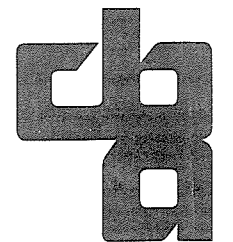


The Government of the Province of British Columbia
 Ministry of the Environment
 Water Investigations Branch

Canada - British Columbia
 Fraser River Flood Control 1968 Agreement
 Project No. 3 The Township of Richmond

Contract No. 15

South Dyke Improvements
 Lafarge to Crown Zellerbach



CBA ENGINEERING LTD
 Consulting Engineers
 Vancouver, Canada

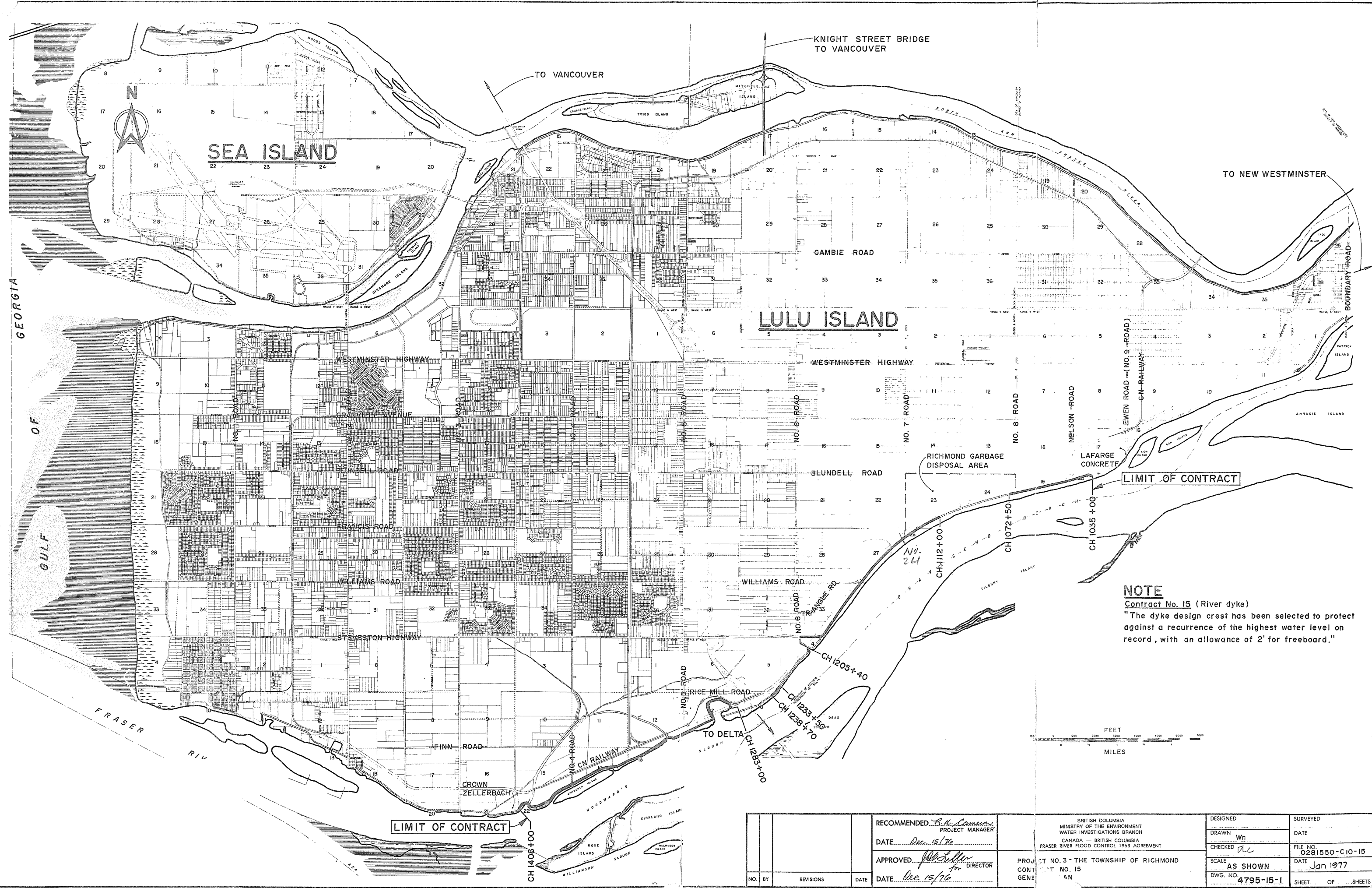
DRAWING LIST

CONTRACT DRAWINGS

4795-15-1	GENERAL PLAN
4795-15-2	PROFILE
4795-15-3	ALIGNMENT PLAN CHAINAGE 1032+00 to CHAINAGE 1094+00
4795-15-4	ALIGNMENT PLAN CHAINAGE 1094+00 to CHAINAGE 1154+00
4795-15-5	ALIGNMENT PLAN CHAINAGE 1154+00 to CHAINAGE 1185+00
4795-15-6	ALIGNMENT PLAN CHAINAGE 1185+00 to CHAINAGE 1220+00
4795-15-7	ALIGNMENT PLAN CHAINAGE 1220+00 to CHAINAGE 1260+00
4795-15-8	ALIGNMENT PLAN CHAINAGE 1260+00 to CHAINAGE 1315+00
4795-15-9	ALIGNMENT PLAN CHAINAGE 1315+00 to CHAINAGE 1377+00
4795-15-10	ALIGNMENT PLAN CHAINAGE 1377+00 to CHAINAGE 1408+00
4795-15-11	TYPICAL DYKE SECTIONS SHEET 1 of 9
4795-15-12	TYPICAL DYKE SECTIONS SHEET 2 of 9
4795-15-13	TYPICAL DYKE SECTIONS SHEET 3 of 9
4795-15-14	TYPICAL DYKE SECTIONS SHEET 4 of 9
4795-15-15	TYPICAL DYKE SECTIONS SHEET 5 of 9
4795-15-16	TYPICAL DYKE SECTIONS SHEET 6 of 9
4795-15-17	TYPICAL DYKE SECTIONS SHEET 7 of 9
4795-15-18	TYPICAL DYKE SECTIONS SHEET 8 of 9
4795-15-19	TYPICAL DYKE SECTIONS SHEET 9 of 9

REFERENCE DRAWINGS

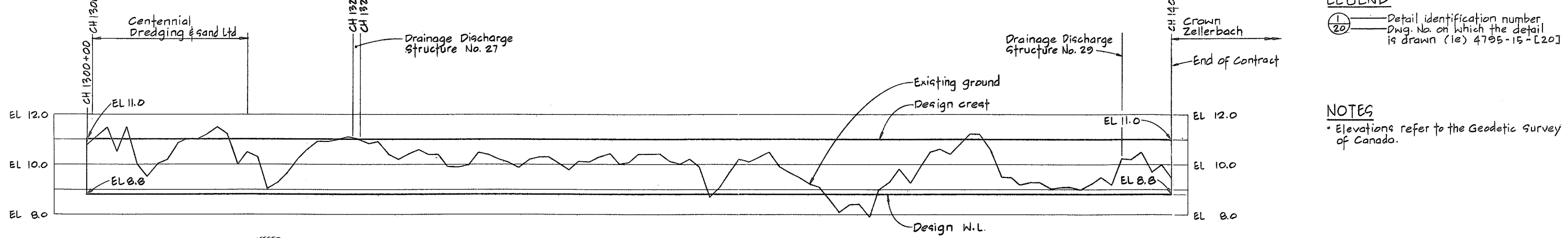
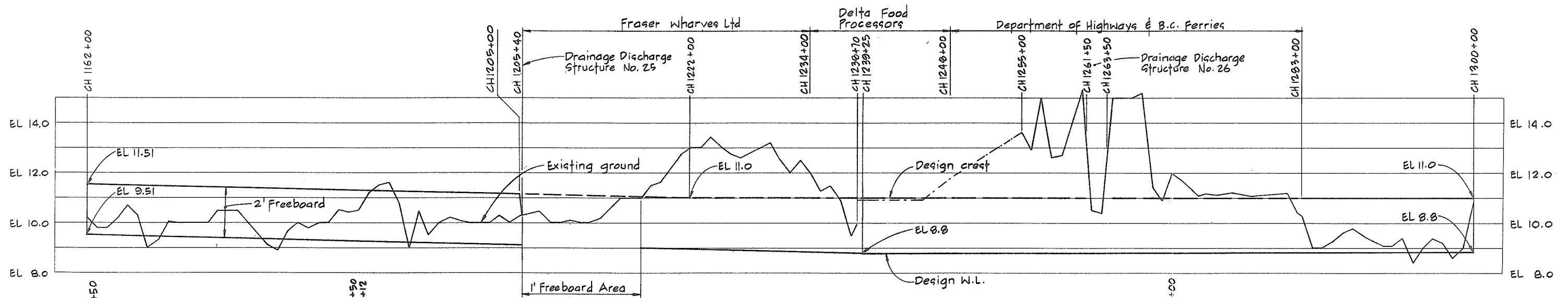
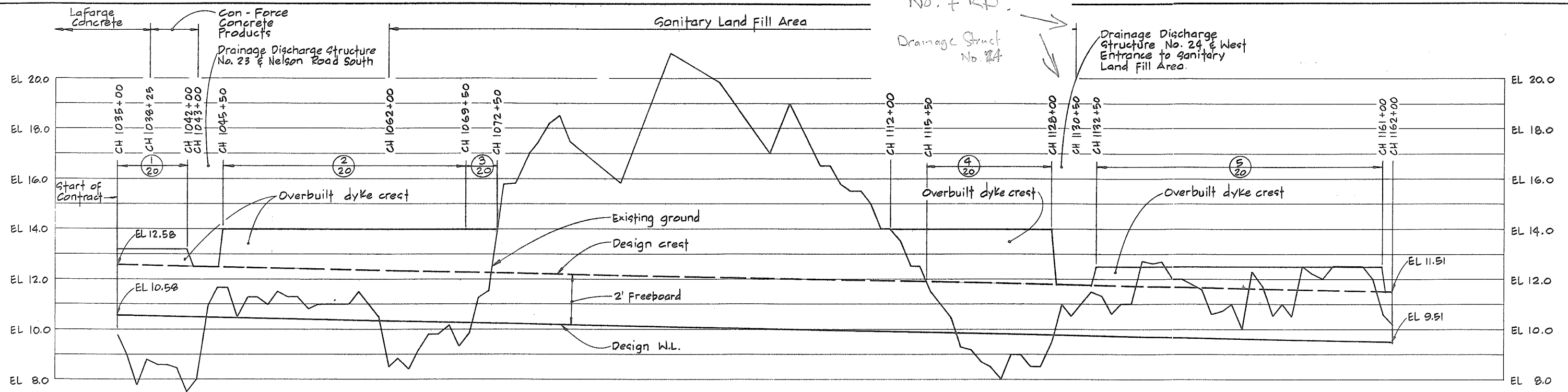
4795-15-20	MISCELLANEOUS DYKE DETAILS SHEET 1 of 8
4795-15-21	MISCELLANEOUS DYKE DETAILS SHEET 2 of 8
4795-15-22	MISCELLANEOUS DYKE DETAILS SHEET 3 of 8
4795-15-23	MISCELLANEOUS DYKE DETAILS SHEET 4 of 8
4795-15-24	MISCELLANEOUS DYKE DETAILS SHEET 5 of 8
4795-15-25	MISCELLANEOUS DYKE DETAILS SHEET 6 of 8
4795-15-26	MISCELLANEOUS DYKE DETAILS SHEET 7 of 8
4795-15-27	MISCELLANEOUS DYKE DETAILS SHEET 8 of 8
4795-15-28	NELSON ROAD SOUTH GRAVITY DISCHARGE STRUCTURE MODIFICATION DETAILS
4795-15-29	MISCELLANEOUS STEELWORK DETAILS
4795-15-30	TREE REMOVAL, CLEARING & GRUBBING SHEET 1 of 8
4795-15-31	TREE REMOVAL, CLEARING & GRUBBING SHEET 2 of 8
4795-15-32	TREE REMOVAL, CLEARING & GRUBBING SHEET 3 of 8
4795-15-33	TREE REMOVAL, CLEARING & GRUBBING SHEET 4 of 8
4795-15-34	TREE REMOVAL, CLEARING & GRUBBING SHEET 5 of 8
4795-15-35	TREE REMOVAL, CLEARING & GRUBBING SHEET 6 of 8
4795-15-36	TREE REMOVAL, CLEARING & GRUBBING SHEET 7 of 8
4795-15-37	TREE REMOVAL, CLEARING & GRUBBING SHEET 8 of 8
4795-15-38	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 1 of 8
4795-15-39	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 2 of 8
4795-15-40	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 3 of 8
4895-15-41	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 4 of 8
4795-15-42	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 5 of 8
4795-15-43	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 6 of 8
4795-15-44	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 7 of 8
4795-15-45	PLAN SHOWING LOCATION OF DYKE RIGHT- OF-WAY EXISTING SURVEY MARKERS & UTILITIES SHEET 8 of 8



NOTE
 Contract No. 15 (River dyke)
 "The dyke design crest has been selected to protect against a recurrence of the highest water level on record, with an allowance of 2' for freeboard."

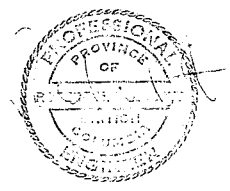


NO.	BY	REVISIONS	DATE	RECOMMENDED <i>R. H. Comen</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED	SURVEYED
				DATE <i>Dec. 15/76</i>		DRAWN <i>Wn</i>	DATE
				APPROVED <i>W. S. Liller</i> for DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 PLAN	CHECKED <i>dc</i>	FILE NO. 0281530-C10-15
				DATE <i>Dec. 15/76</i>		SCALE AS SHOWN	DATE Jan 1977
						DWG. NO. 4795-15-1	SHEET OF SHEETS



LEGEND
 (1/20) — Detail identification number
 (1/20) — Dwg. No. on which the detail is drawn (ie) 4795-15-[20]

NOTES
 • Elevations refer to the Geodetic Survey of Canada.



Scale 1/2" = 1'
 1" = 500'

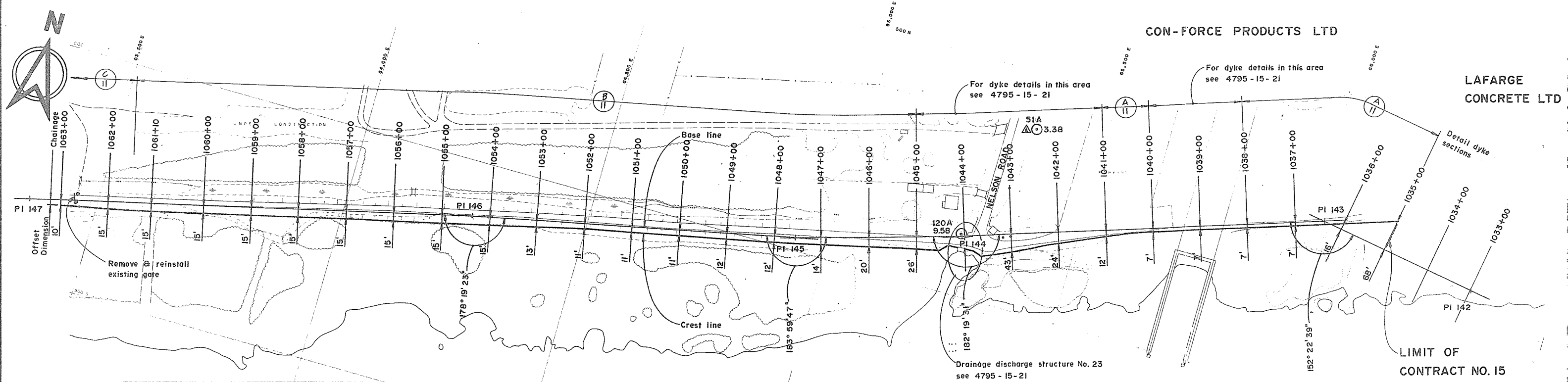
CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED <i>R.N. Cameron</i> PROJECT MANAGER	DATE <i>Dec. 15/76</i>		
APPROVED <i>R.N. Cameron</i> DIRECTOR	DATE <i>Dec 15/76</i>		
NO.	BY	REVISIONS	DATE

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

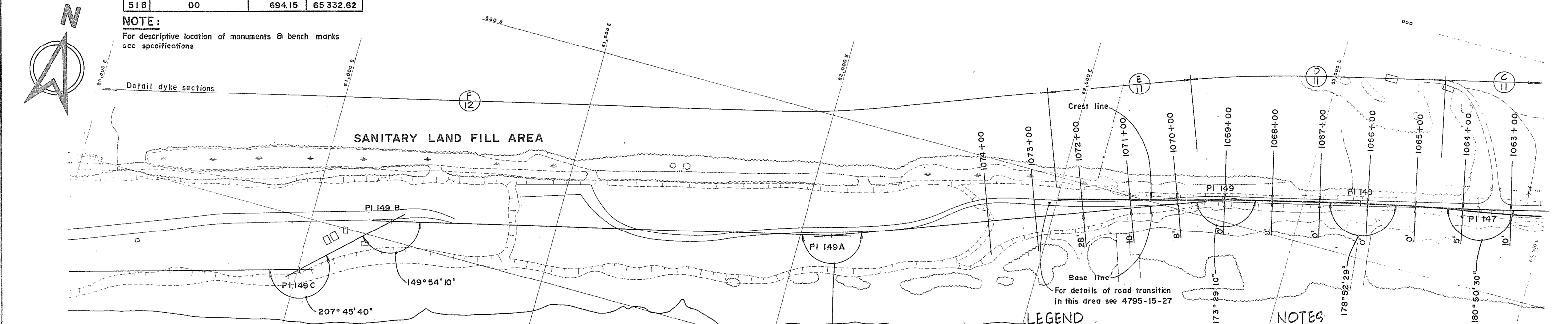
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 PROFILE

DESIGNED <i>DLC & EMH</i>	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>PLC</i>	FILE NO. 0281550-C10-15
SCALE AS SHOWN	DATE Jan 1977
DWG. NO. 4795-15-2	SHEET OF SHEETS



SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		N/SOUTH	EAST
50 A	PIPE IN CONCRETE	458.78	66 495.04
50 B	DITTO	871.17	67 397.99
51 A	DO	375.83	65 332.18
51 B	DO	694.15	65 332.62

NOTE:
For descriptive location of monuments & bench marks see specifications



BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				N/SOUTH	EAST
141	S 48° 17' 48" W	1030 + 76.29	229.55	458.78	66 495.04
142	N 80° 37' 14" W	1033 + 05.84	333.20	306.10	66 393.70
143	S 71° 45' 25" W	1036 + 39.04	765.50	361.17	65 990.31
144	S 74° 04' 56" W	1044 + 04.54	350.59	122.85	65 267.28
145	S 78° 04' 43" W	1047 + 55.13	683.14	26.72	64 930.22
146	S 76° 24' 07" W	1054 + 38.27	927.72	114.35	64 262.01
147	S 77° 14' 37" W	1063 + 65.99	250.96	332.40	63 360.55
148	S 76° 07' 06" W	1066 + 16.95	286.56	387.80	63 115.86

PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				N/SOUTH	EAST
149	S 76° 07' 06" W	1069 + 03.51	286.56	456.53	62 837.75
149A	S 69° 36' 16" W	1077 + 29.75	826.24	744.48	62 063.30
149B	S 76° 38' 46" W	1086 + 53.85	924.10	957.91	61 164.19
149C	S 46° 32' 56" W	1088 + 74.20	220.35	1109.45	61 004.23
149D	S 74° 18' 36" W	1097 + 44.40	870.20	1344.77	60 166.45
157	S 84° 16' 46" W	1099 + 68.47	224.07	1369.10	59 923.60

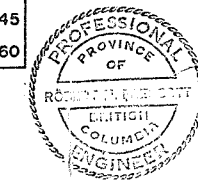
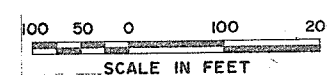
NOTE:
Chainage correction PI 157
1099 + 68.47 Back = 1100 + 52.67 Forward

LEGEND

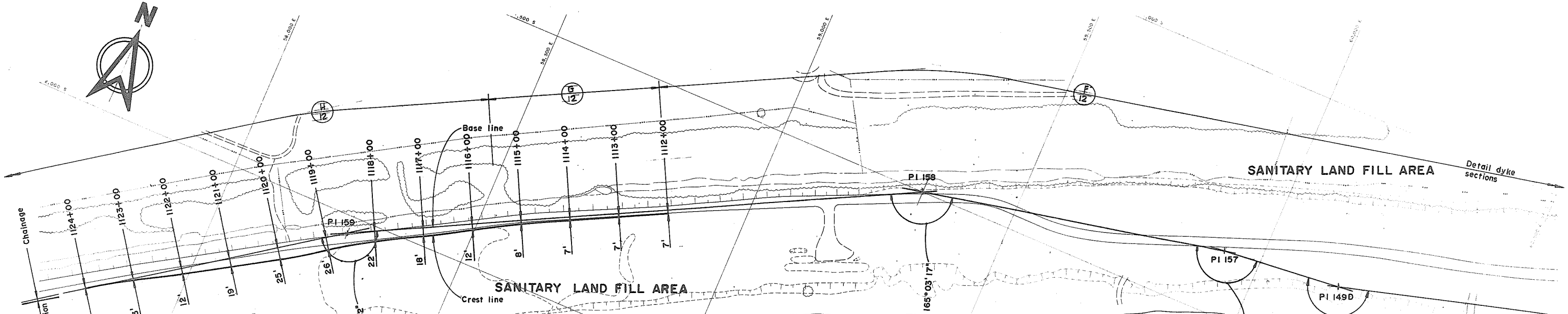
- △ 50 A Survey monuments
- 9.58 ○ 120A Bench mark & Geodetic elevation
- ① Detail identification number
- ② Dwg No. on which the detail is drawn (ie) 4795-15-[20]
- A Section identification letter
- II Dwg No. on which the section is drawn (ie) 4795-15-[11]

NOTES

- Elevations refer to the Geodetic Survey of Canada.
- A smooth alignment should be maintained over the entire length of the dyke.
- Offset distances from base line to crest line are taken at the design crest elevation.
- The angle of offset is 90° to base line unless otherwise indicated.
- The line defined as the crest line is the river side shoulder of the dyke.
- Terminal parts of the work shall be constructed to blend with the existing ground.



RECOMMENDED <i>R. M. Cameron</i> PROJECT MANAGER		BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1969 AGREEMENT		DESIGNED <i>DLC & EMH</i>	SURVEYED
DATE <i>Dec 15/76</i>	APPROVED <i>M. J. Fuller</i> DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 ALIGNMENT PLAN CH 1032+00 TO CH 1094+00		DRAWN <i>Wn</i>	DATE
NO.	BY	REVISIONS	DATE	CHECKED <i>ac</i>	FILE NO. <i>0281550-C10-15</i>
DATE <i>Dec 15/76</i>				SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
				DWG. NO. <i>4795-15-3</i>	SHEET <i>OF</i> SHEETS

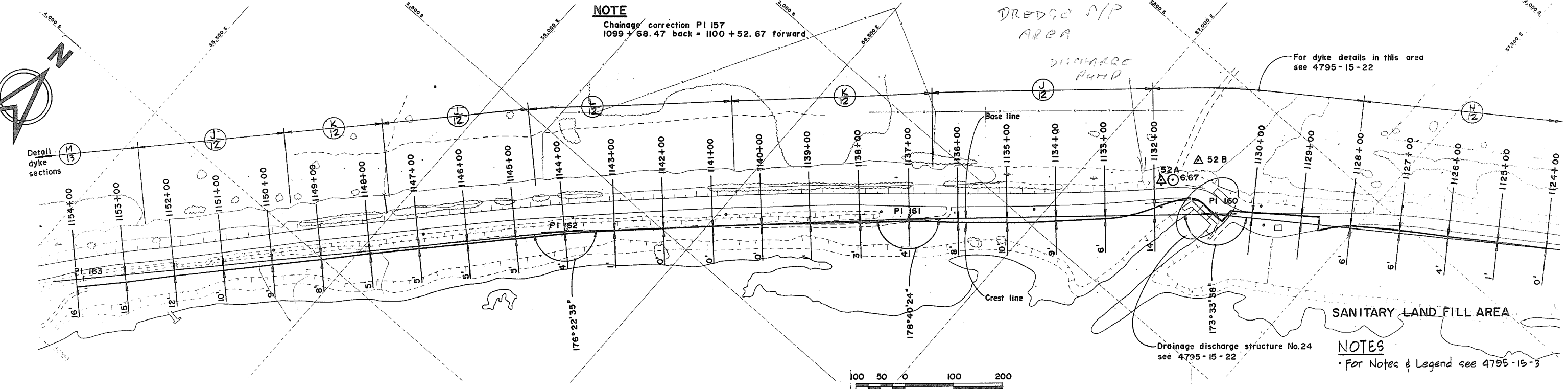


BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
149C	S 74° 16' 36" W	1088 + 74.20	870.20	1109.45	61 004.23
149D	S 84° 16' 46" W	1097 + 44.40	244.07	1344.77	60 166.45
157	SEE NOTE			1369.05	59 923.57
158	S 77° 54' 29" W	1106 + 80.12	627.45	1500.45	59 310.21
159	S 62° 57' 46" W	1118 + 56.11	1175.99	2034.88	58 263.01
160	S 54° 43' 18" W	1130 + 74.24	1218.13	2738.25	57 268.82
161	S 48° 16' 57" W	1137 + 02.49	628.25	3156.24	56 799.97
162	S 46° 57' 21" W	1143 + 99.32	696.83	3631.77	56 290.81
163	S 43° 19' 56" W	1153 + 87.32	988.00	4350.28	55 612.95

SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
52A	PIPE IN CONCRETE	2 758.26	57 136.14
52B	DITTO	2 877.07	57 166.38

NOTE:
For descriptive location of monuments & bench marks see specifications

NOTE
Chainage correction PI 157
1099 + 68.47 back = 1100 + 52.67 forward

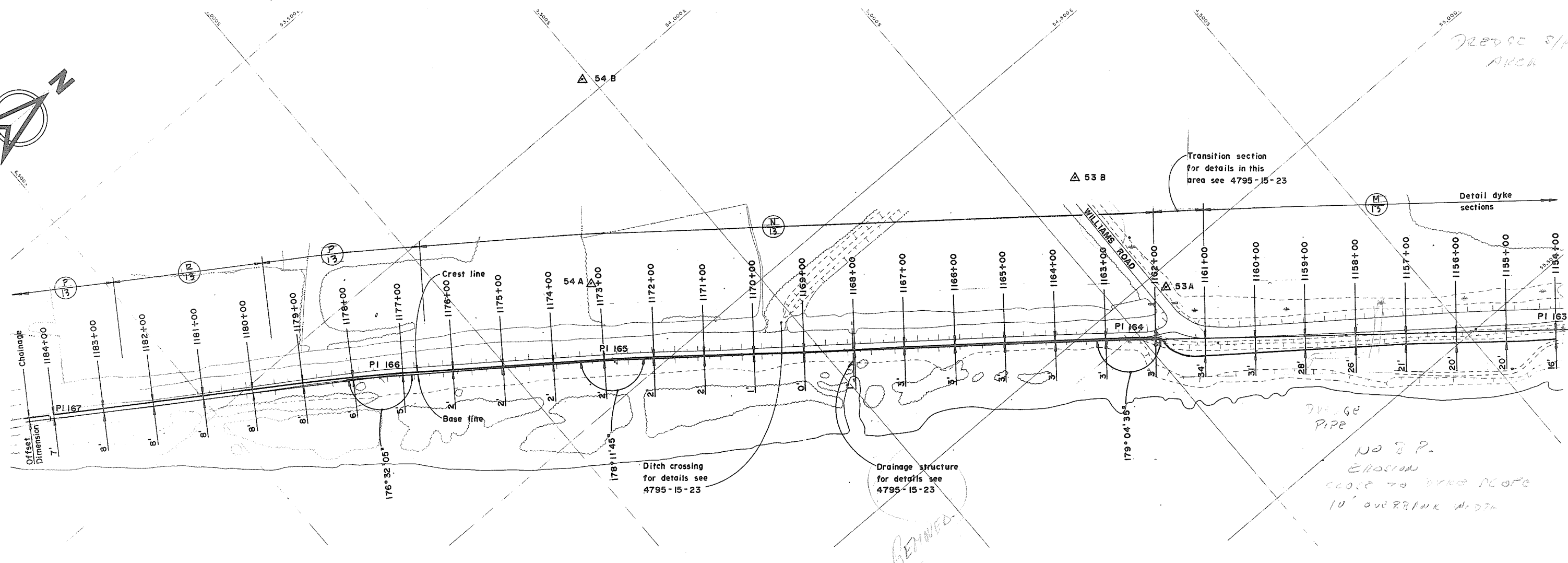
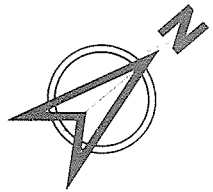


