16
DATE 1988-07-11		PUMP CONTROL SCHEMATICS		SCALE NONE	DATE JULY 1988
NO. BY REVISIONS DATE				DWG. NO. 4793-16-17	SHEET 17 OF 26 SHEETS

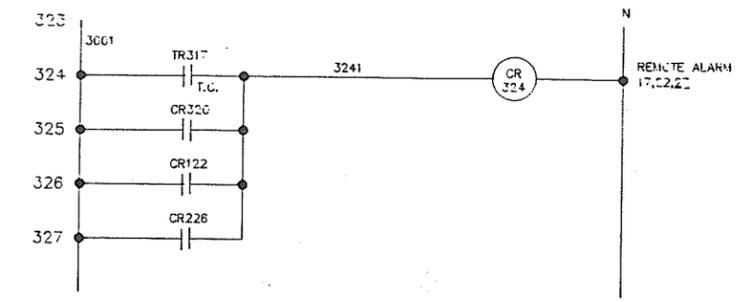
280889



MISC. AND REMOTE ALARM SCHEMATIC



COMMON PUMP CONTROL AND LEVEL ALARM SCHEMATIC



NOTE
FOR MAKE AND TYPES OF RELAYS REFER TO
KLOCKNER-MOELLER DWG. 3CPNWD 463-18/88-5132

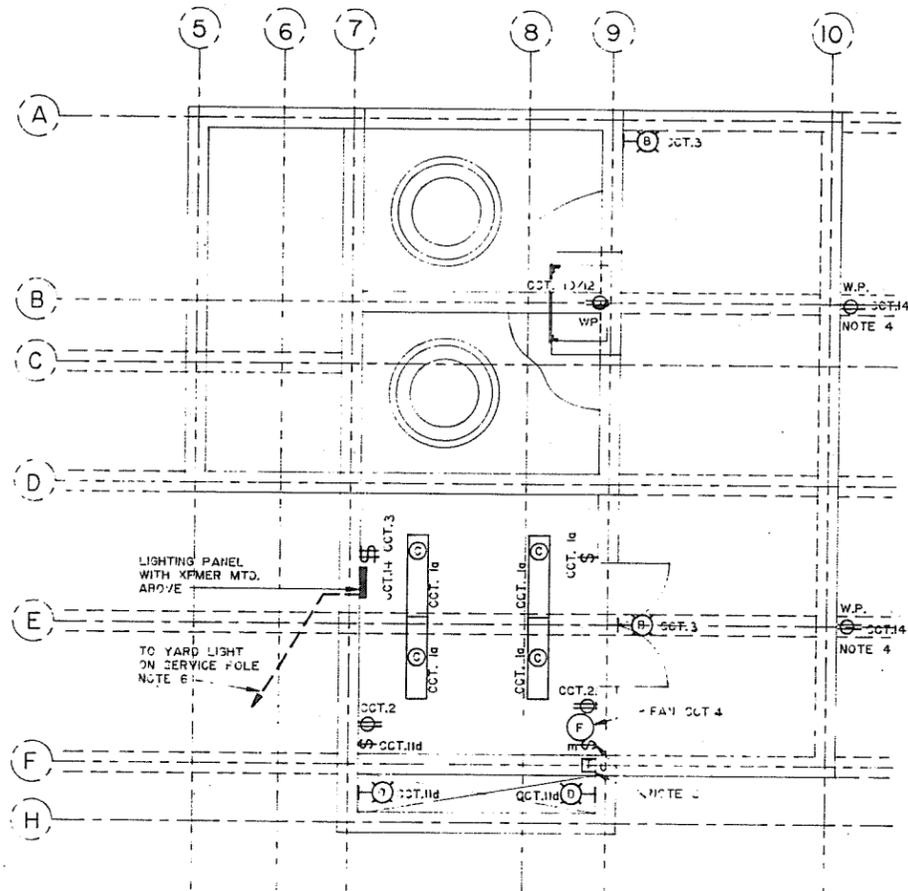
ASSOCIATED ENGINEERING **AE**
DWG. NO. V43J-40-103

NO.	BY	REVISIONS	DATE
1	AS	CONSTRUCTED BASED ON CONTRACTOR'S INFO.	05/05/89
		APPROVED	DATE 1988-07-11

RECOMMENDED	PROJECT MANAGER
DATE	
BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT	
PROJECT NO 2 DISTRICT OF PITT MEADOWS CONTRACT NO FENTON SLOUGH PUMPSTATION AND FLOODBOX LEVEL CONTROL & ALARM SCHEMATICS	

DESIGNED	JT	SURVEYED	
DRAWN	DF	DATE	
CHECKED		FILE NO.	0281550-C16
SCALE	NONE	DATE	JULY 1988
DWG. NO.	4793-16-18	SHEET	18 OF 26 SHEETS

280 890



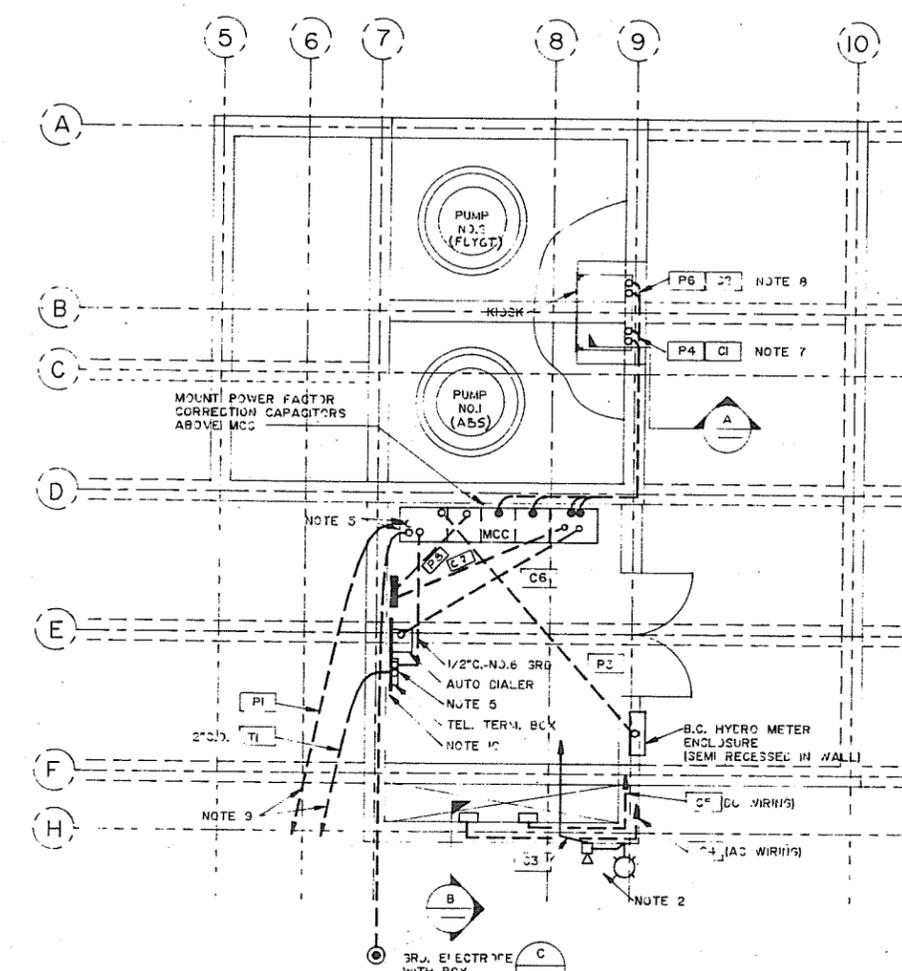
LIGHTING LAYOUT

NOTES

- CONDUIT RUNS SHOWN ONLY WHERE REQUIRED FOR CLARITY. CONTRACTOR SHALL SIZE AND ROUTE REMAINDER OF CONDUITS AS REQUIRED. NO CONDUITS OR BOXES SHALL BE INSTALLED EXPOSED, EXCEPT IN THE ELECTRICAL ROOM OR AS SHOWN ON THE DRAWINGS.
- MOUNT HORN AND WARNING LIGHT BELOW PARAPET. CONDUIT SHALL ENTER HORN THROUGH BACKSHIMS AND USE SILE BUSHING FOR NIPPLE TO WARNING LIGHT. WARNING LIGHT PULSAR MK4 WITH RED GLASS AND 21ARL 12VAC (AVAILABLE FROM ALLIED CONTROLS LTD. BIRNAPY P.J.) HEAVY DUTY HORN ELVARCO 876 WITH BACKBOX 120 VAC
- MANUAL MOTOR STARTER WITH HAND-OFF-AUTO SWITCH. WIRE COOLINGSTAT TO AUTO LES OF SWITCH. COOLINGSTAT SHALL BE MOUNTED ON TROUSER RACK ABOVE TRASH RACKS FACING WATER
- IMPORTANT
SEAL VOIDS AROUND CONDUCTORS WITH ULXSEAL
- INSTALL 1 1/4" FOR [PI] 30 #10 TECK, TERMINATING CONDUIT IN A PILASTER AT THE SERVICE POLE
- INSTALL A RED LAMBOC WARNING PLATE WITH MIN. 10mm LETTERING ABOVE THE 2 RECEPTACLES. TEXT TO READ:
THESE RECEPTACLES FOR ABS PUMP ONLY.
DO NOT UNPLUG WHILE PUMP IS RUNNING.
TURN POWER FACTOR CAPACITORS OFF BEFORE PUMP IS UNPLUGGED.
- INSTALL A RED LAMBOC WARNING PLATE WITH MIN. 10mm LETTERING ABOVE THE 2 RECEPTACLES. TEXT TO READ:
THESE RECEPTACLES FOR FLYGT PUMP ONLY.
DO NOT UNPLUG WHILE THE PUMP IS RUNNING.
TURN POWER FACTOR CAPACITORS OFF BEFORE PUMP IS UNPLUGGED.
- RUN TO SERVICE POLE (REFER TO DRAWING 4793-16-3) AND TERMINATE CONDUITS IN PILASTER.
- 100mm EXTERIOR GRADE PLYWOOD BACKBOARD, PAINTED, 1.2 x 1.2m FOR TELEPHONE TERMINAL BOX AND AUTOMATIC DIALER.