100 50 0 100 200
SCALE IN FEET



NO.	BY	REVISIONS	DATE	RECOMMENDED <i>R. J. Leman</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>PLC & EMH</i>	SURVEYED
				DATE <i>Dec 15/76</i>		DRAWN <i>Wn</i>	DATE
				APPROVED <i>W. J. Leman</i> DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 ALIGNMENT PLAN CH 1124+00 TO CH 1154+00	CHECKED <i>PLC</i>	FILE NO. 0281550-C10-15
				DATE <i>Dec 15/76</i>		SCALE AS SHOWN	DATE Jan 1977
						DWG. NO. 4795-15-4	SHEET OF SHEETS

NOTES
For Notes & Legend see 4795-15-3



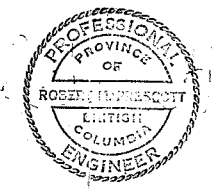
BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
162		1143 + 99.32		3631.77	56 290.81
163	S 43° 19' 56" W	1153 + 87.32	988.00	4350.29	55 612.95
164	S 39° 07' 41" W	1162 + 53.82	866.50	5022.34	55 066.24
165	S 38° 12' 16" W	1172 + 78.92	1025.10	5827.73	54 432.36
166	S 36° 24' 00" W	1177 + 47.16	468.24	6204.55	54 154.55
167	S 32° 56' 06" W	1184 + 07.80	660.64	6759.47	53 795.07

SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
53A	PIPE IN CONCRETE	4 898.51	55 035.29
53B	DITTO	4 891.85	54 749.71
54A	DO	5 765.45	54 282.56
54B	DO	5 515.05	53 962.69

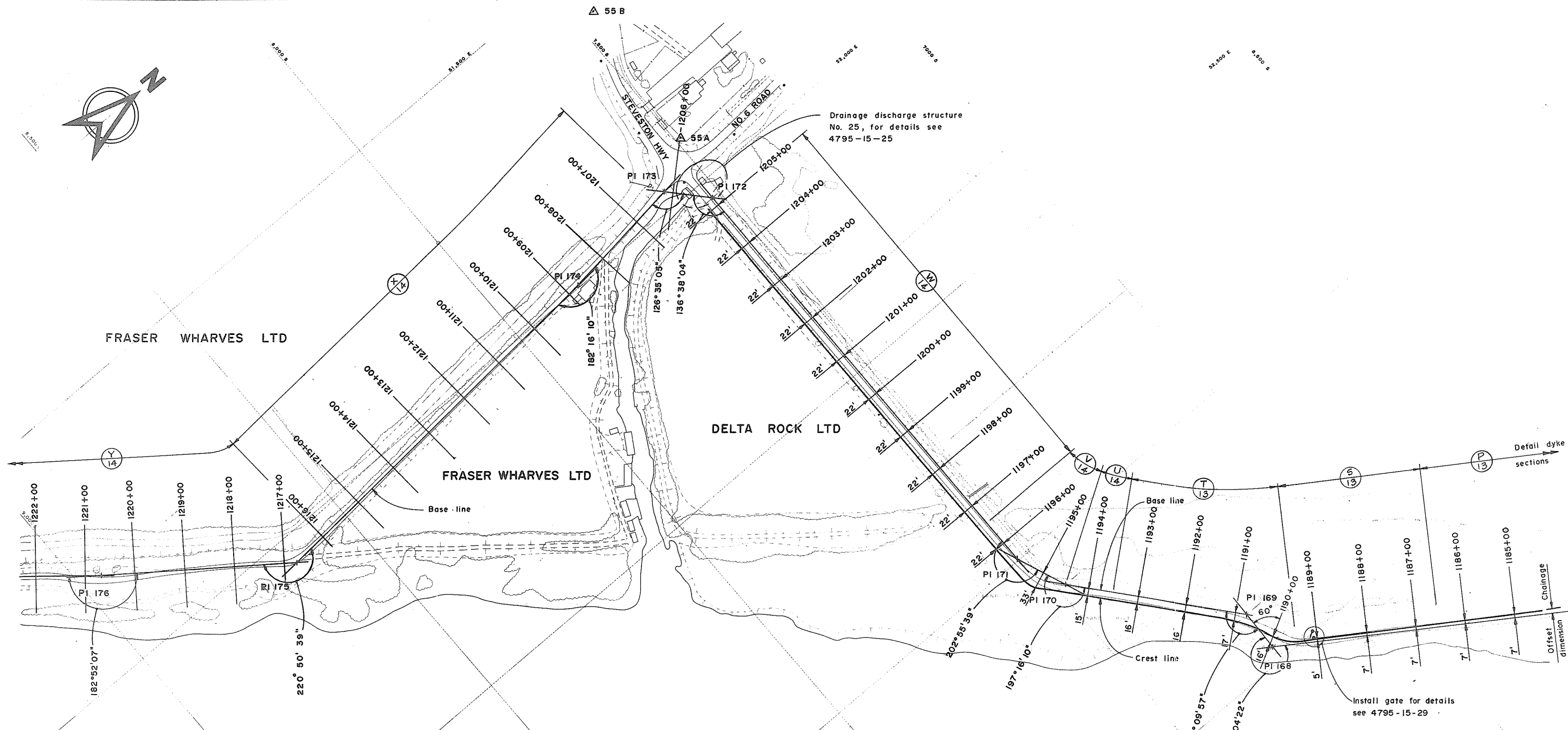
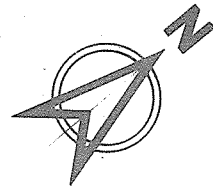
NOTE
For descriptive location of monuments & bench marks see specifications



NOTES
For Notes & Legend see 4795-15-3



NO.	BY	REVISIONS	DATE	RECOMMENDED <i>R. P. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLG & EMH</i>	SURVEYED
				DATE <i>Dec 15/76</i>		DRAWN <i>Wn</i>	DATE
				APPROVED <i>[Signature]</i> DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND	CHECKED <i>DLG</i>	FILE NO. <i>0281550-C10-15</i>
				DATE <i>Dec 15/76</i>	CONTRACT NO. 15	SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
					ALIGNMENT PLAN	DWG. NO. <i>4795-15-5</i>	SHEET OF SHEETS
					CH 154+00 TO CH 1185+00		



BASE LINE DATA

PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
167	S 33° 51' 50" W	1184 + 07.80	583.69	6759.47	53 795.07
168	N 89° 03' 47" W	1189 + 91.49	86.06	7244.07	53 469.88
169	S 50° 06' 09" W	1190 + 77.55	371.31	7242.66	53 383.85
170	S 67° 22' 19" W	1194 + 48.86	109.82	7480.77	53 099.04
171	N 89° 42' 01" W	1195 + 58.68	960.61	7523.01	52 997.71
172	S 46° 56' 03" W	1205 + 19.29	98.32	7517.99	52 037.40
173	S 6° 28' 52" E	1206 + 17.61	257.45	7585.12	51 965.58
174	S 4° 12' 42" E	1208 + 75.06	798.34	7841.49	51 994.71
175	S 36° 37' 56" W	1216 + 73.40	394.90	8637.00	52 053.29
176	S 39° 30' 04" W	1220 + 68.30	608.13	8953.84	51 817.70
177		1226 + 76.43		9423.00	51 430.95

SURVEY MONUMENTS

MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
55A	PIPE IN CONCRETE	7 480.06	51 901.72
55B	DITTO	7 460.45	51 590.87

NOTE:
For descriptive location of monuments & bench marks see specifications.

NOTES

For Notes & Legend see 4795-15-3

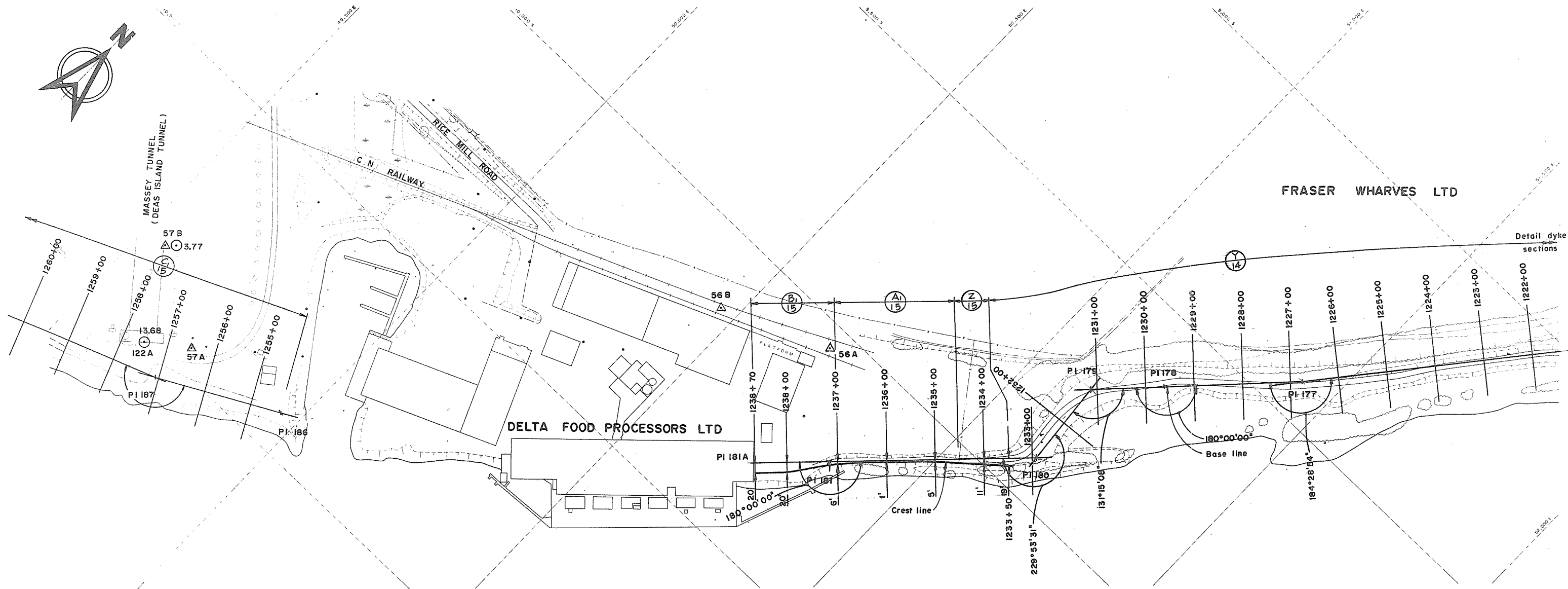
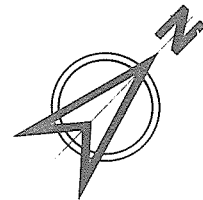


RECOMMENDED <i>B. L. Cameron</i> PROJECT MANAGER	
DATE <i>Dec 15/76</i>	
APPROVED <i>W. J. Fuller</i> for DIRECTOR	
DATE <i>Dec 15/76</i>	
NO. BY	REVISIONS

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

PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
ALIGNMENT PLAN
CH 185 + 00 TO CH 1222 + 00

DESIGNED <i>DLG & EMH</i>	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>DLG</i>	FILE NO. <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-6</i>	SHEET <i>OF</i> SHEETS



BASE LINE DATA

PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
176	S 39° 30' 04" W	1220 + 68.30	608.13	8 953.84	51 817.70
177	S 43° 58' 58" W	1226 + 76.43	285.86	9 423.00	51 430.95
178	S 43° 58' 58" W	1229 + 62.29	150.07	9 734.90	51 129.92
179	S 4° 45' 55" W	1231 + 12.36	179.20	9 913.46	51 144.81
180	S 45° 07' 37" W	1232 + 91.56	424.35	10 212.80	50 844.14
181	S 45° 07' 37" W	1237 + 15.91	154.09	—	—
181A	S 45° 07' 37" W	1238 + 70.00	—	—	—
186	S 61° 42' 49" W	1254 + 35.78	271.24	10 920.91	49 962.59
187	S 68° 53' 08" W	1257 + 07.02	649.34	11 049.40	49 723.83
188	S 68° 53' 08" W	1263 + 56.36	—	11 283.20	49 118.36

SURVEY MONUMENTS

MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
56A	PIPE IN CONCRETE	10 047.72	50 685.19
56B	DITTO	10 141.87	50 465.23
57A	DO	10 952.53	49 733.91
57B	DO	10 839.37	49 550.74

NOTE
For descriptive location of monuments & bench marks see specifications.

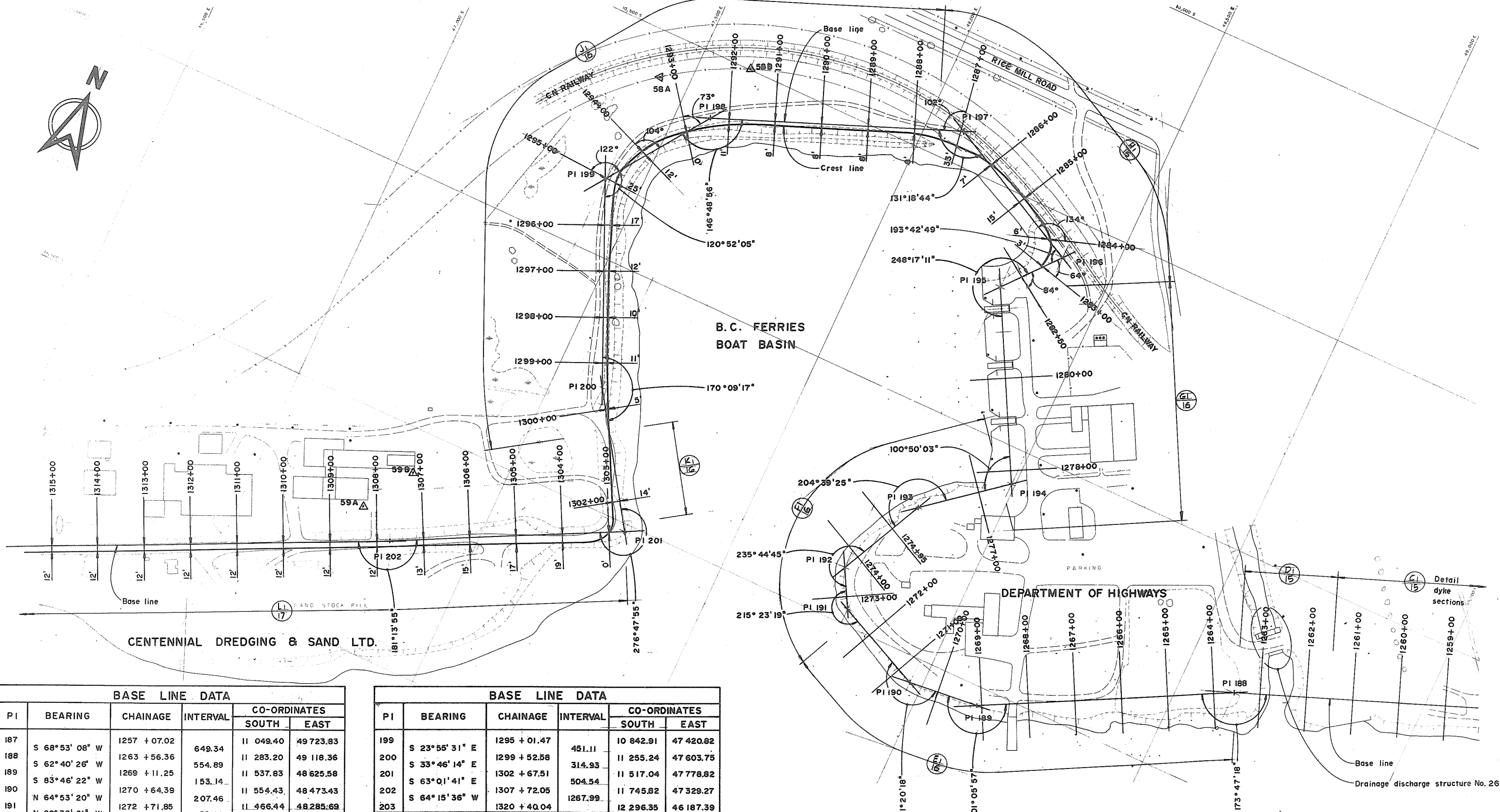
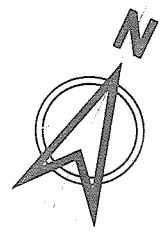


NOTES

• For Notes & Legend see 4795-15-3



NO.	BY	REVISIONS	DATE	RECOMMENDED <i>P.H. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DL & EMH</i>	SURVEYED
				DATE <i>Dec. 15/76</i>		DRAWN <i>Wn</i>	DATE
				APPROVED <i>W.L. Fuller</i> DIRECTOR	PROJECT NO. 3 — THE TOWNSHIP OF RICHMOND CONTACT NO. 15 ALIGNMENT — PLAN CH 122+00 TO CH 1260+00	CHECKED <i>DL</i>	FILE NO. <i>0281550-C10-15</i>
				DATE <i>Dec. 15/76</i>		SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
						DWG. NO. <i>4795-15-7</i>	SHEET <i>...</i> OF <i>...</i> SHEETS



BASE LINE DATA

PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
187	S 68°53' 08" W	1257 + 07.02	649.34	11 049.40	49 723.83
188	S 62°40' 26" W	1263 + 56.36	554.89	11 283.20	49 118.36
189	S 83°46' 22" W	1269 + 11.25	153.14	11 537.83	48 625.58
190	N 64°53' 20" W	1270 + 64.39	207.46	11 554.43	48 473.43
191	N 29°30' 01" W	1272 + 71.85	89.92	11 466.44	48 285.69
192	N 26°14' 44" E	1273 + 61.77	204.14	11 388.22	48 241.43
193	N 50°54' 09" E	1275 + 65.91	206.38	11 205.18	48 331.68
194	N 28°15' 49" W	1277 + 72.29	426.17	11 075.00	48 491.87
195	N 40°01' 22" E	1281 + 98.46	150.13	10 699.83	48 290.17
196	N 62°55' 16" W	1283 + 48.59	344.40	10 584.87	48 386.72
197	S 68°23' 28" W	1286 + 92.99	547.49	10 428.13	48 080.13
198	S 35°12' 25" W	1292 + 40.48	260.99	10 842.91	47 420.82
199		1295 + 01.47			

BASE LINE DATA

PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
199	S 23°55' 31" E	1295 + 01.47	451.11	10 842.91	47 420.82
200	S 33°46' 14" E	1299 + 52.58	314.93	11 255.24	47 603.75
201	S 63°01' 41" E	1302 + 67.51	504.54	11 517.04	47 778.82
202	S 64°15' 36" W	1307 + 72.05	1267.99	11 745.82	47 329.27
203		1320 + 40.04		12 296.35	46 187.39

SURVEY MONUMENTS

MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
58A	PIPE IN CONCRETE	10 595.34	47 435.09
58B	DITTO	10 496.61	47 607.16
59A	DO	11 701.47	47 246.51
59B	DO	11 590.29	47 311.61

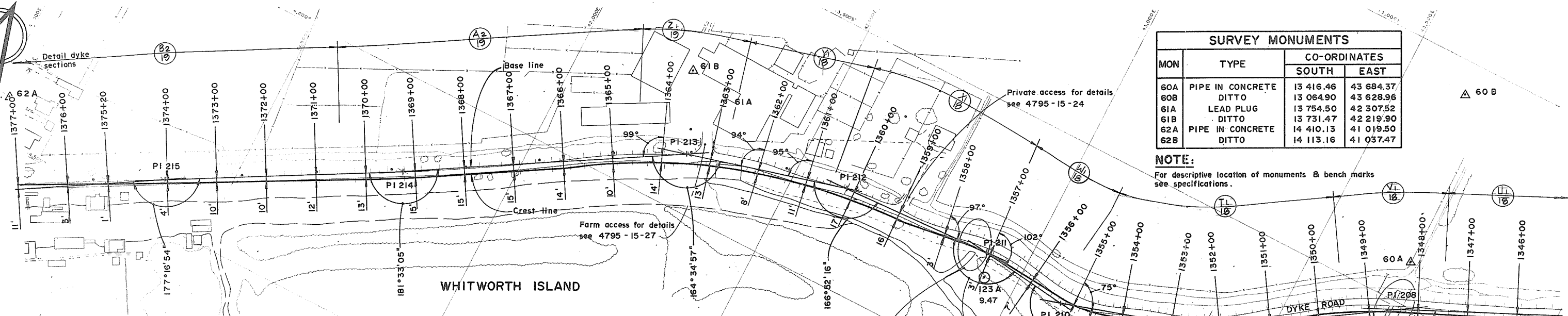
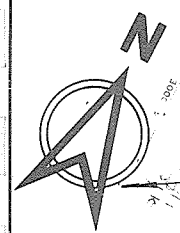
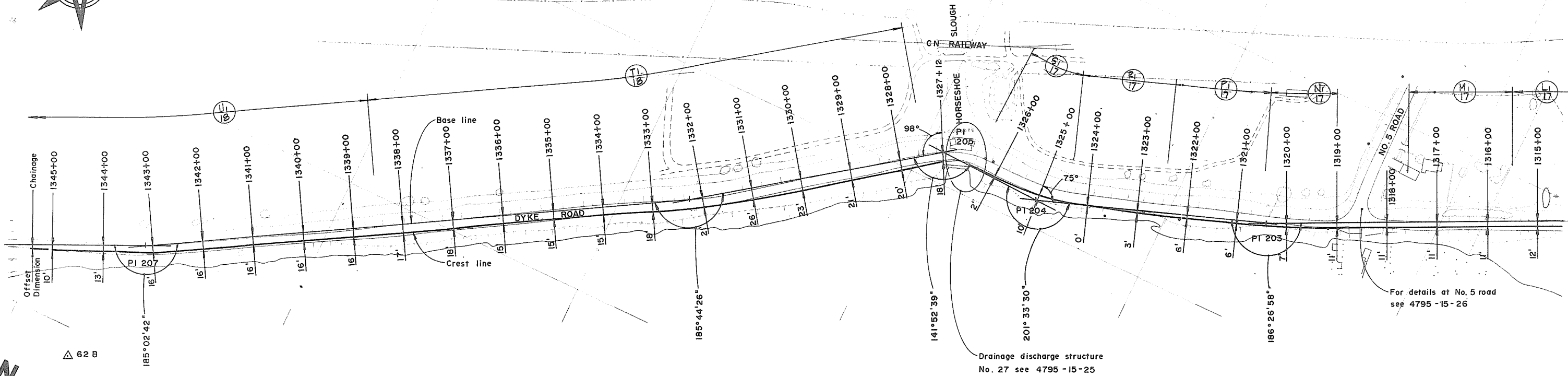
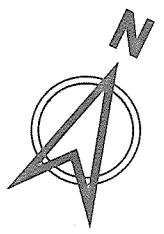
NOTE:
For descriptive location of monuments & bench marks see specifications.



NOTES
For Notes & Legend see 4795-15-3



NO. BY	REVISIONS	DATE	RECOMMENDED <i>P. N. Cormier</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DL & EMH</i>	SURVEYED
			DATE <i>Dec. 15/76</i>		DRAWN <i>Wn</i>	DATE
			APPROVED <i>W. Fuller</i> DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND	CHECKED <i>DL</i>	FILE NO. 0281550-C10-15
			DATE <i>Dec. 15/76</i>	ALIGNMENT PLAN	SCALE AS SHOWN	DATE Jan 1977
				CH 160+00 TO CH 1315+00	DWG. NO. 4795-15-B	SHEET OF SHEETS

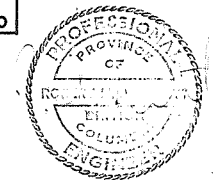
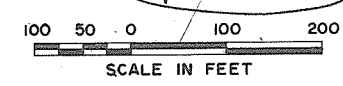


SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
60A	PIPE IN CONCRETE	13 416.46	43 684.37
60B	DITTO	13 064.90	43 628.96
61A	LEAD PLUG	13 754.50	42 307.52
61B	DITTO	13 731.47	42 219.90
62A	PIPE IN CONCRETE	14 410.13	41 019.50
62B	DITTO	14 113.16	41 037.47

NOTE:
For descriptive location of monuments & bench marks see specifications.

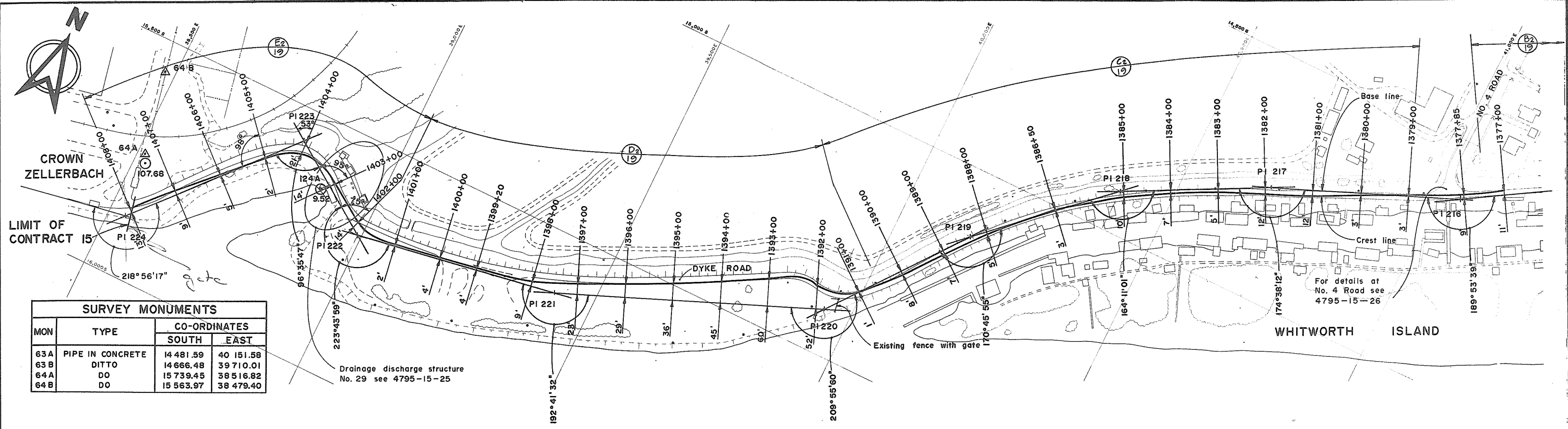
BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
202	S 64° 15' 36" W	1307 + 72.05	1267.99	11 745.82	47 329.27
203	S 70° 42' 34" W	1320 + 40.04	463.91	12 296.35	46 187.39
204	N 87° 43' 56" W	1325 + 03.95	207.49	12 449.56	45 749.65
205	S 54° 08' 54" W	1327 + 11.44	514.32	12 441.35	45 542.38
206	S 59° 53' 10" W	1332 + 25.76	1089.00	12 742.54	45 125.62
207	S 64° 55' 51" W	1343 + 14.76	521.47	13 288.77	44 183.84
208	S 57° 15' 23" W	1348 + 36.23	398.84	13 509.67	43 711.61
209	S 73° 04' 15" W	1352 + 35.07	292.81	13 725.34	43 376.23
210	N 83° 13' 30" W	1355 + 27.88	178.25	13 810.58	43 096.19
211		1357 + 06.13		13 789.56	42 919.23

BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
211	S 87° 56' 34" W	1357 + 06.13	311.45	13 789.56	42 919.23
212	S 74° 48' 50" W	1360 + 17.58	332.12	13 800.74	42 608.08
213	S 59° 23' 47" W	1363 + 49.70	574.23	13 887.71	42 287.65
214	S 60° 56' 52" W	1369 + 23.93	479.57	14 179.98	41 793.52
215	S 58° 13' 46" W	1374 + 03.50	389.19	14 412.80	41 374.40
216		1377 + 92.69		14 617.67	41 043.60



RECOMMENDED <i>R. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>plc & EMH</i>	SURVEYED
DATE <i>Dec 15/76</i>		DRAWN <i>Wn</i>	DATE
APPROVED <i>W. J. Fuller</i> DIRECTOR	PROJECT NO. 3 — THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 ALIGNMENT PLAN CH 315 + 00 TO CH 1377 + 00	CHECKED <i>plc</i>	FILE NO. 0281550-C10-15
DATE <i>Dec 15/76</i>		SCALE AS SHOWN	DATE <i>Jan 1977</i>
		DWG. NO. 4795-15-9	SHEET OF SHEETS

NOTES
For Notes & Legend see 4795-15-3

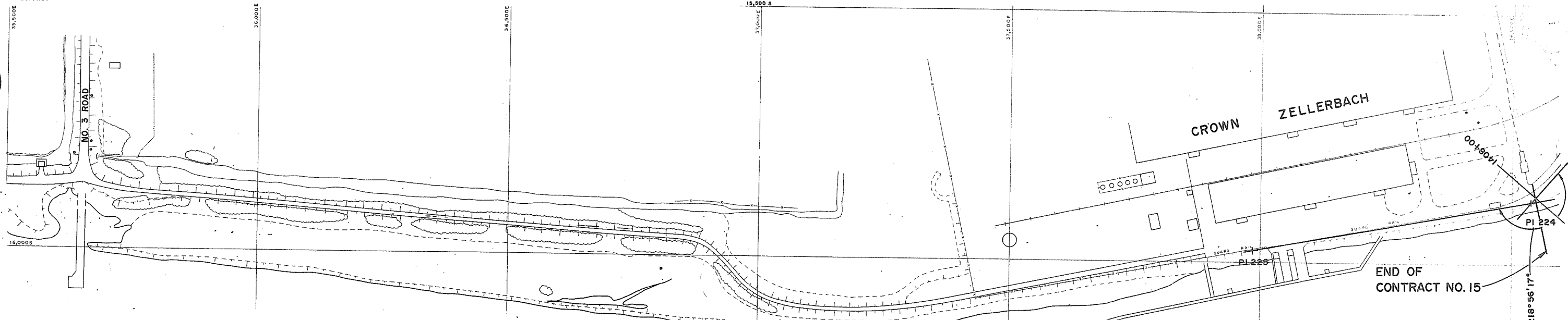


SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
63 A	PIPE IN CONCRETE	14 481.59	40 151.58
63 B	DITTO	14 666.48	39 710.01
64 A	DO	15 739.45	38 516.82
64 B	DO	15 563.97	38 479.40

Drainage discharge structure
No. 29 see 4795-15-25

For details at
No. 4 Road see
4795-15-26

NOTE:
For descriptive location of monuments & bench marks
see specifications.



BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
215		1374 + 03.50		14 412.80	41 374.40
216	S 58° 13' 46" W	1377 + 92.69	389.19	14 617.67	41 043.60
217	S 68° 07' 24" W	1381 + 88.21	395.52	14 765.00	40 676.66
218	S 62° 45' 37" W	1385 + 07.77	319.56	14 911.23	40 392.62
219	S 46° 56' 37" W	1388 + 36.16	328.39	15 135.38	40 152.72
220	S 37° 42' 33" W	1391 + 80.62	344.46	15 407.84	39 942.06
221	S 67° 38' 33" W	1397 + 48.59	567.97	15 623.42	39 417.95

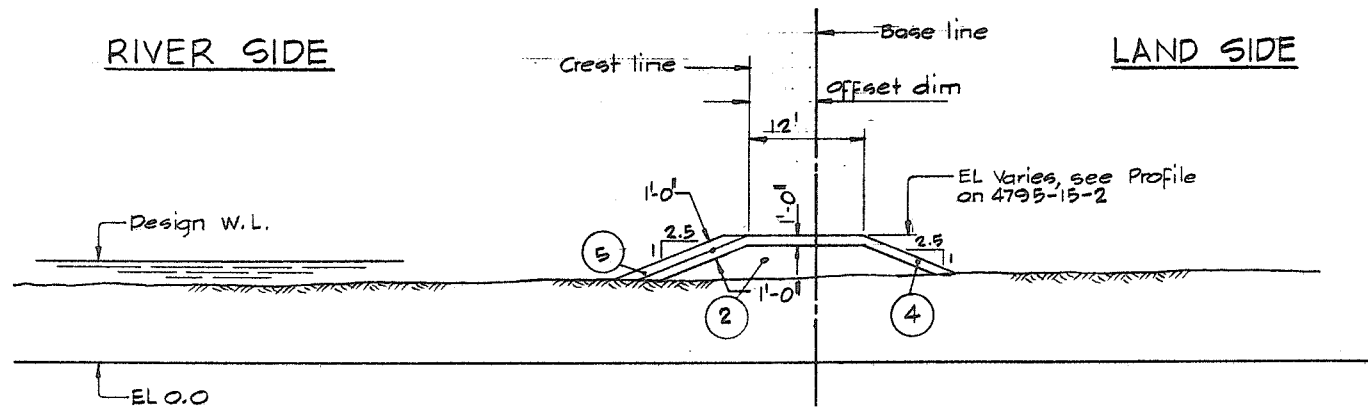
BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
221	S 80° 20' 05" W	1397 + 48.59	432.10	15 623.42	39 417.95
222	N 55° 55' 56" W	1401 + 80.69	229.69	15 695.94	38 992.11
223	S 40° 39' 51" W	1404 + 10.38	404.83	15 567.30	38 801.67
224	S 79° 36' 08" W	1408 + 15.21	561.64	15 874.32	38 538.12
225		1413 + 76.85		15 975.66	37 985.86



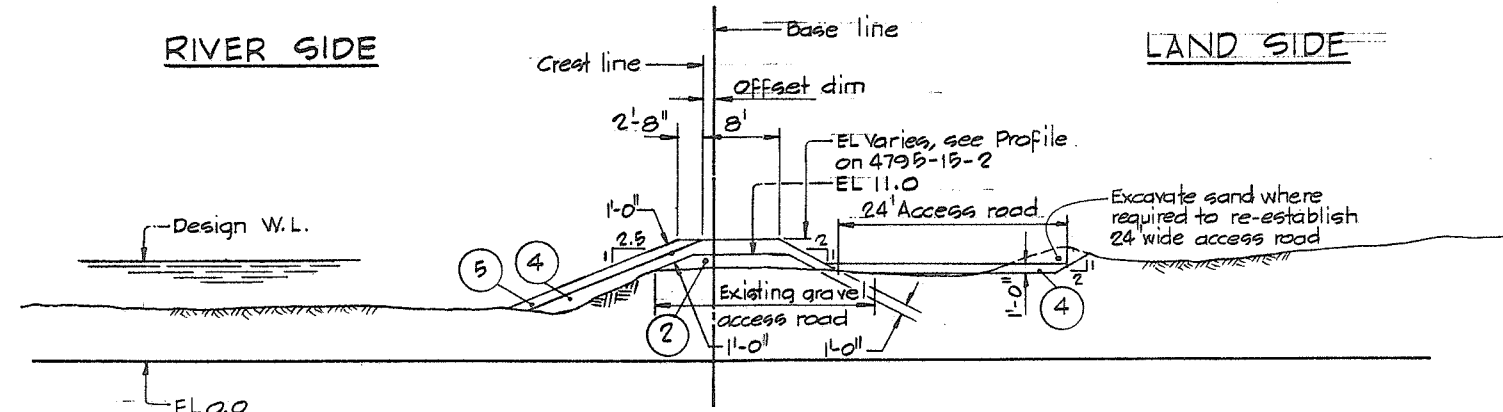
NOTES
For Notes & Legend see 4795-15-3



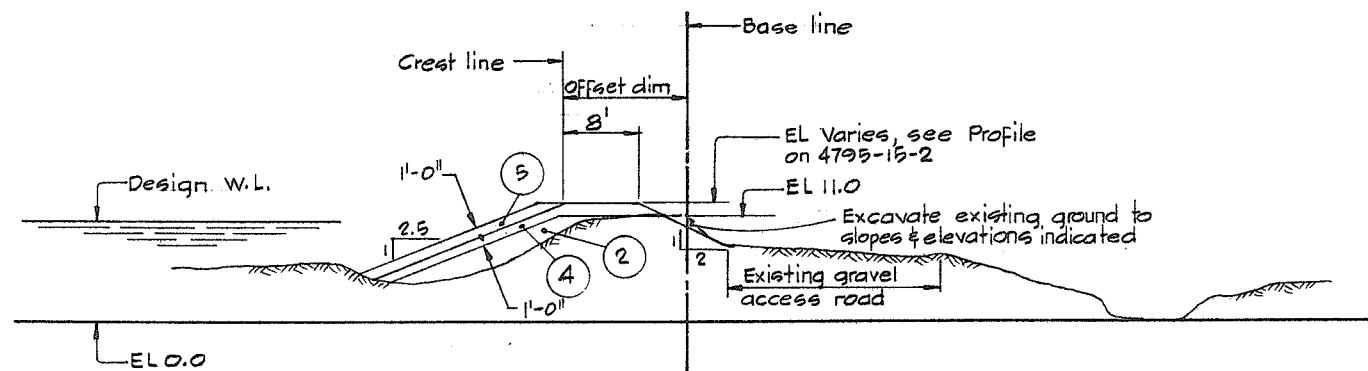
NO.	BY	REVISIONS	DATE	RECOMMENDED <i>B.H. Bennett</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLG & EMH</i>	SURVEYED
				DATE <i>Dec. 15/76</i>		DRAWN <i>Wn</i>	DATE
				APPROVED <i>[Signature]</i> DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 ALIGNMENT PLAN CH 1377 + 00 TO CH 1408 + 00	CHECKED <i>ac</i>	FILE NO. <i>0281550-C10-15</i>
				DATE <i>Dec. 15/76</i>		SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
						DWG. NO. <i>4795-15-10</i>	SHEET <i>.....</i> OF <i>.....</i> SHEETS



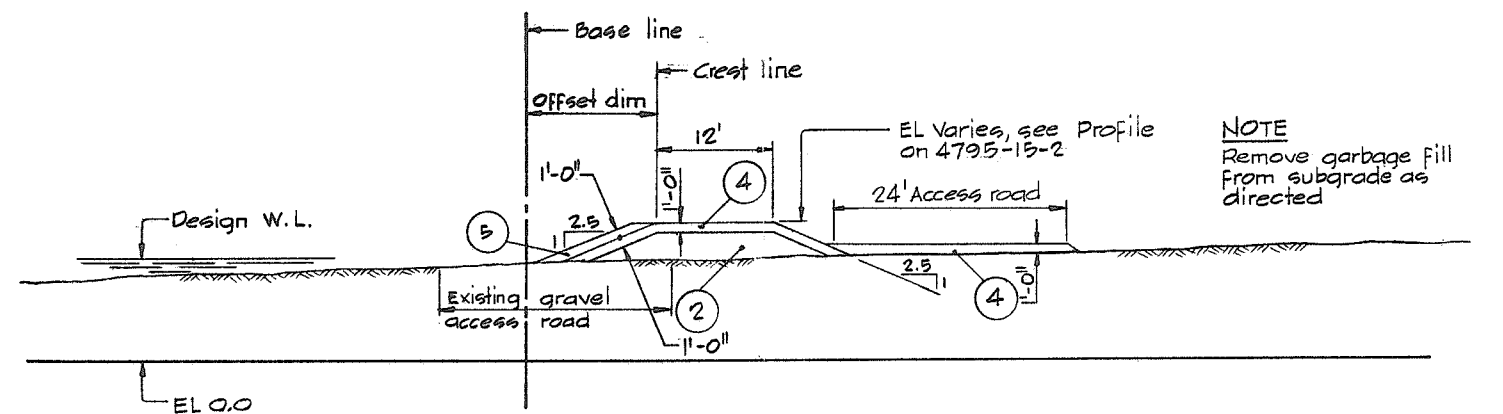
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 CH 1039+60 TO 1041+00



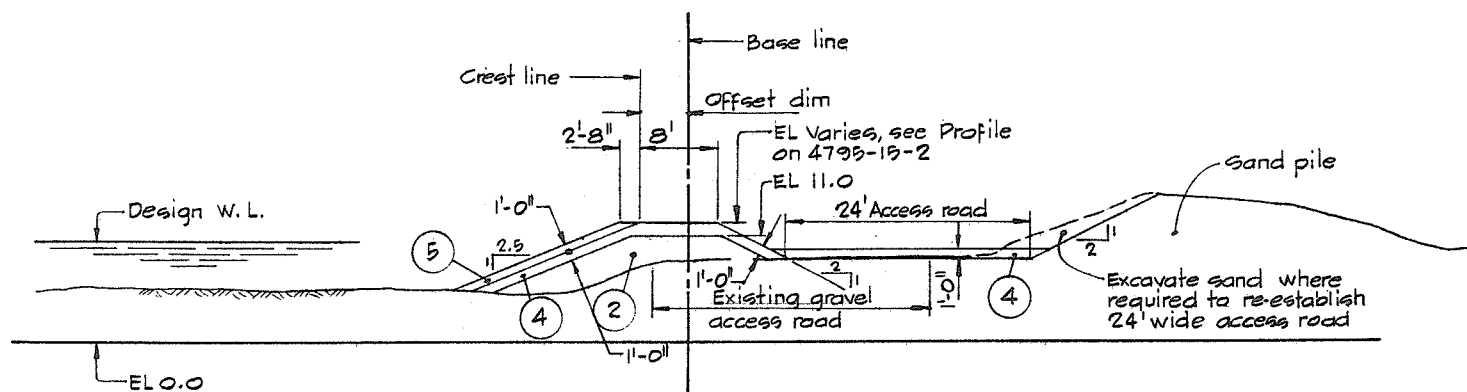
SECTION $\frac{D}{3}$
 TYP BTWN CH 1064+50 TO 1069+50



SECTION $\frac{B}{3}$
 TYP BTWN CH 1045+00 TO 1061+50



SECTION $\frac{E}{3}$
 TYP BTWN CH 1069+50 TO 1072+50



SECTION $\frac{C}{3}$
 TYP BTWN CH 1061+50 TO 1064+50

NOTE
 Remove garbage fill
 from subgrade as
 directed

MATERIALS LEGEND

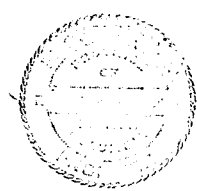
- ① silt-clay
- ② sand
- ③ sand gravel & cobbles
- ④ crushed gravel
- ⑤ light rip-rap
- ⑥ rip-rap

LEGEND

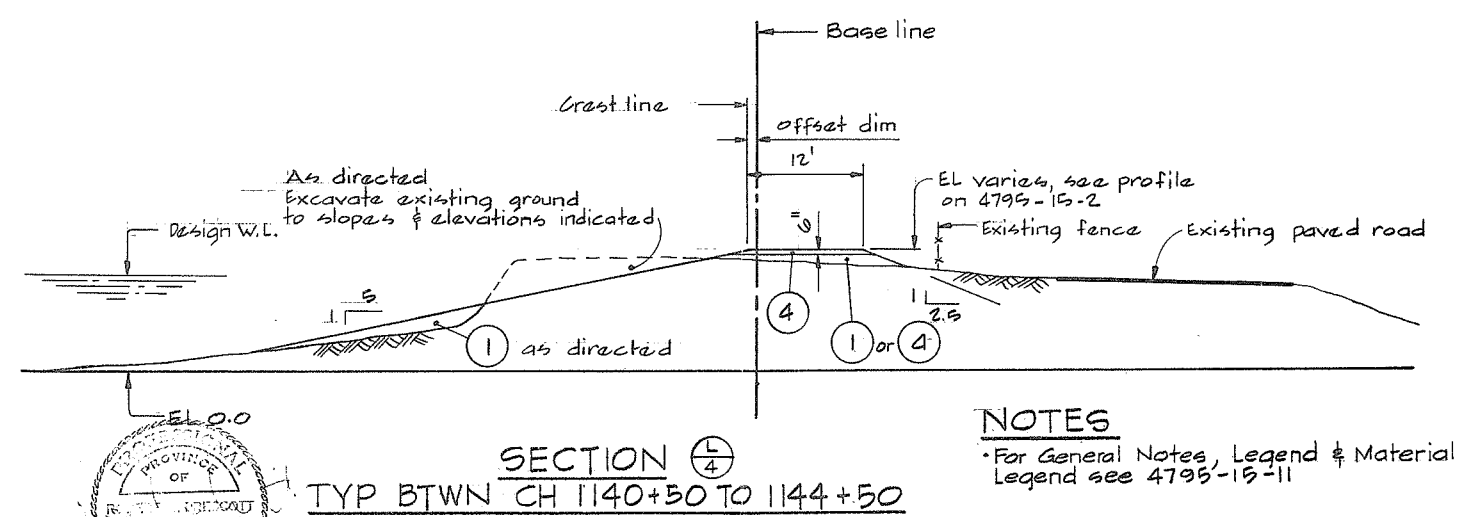
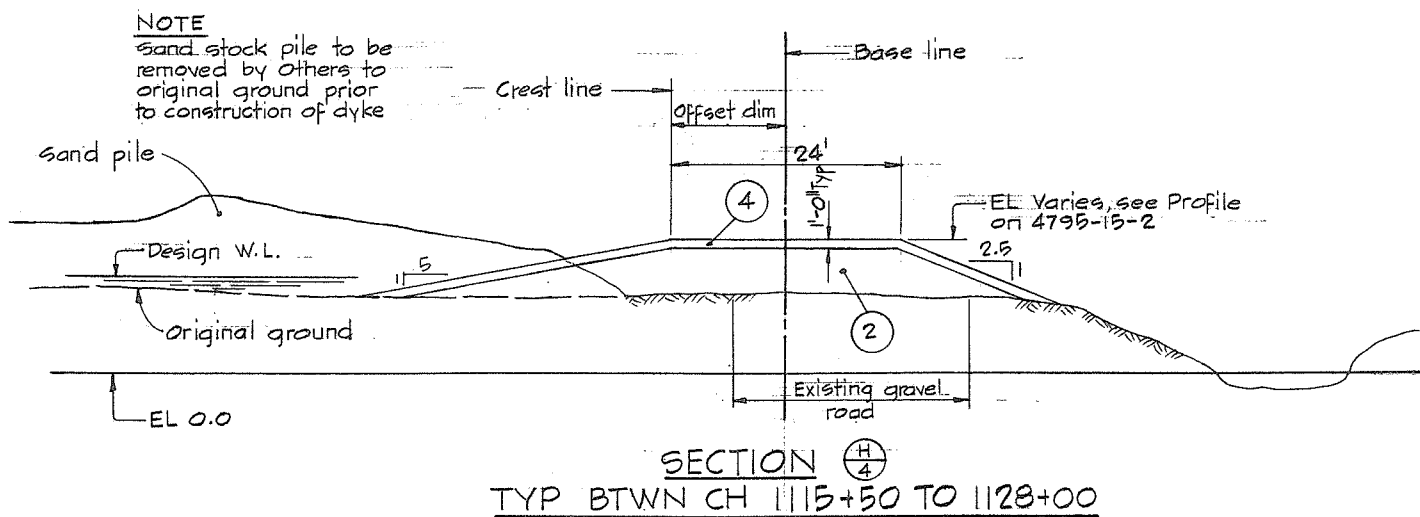
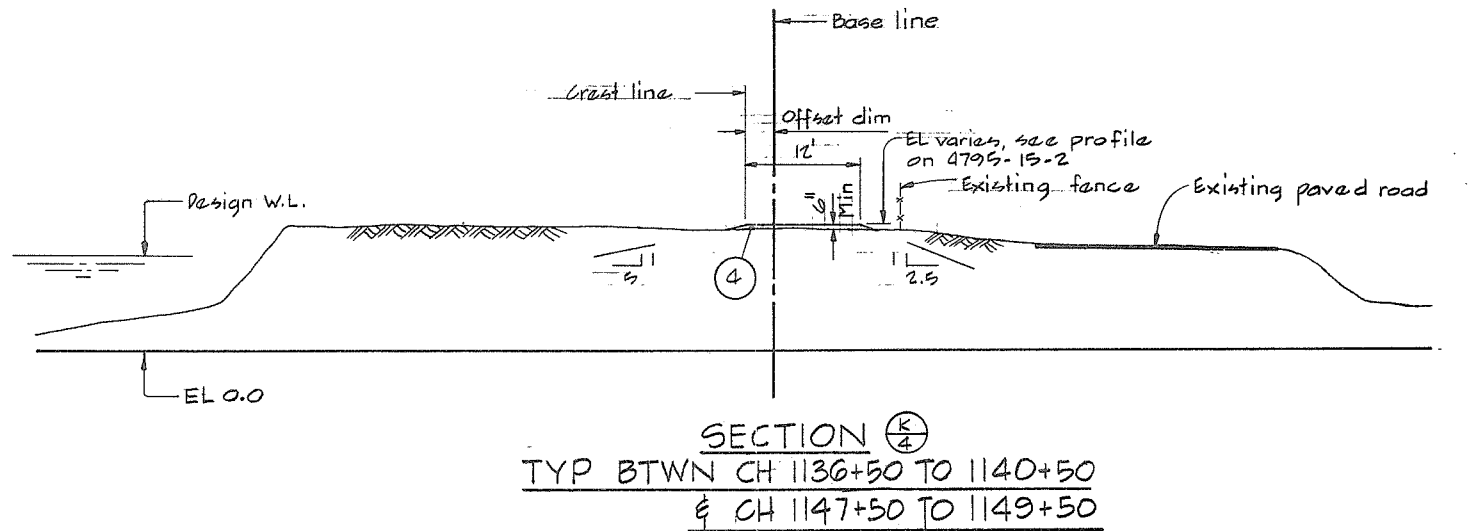
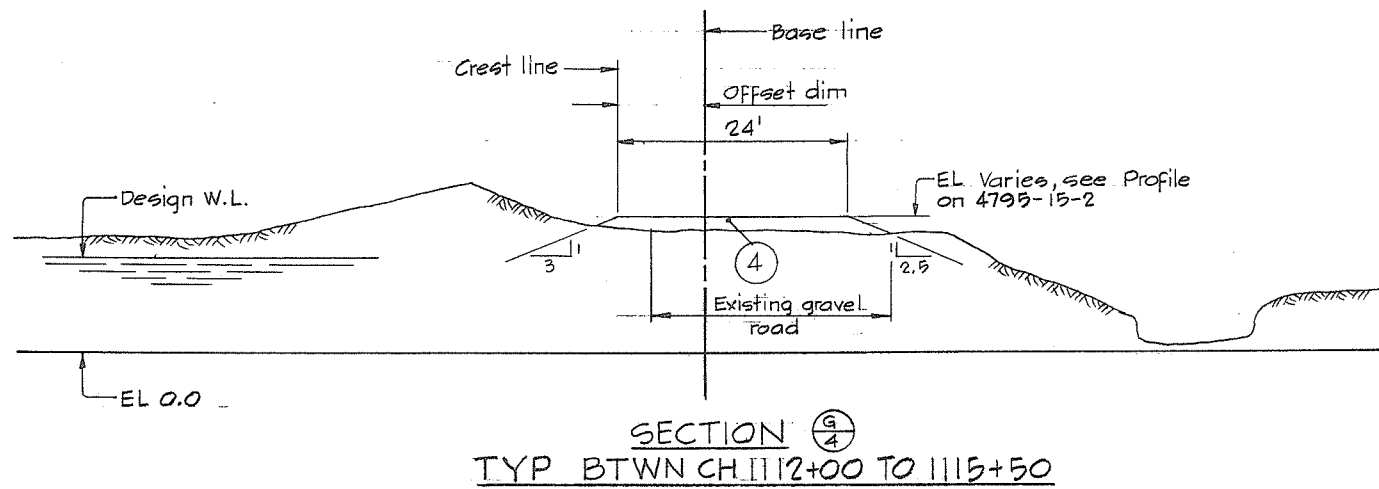
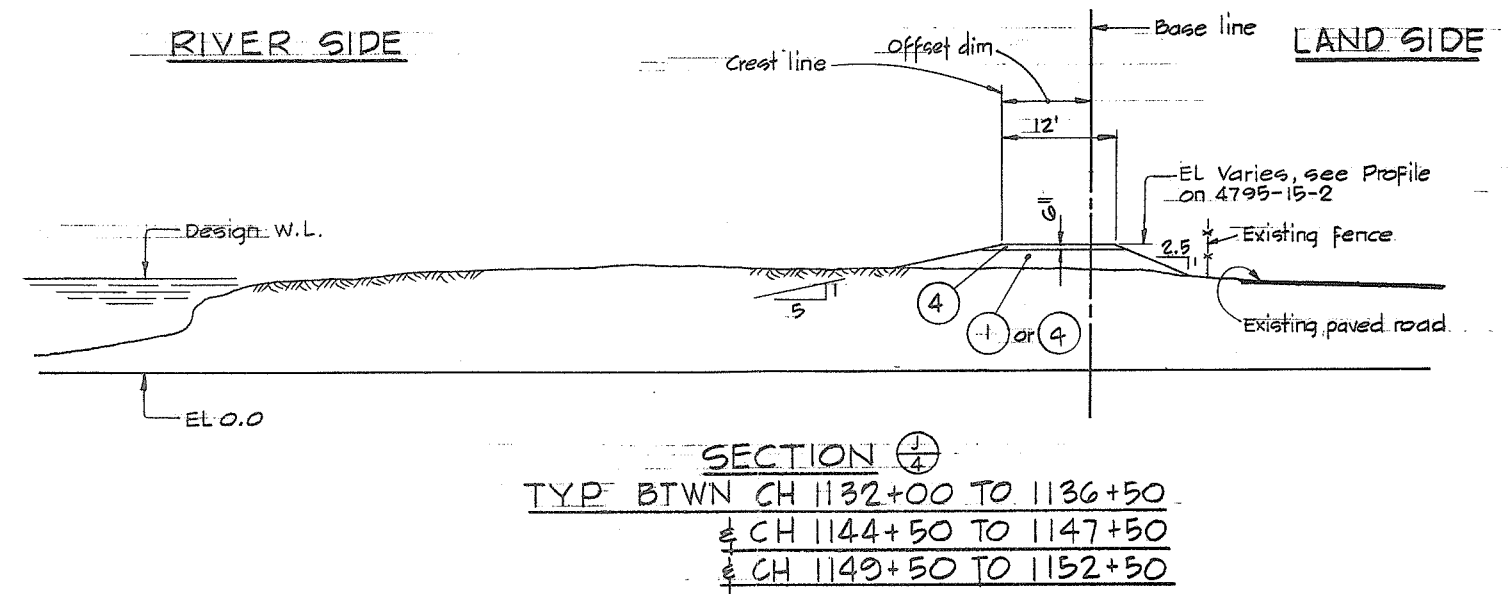
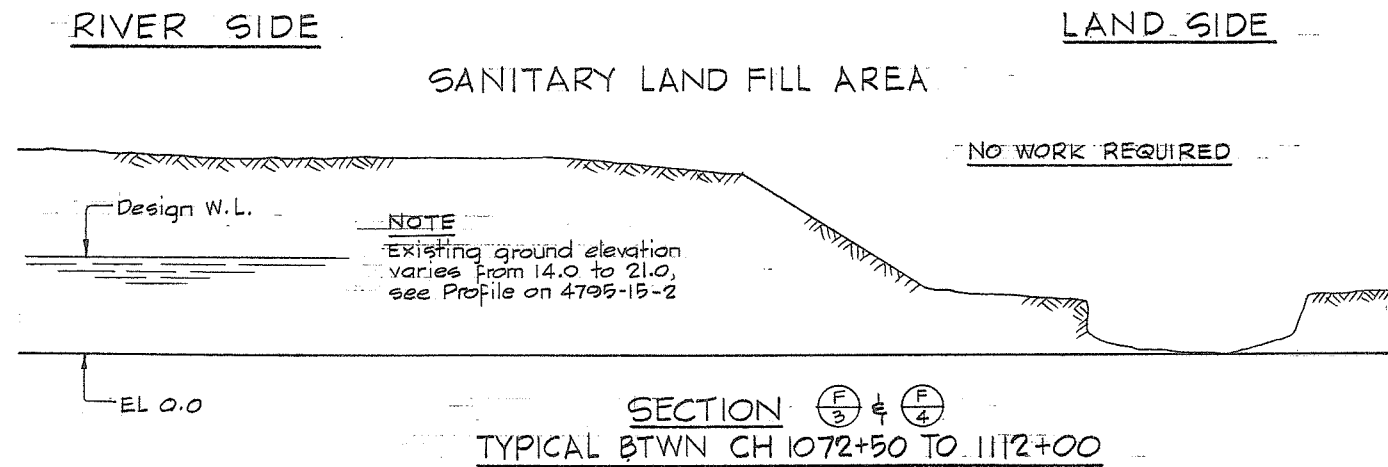
- Existing ground
- $\frac{A}{3}$ Section identification letter
Drawing No. on which section is located (ie 4795-15-3)
- $\frac{2}{3}$ Detail identification number
Drawing No. on which detail is located (ie 4795-15-9)

NOTES

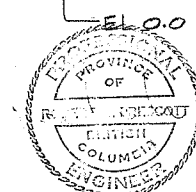
- Elevations refer to the Geodetic Survey of Canada.
- Offset distances from base line to crest line are taken at the design crest elevation.
- Terminal parts of the work shall be constructed to blend with the existing bank.
- For Design Crest Elevation see Profile on 4795-15-2.
- For overbuilding of dyke sections $\frac{A}{3}$ to $\frac{M}{3}$ and location of settlement plates see 4795-15-20.




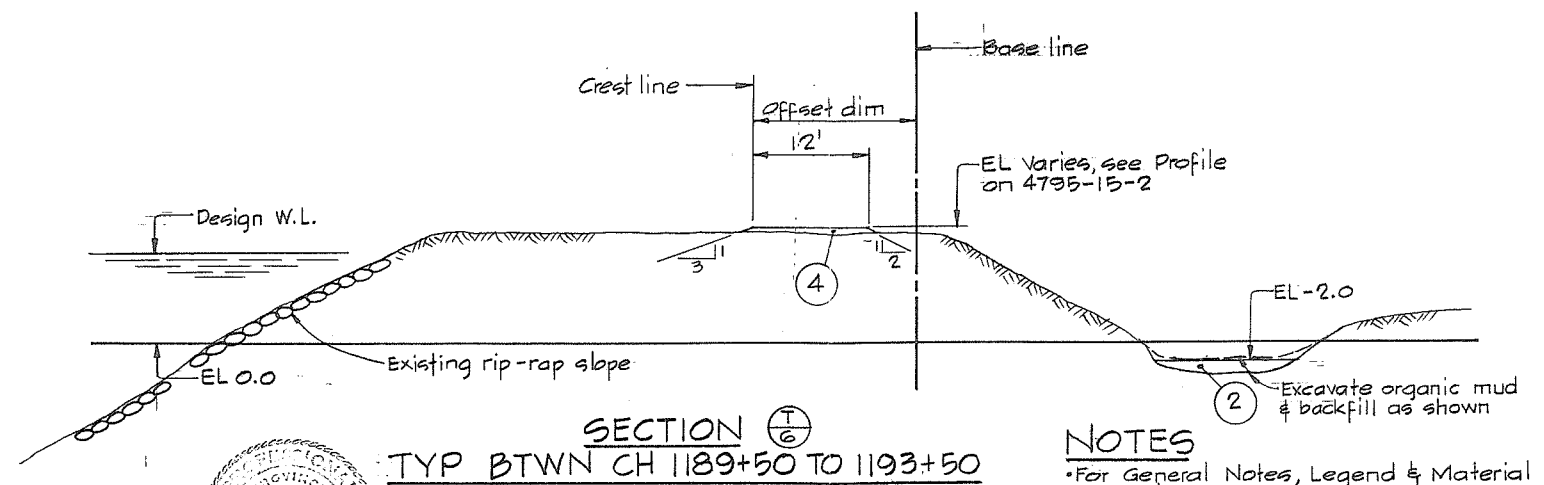
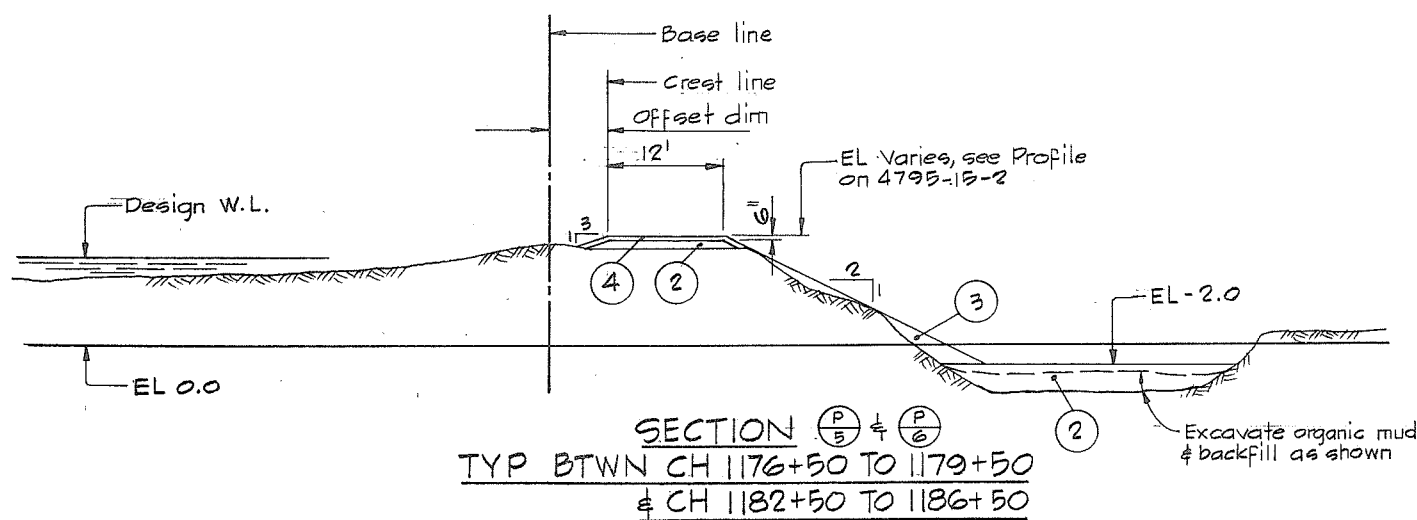
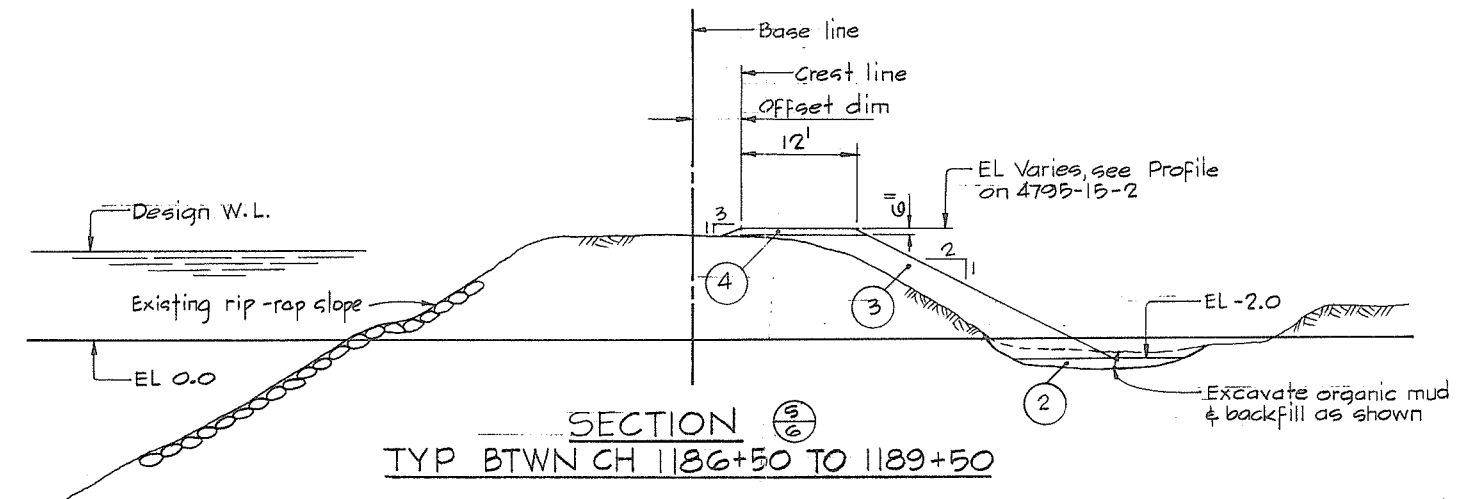
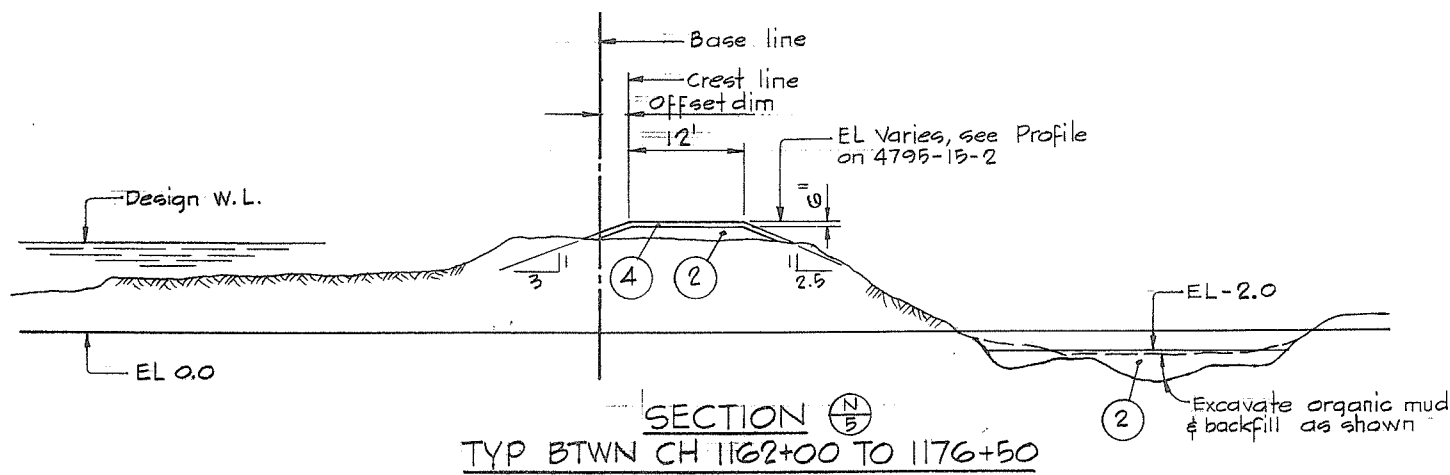
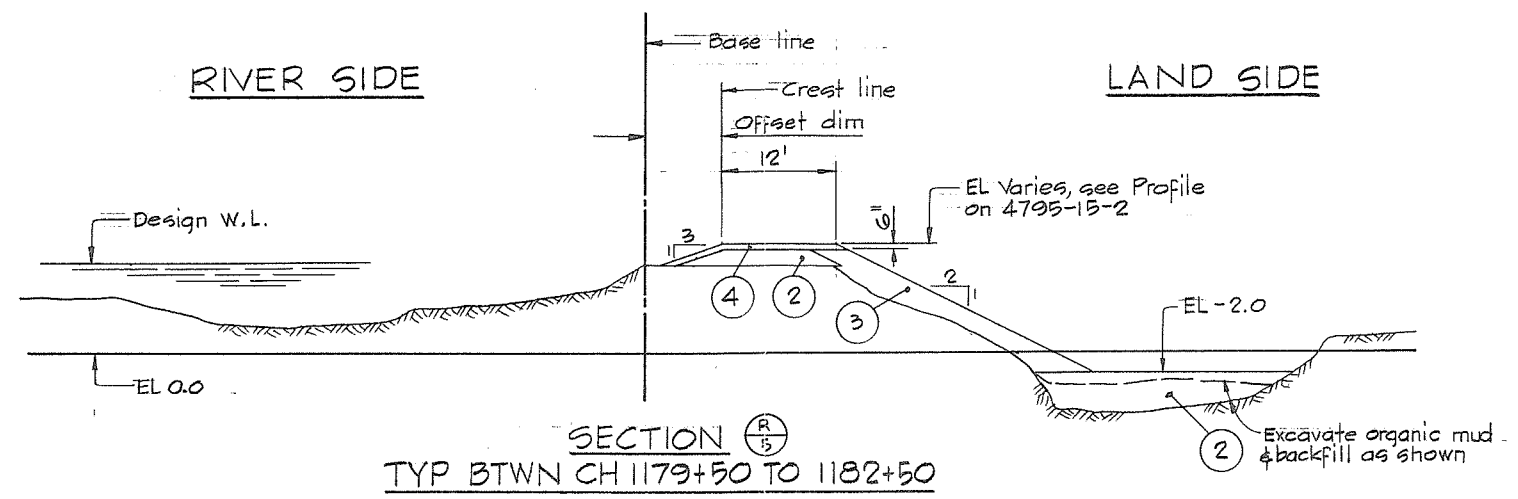
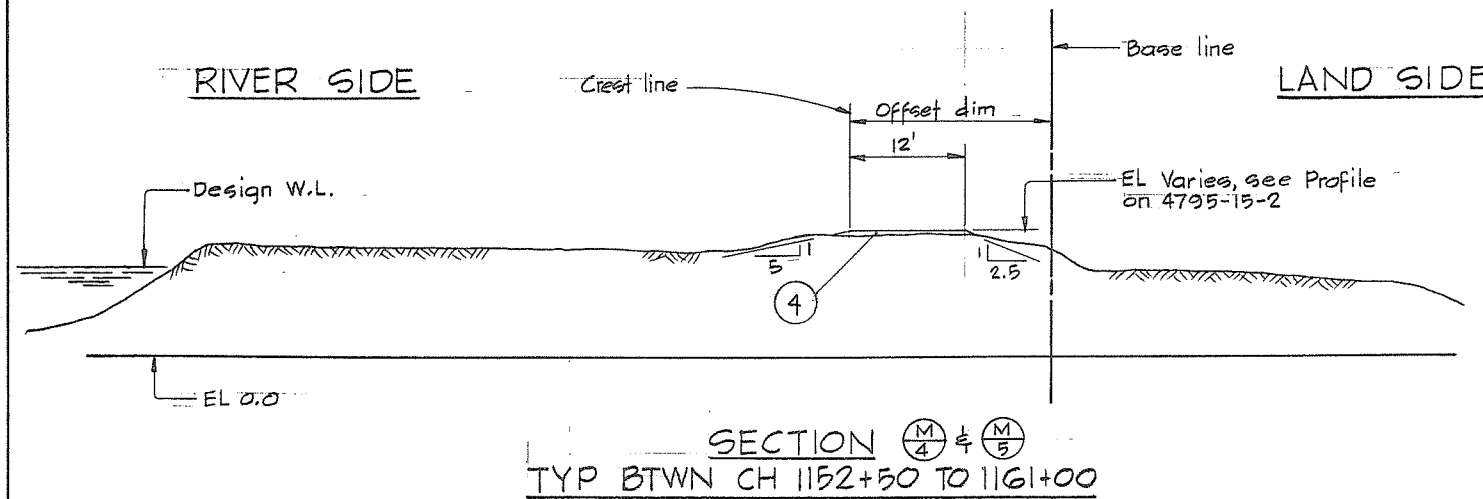
CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO.	BY	REVISIONS	DATE	RECOMMENDED <i>A.W. Cameron</i> PROJECT MANAGER DATE <i>Dec. 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>PLC & FMH</i> DRAWN <i>W.Z.</i> CHECKED <i>PLC</i> SCALE AS SHOWN DWG. NO. 4795-15-11	SURVEYED DATE FILE NO. 0281550-C10-15 DATE Jan 1977 SHEET 1 OF 9 SHEETS
	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 TYPICAL DYKE SECTIONS							



NOTES
 For General Notes, Legend & Material Legend see 4795-15-11



 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO. BY REVISIONS DATE	RECOMMENDED <i>B. H. Cameron</i> PROJECT MANAGER. DATE <i>Dec. 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC & EMH</i> SURVEYED
		APPROVED <i>John Fuller</i> for DIRECTOR DATE <i>Dec 15/76</i>	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 TYPICAL DYKE SECTIONS	DRAWN <i>WZ</i> CHECKED <i>DLC</i> SCALE AS SHOWN DWG. NO. 4795-15-12



NOTES
 For General Notes, Legend & Material Legend see 4795-15-11



CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

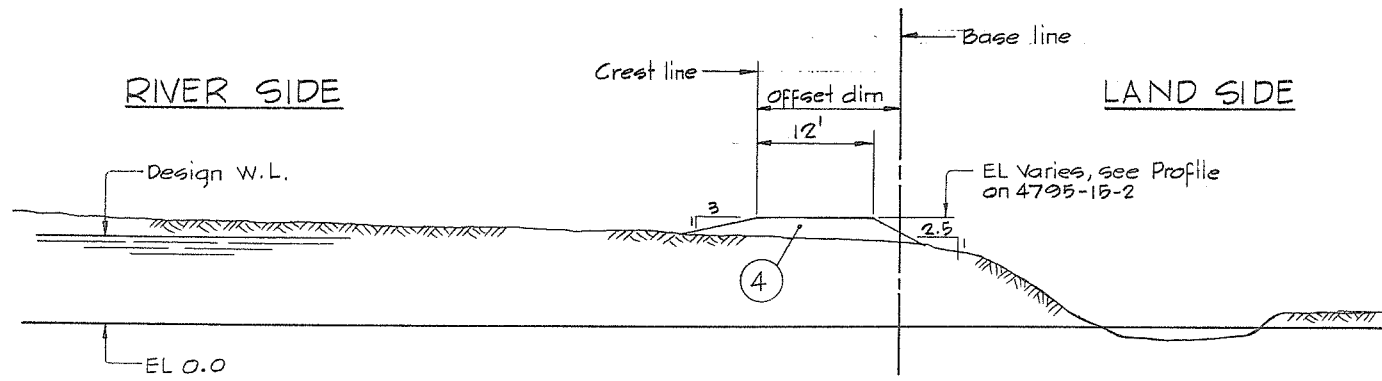
NO.	BY	REVISIONS	DATE

RECOMMENDED: *B.H. Cameron*
 PROJECT MANAGER
 DATE: Dec 15/76
 APPROVED: *W. Fuller*
 DIRECTOR
 DATE: Dec 15/76

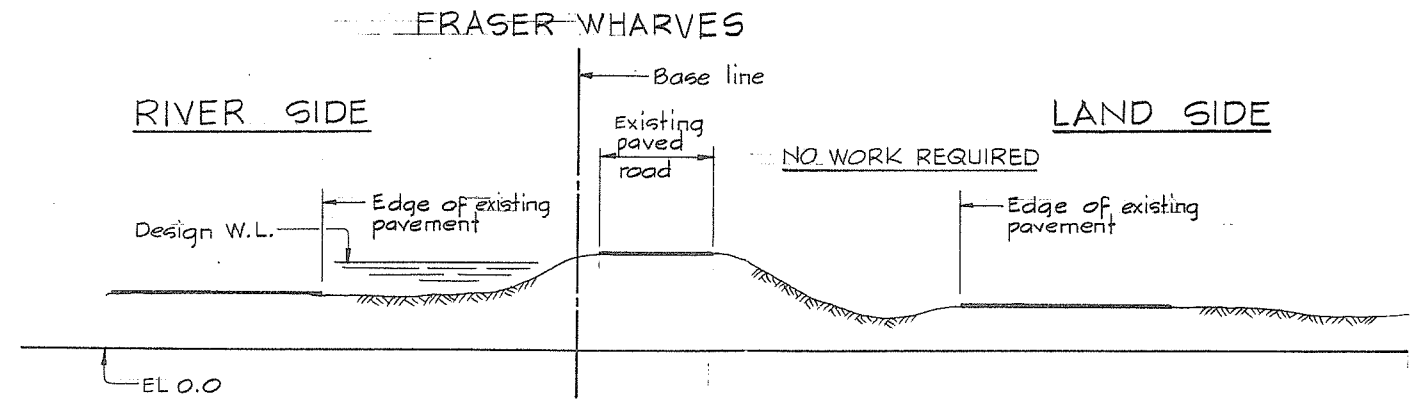
BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT: NO. 3 THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 TYPICAL DYKE SECTIONS

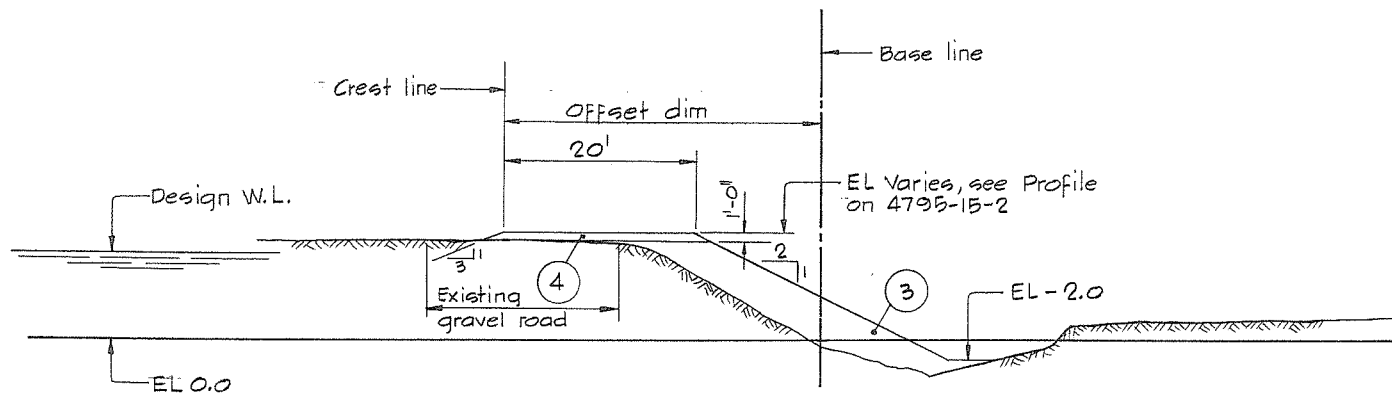
DESIGNED: <i>DL & EMH</i>	SURVEYED
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SCALE: AS SHOWN	DATE: Jan 1977
DWG. NO. 4795-15-13	SHEET 3 OF 9 SHEETS



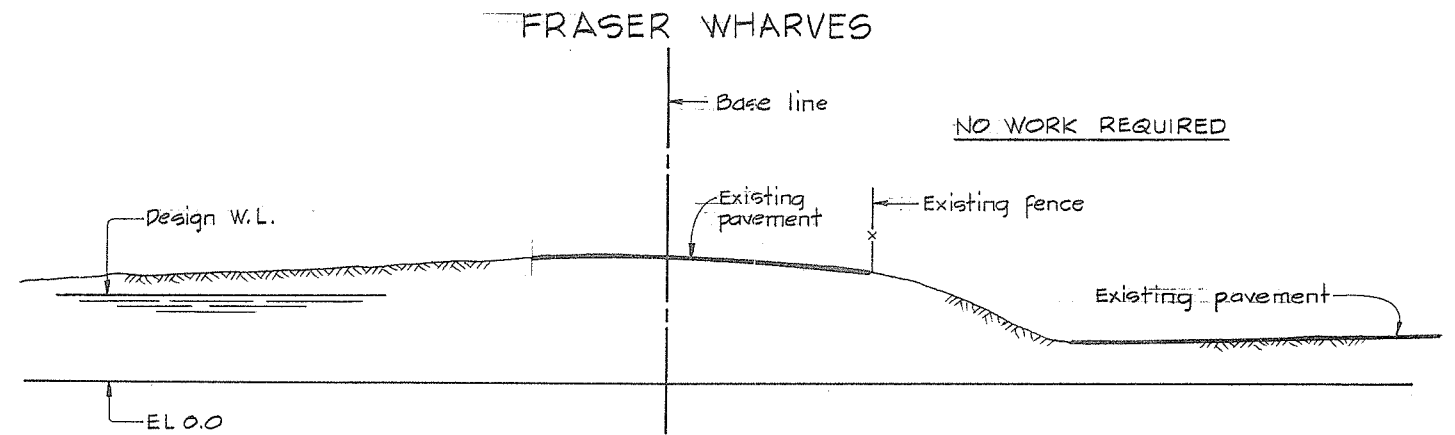
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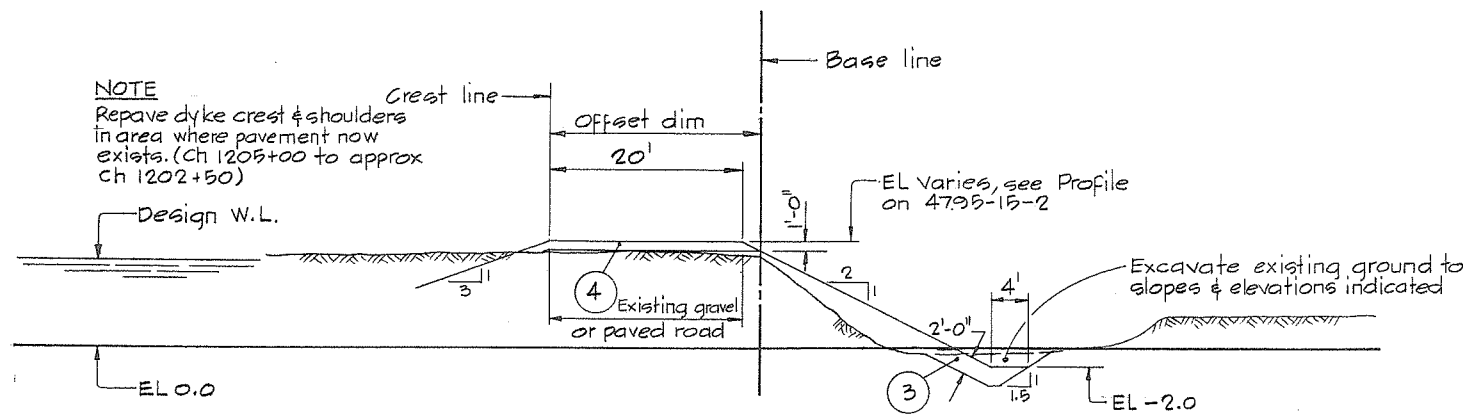
SECTION $\frac{X}{6}$
TYP BTWN CH 1206+50 TO 1216+00



SECTION $\frac{V}{6}$
TYP BTWN CH 1194+50 TO 1196+50



SECTION $\frac{Y}{6}$ & $\frac{Y}{7}$
TYP BTWN CH 1216+00 TO 1233+50



SECTION $\frac{W}{6}$
TYP BTWN CH 1196+50 TO 1205+00

NOTE
Repave dyke crest & shoulders
in area where pavement now
exists. (Ch 1205+00 to approx
Ch 1202+50)



NOTES
For General Notes, Legend & Material
Legend see 4795-15-11



CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED	<i>P. R. Dawson</i>	PROJECT MANAGER
DATE	Dec. 15/76	
APPROVED	<i>M. G. Sullivan</i>	for DIRECTOR
DATE	Dec. 15/76	

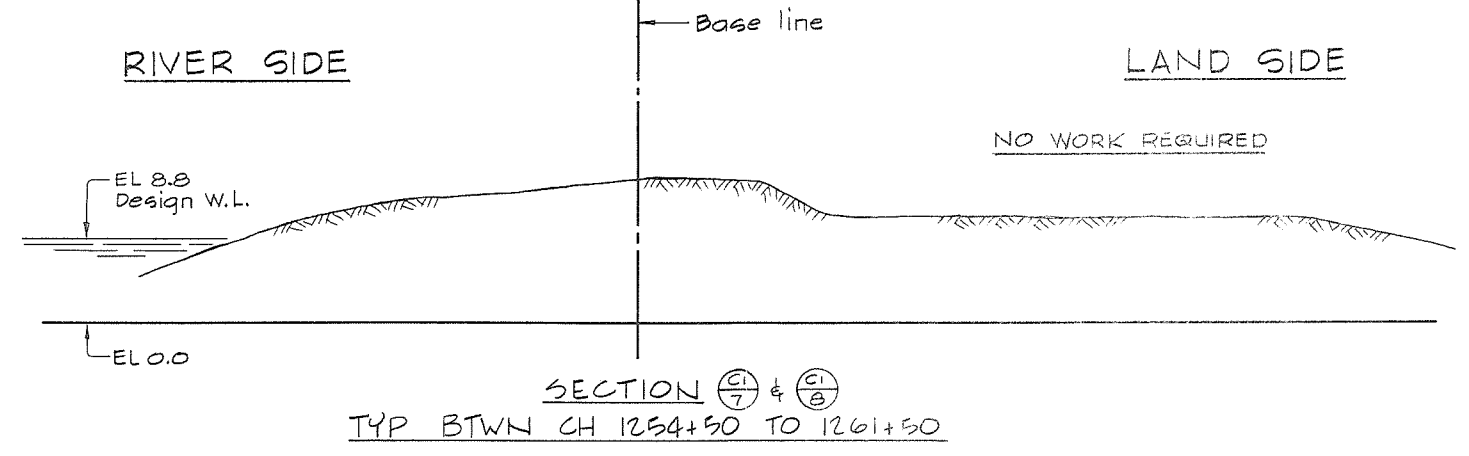
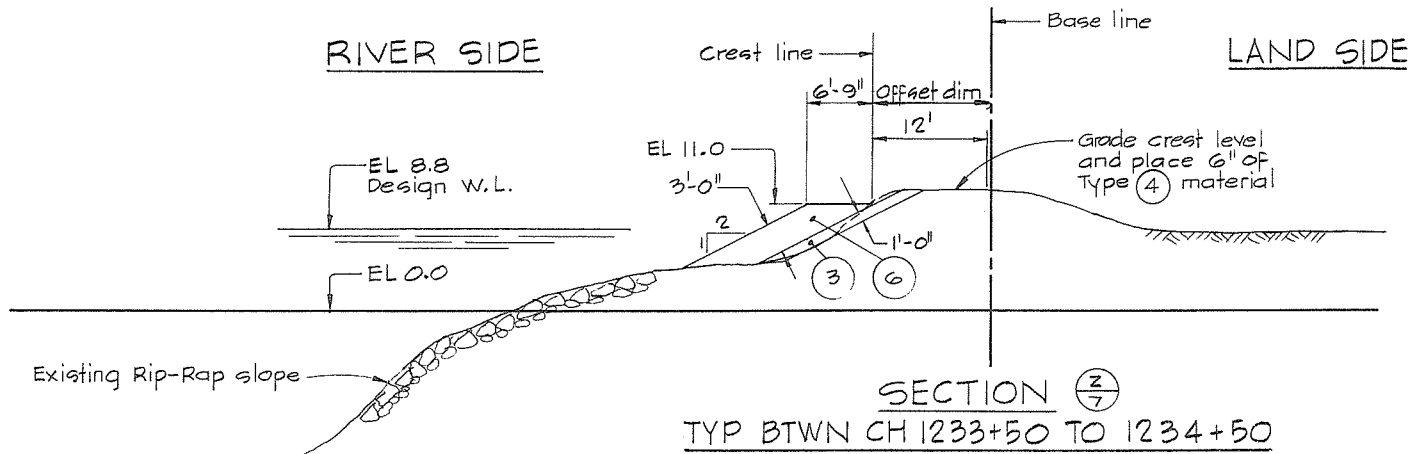
BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
TYPICAL DYKE SECTIONS