LUMINAIRE SCHEDULE

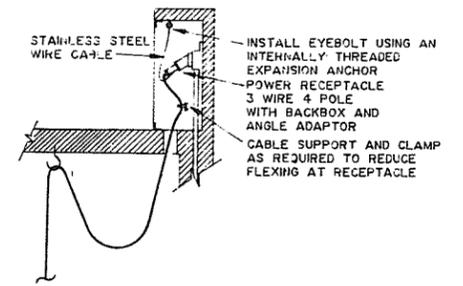
TYPE	DESCRIPTION	MOUNTING
A	400W HPS STREET LIGHT TYPE III DISTRIBUTION, 2/4 LAMP, PHOTOCELL, POLYCARBONATE REFRACTOR AND WIRE BASKET SYLVANIA 1XB225CS-4C (CC)	1.4m DAVIT ARM IN 7.6m AREA GRADE SYLVANIA #4 V.F.
B	70W HPS LUMINAIRE 2/4 LAMP AND INTEGRAL -30°C BALLAST HOLD PHASE "O" WFCAD70HP12GR-PJ-WPTP	WALL MOUNT BELOW CURB
C	3 X 40W FLUORESCENT, CW, RT, WITH LOW TEMPERATURE BALLASTS SYLVANIA KTA-77-13	SUSPEND FROM CEILING, BOTTOM OF FIXTURE AT 3m
D	WEATHERPROOF SPOTLIGHT 2/4 100W 130VOLT PAR 38 FLOODLAMP KEENE V4400	MOUNT 300mm ABOVE CURB



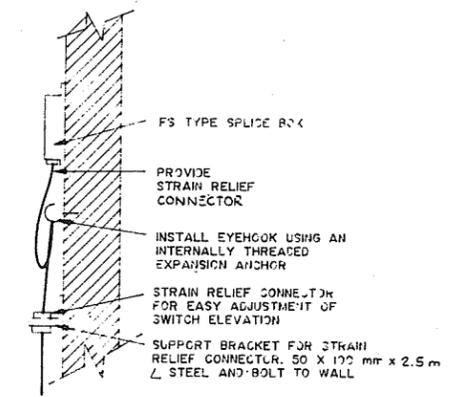
POWER AND CONTROL LAYOUT

CONTROL CONDUIT SCHEDULE

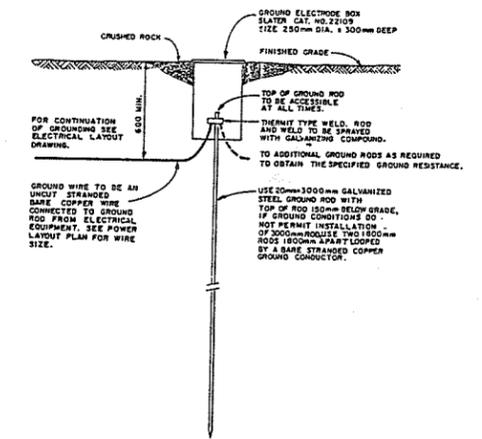
CI	3/4" C.	9 NO. 14	PUMP NO. 1 SENSORS (4 SPARE)
C2	3/4" C.	8 NO. 14	PUMP NO. 2 SENSORS (2 SPARE)
C3	3/4" C.	2 NO. 14 AND 3RL	EXTER. ALARM
C4	3/4" C.	10 NO. 14 AND GRD	LE/EL SWITCHES (2 SPARE)
C5	3/4" C.	3 NO. 14	REMOTE ALARM LE/EL SWITCH
C6	3/4" C.	8 NO. 14	REMOTE ALARM AUTO DIALER (4 SPARE)
C7	3/4" C.	5 NO. 14 AND GRD	CIRC. 5, 6 & 8



PLUG-IN PUMP CONNECTION



TYPICAL LEVEL SWITCH SUPPORT



GROUND ROD INSTALLATION

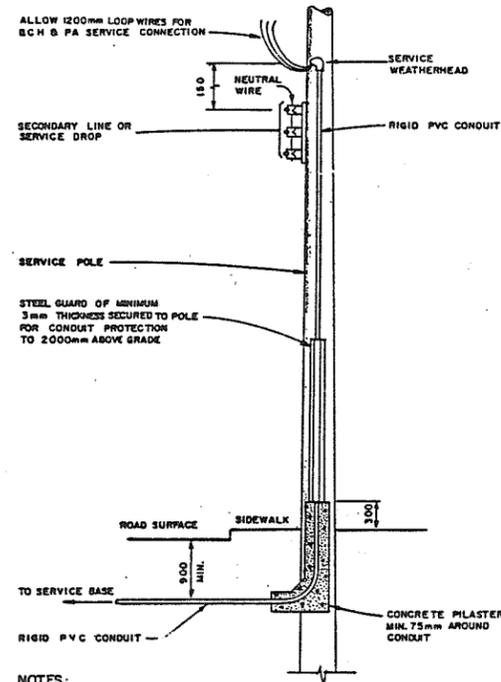
ASSOCIATED ENGINEERING **AE**
DWG. NO. V43J-40-104

NO.	BY	REVISIONS	DATE
1		AS CONSTRUCTED BASED ON CONTRACTOR'S INFO.	05/15/88

RECOMMENDED	PROJECT MANAGER
DATE 11/12/87	
APPROVED <i>[Signature]</i>	DIRECTOR, WATER MANAGEMENT BRANCH
DATE 1988-07-11	

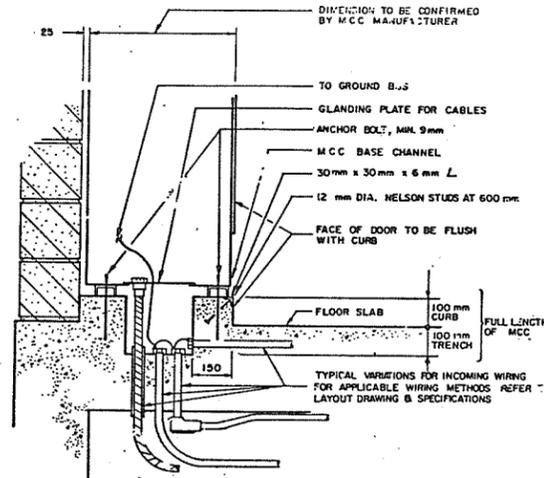
DESIGNED	JT	SURVEYED	
DRAWN	DF	DATE	
CHECKED		FILE NO.	0281550-C16
SCALE	AS SHOWN	DATE	JULY 1988
DWG. NO.	4793-16-19	SHEET	19 OF 26 SHEETS

280891 July 5, 1988



- NOTES:
1. FOR CONDUIT AND CONDUCTOR SIZE REFER TO ELECTRICAL DRAWINGS.
 2. ALL DIMENSIONS ARE IN MILLIMETRES.

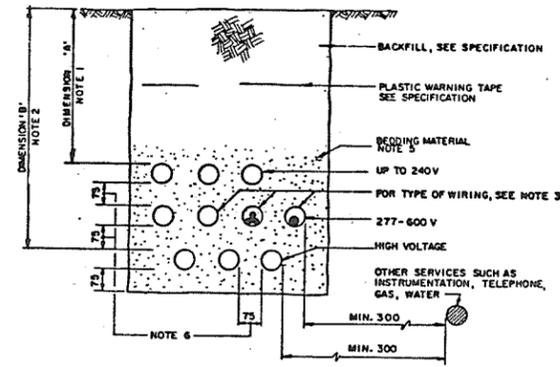
CONSTRUCTION STANDARD
SERVICE CONDUIT ON POLE



SECTION THROUGH MCC, CURB & FLOOR TRENCH

- NOTES:
1. ANCHOR BOLTS SHALL BE EMBEDDED 150mm INTO CONCRETE. PROJECTION ABOVE CURB AND SPACING SHALL BE CONFIRMED BY MCC MANUFACTURER. CENTRE TO CENTRE SPACING SHALL BE NOT MORE THAN 500mm.
 2. GLANDS AND SLEEVES SHALL BE PROVIDED FOR ALL CABLES.
 3. ALL CONDUITS SHALL BE CONNECTED TO MOTOR CONTROL CENTRE GROUND BUS AS INDICATED.
 4. WHERE TRENCH IS PROVIDED FOR FUTURE MOTOR CONTROL CENTRE EXPANSION, AS SHOWN ON THE DRAWING, IT SHALL BE COVERED BY 6mm CHECKER PLATE BOLTED TO THE TOP OF THE CURB USING THE ANCHOR BOLTS.
 5. ALL DIMENSIONS ARE IN MILLIMETRES.
 6. BASE DETAILS OF MCC VARY FROM MANUFACTURER TO MANUFACTURER. MOUNTING METHOD SHOWN SHALL BE CONFIRMED WITH MANUFACTURER PRIOR TO START OF CONSTRUCTION.

CONSTRUCTION STANDARD
MOTOR CONTROL CENTRE MOUNTING DETAIL



- NOTES:
1. UNLESS OTHERWISE NOTED OR SPECIFIED, DIMENSION 'A' SHALL BE 600mm WHERE NOT SUBJECTED TO VEHICULAR TRAFFIC 750mm WHERE SUBJECTED TO VEHICULAR TRAFFIC.
 2. UNLESS OTHERWISE NOTED OR SPECIFIED, DIMENSION 'B' SHALL BE 750mm WHERE NOT SUBJECT TO VEHICULAR TRAFFIC 1000mm WHERE SUBJECT TO VEHICULAR TRAFFIC.
 3. DIRECT BURIAL CABLE, TYPE II DUCT, RIGID STEEL CONDUIT OR RIGID PVC CONDUIT (CSA C22-2 N°136), AS SPECIFIED.
 4. CABLE SHALL BE SLIGHTLY SHAKED TO ALLOW FOR FUTURE TAKE UP AND SETTLING.
 5. THOROUGHLY COMPACTED SAND OR 6mm MINUS GRAVEL.
 6. DIRECT BURIAL CABLE REQUIRES SPACING OF MINIMUM 300mm BETWEEN PRIMARY AND SECONDARY CABLES.
 7. ALL DIMENSIONS ARE IN MILLIMETRES.

CONSTRUCTION STANDARD
DIRECT BURIED WIRING

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-40-105

NO.	BY	REVISIONS	DATE
1	VW	AS CONSTRUCTED	25.4.88

RECOMMENDED	<i>R.M. Cameron</i> PROJECT MANAGER
DATE	July 11, 1988
APPROVED	<i>[Signature]</i> DIRECTOR, WATER INVESTIGATIONS BRANCH
DATE	1988-07-11

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1988 AGREEMENT

PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO 16
FENTON SLOUGH PUMPSTATION AND FLOODBOX
ELECTRICAL DETAILS

DESIGNED	JT	SURVEYED	
DRAWN	DF	DATE	
CHECKED		FILE NO.	0281550-C16
SCALE		DATE	JULY 1988
DWG. NO.	4793-16-20	SHEET	20 OF 26 SHEETS

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ENCLOSURE

- ← POWER SERVICE ENTRANCE
- M METER
- MAIN DISTRIBUTION PANEL
- POWER PANEL
- LIGHTING PANEL
- SPLR SPLITTER
- ← TELEPHONE SERVICE ENTRANCE
- TELEPHONE CABINET
- TELEPHONE TERMINAL BOARD
- SW1 SWITCH SINGLE POLE, FOR FIXTURE GROUP
- SW2 SWITCH, TWO POLE
- SW3 SWITCH, THREE WAY
- SW4 SWITCH, FOUR WAY
- SWWP SWITCH, WEATHERPROOF
- SWEP SWITCH, EXPLOSION PROOF
- SWP SWITCH, WITH PILOT LIGHT
- SWK SWITCH, KEY OPERATED
- SWO SWITCH, DOOR OPERATED
- SWRC SWITCH, REMOTE CONTROL (LOW VOLTAGE)
- PE PHOTO ELECTRIC CELL
- RC REMOTE CONTROL RELAY IN OUTLET OR JUNCTION BOX (LOW VOLTAGE)
- CONDUIT RUN ON SURFACE, IN WALL, BEHIND CEILING
- RIGID CONDUIT IN FLOOR SLAB (OR BELOW GRADE WHEN OUTSIDE OF BUILDING)
- AS.S HOMERUN (PANEL AND CIRCUIT IDENTIFICATION)
- C.O. CONDUIT ONLY
- CONDUIT, CAPPED FOR FUTURE USE
- MI. 1-25mm² MINERAL INSULATED CABLE, SINGLE CONDUCTOR 25mm²
- CONDUIT GOING DOWN (SEE LOWER FLOOR PLAN)
- CONDUIT GOING UP (SEE UPPER FLOOR PLAN)
- BARE GROUND WIRE IN FLOOR SLAB OR BELOW GRADE OUTSIDE OF BUILDING
- JUNCTION BOX WITH SUFFICIENT WIRE SPACE, OR CONDULET WHEN SPECIFIED
- GROUND ELECTRODE W/OUT BOX
- CONDUIT SEAL
- CABLE TERMINATION (CABLE DOTTED)
- A20 CIRCUIT 20, PANEL A
- FLEXIBLE CONDUIT
- CABLE OR CONDUIT DESIGNATIONS
- P POWER
- C CONTROL
- H HEATING
- T TELEPHONE
- I INSTRUMENTATION

- FLUORESCENT LIGHTING FIXTURE } ENCLOSED NUMBER REFERS TO TYPE (SEE FIXTURE SCHEDULE)
- LIGHTING FIXTURE
- 2-LAMP BALLAST FOR HID LAMPS
- 1-LAMP BALLAST FOR HID LAMP
- FLOOD OR SPOT LIGHT, WITH DIRECTION AS SHOWN
- PILE MOUNTED FIXTURE
- EXIT LIGHT, WITH SIGN DIRECTION AS SHOWN
- EMERGENCY LIGHTING UNIT C/W BATTERY PACK & CHARGER, NUMBER OF ARROWS INDICATES NUMBER OF INTEGRAL MTD. LIGHT HEADS
- B 'R' INDICATES D.C. CIRCUIT FOR REMOTE HEADS etc.
- SINGLE RECEPTACLE ON CIRCUIT 4
- DUPLEX RECEPTACLE ON CIRCUIT 2
- SPECIAL RECEPTACLE (e.g. 30A)
- DUPLEX SPLIT RECEPTACLE, TOP PART FED VIA SWITCH
- DUPLEX SPLIT RECEPTACLE ON CIRCUIT 2 AND 4
- DUPLEX RECEPTACLE, WEATHERPROOF
- TWIST LOCK RECEPTACLE
- SHAVER RECEPTACLE, 1350mm ABOVE FLOOR
- FLOOR BOX ONLY (FLUSH WITH FINISHED FLOOR)
- FLOOR BOX C/W FLUSH MTD. SINGLE RECEPTACLE & COVER
- POWER RECEPTACLE, 3 PHASE
- SPECIAL PURPOSE OUTLET
- CLOCK OUTLET
- TELEPHONE OUTLET
- MOTOR, 5kW, MI ON MOTOR SCHEDULE
- GENERATOR, 250kW, G-1 ON SCHEDULE
- ELECTR. OPERATED EQUIPMENT C/W TERMINAL CONNECTION BOX (SEE SCHEDULE)
- BUZZER
- ALARM HORN
- SOLENOID VALVE (PS = PRESSURE SWITCH, FS = FLOW SWITCH, VS = VIBRATION SWITCH, ZS = LIMIT SWITCH, LS = LEVEL SWITCH.)
- WATER HEATER
- THERMOSTAT, LOW VOLTAGE
- THERMOSTAT FOR HEATING PURPOSES,
- THERMOSTAT FOR COOLING PURPOSES,
- PRODUCTS OF COMBUSTION DETECTOR
- HEAT DETECTOR
- FIRE ALARM BREAKGLASS STATION
- FIRE ALARM BELL
- CONTROL STATION (SEE STARTER SCHEDULE)
- SELECTOR SWITCH
- MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
- DISCONNECT SWITCH
- FUSIBLE DISCONNECT SWITCH
- MAGNETIC MOTOR STARTER C/W THERMAL OVERLOAD PROTECTION
- COMBINATION MAGNETIC MOTOR STARTER C/W THERMAL OVERLOAD PROTECTION
- CIRCUIT BREAKER, 3 PHASE 500A TRIP SETTING
- 3 POLE MOTOR CIRCUIT PROTECTOR WITH A CONTINUOUS RATING OF 7 AMPERE.
- 3 POWER TRANSFORMERS, 1 PHASE, 100 kVA EACH
- CURRENT TRANSFORMERS FOR 3 PHASE METERING
- POTENTIAL TRANSFORMERS FOR 3 PHASE METERING
- FUSES, 3 PHASE
- AS = AMMETER SELECTOR SWITCH, VS = VOLTMETER SELECTOR SWITCH
- A = AMMETER, V = VOLTMETER

- GROUND DETECTOR
- CONTACTOR (STARTER) WITH COIL (NUMBER INDICATES EEMAC SIZE)
- THERMAL OVERLOAD RELAY
- MOTOR, 150 kW
- CAPACITOR FOR PF CORRECTION
- HEATER
- CIRCUIT BREAKER, 2 POLE, IS A COMMON TRIP ON CIRCUIT 6 & 8
- SOLID NEUTRAL IN PANEL
- LIGHTNING ARRESTER
- FUSED CUTOFF
- GGDS GROUP OPERATED DISCONNECT SWITCH
- LOAD BREAK INTERRUPTER
- FUSED INTERRUPTER
- UTILITY METER
- GROUND
- TRANSFORMER
- FUSE ASSEMBLY 15A SLOW BLOW
- FUSE ASSEMBLY WITH INDICATING LIGHT
- A = AMMETER, V = VOLTMETER
- COIL OF STARTER (READ NOTE 1)
- COIL OF CONTROL RELAY (READ NOTE 1)
- PILOT LIGHT, RED LENS
- CONTACTS NORMALLY OPEN (DE-ENERGIZED)
- CONTACTS, NORMALLY CLOSED (DE-ENERGIZED)
- PUSHBUTTON, WITH NORMALLY OPEN CONTACTS
- PUSHBUTTON, WITH NORMALLY CLOSED CONTACTS
- SOLENOID VALVE
- ELAPSED TIME METER
- HORN (B = BUZZER)
- NOTES:
- 1 SEE LINE REFERENCE NO'S FOR ASSOCIATED CONTACTS.
- TDE TIME DELAY RELAY WITH DELAY RANGE OF 0-30 SECONDS AFTER ENERGIZATION BEFORE TIMED CONTACTS ARE ACTUATED.
- TDDE TIME DELAY RELAY WITH DELAY RANGE OF 0-10 MINUTES AFTER DEENERGIZATION BEFORE TIMED CONTACTS ARE ACTUATED.
- CONTACT OF TIME DELAY RELAY TR5 TIMED TO OPEN 30 SECONDS AFTER TR5 IS ENERGIZED AND CLOSE INSTANTANEOUSLY WHEN TR5 IS DEENERGIZED.

- TR6 CONTACT OF TIME DELAY RELAY TR6 TO OPEN INSTANTANEOUSLY WHEN TR6 IS ENERGIZED AND TIMED TO CLOSE AFTER 10 MINUTES DELAY WHEN TR6 IS DEENERGIZED
- INSTANTANEOUS CONTACT (NOT TIME DELAYED) OF TIME DELAY RELAY TR5.
- SELECTOR SWITCH CONTACTS (SIMPLE FUNCTIONS)
- SELECTOR SWITCH CONTACTS (MORE COMPLEX FUNCTIONS)
- SELECTOR SWITCH SSI WITH CONTACT N2 4
- DIODE
- RESISTOR, 1000 OHMS, 5 WATTS
- VARIABLE RESISTOR
- REACTOR
- CAPACITOR
- LIMIT SWITCH, OPERATING AT OPEN END OF CONTROL VALVE STROKE
- LIMIT SWITCH, OPERATING AT CLOSED END OF CONTROL VALVE STROKE
- SWITCH CONTACT POSITIONS (OPEN OR CLOSED) ARE SHOWN IN CLOSED VALVE POSITION
- FLOW SWITCH
- PRESSURE SWITCH (CLOSES ON RISING PRESSURE, OPENS ON FALLING PRESSURE)
- PRESSURE SWITCH (OPENS ON RISING PRESSURE, CLOSES ON FALLING PRESSURE)
- LIQUID LEVEL SWITCH
- LIMIT SWITCH
- HEATING THERMOSTAT (CLOSES ON FALLING TEMPERATURE)
- COOLING THERMOSTAT (CLOSES ON RISING TEMPERATURE)
- WIRES, CONNECTED
- WIRES, NOT CONNECTED
- WIRE WITH WIRE NUMBER
- FIELD CONNECTION (IF USED)
- REFERENCE LINE NO'S (ON LEFT SIDE OF SCHEMATIC)
- LINE REFERENCE NO'S PERTAINING TO CONTACTS OF RELAY 5 (ON RIGHT SIDE OF SCHEMATIC) 10 B 13 NC CONTACTS; 17 B 213 NO CONTACTS; 10 & 213 ISOLATED CONTACTS; 15-17 TYPE 'C' CONTACTS (1 NO.-N.C.)