DESIGNED	DL & EMH	SURVEYED	
DRAWN	WZ	DATE	
CHECKED	DL	FILE NO.	0281550-C10-15
SCALE	AS SHOWN	DATE	Jan 1977
DWG. NO.	4795-15-14	SHEET	4 OF 9 SHEETS

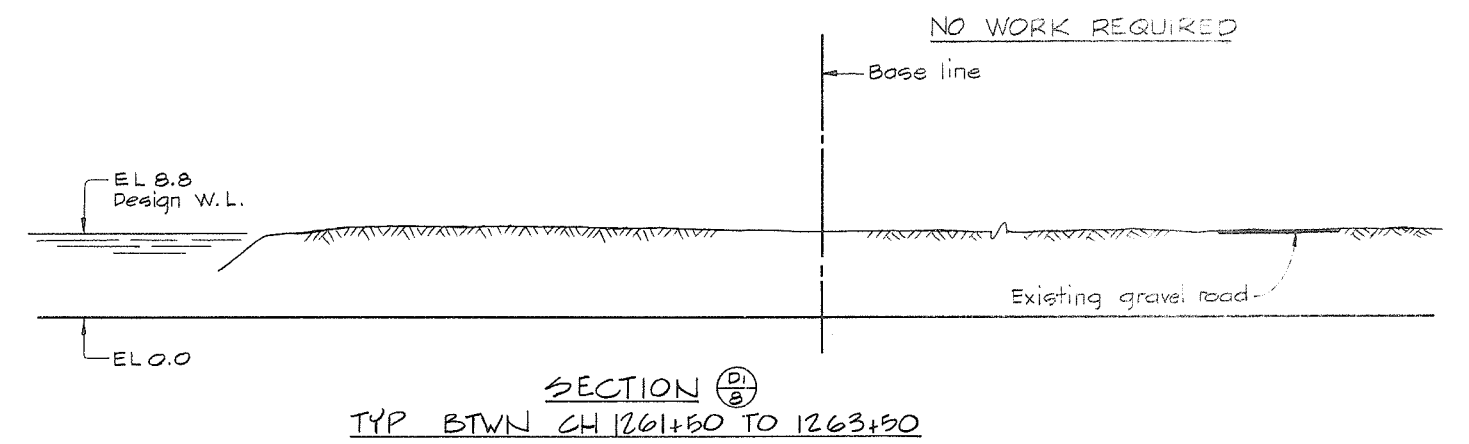
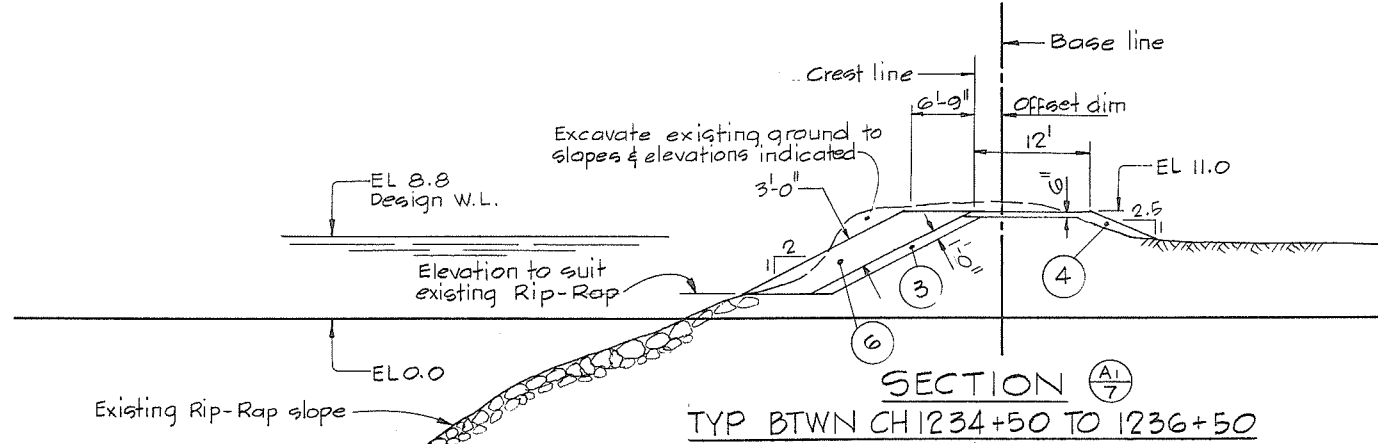
DELTA FOOD PROCESSORS LTD

MASSEY TUNNEL

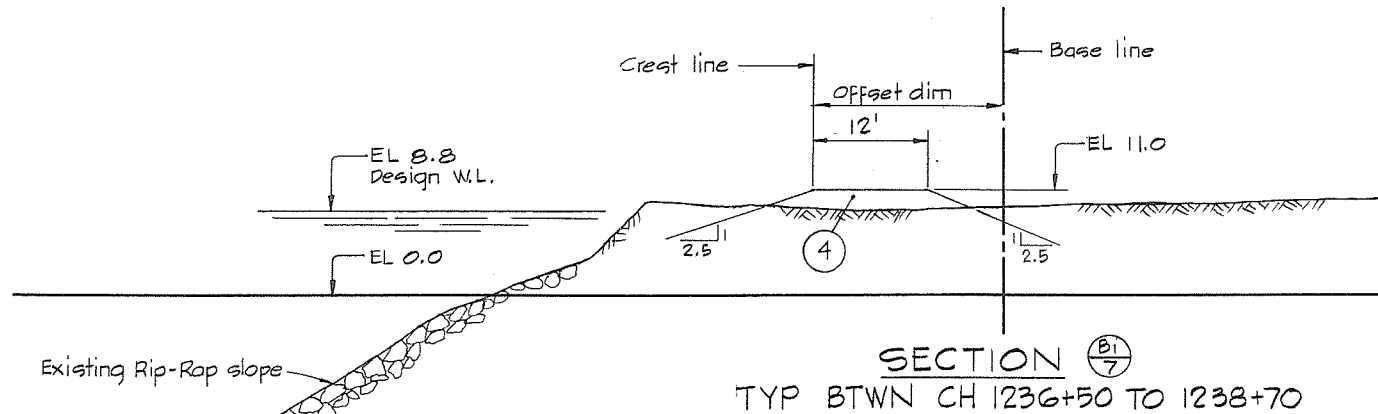


DELTA FOOD PROCESSORS LTD

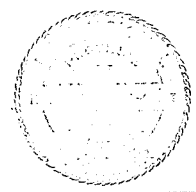
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DELTA FOOD PROCESSORS LTD

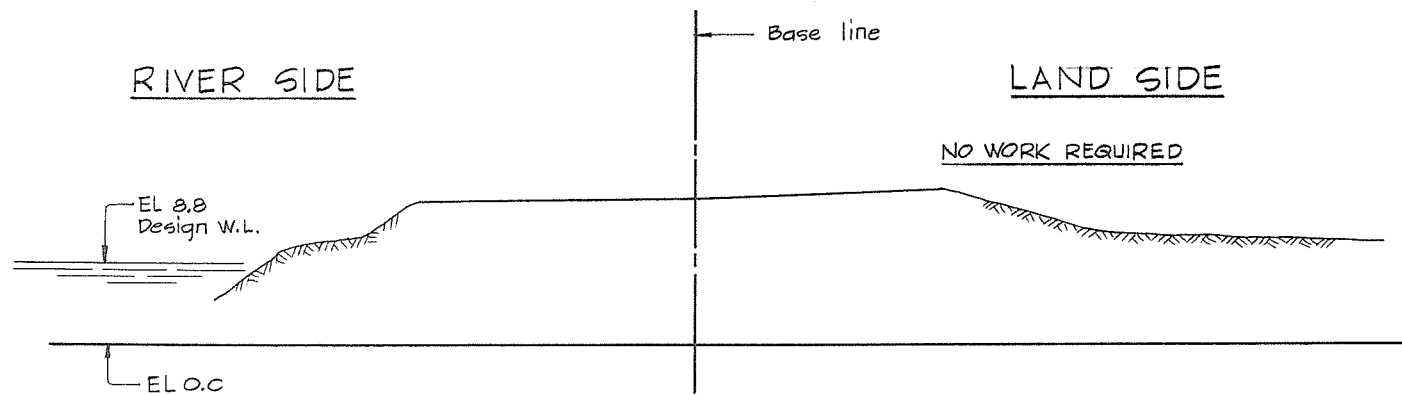


NOTES
 For General Notes, Legend & Material Legend see 4793-15-11



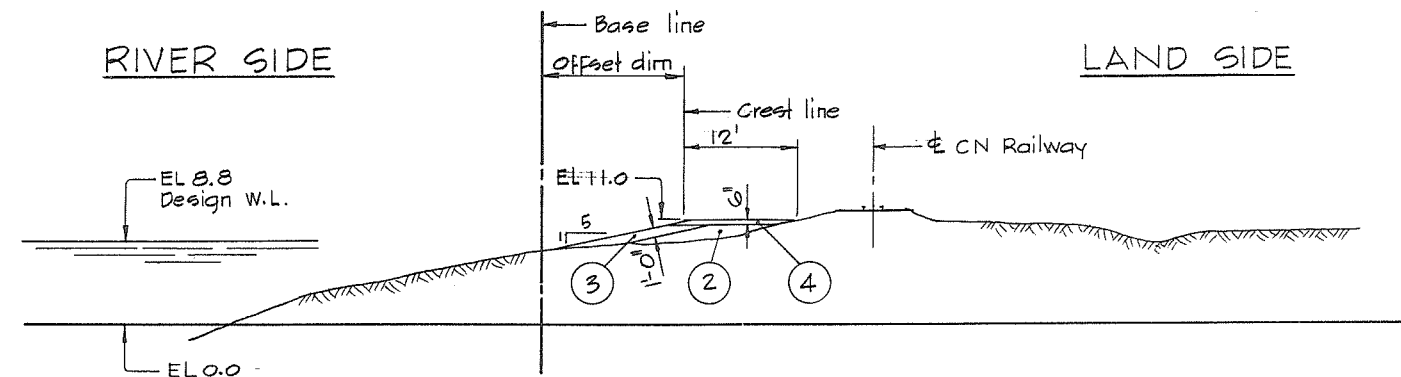
 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	RECOMMENDED <i>B. K. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>dlc & emh</i>	SURVEYED
	DATE <i>Dec 15/76</i>	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 TYPICAL DYKE SECTIONS	DRAWN <i>AR/WZ</i>	DATE
APPROVED <i>dlc</i> DIRECTOR	DATE <i>Dec 15/76</i>	SCALE <i>AS SHOWN</i>	CHECKED <i>dlc</i>	FILE NO. <i>0281550-C10-15</i>
NO. BY REVISIONS DATE	DWG. NO. <i>4795-15-15</i>	SCALE IN FEET	DATE <i>Jan 1977</i>	SHEET <i>5</i> OF <i>9</i> SHEETS

DEPT OF HIGHWAYS WORKS YARD



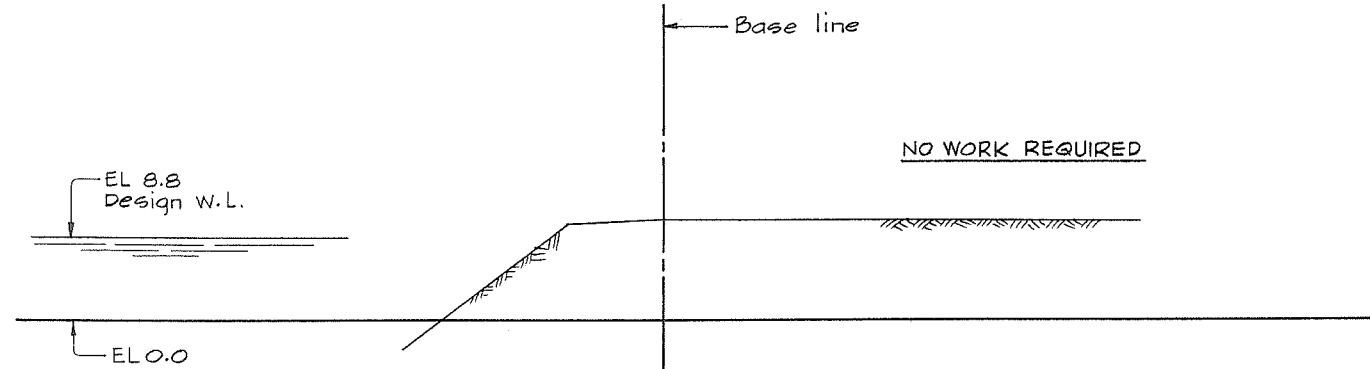
SECTION $\frac{E1}{8}$
TYP BTWN CH 1263+50 TO 1272+50

RIVER SIDE

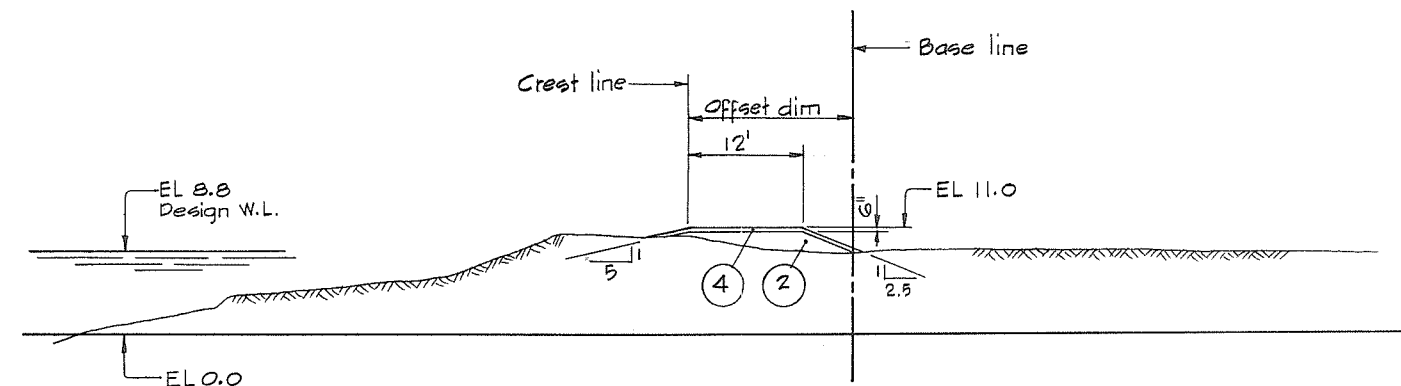


SECTION $\frac{H1}{8}$
TYP BTWN CH 1283+00 TO 1287+50

DEPT OF HIGHWAYS WORKS YARD

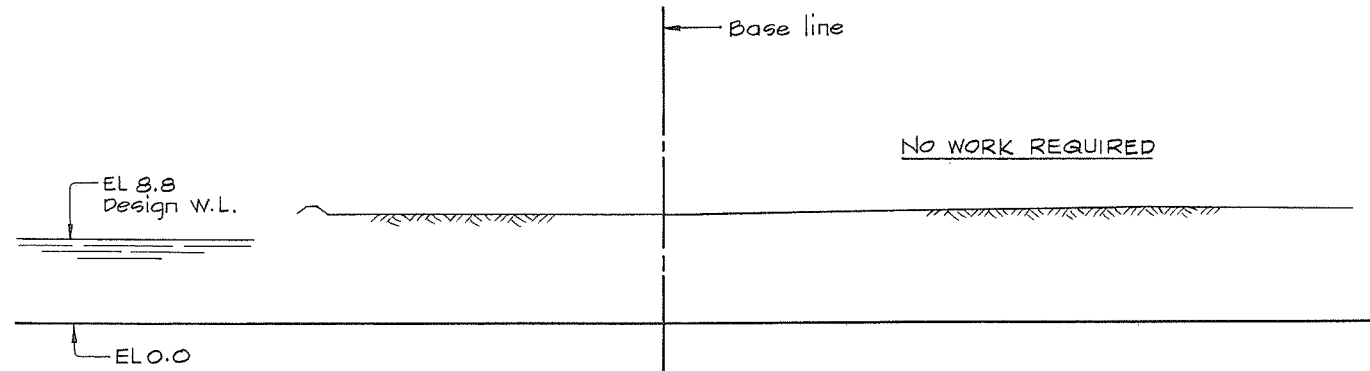


SECTION $\frac{F1}{8}$
TYP BTWN CH 1272+50 TO 1277+50



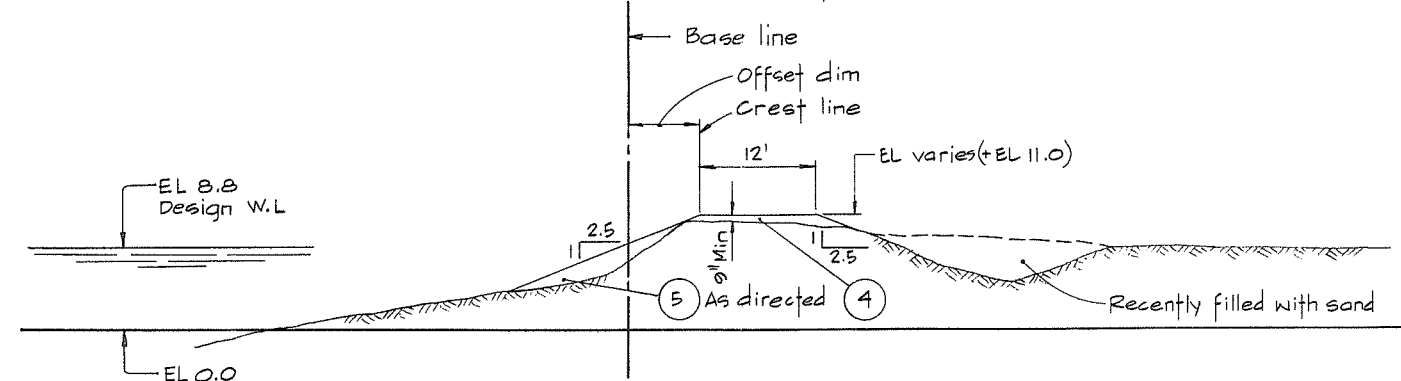
SECTION $\frac{J1}{8}$
TYP BTWN CH 1287+50 TO 1300+50

B.C. FERRIES DRYDOCK AREA



SECTION $\frac{G1}{8}$
TYP BTWN CH 1277+50 TO 1283+00

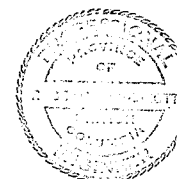
CENTENNIAL DREDGING & SAND LTD



SECTION $\frac{K1}{8}$
TYP BTWN CH 1300+50 TO 1302+50

NOTES

For General Notes, Legend & Material Legend see 4795-15-11



CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

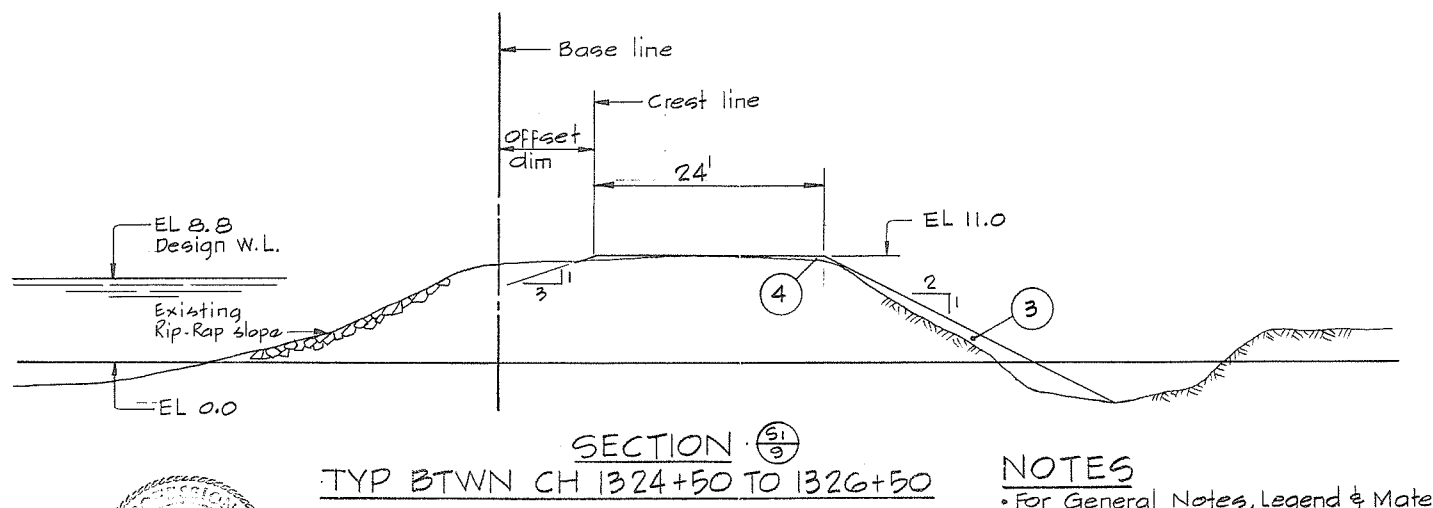
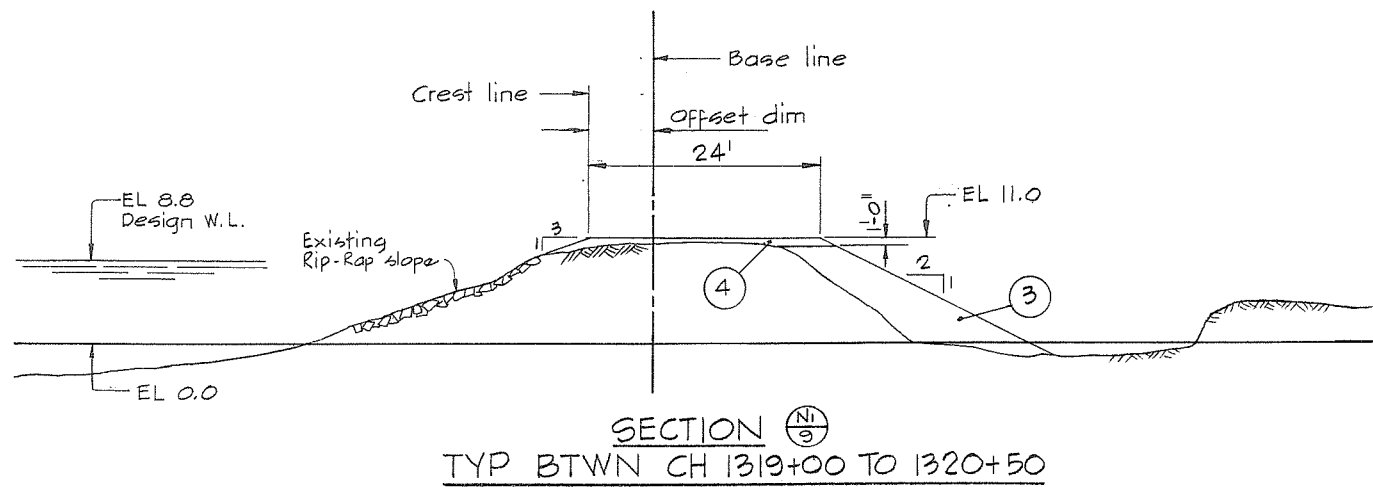
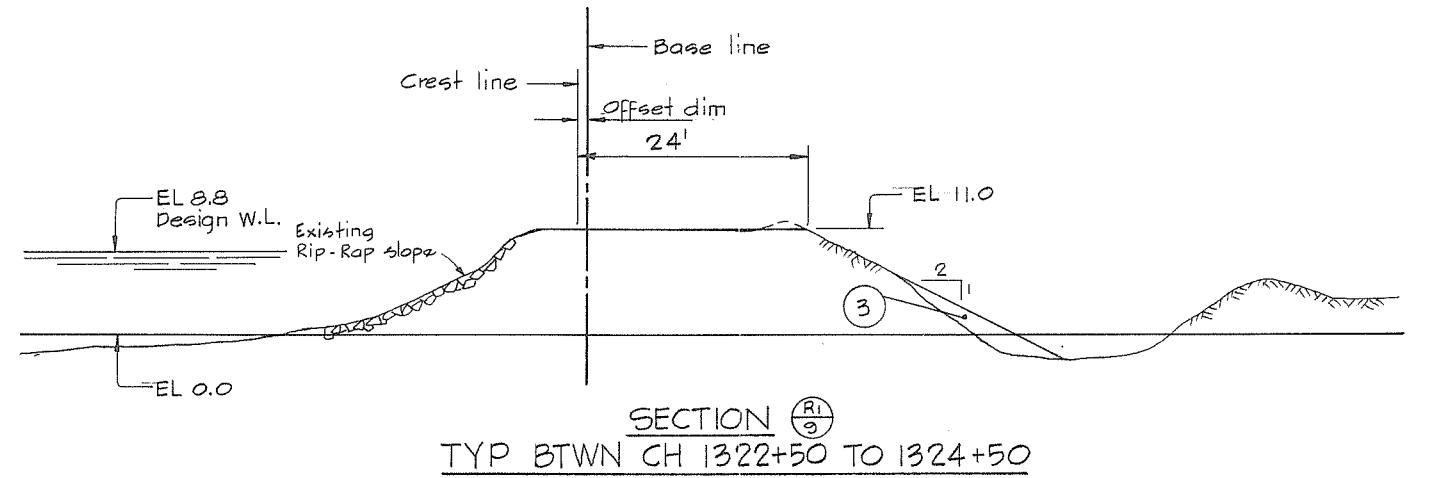
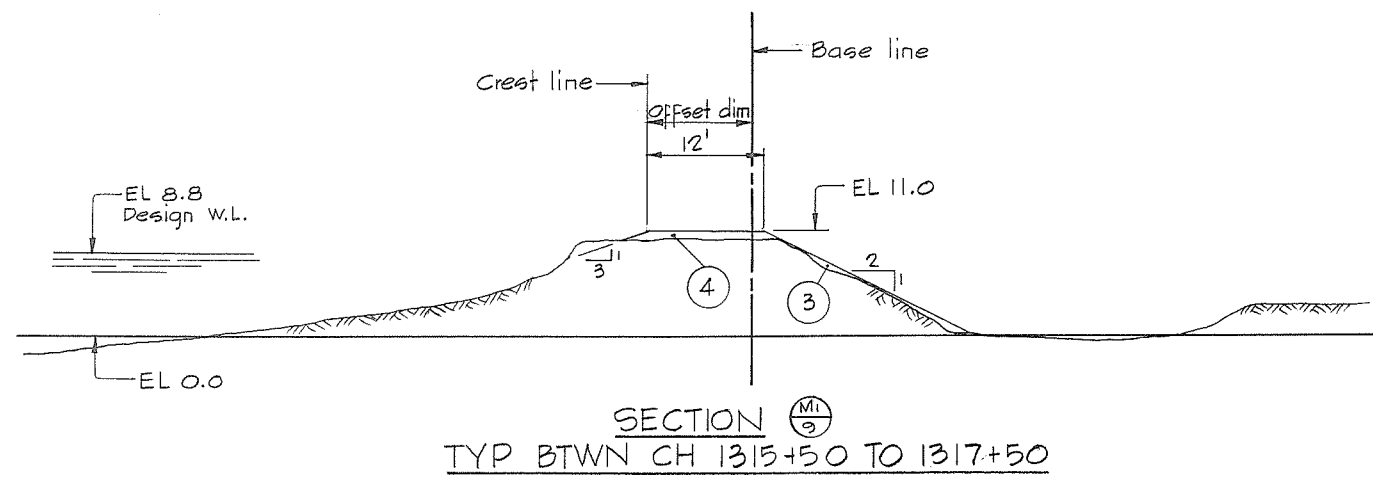
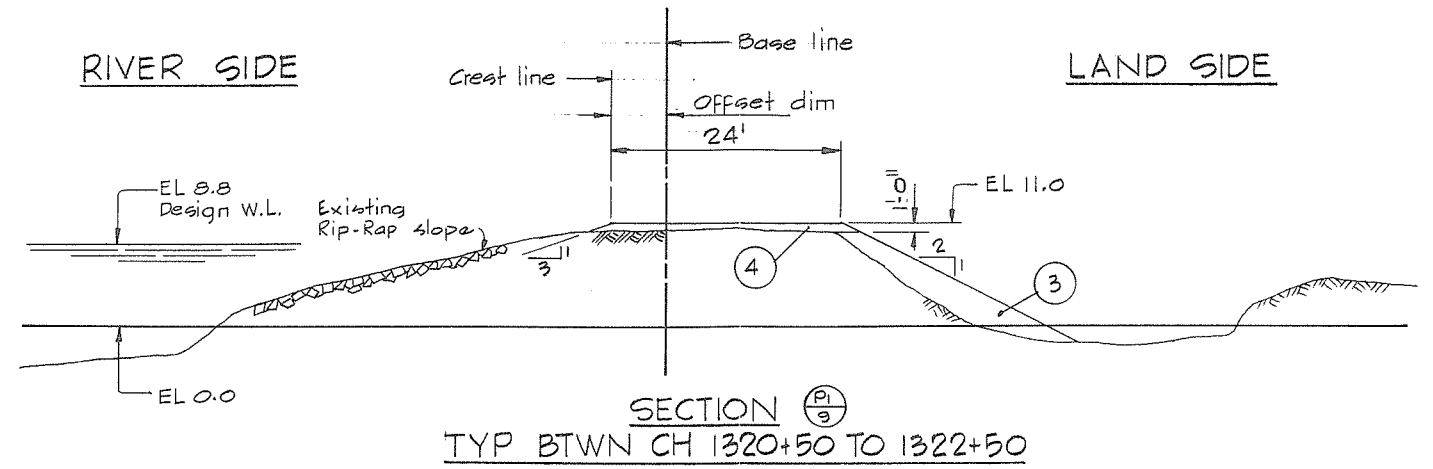
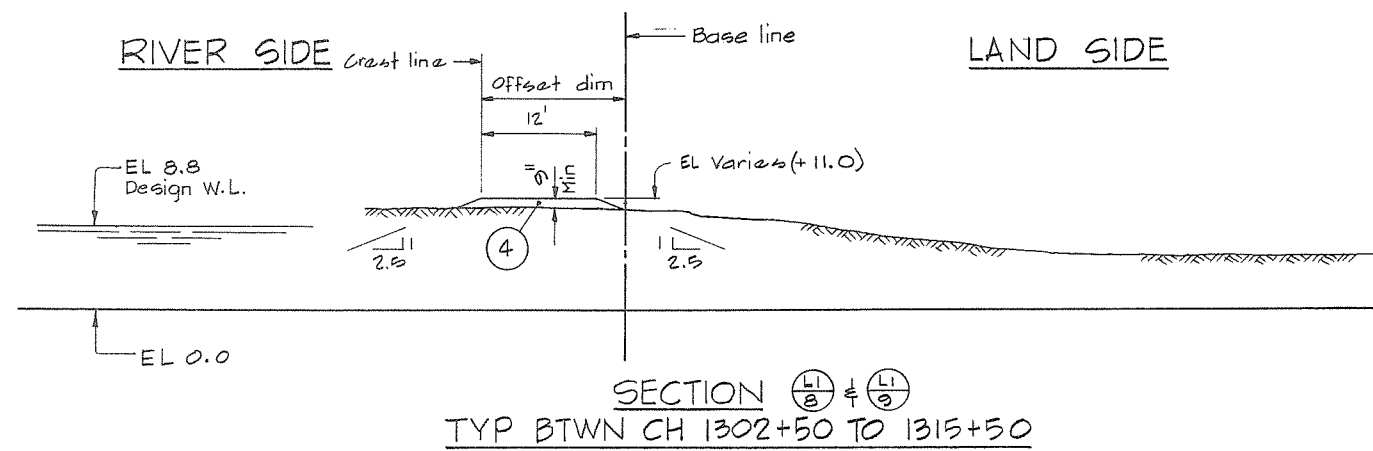
NO.	BY	REVISIONS	DATE