ASSOCIATED ENGINEERING

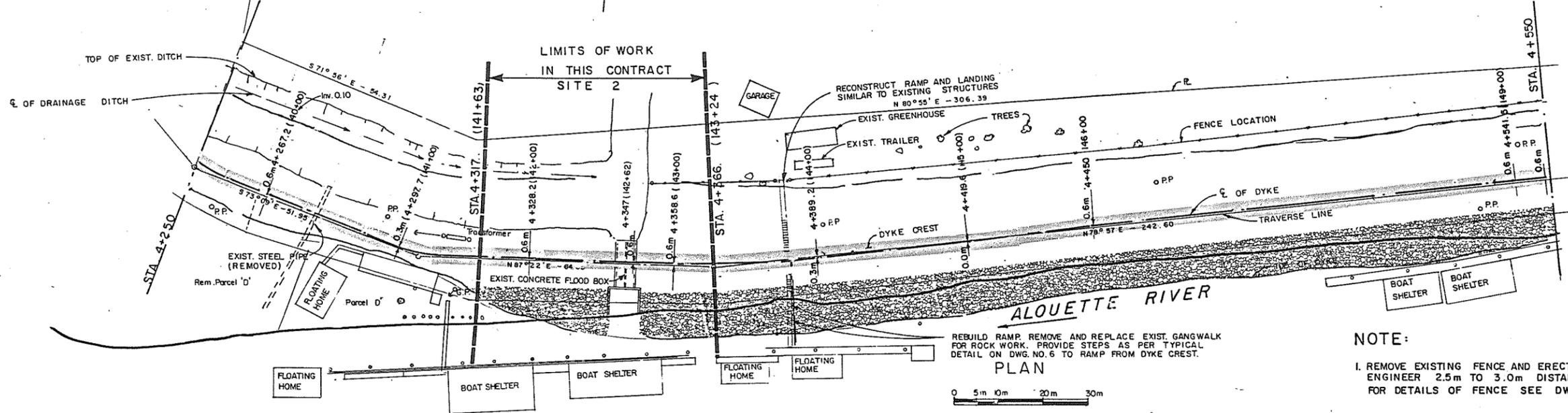
AE DWG. NO. V43J-40-106

RECOMMENDED PROJECT MANAGER	DATE
APPROVED	DATE 1988-07-11
DIRECTOR WATER INVESTIGATIONS BRANCH	

BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA, BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL AGREEMENT
 PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 45
 FENTON SLOUGH PUMPSTATION AND FLOODBOX
 ELECTRICAL SYMBOLS

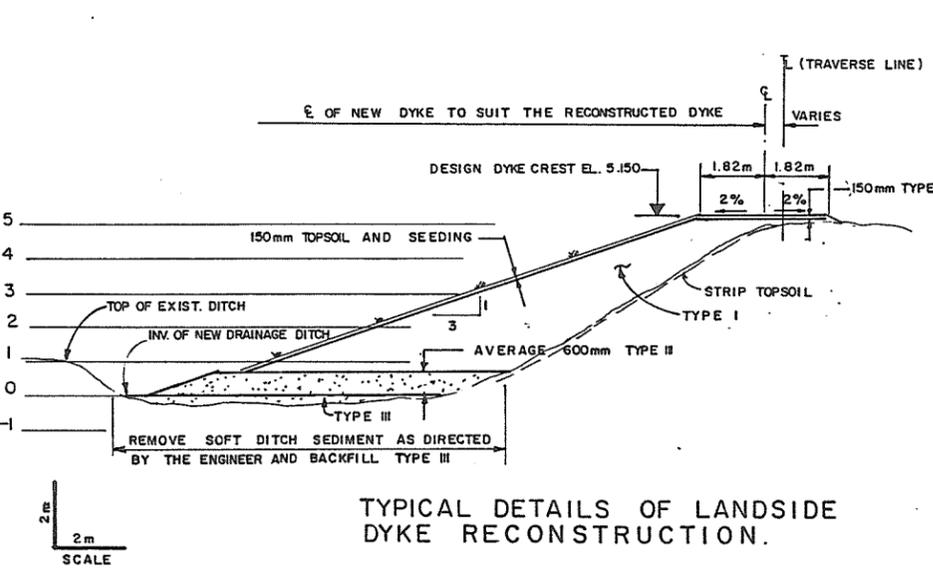
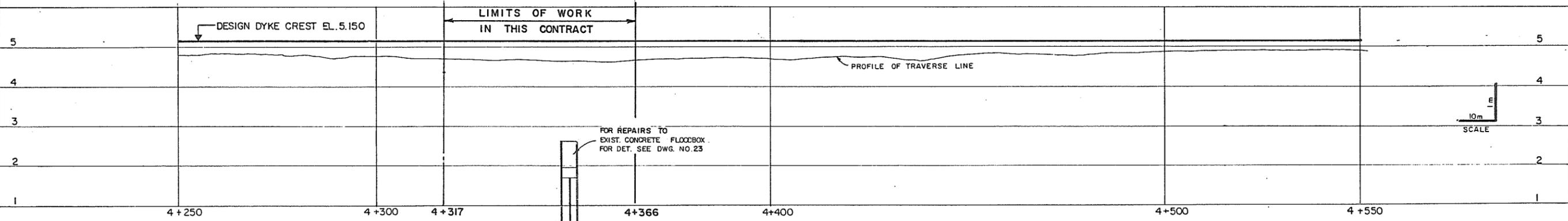
DESIGNED JT	SURVEYED
DRAWN DF	DATE
CHECKED	FILE NO. 02B1550-C16
SCALE	DATE JULY 1988
DWG. NO. 4793-16-21	SHEET 21 OF 26 SHEETS

280893



REBUILD RAMP. REMOVE AND REPLACE EXIST. GANGWALK FOR ROCK WORK. PROVIDE STEPS AS PER TYPICAL DETAIL ON DWG. NO. 6 TO RAMP FROM DYKE CREST.

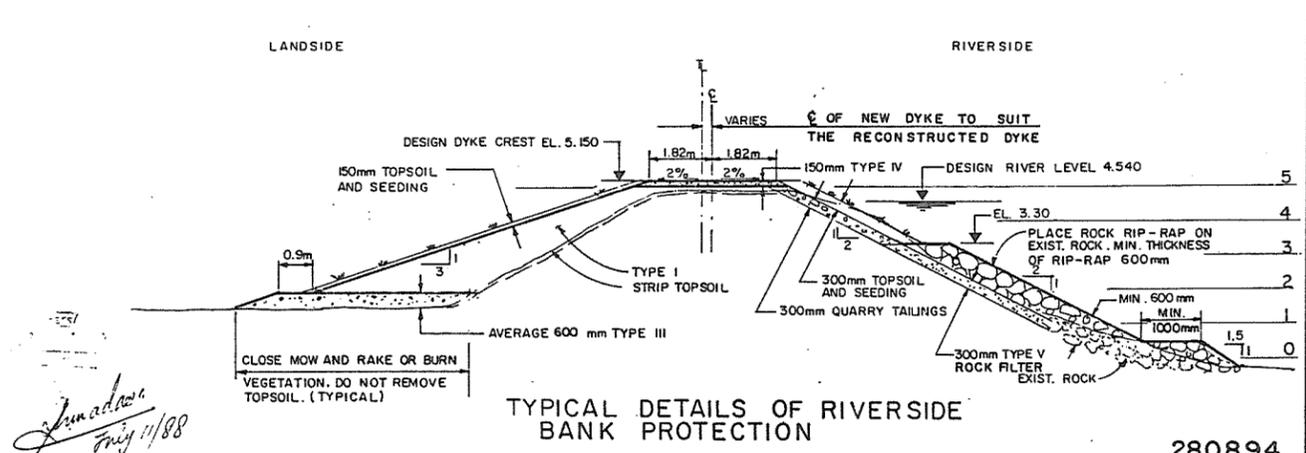
NOTE:
 1. REMOVE EXISTING FENCE AND ERECT NEW FENCE AS DIRECTED BY THE ENGINEER 2.5m TO 3.0m DISTANCE OUTSIDE TOE OF DYKE. FOR DETAILS OF FENCE SEE DWG. 26



TYPICAL DETAILS OF LANDSIDE DYKE RECONSTRUCTION.

ASSOCIATED ENGINEERING **AE**

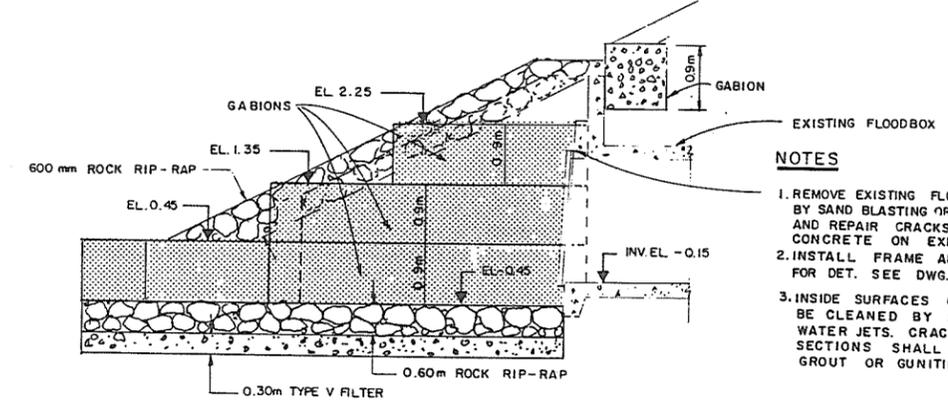
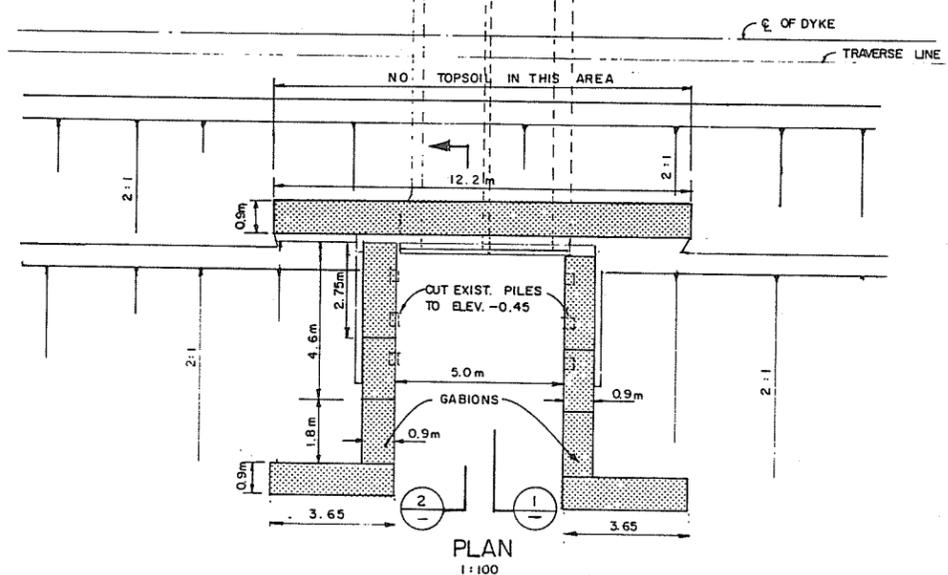
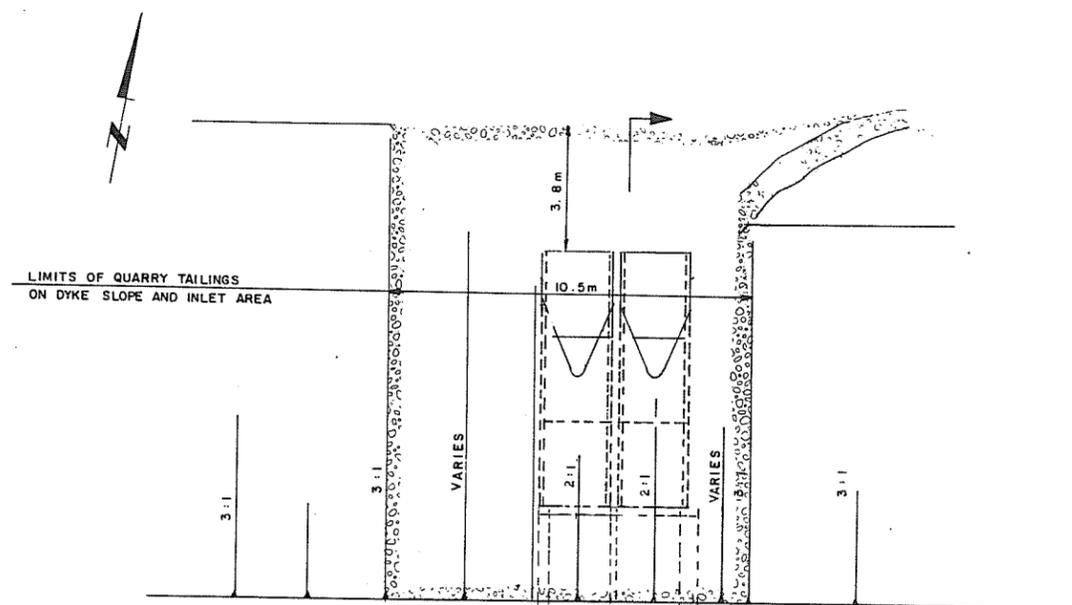
AE DWG. NO. V43J-25-122



TYPICAL DETAILS OF RIVERSIDE BANK PROTECTION

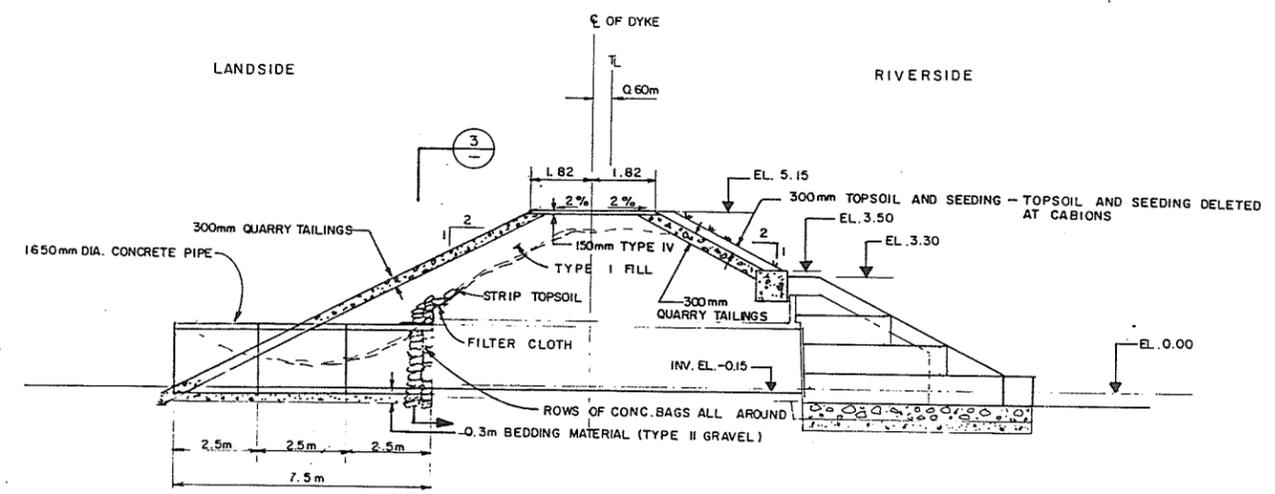
RECOMMENDED <i>R.W. Cameron</i> PROJECT MANAGER		BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT		DESIGNED S.G.	SURVEYED A.E.
DATE <i>July 11, 1988</i>		PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16		DRAWN V.W.	DATE 1969 & 1986
APPROVED <i>[Signature]</i> DIRECTOR, WATER MANAGEMENT BRANCH		DYKE RECONSTRUCTION FROM STA. 4+317 TO STA. 4+366 - SITE 2		CHECKED S.G.	FILE NO. 0281550-C16
NO. BY REVISIONS DATE		DATE 1988-07-11		SCALE AS SHOWN	DATE JULY 1988
				DWG. NO. 4793-16-22	SHEET 22 OF 26 SHEETS

280894

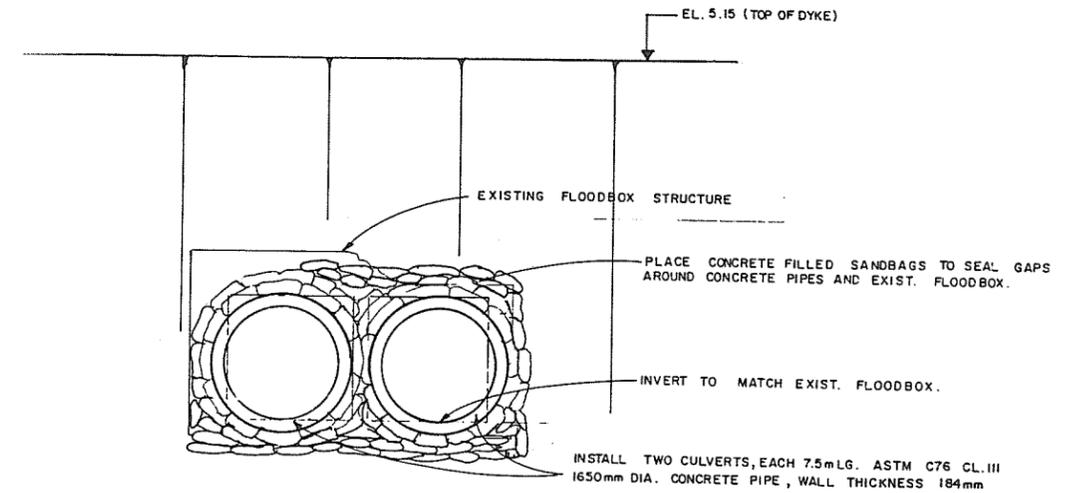


NOTES

1. REMOVE EXISTING FLOODGATES CLEAN THE SURFACE BY SAND BLASTING OR HIGH PRESSURE WATER JETS AND REPAIR CRACKS AND SPALLED CONCRETE ON EXISTING STRUCTURE.
2. INSTALL FRAME AND FLOODGATES FOR DET. SEE DWG. NO. 22
3. INSIDE SURFACES OF BOTH FLOODBOXES SHALL BE CLEANED BY SANDBLASTING OR HIGH PRESSURE WATER JETS. CRACKS AND ERODED CONCRETE SECTIONS SHALL BE REPAIRED USING EPOXY GROUT OR GUNITING.



SECTION 1
1:100



SECTION 3
1:50

ASSOCIATED ENGINEERING **AE**
 DWG. NO. V43J - 25 - 123

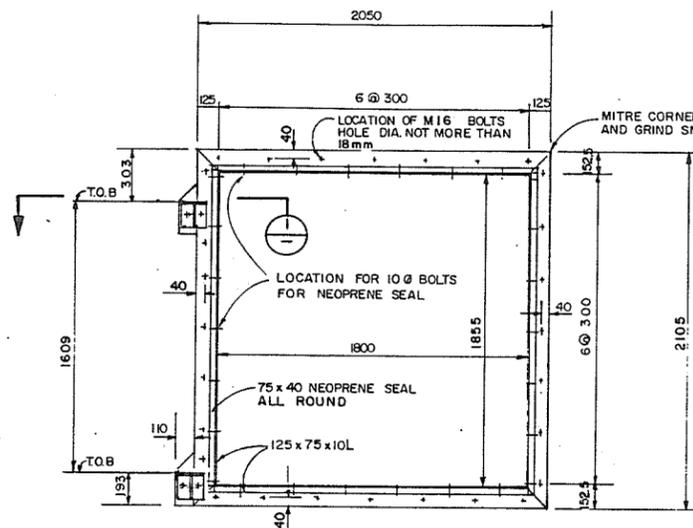
NO.	BY	REVISIONS	DATE	RECOMMENDED	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL TREATY AGREEMENT	DESIGNED	V.N/SG	SURVEYED
				DATE	25.89	PROJECT MANAGER	DATE	FILE NO.
1	V.W.	AS CONSTRUCTED	25.89	APPROVED	PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16	CHECKED	S.G.	DATE
				DATE	RECONSTRUCTION OF EXISTING FLOODBOX AT MOUTH OF ALDUETTE AND PITT RIVER SITE 2	SCALE	AS SHOWN	JULY 1988
						DWG. NO.	4793-16-23	SHEET 23 OF 26 SHEETS