RECOMMENDED *B. E. Cameron*
PROJECT MANAGER
DATE *Dec. 15/76*
APPROVED *John Keller*
DIRECTOR
DATE *Dec 15/76*

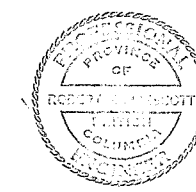
BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
TYPICAL DYKE SECTIONS

DESIGNED <i>PLC & EMH</i>	SURVEYED
DRAWN <i>WZ</i>	DATE
CHECKED <i>PLC</i>	FILE NO. <i>0291550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-16</i>	SHEET <i>6</i> OF <i>9</i> SHEETS

CENTENNIAL DREDGING



NOTES
 • For General Notes, Legend & Material Legend see 4795-15-11



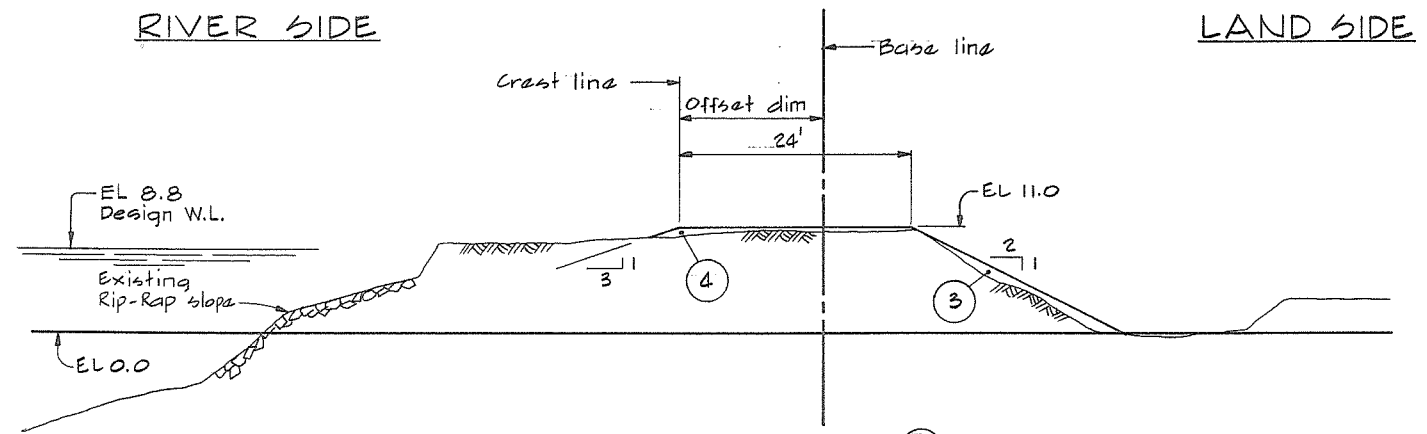
CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

NO.	BY	REVISIONS	DATE

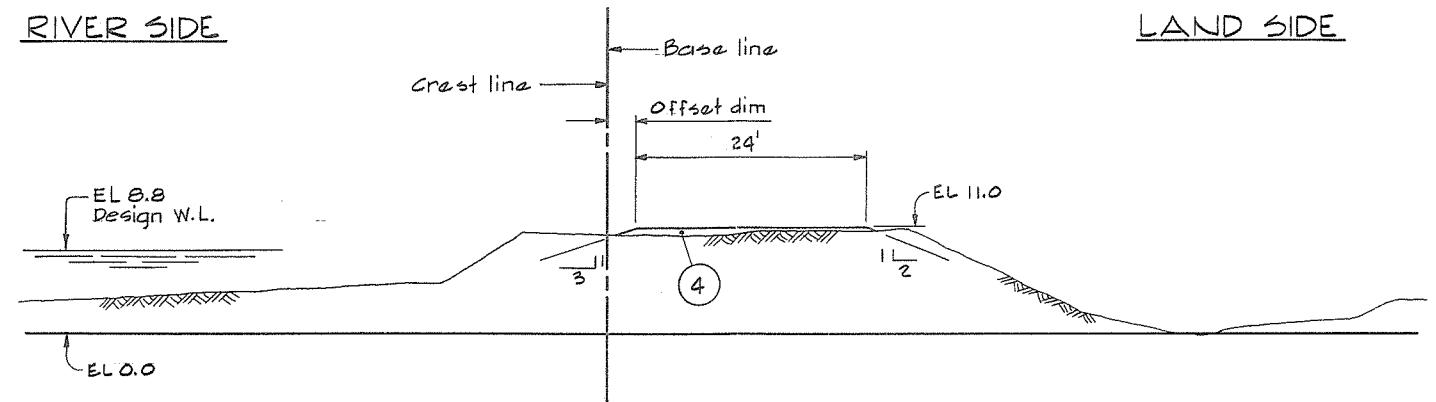
RECOMMENDED *P. N. Cameron*
 PROJECT MANAGER
 DATE *Dec. 15/76*
 APPROVED *W. J. Fuller*
 DIRECTOR
 DATE *Dec 15/76*

BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 TYPICAL DYKE SECTIONS

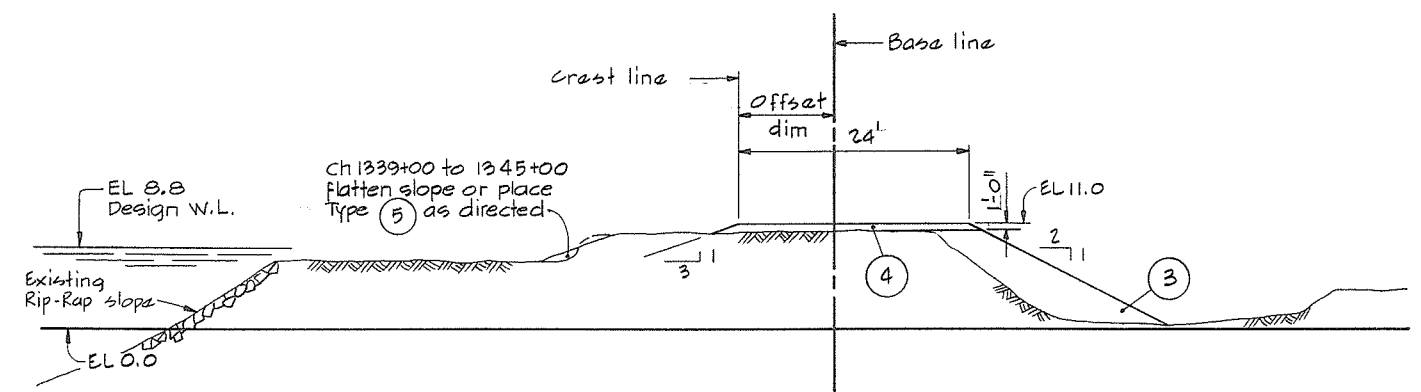
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DRAWN <i>WZ</i>	DATE
CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-17</i>	SHEET <i>7</i> OF <i>9</i> SHEETS



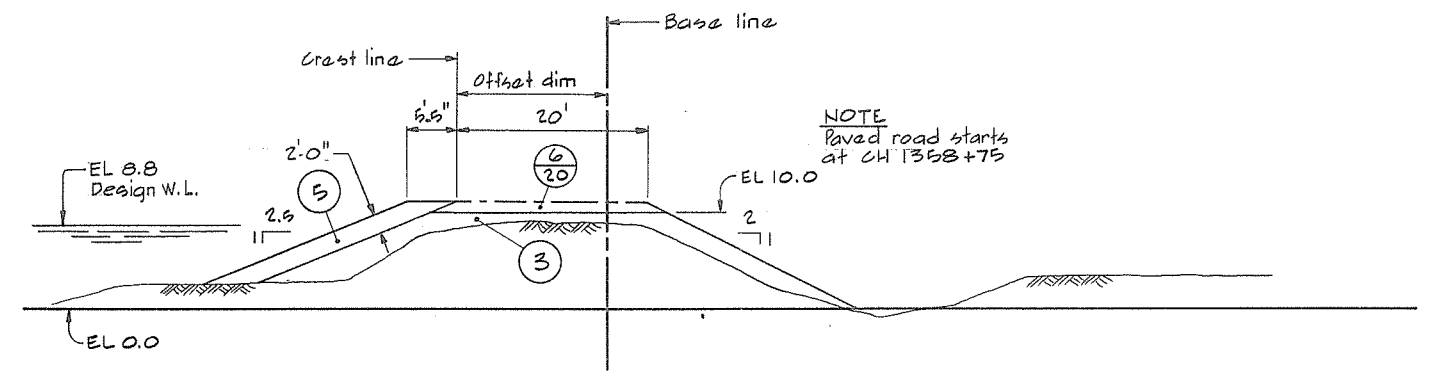
SECTION T1/9
TYP BTWN CH 1327+50 TO 1338+50
& CH 1349+50 TO 1355+50



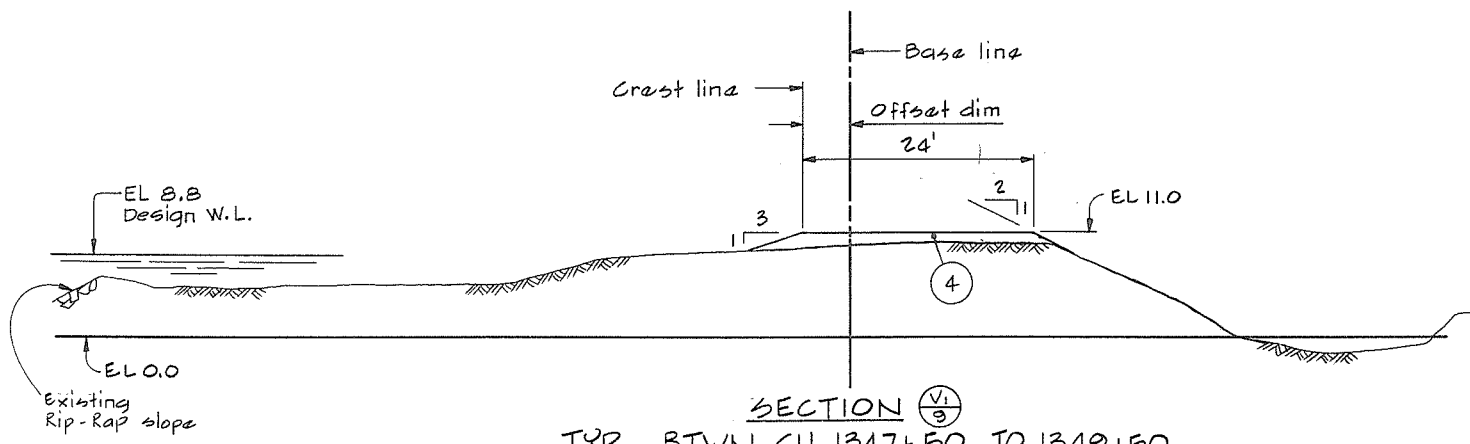
SECTION W1/9
TYP BTWN CH 1355+50 TO 1357+00



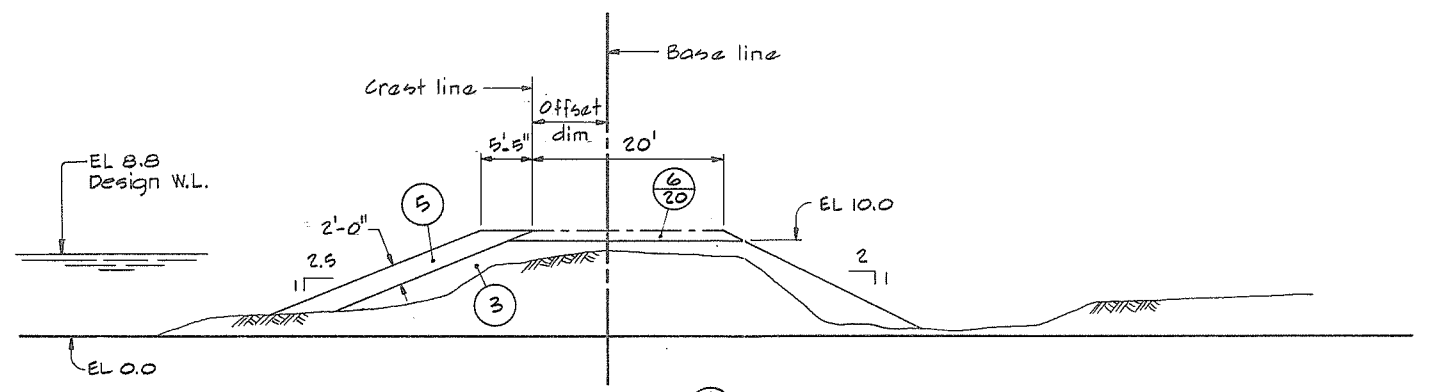
SECTION U1/9
TYP BTWN CH 1338+50 TO 1347+50



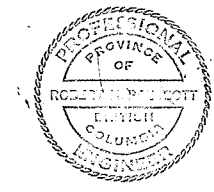
SECTION X1/9
TYP BTWN CH 1357+00 TO 1360+50



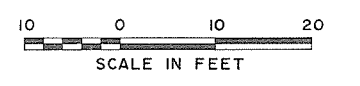
SECTION V1/9
TYP BTWN CH 1347+50 TO 1349+50



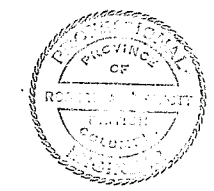
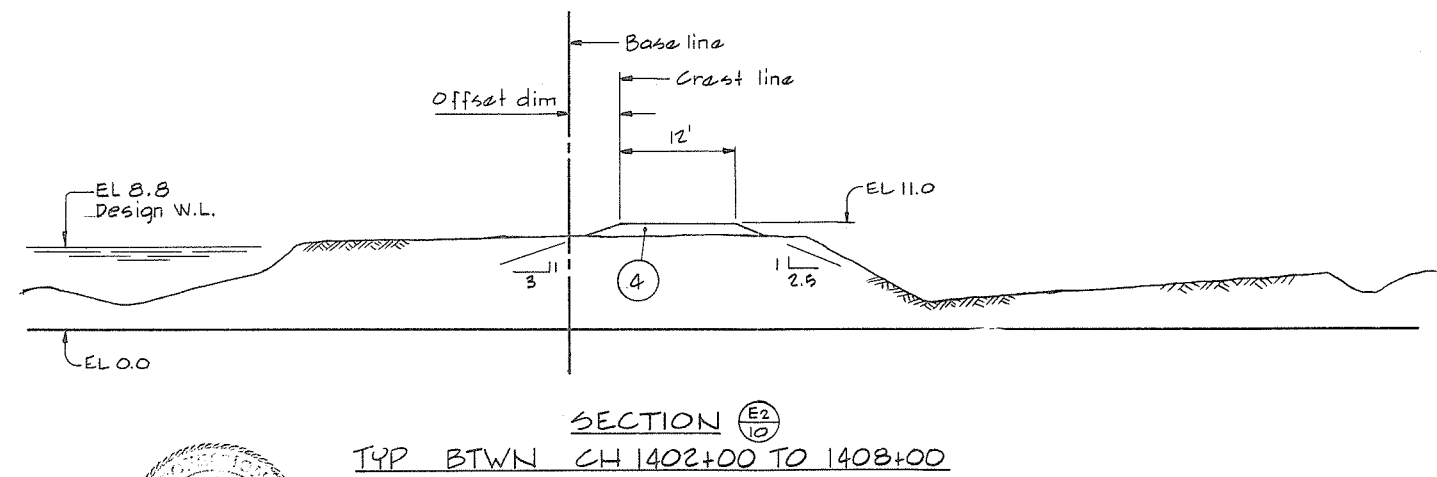
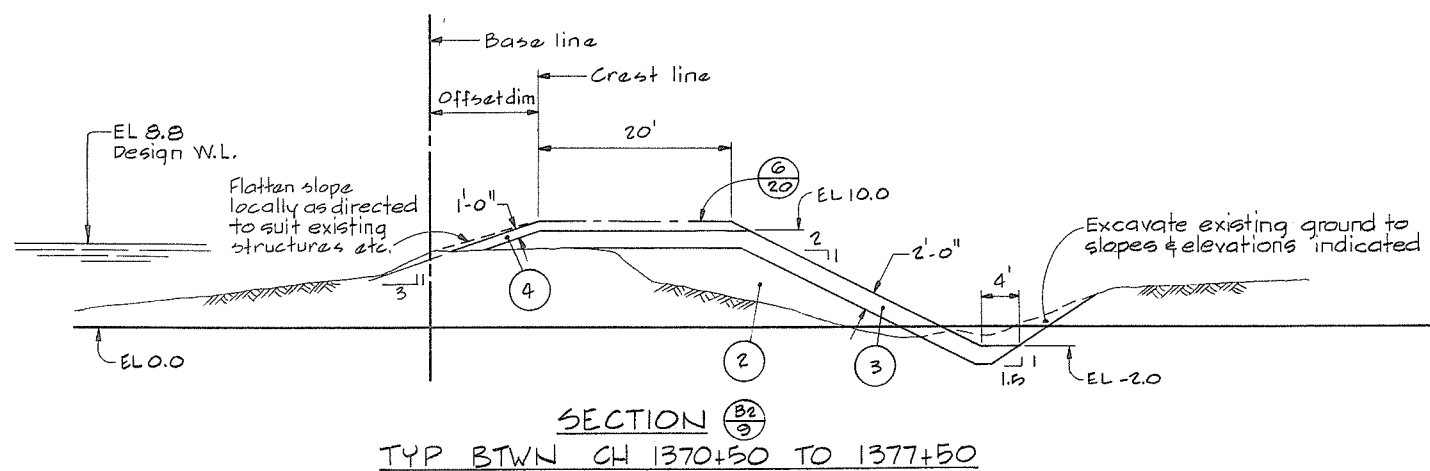
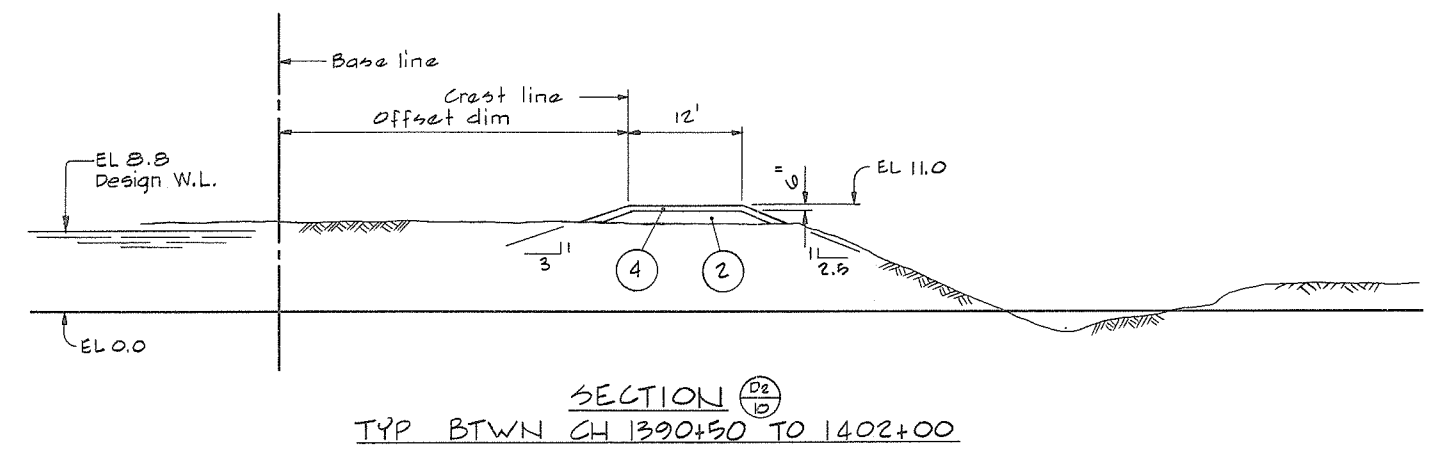
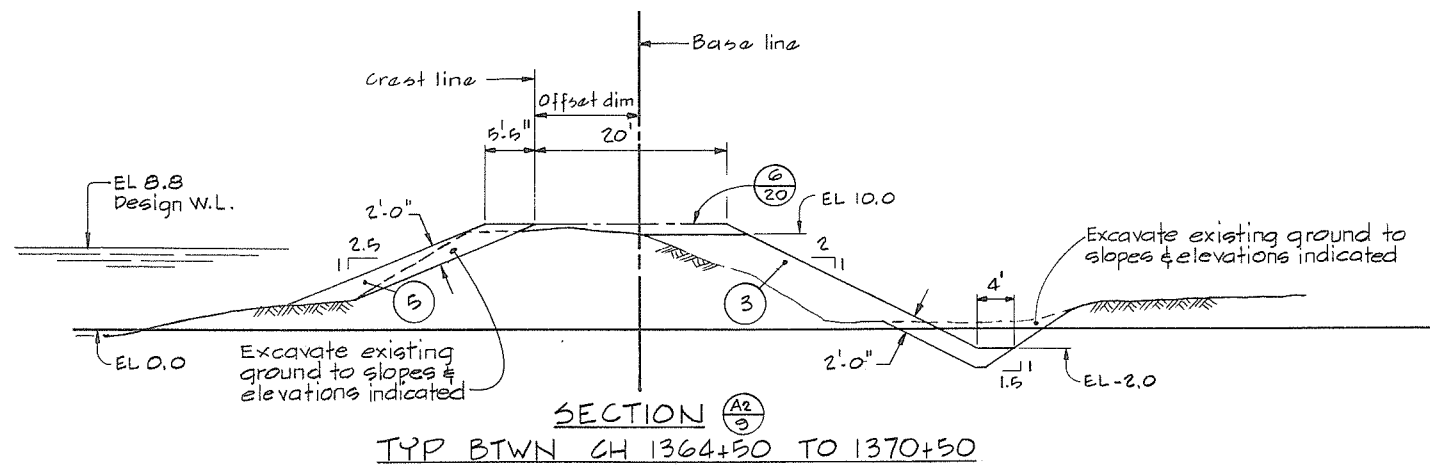
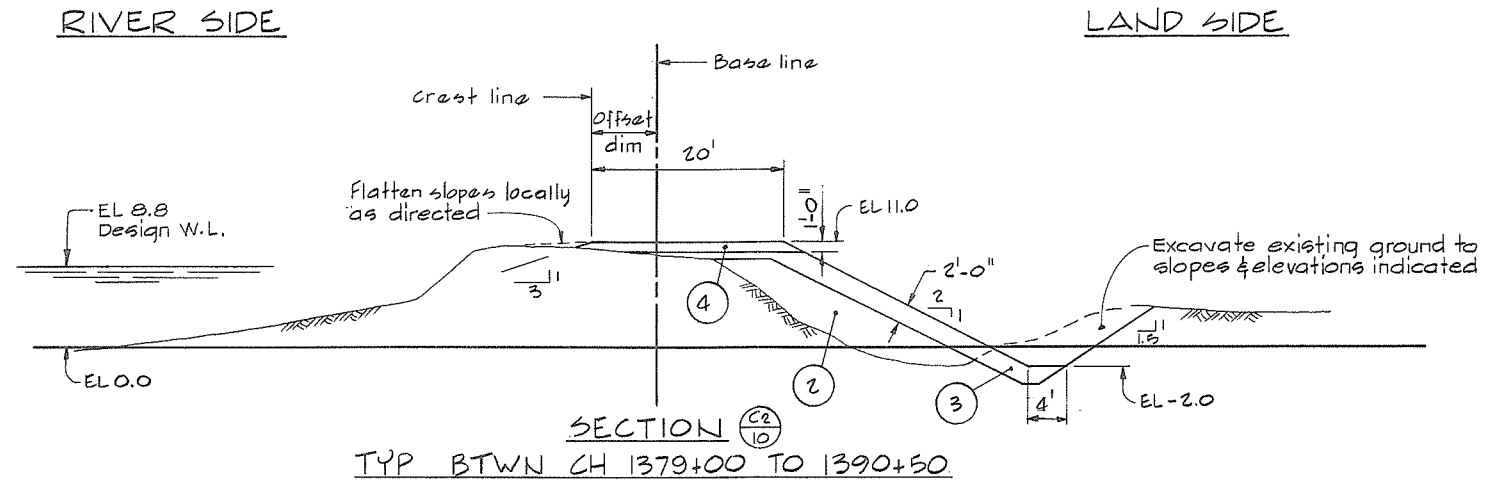
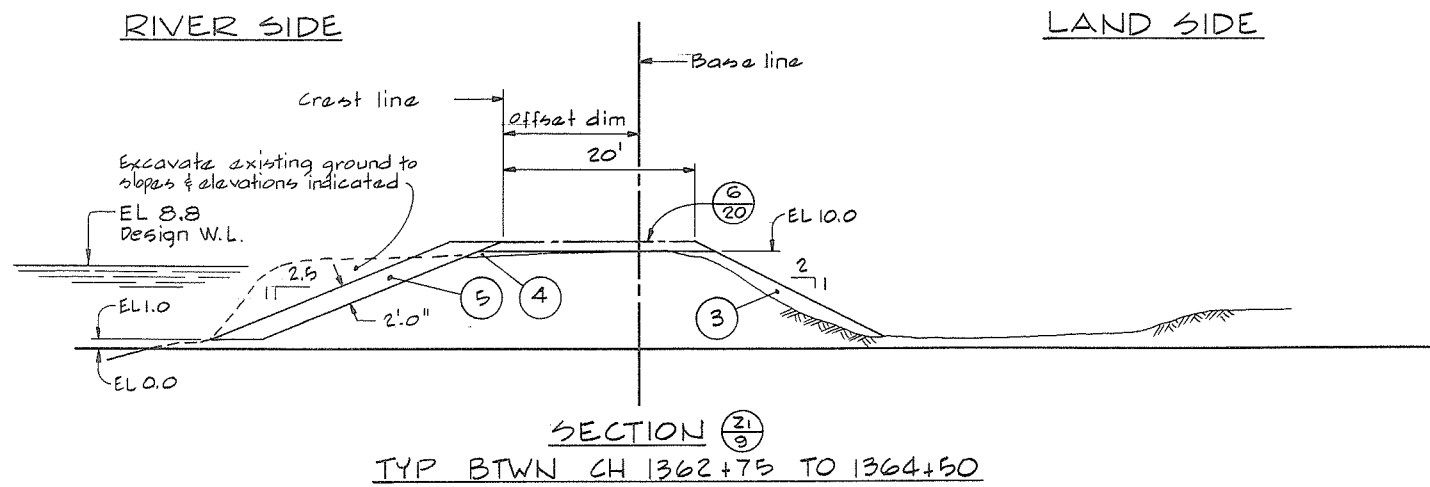
SECTION Y1/9
TYP BTWN CH 1360+50 TO 1362+75



NOTES
• For General Notes, Legend & Material Legend see 4795-15-11.



CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO.	BY	REVISIONS	DATE	RECOMMENDED <i>P. M. Cameron</i> PROJECT MANAGER DATE <i>Dec 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT	DESIGNED <i>DLC</i> / <i>HEMH</i> DRAWN <i>AR</i> CHECKED <i>plc</i> SCALE AS SHOWN DWG. NO. 4795-15-18	SURVEYED DATE FILE NO. 0281550-C10-15 DATE Jan 1977 SHEET 8 OF 9 SHEETS
	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 TYPICAL DYKE SECTIONS							



NOTES
 * For General Notes, Legend & Material Legend see 4795-15-11



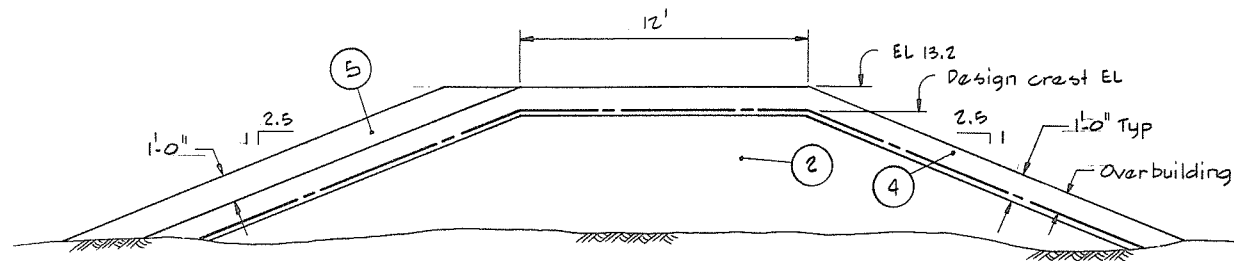
	RECOMMENDED <i>P. H. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC & EMH</i>	SURVEYED
	DATE <i>Dec. 15/76</i>	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND	DRAWN <i>AR</i>	DATE
APPROVED <i>W. Fuller</i> DIRECTOR	CONTRACT NO. 15	CHECKED <i>PLC</i>	FILE NO. <i>0281550-C10-15</i>	DATE <i>Jan 1977</i>
DATE <i>Dec. 15/76</i>	TYPICAL DYKE SECTIONS	SCALE AS SHOWN	DWG. NO. <i>4795-15-19</i>	SHEET <i>9</i> OF <i>9</i> SHEETS
NO. BY	REVISIONS	DATE		

RIVER SIDE

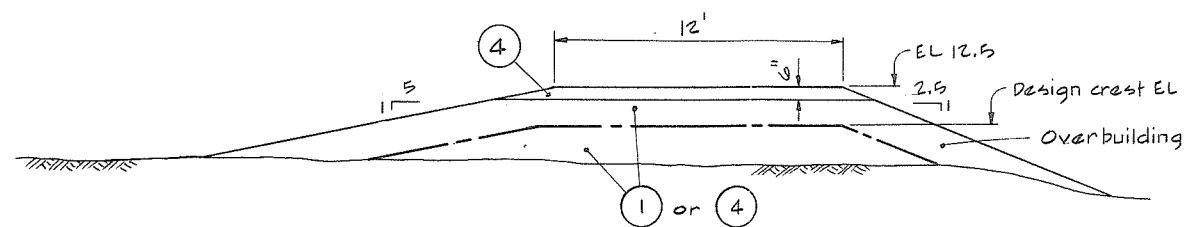
LAND SIDE

RIVER SIDE

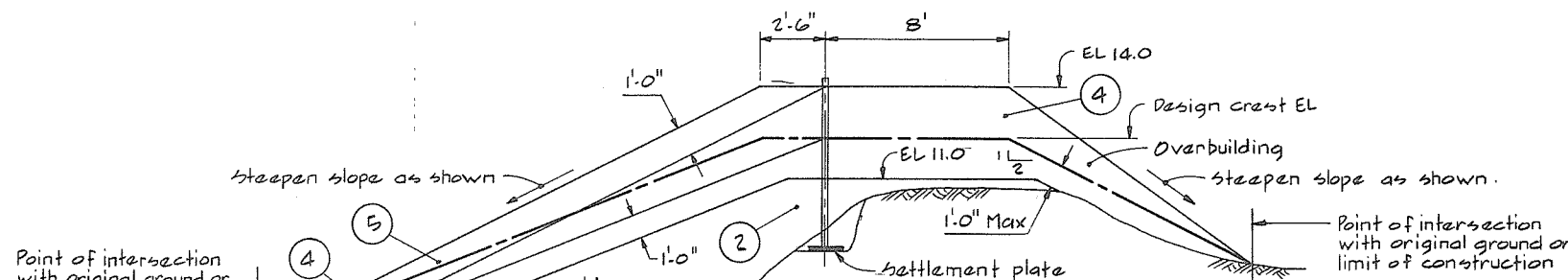
LAND SIDE



DETAIL ①
TYP BTWN CH 1035+00 TO 1041+00
NTS

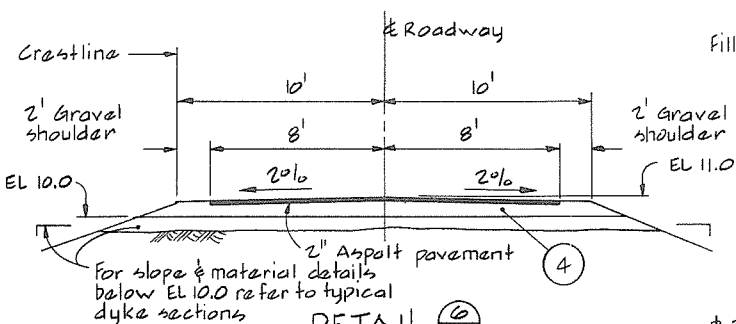


DETAIL ②
TYP BTWN CH 1132+00 TO 1161+00
NTS

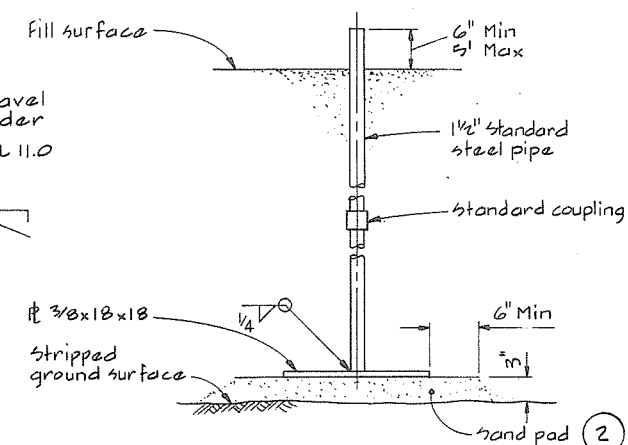


DETAIL ②
TYP BTWN CH 1045+00 TO 1069+50
NTS

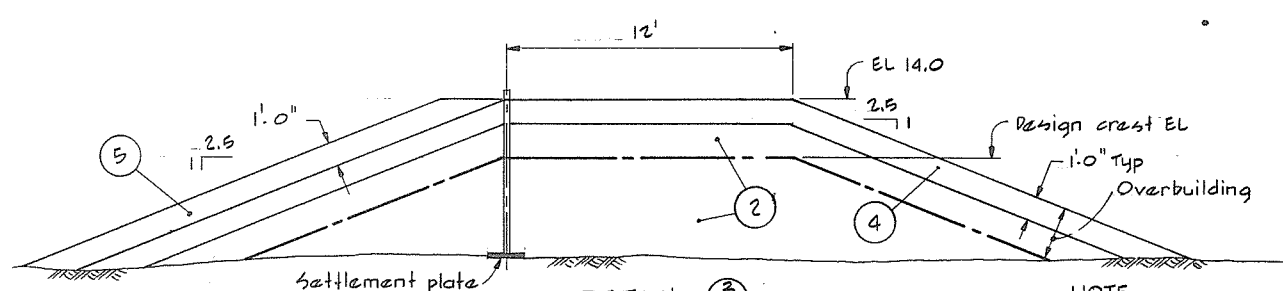
NOTE
• Overbuild section twice to EL 14.0 and then add type 5 protection on riverside.
• Settlement plates to be located on 300' centers from CH 1045+00 to CH 1069+00



DETAIL ③
PAVED ROAD TYP BTWN CH 1358+75 TO CH 1379+00

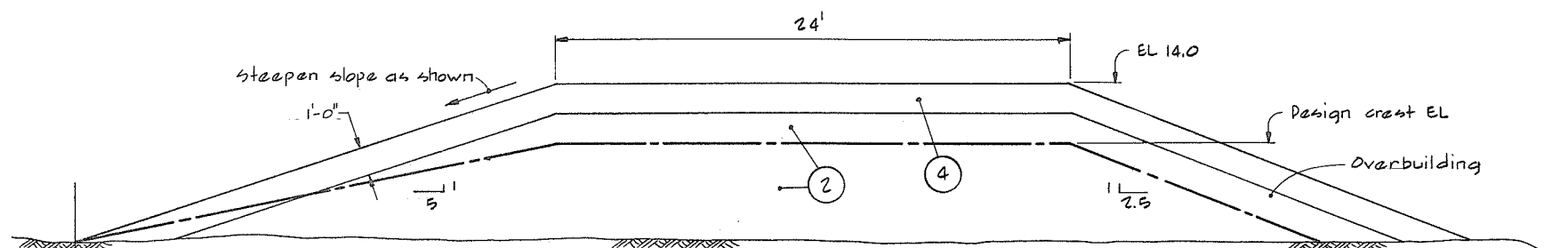


SETTLEMENT PLATE
11-RÉQD
NTS



DETAIL ③
TYP BTWN CH 1069+50 TO 1072+50
NTS

NOTE
• Settlement plates to be located @ CH 1070+00 & CH 1072+00



DETAIL ④
TYP BTWN CH 1115+50 TO 1128+00
NTS

NOTE
• Overbuild section twice to EL 14.0

MATERIAL LEGEND

- ① silt-clay ④ Crushed gravel
- ② sand ⑤ Light rip-rap

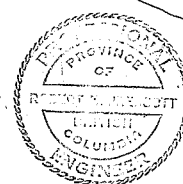
- ③ sand, gravel cobbles

LEGEND

- Existing ground surface (section)
- Existing ground & structures (Plan)
- Section identification letter
- Drawing No. on which the section is drawn (ie 4795-15-[7])
- Detail identification number
- Drawing No. on which the detail is drawn (ie 4795-15-[7])

NOTES

- Elevations refer to the Geodetic Survey of Canada.
- For offset dimensions see appropriate chainage on Alignment Plans.
- Offset distances from base line to crest line are taken at design crest elevation.
- Design crest elevation varies see profile on 4795-15-2.

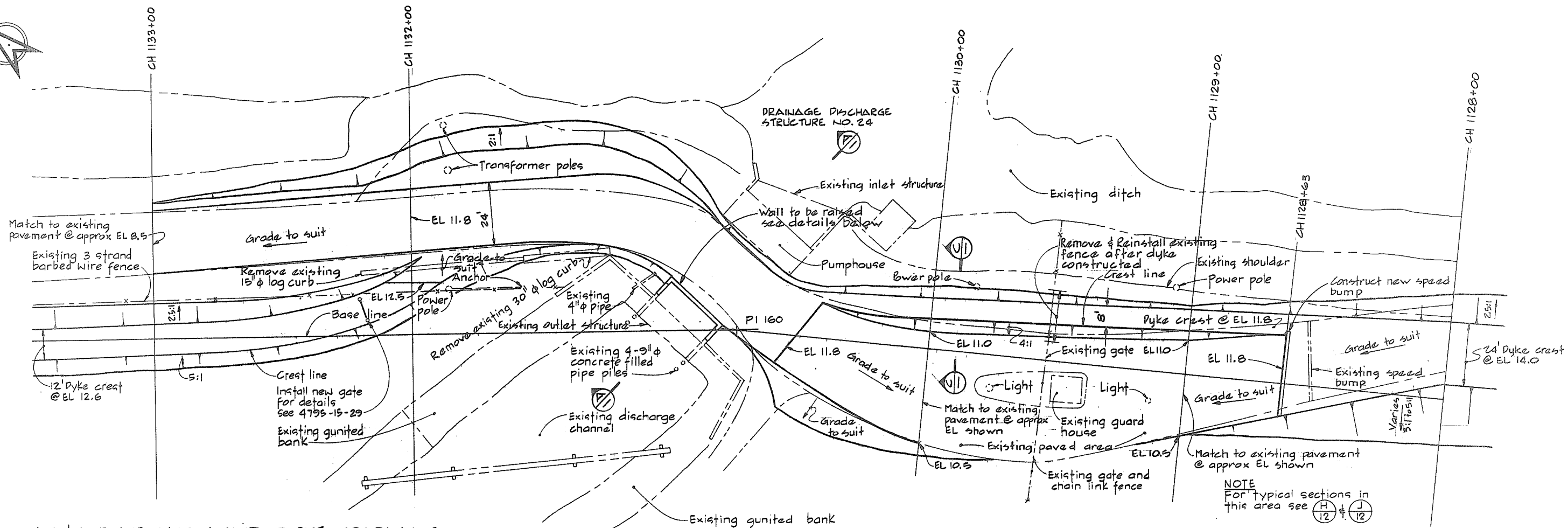
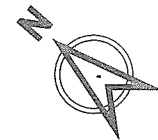


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CONSULTING ENGINEERS - VANCOUVER - CANADA

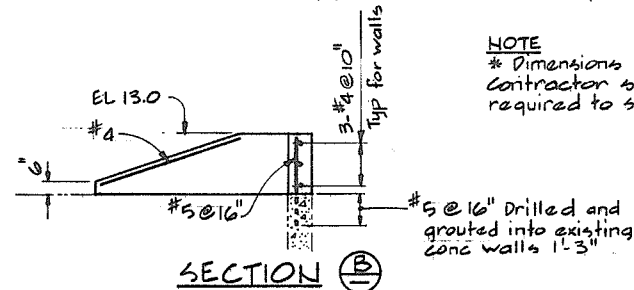
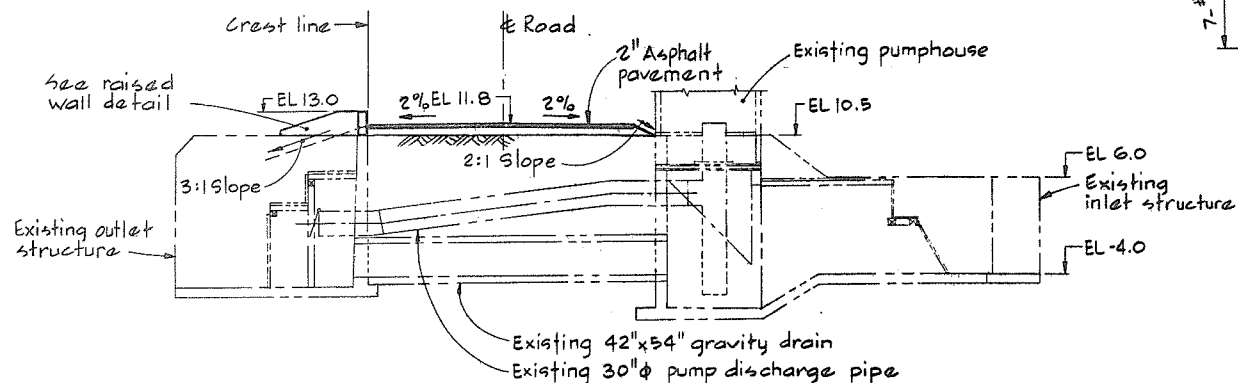
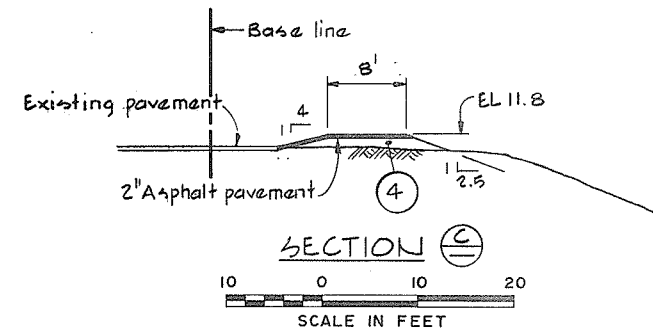
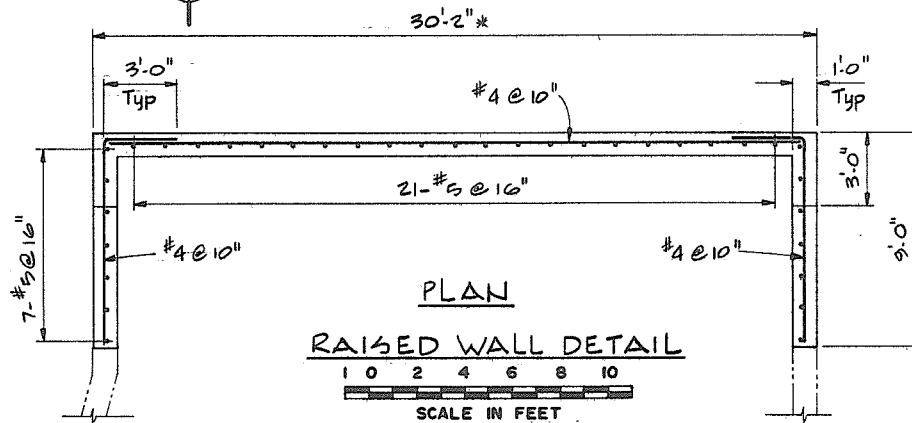
RECOMMENDED: *P. R. Conner*
PROJECT MANAGER
DATE: Dec. 15/76
APPROVED: *W. J. Miller*
DIRECTOR
DATE: Dec. 15/76

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTACT NO. 15
MISCELLANEOUS DYKE DETAILS

DESIGNED: PLC & EMH	SURVEYED:
DRAWN: AR	DATE:
CHECKED: PLC	FILE NO: 0291550-C10-15
SCALE: AS SHOWN	DATE: Jan 1977
DWG. NO: 4795-15-20	SHEET 1 OF 8 SHEETS



**WALL EXTENSION AND DYKE GRADING @
DRAINAGE DISCHARGE STRUCTURE NO. 24 &
WEST ENTRANCE TO SANITARY LAND FILL AREA**

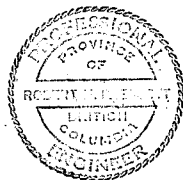


NOTE
* Dimensions are approximate
Contractor shall adjust as
required to suit existing structure

GENERAL NOTES - STRUCTURAL

- All concrete work shall be in accordance with C.S.A. A 23.1
- Concrete shall have a compressive strength of not less than 3000 psi at 28 days.
- Reinforcing shall be deformed and conform to C.S.A. G 30.12, grade 60.
- Concrete cover for reinforcing bars in walls shall be 2 in. except as shown otherwise.

NOTES
- For Notes, Material Legend & Legend see 4795-15-20.



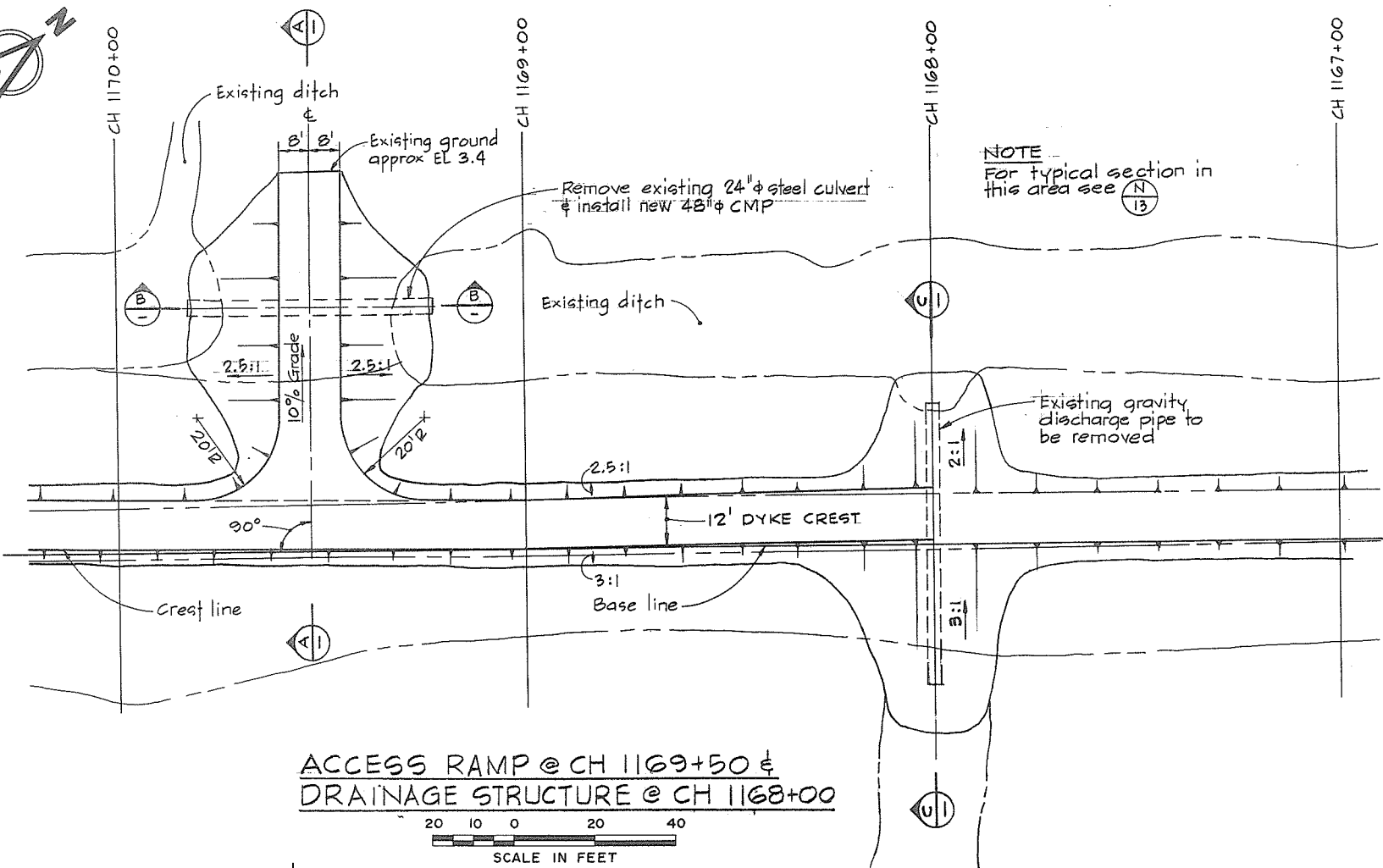
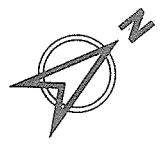
CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

NO.	BY	REVISIONS	DATE

RECOMMENDED *P. J. Cameron*
PROJECT MANAGER
DATE *Dec 15/76*
APPROVED *John Miller*
DIRECTOR
DATE *Dec 15/76*

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
MISCELLANEOUS DYKE DETAILS

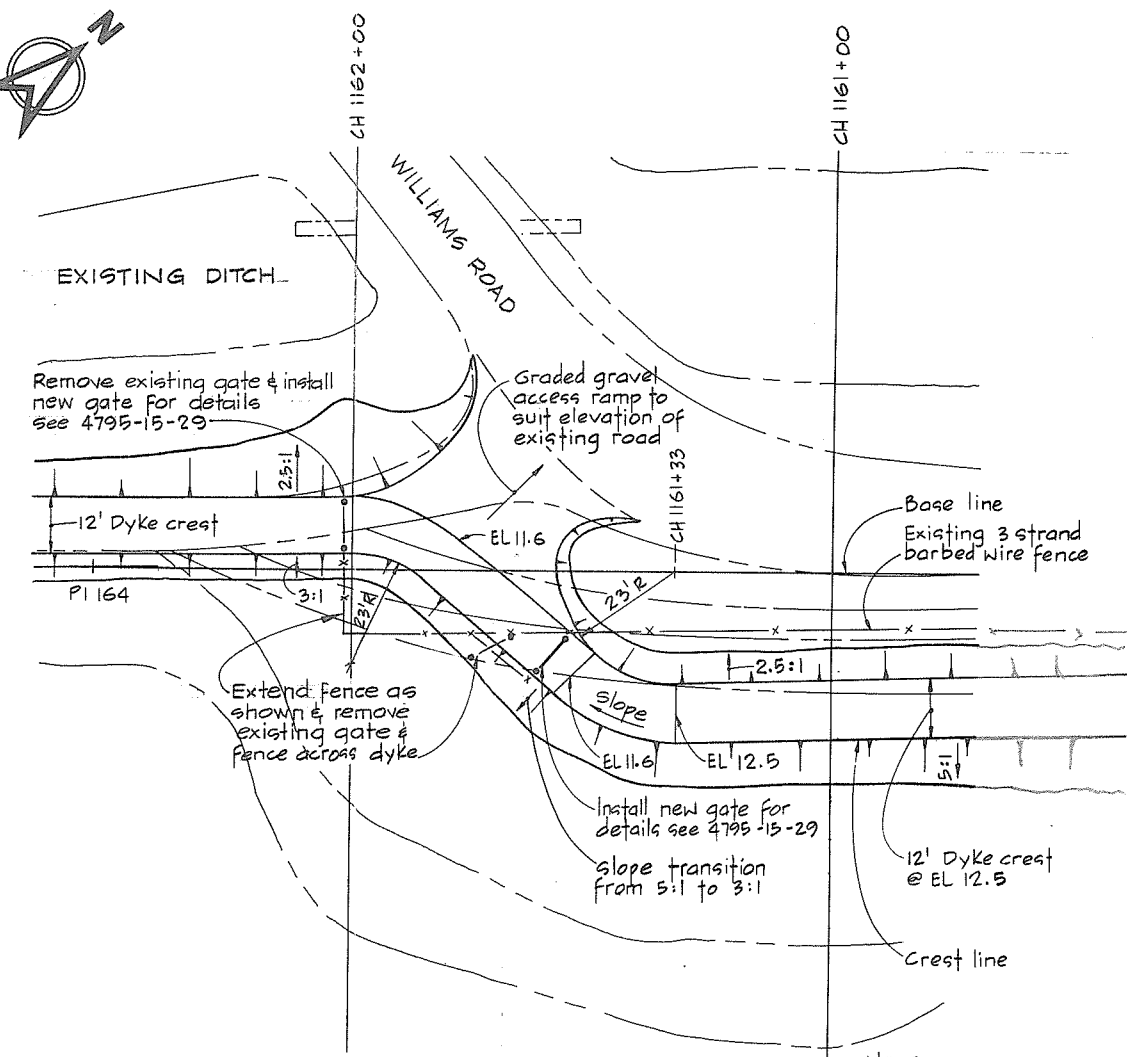
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DRAWN	Wn & AR	DATE
CHECKED	DLC	FILE NO.
SCALE	AS SHOWN	DATE
DWG. NO.	4795-15-22	SHEET
		3 OF 8 SHEETS