Amended July 11/88

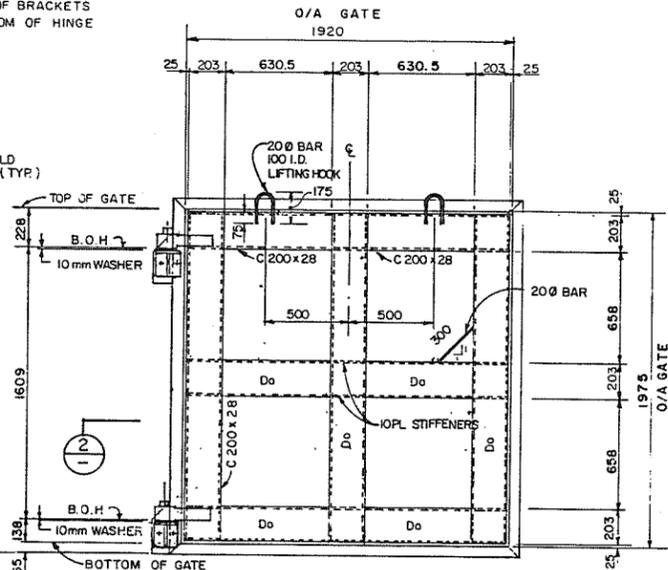
280895

ABBREVIATIONS USED

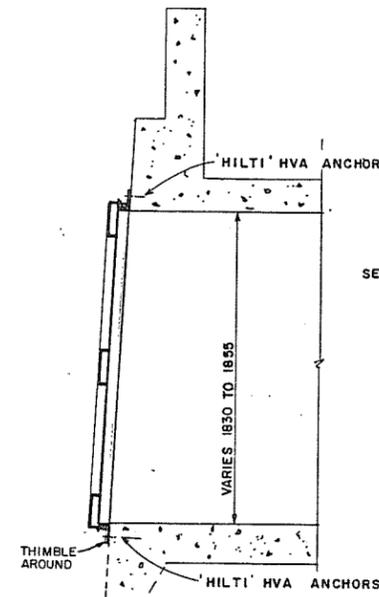
T.O.B - TOP OF BRACKETS
B.O.H. - BOTTOM OF HINGE



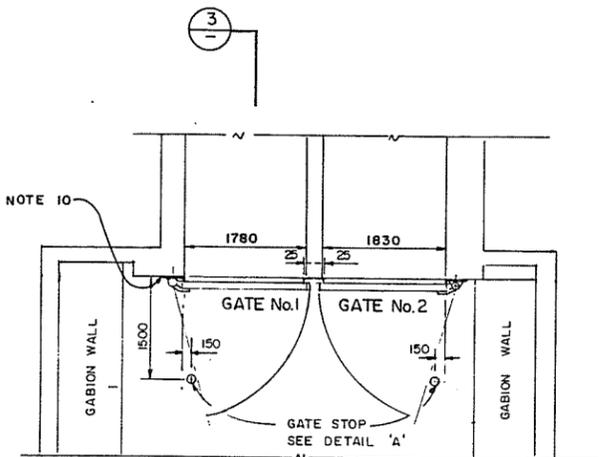
THIMBLE FOR GATE
ONE REQUIRED AS SHOWN (FOR GATE No.1)
ONE REQUIRED OPPOSITE HAND (FOR GATE No.2)
1: 200



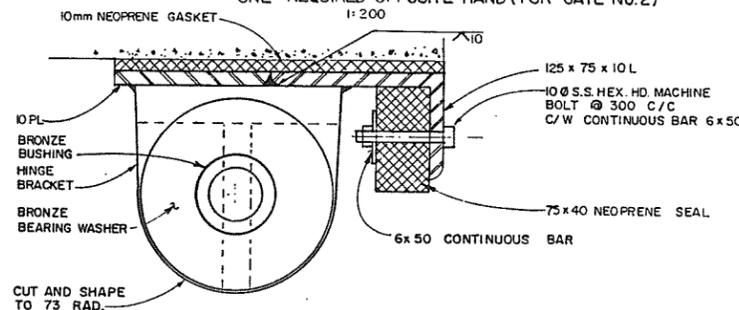
ELEVATION VIEW OF GATE
ONE REQUIRED AS SHOWN (GATE No.1)
ONE REQUIRED OPPOSITE HAND (GATE No.2)
1: 200



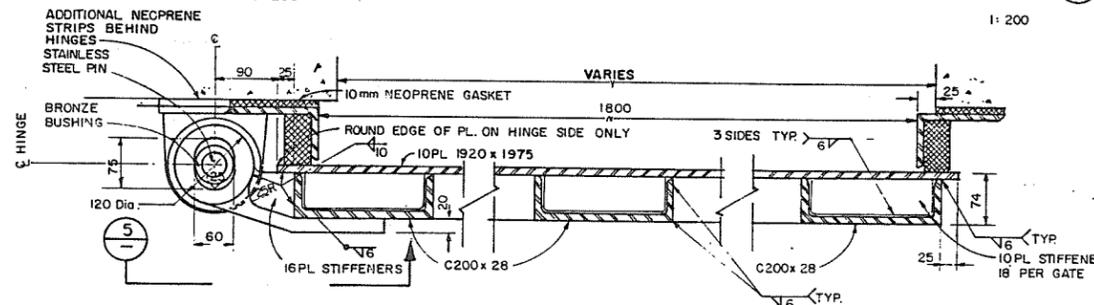
SECTION 3
1: 200



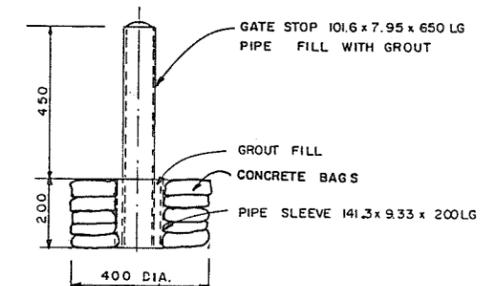
SECTIONAL PLAN OF FLOODBOX OUTLET
1: 500



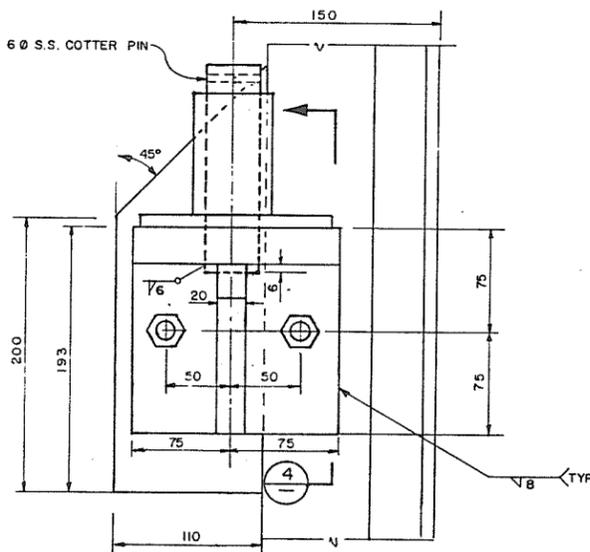
SECTION 1
1: 2.5



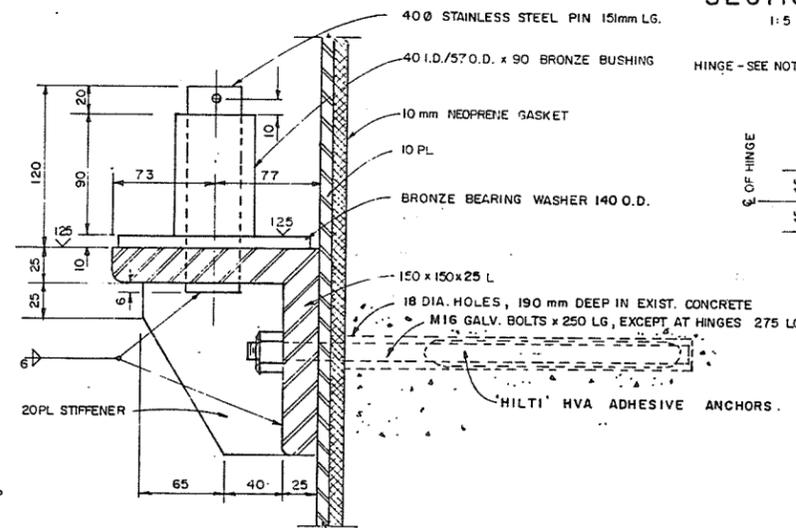
SECTION 2
1: 5



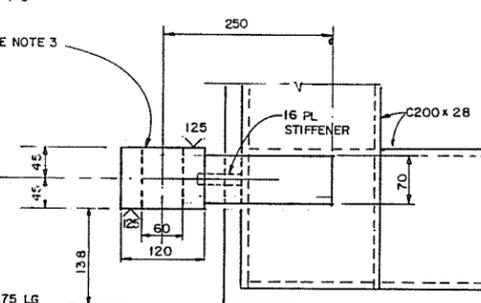
DETAIL 'A'
1: 10



ELEVATION
1: 2.5



SECTION 4
1: 2.5



SECTION 5
1: 5

NOTES

1. ALL STEEL SHALL BE G40.21-M GRADE 300W AND HOT-DIP GALVANIZED AFTER FABRICATION. MITRE CORNERS OF GATE THIMBLE SECTIONS, CONTINUOUS BUTT WELD AND GRIND SMOOTH.
2. ALL GATE WELDING SHALL BE CONTINUOUS AND WATERTIGHT. PROVIDE VENT HOLES AS REQUIRED FOR GALVANIZING, PLUG WELD HOLES AFTERWARDS AND COAT WITH GALVAFROID.
3. GATE HINGE SHALL BE CAST FROM GRADE 80-40 CAST STEEL OR FABRICATED FROM CSA G40.21 STEEL.
4. GATE HINGE BUSHINGS AND BEARING WASHERS SHALL BE BRONZE, CONFORMING TO SAE 660
5. ALL PARTS OF HINGE ASSEMBLY IN CONTACT WITH BRONZE BUSHING AND BEARING WASHERS SHALL BE GRIND TO STIPULATED SMOOTHNESS TOLERANCES. BRONZE BUSHING AND WASHER SHALL BE SIMILARLY GRIND AND REAMED AS REQ'D. TO JUST SLIP EASILY ON THE STAINLESS STEEL PIN. STAINLESS STEEL PIN SHALL BE SMOOTH AND FREE OF UPSETS AND BURRS.
6. NEOPRENE GASKET AND SEAL SHALL BE MITRED AND VULCANIZED AT CORNERS, AND BE WATERTIGHT. EXPOSED EDGE ON FOUR SIDES OF SEAL SHALL FORM A TRUE PLANE FOR SEATING OF GATE.
7. NEOPRENE GASKET MAY BE GLUED TO THIMBLE PRIOR TO INSTALLATION.
8. GATE FACE SHALL BE ONE PLANE AFTER FABRICATION.
9. ALL BRACKETS ARE CONTINUOUS SHOPWELDED TO THE THIMBLE.
10. SANDBLAST OR HIGH PRESSURE WATER JET CLEAN EXIST. CONCRETE SURFACES, REPAIR ANY CRACKS PRIOR TO MOUNTING THE GATE THIMBLES.

ASSOCIATED ENGINEERING
AE DWG. NO. V 43 J - 25 - 124

RECOMMENDED	PROJECT MANAGER
DATE	14/1/88
APPROVED	DIRECTOR, WATER MANAGEMENT BRANCH
DATE	14/8/87

BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT No. 2 DISTRICT OF PITT MEADOWS CONTRACT No. 16 FLOODGATE AND THIMBLE DETAILS FOR CHARLIE ROAD FLOODBOX - SITE 2

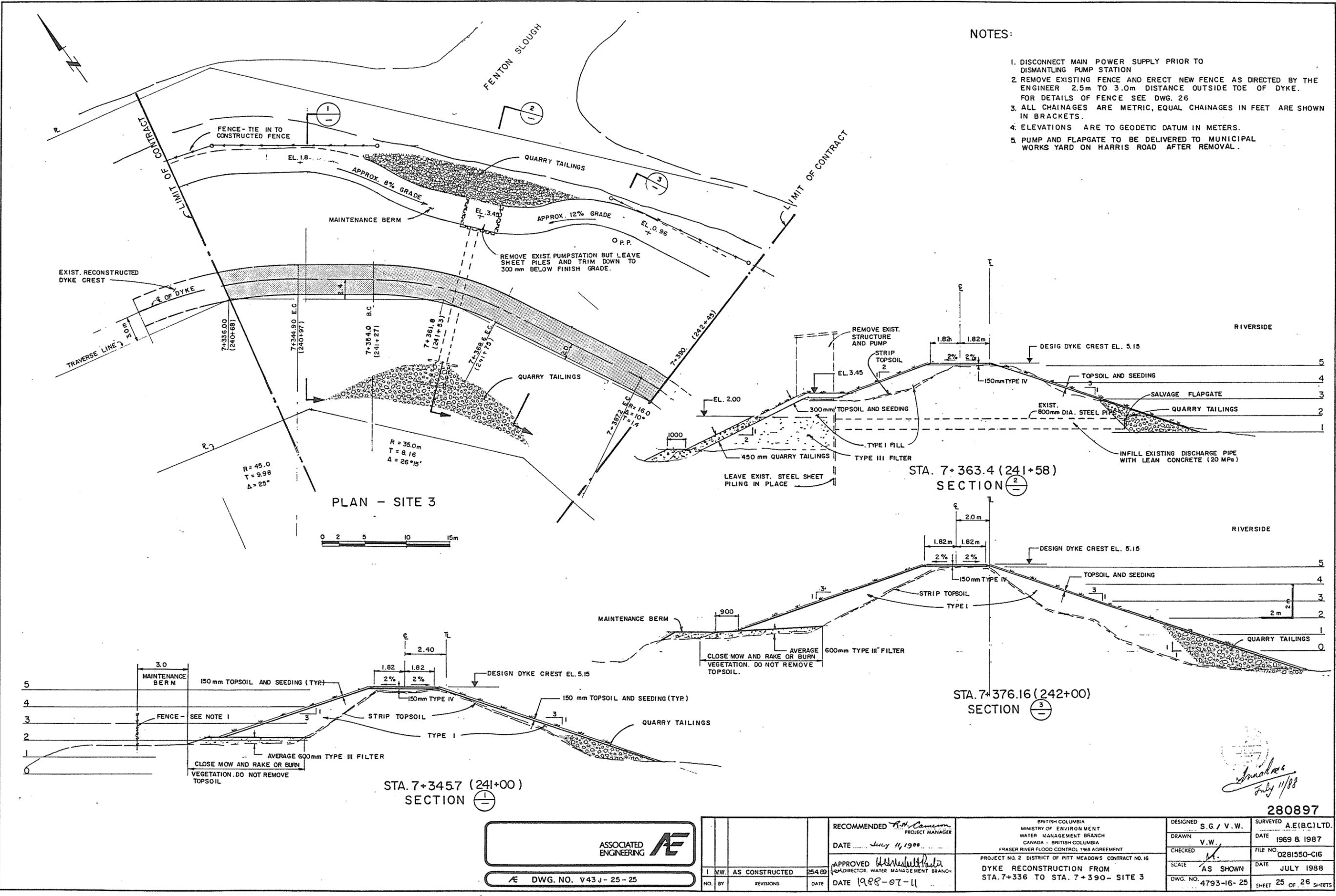
DESIGNED	V.W./S.G.	SURVEYED	
DRAWN	V.W.	DATE	
CHECKED	S.G.	FILE NO.	0281550-C16
SCALE	AS NOTED	DATE	JULY 1988
DWG. NO.	4793-16-24	SHEET 24	OF 26 SHEETS

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Amad... July 11/88

NOTES:

1. DISCONNECT MAIN POWER SUPPLY PRIOR TO DISMANTLING PUMP STATION
2. REMOVE EXISTING FENCE AND ERECT NEW FENCE AS DIRECTED BY THE ENGINEER 2.5m TO 3.0m DISTANCE OUTSIDE TOE OF DYKE. FOR DETAILS OF FENCE SEE DWG. 26
3. ALL CHAINAGES ARE METRIC, EQUAL CHAINAGES IN FEET ARE SHOWN IN BRACKETS.
4. ELEVATIONS ARE TO GEODETIC DATUM IN METERS.
5. PUMP AND FLAPGATE TO BE DELIVERED TO MUNICIPAL WORKS YARD ON HARRIS ROAD AFTER REMOVAL.



PLAN - SITE 3



STA. 7+345.7 (241+00)
SECTION 1

STA. 7+363.4 (241+58)
SECTION 2

STA. 7+376.16 (242+00)
SECTION 3

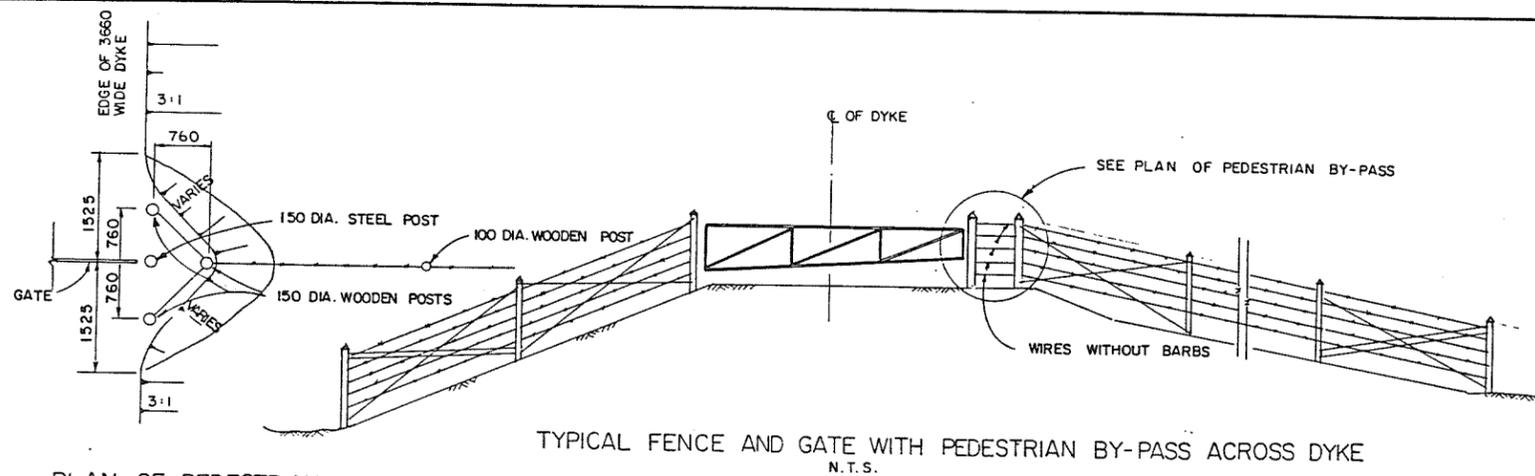
ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43 J - 25 - 25

NO.	BY	AS CONSTRUCTED	25.4.89	RECOMMENDED <i>R.D. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 16 DYKE RECONSTRUCTION FROM STA. 7+336 TO STA. 7+390 - SITE 3	DESIGNED S.G./V.W.	SURVEYED A.E.(B.C.) LTD.
		REVISIONS	DATE	DATE <i>July 11, 1990</i>		DRAWN V.W.	DATE 1969 & 1987
				APPROVED <i>W. M. ...</i> DIRECTOR, WATER MANAGEMENT BRANCH		CHECKED <i>M.A.</i>	FILE NO. 0281550-C16
				DATE 1988-07-11		SCALE AS SHOWN	DATE JULY 1988
						DWG. NO. 4793-16-25	SHEET 25 OF 26 SHEETS

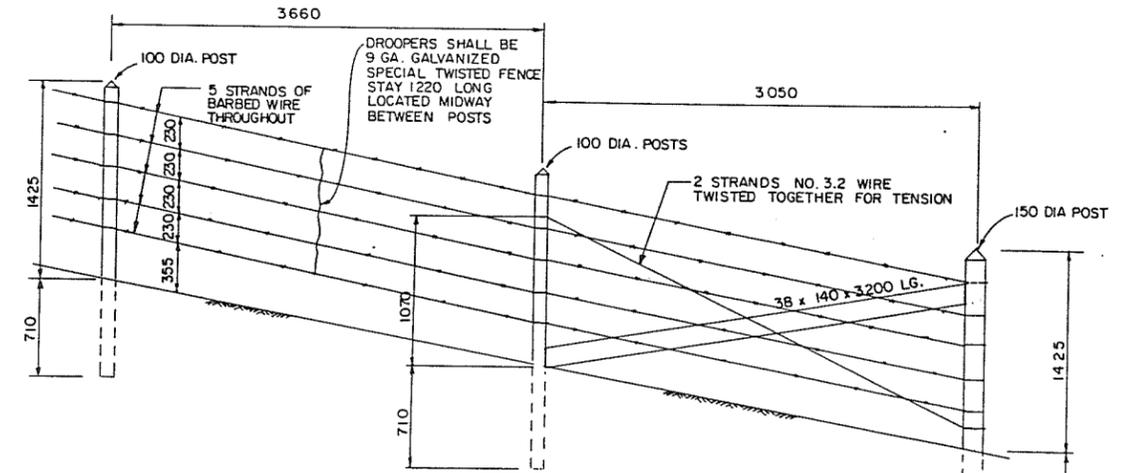
Annaliese
July 11/88

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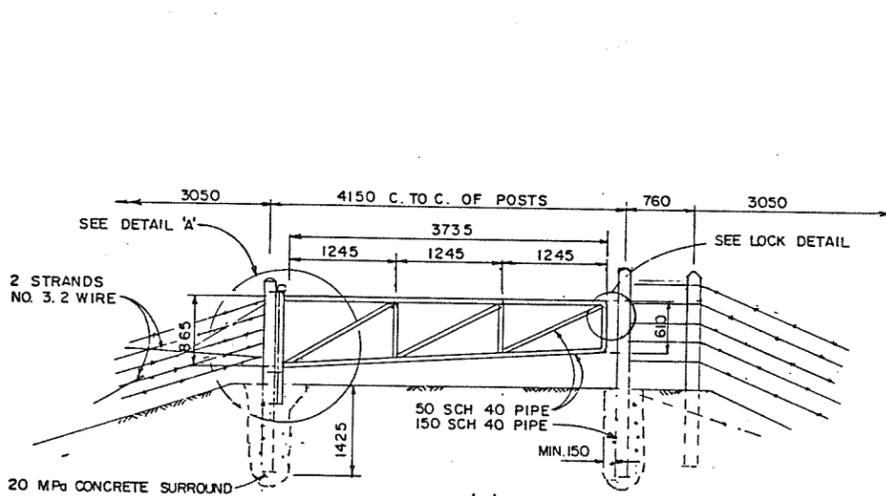


PLAN OF PEDESTRIAN BY-PASS N.T.S.

TYPICAL FENCE AND GATE WITH PEDESTRIAN BY-PASS ACROSS DYKE N.T.S.

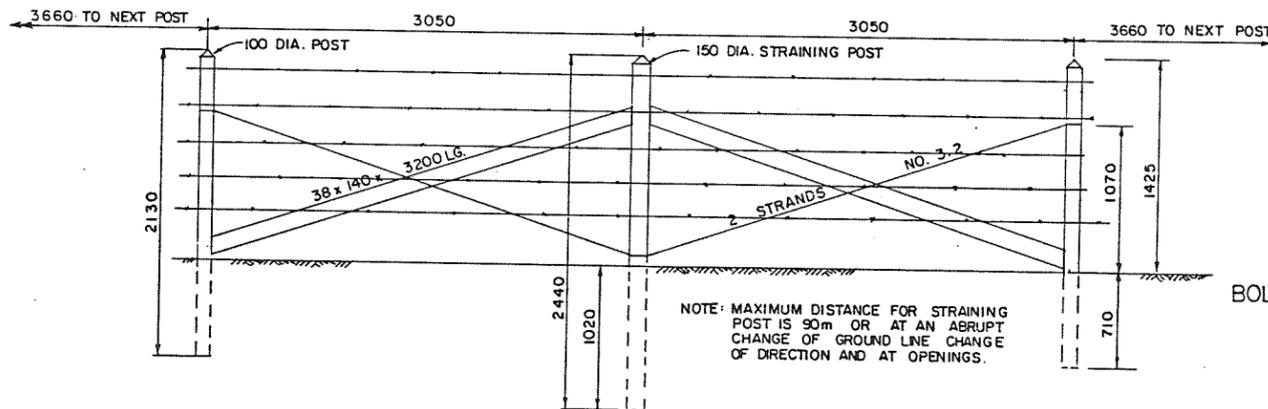


FENCE DETAIL AND END STRAINING POST N.T.S.



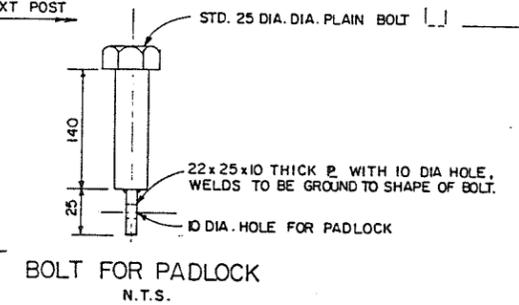
TYPE 'A' GATE N.T.S.

NOTE: ALTERNATIVE GATE PROPOSALS TO THE DIMENSIONS SHOWN MAY BE ACCEPTED. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

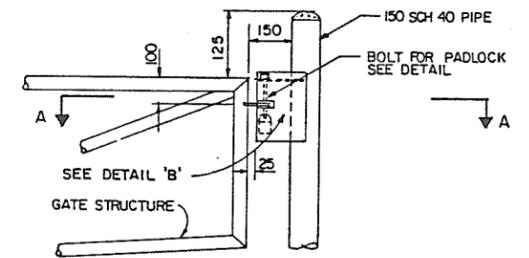


TYPICAL FENCE DETAIL WITH INTERMEDIATE STRAINING POSTS N.T.S.

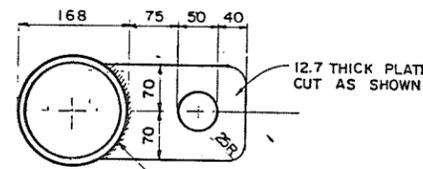
NOTE: MAXIMUM DISTANCE FOR STRAINING POST IS 30m OR AT AN ABRUPT CHANGE OF GROUND LINE CHANGE OF DIRECTION AND AT OPENINGS.



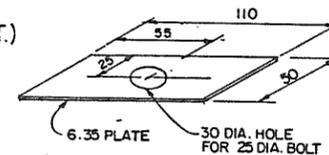
BOLT FOR PADLOCK N.T.S.



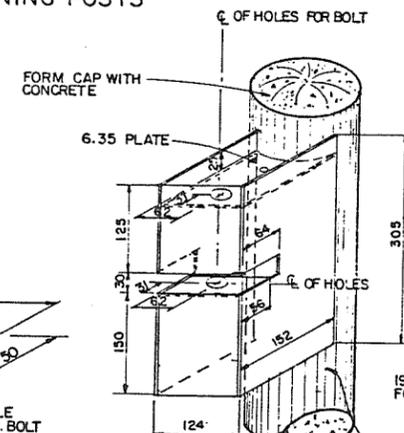
LOCKING DETAIL N.T.S.



PLAN VIEW OF HINGE BRACKET (3 REQ'D) 2 AS SHOWN 1 WITHOUT HOLE (BOT.) N.T.S.



DETAIL 'B' N.T.S.



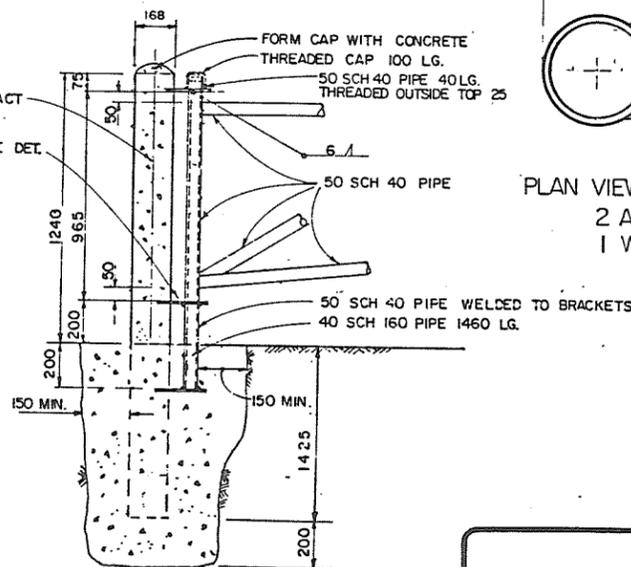
SECTION A-A N.T.S.

NOTE: ALL DIMENSIONS ARE IN MM, EXCEPT WHERE SHOWN OTHERWISE.

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NOTES.

1. ALL JOINTS TO BE FULL STRENGTH WELDED.
2. WHOLE ASSEMBLY TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
3. ALL HARDWARE TO BE GALVANIZED.
4. STEEL PIPE DIAMETERS AS SHOWN ARE I.D.
5. METAL POSTS FOR GATE ARE 2665 LG. AND TO BE INFILLED WITH CONC. AFTER INSTALLATION.
6. WOODEN POSTS TO BE PRESSURE TREATED AS SPECIFIED.
7. PADLOCKS WILL BE SUPPLIED BY THE CORPORATION OF THE DISTRICT OF PITT MEADOWS.



DETAIL 'A' N.T.S.

ASSOCIATED ENGINEERING **AE**

AE DWG. NO. V43J-25-126

NO.	BY	REVISIONS	DATE	RECOMMENDED	BRITISH COLUMBIA MINISTRY OF ENVIRONMENT WATER MANAGEMENT BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15	DESIGNED	SURVEYED
				DATE	DATE	DRAWN	N. A.
APPROVED				PROJECT MANAGER	PROJECT NO. 2 DISTRICT OF PITT MEADOWS CONTRACT NO. 15	CHECKED	FILE NO.
DATE				DATE	DATE	SCALE	DATE
				DATE	DATE	AS SHOWN	DATE
				DATE	DATE	DWG. NO.	SHEET
				DATE	DATE	4793-16-26	25 OF 26 SHEETS

Shumaker
July 11/88