ACCESS RAMP @ CH 1169+50 & DRAINAGE STRUCTURE @ CH 1168+00



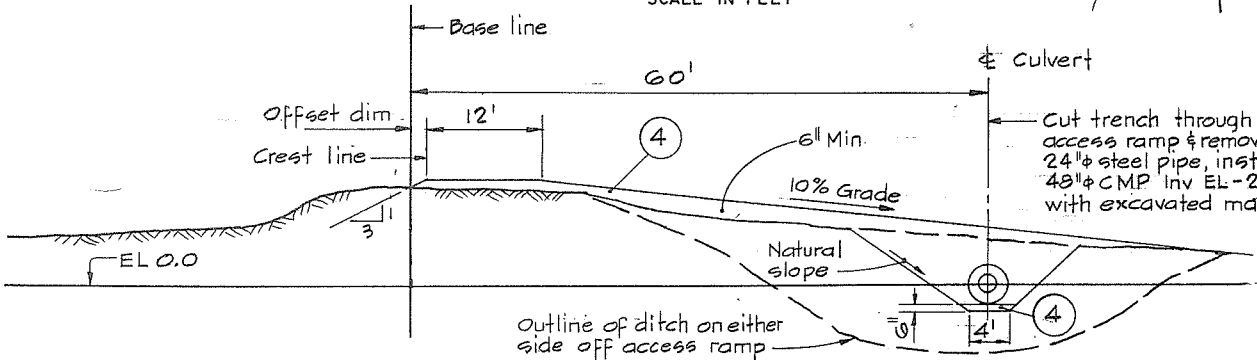
NOTE
For typical section in this area see (M) & (N)



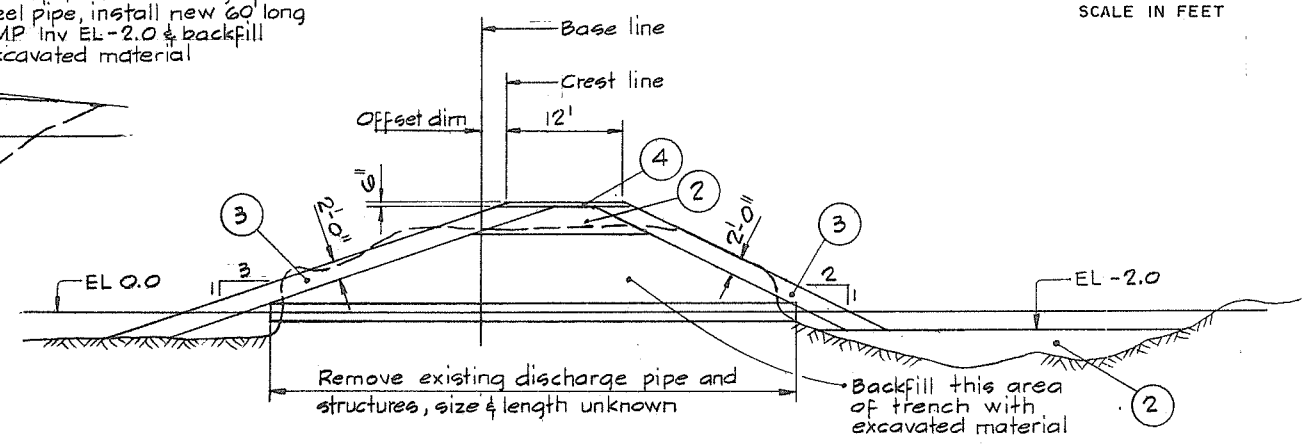
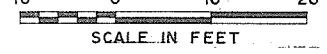
TRANSITION 24' TO 12' DYKE @ WILLIAMS ROAD



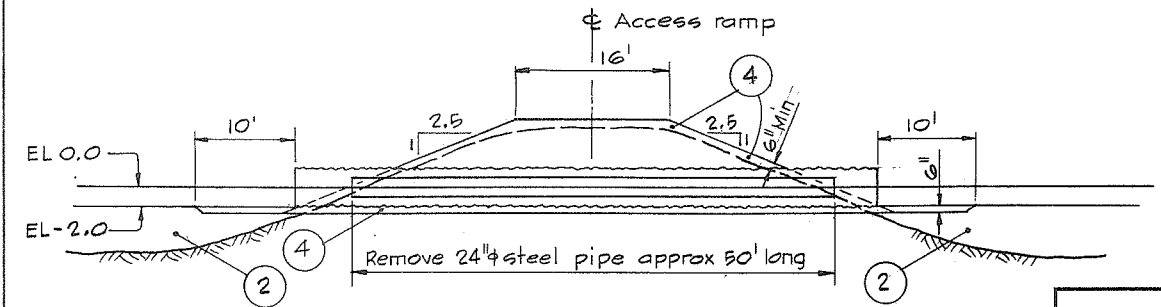
NOTE
For typical sections in this area see (M) & (N)



SECTION A



SECTION B



SECTION C



NOTES
For Notes, Material Legend & Legend see 4795-15-20.



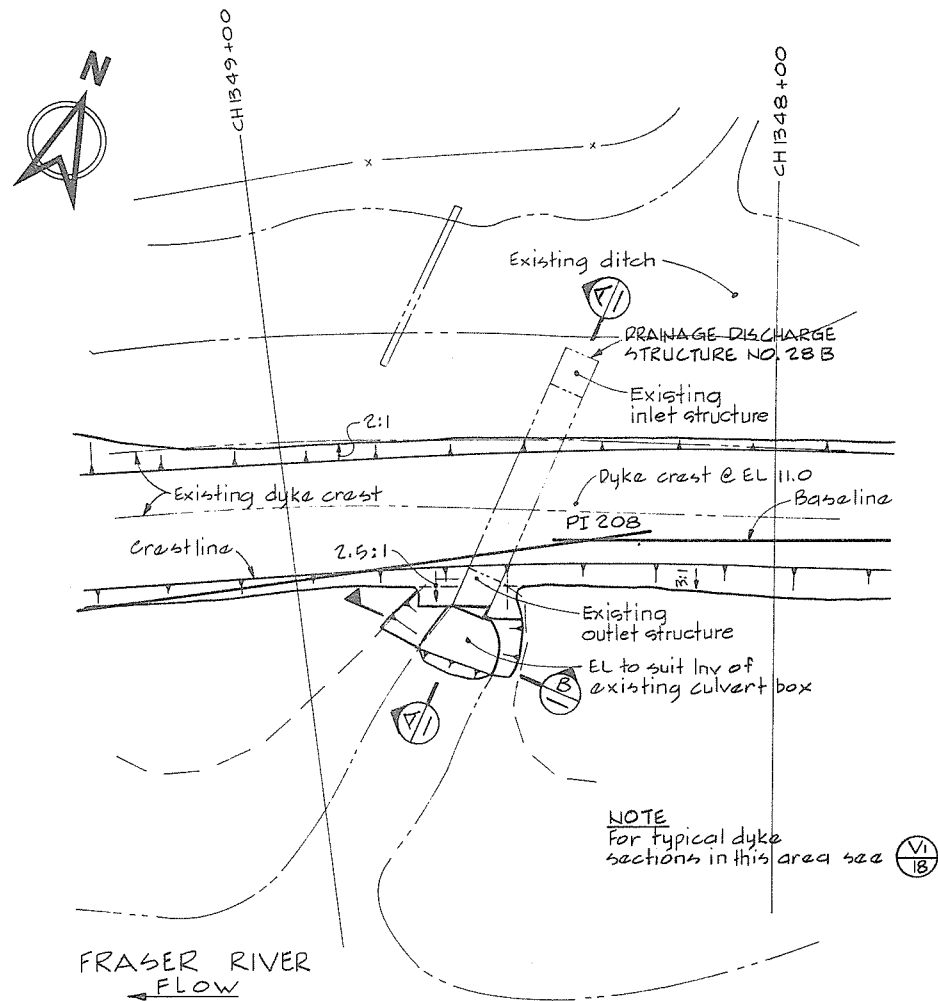
CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED	<i>R. R. Cameron</i> PROJECT MANAGER
DATE	Dec 15/76
APPROVED	<i>Mike Fuller</i> DIRECTOR
DATE	Dec 15/76

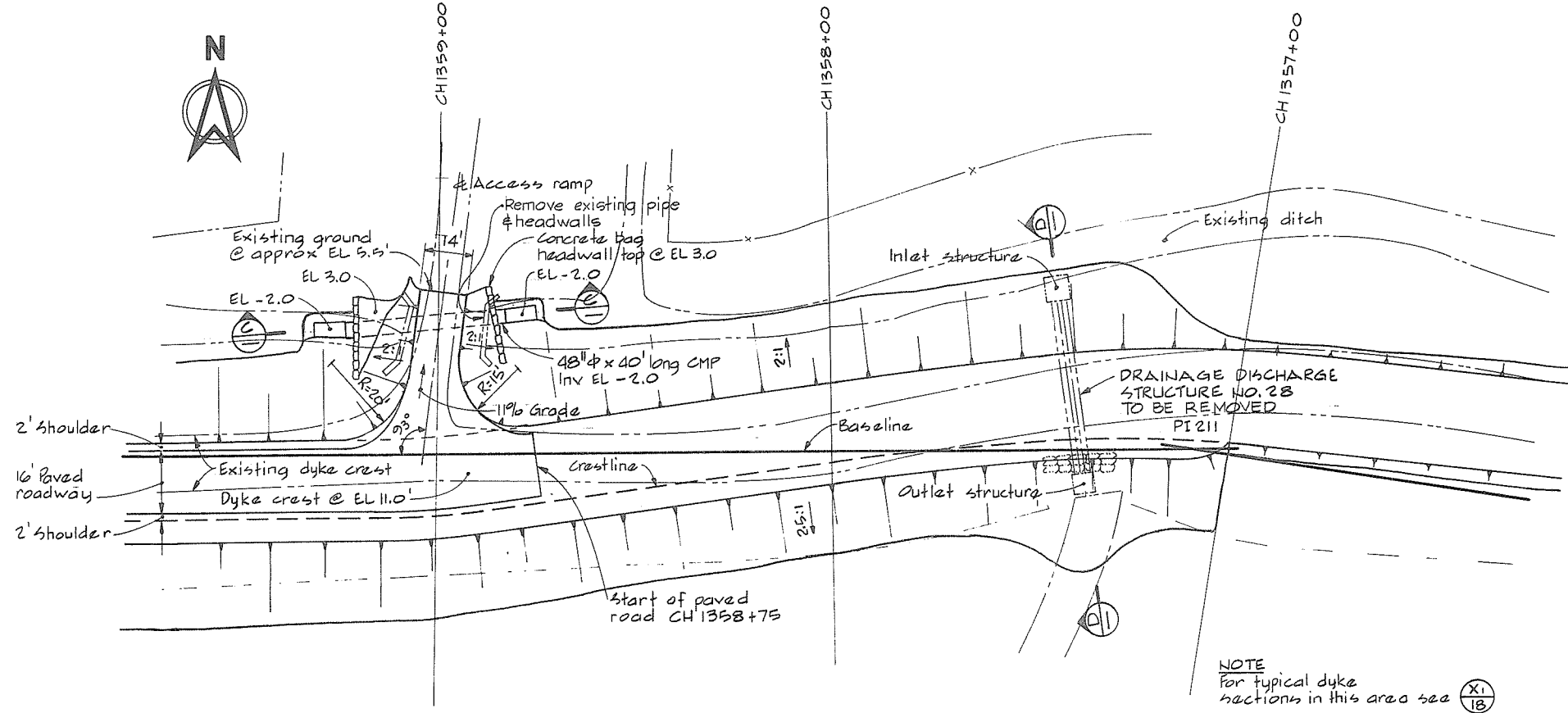
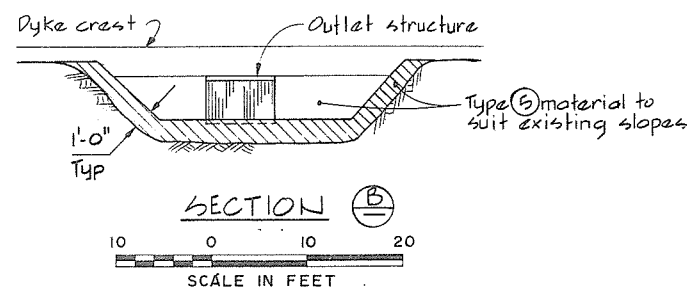
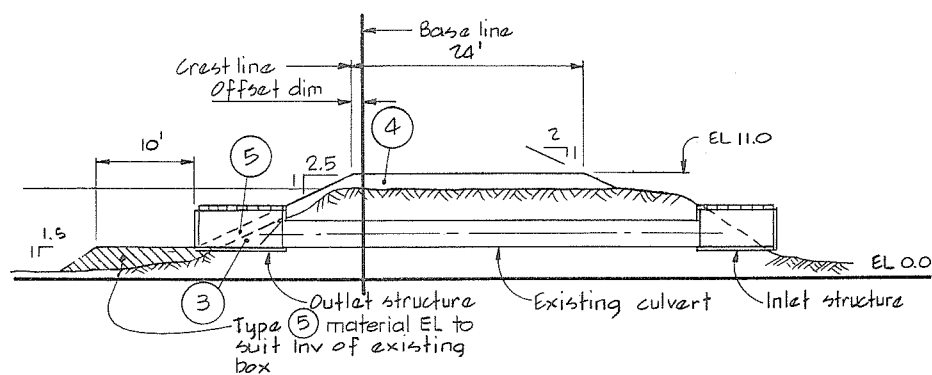
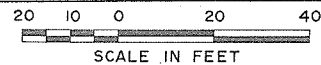
BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
MISCELLANEOUS DYKE DETAILS

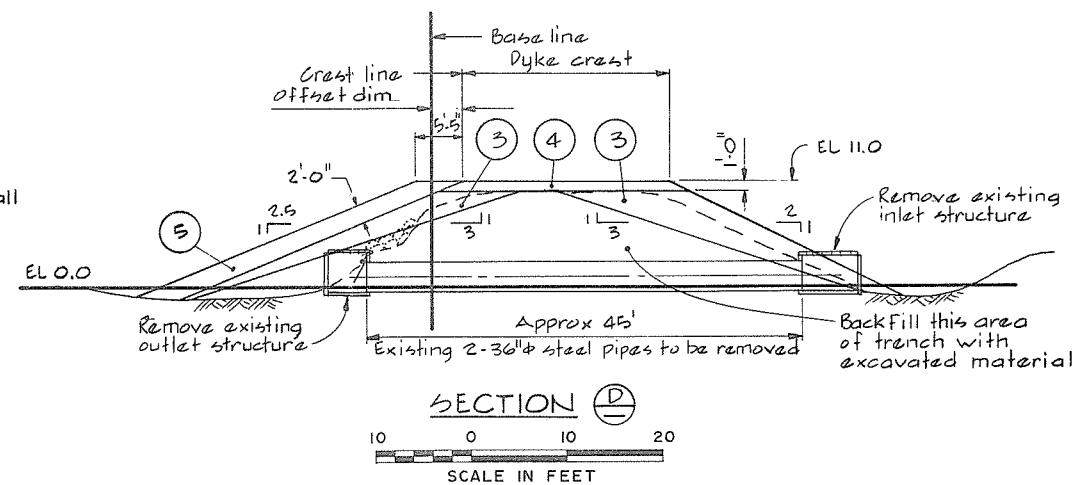
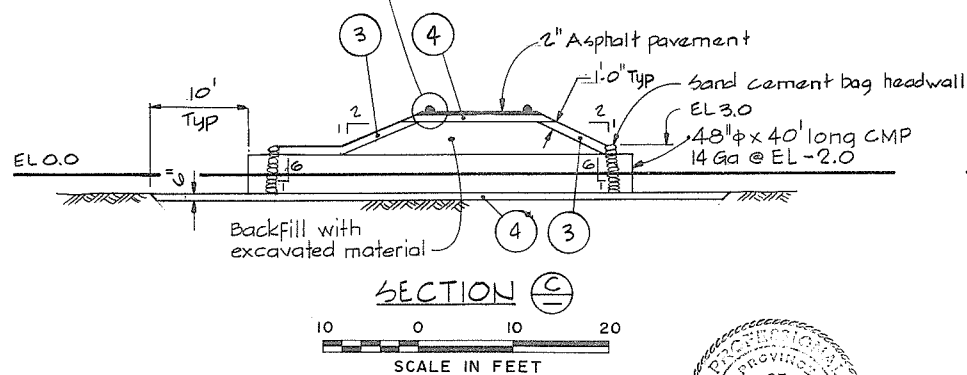
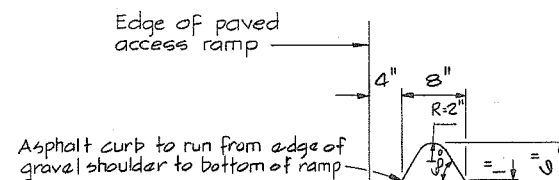
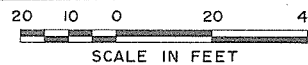
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DRAWN	WJ & WZ	DATE	
CHECKED	PLC	FILE NO.	0281550-C10-15
SCALE	AS SHOWN	DATE	Jan 1977
DWG. NO.	4795-15-23	SHEET	4 OF 8 SHEETS



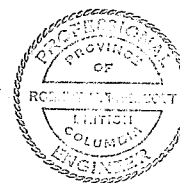
SCOUR PROTECTION & DYKE GRADING AT DRAINAGE DISCHARGE STRUCTURE NO. 28B



DRAINAGE DISCHARGE STRUCTURE NO. 28 & ACCESS TO HOUSE 1069 RIVER ROAD



NOTES
For Notes, Material Legend & Legend see 4795-15-20



CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

NO. BY REVISIONS DATE

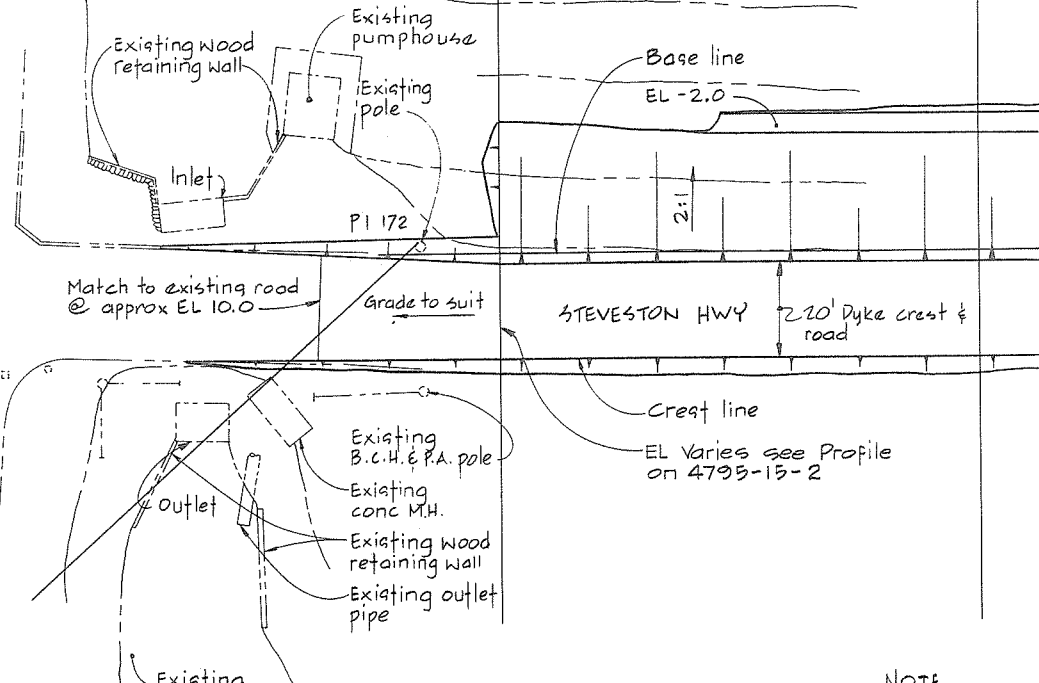
RECOMMENDED *R. N. Conner*
PROJECT MANAGER
DATE *Dec 15/76*
APPROVED *John Fuller*
DIRECTOR
DATE *Dec 15/76*

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
MISCELLANEOUS DYKE DETAILS

DESIGNED *DLC & EMH*
DRAWN *AR*
CHECKED *PLC*
SCALE AS SHOWN
DWG. NO. 4795-15-24
SURVEYED
DATE
FILE NO. 02B1550-C10-15
DATE Jan 1977
SHEET 5 OF 8 SHEETS



DRAINAGE DISCHARGE STRUCTURE NO. 25



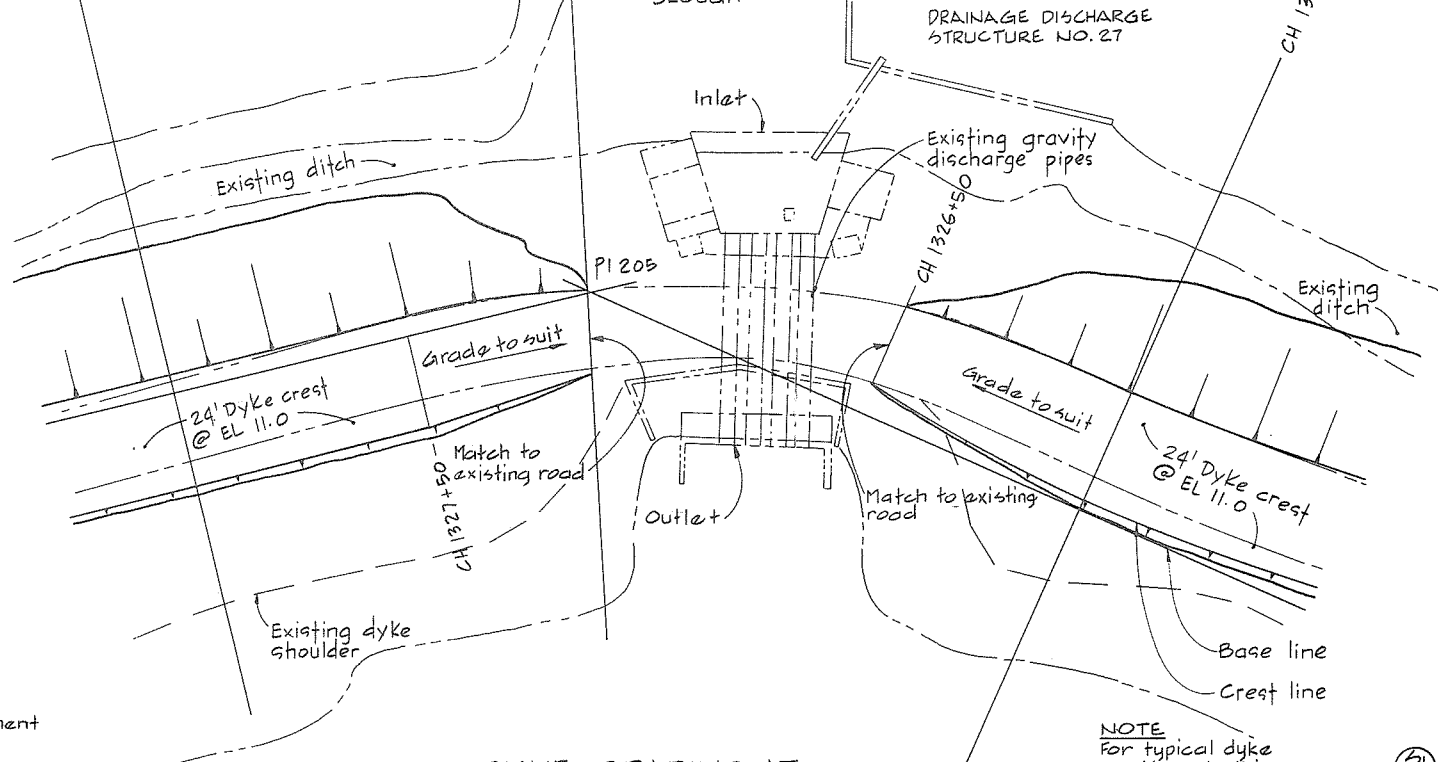
DYKE GRADING AT DRAINAGE DISCHARGE STRUCTURE NO. 25



NOTE
• Re pave dyke crest & south shoulder where pavement now exists.
• For typical dyke sections in this area see (W 14)



HORSESHOE SLOUGH



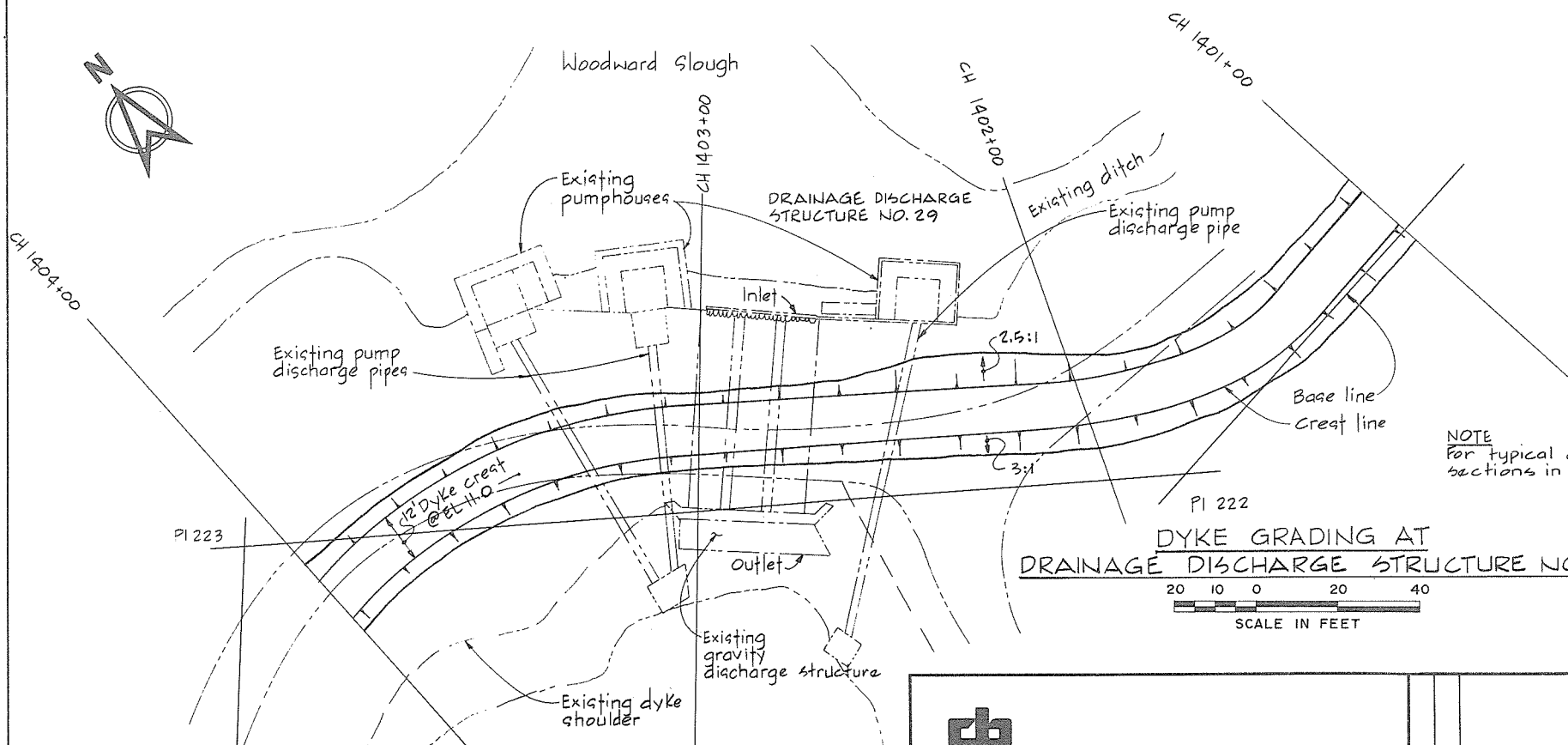
DYKE GRADING AT DRAINAGE DISCHARGE STRUCTURE NO. 27



NOTE
For typical dyke sections in this area see (T 17) & (T 18)



Woodward Slough



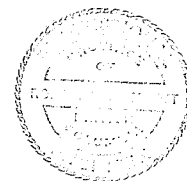
DYKE GRADING AT DRAINAGE DISCHARGE STRUCTURE NO. 29



NOTE
For typical dyke sections in this area see (E 2) & (T 19)

NOTES

• For Notes, Material Legend & Legend see 4795-15-20



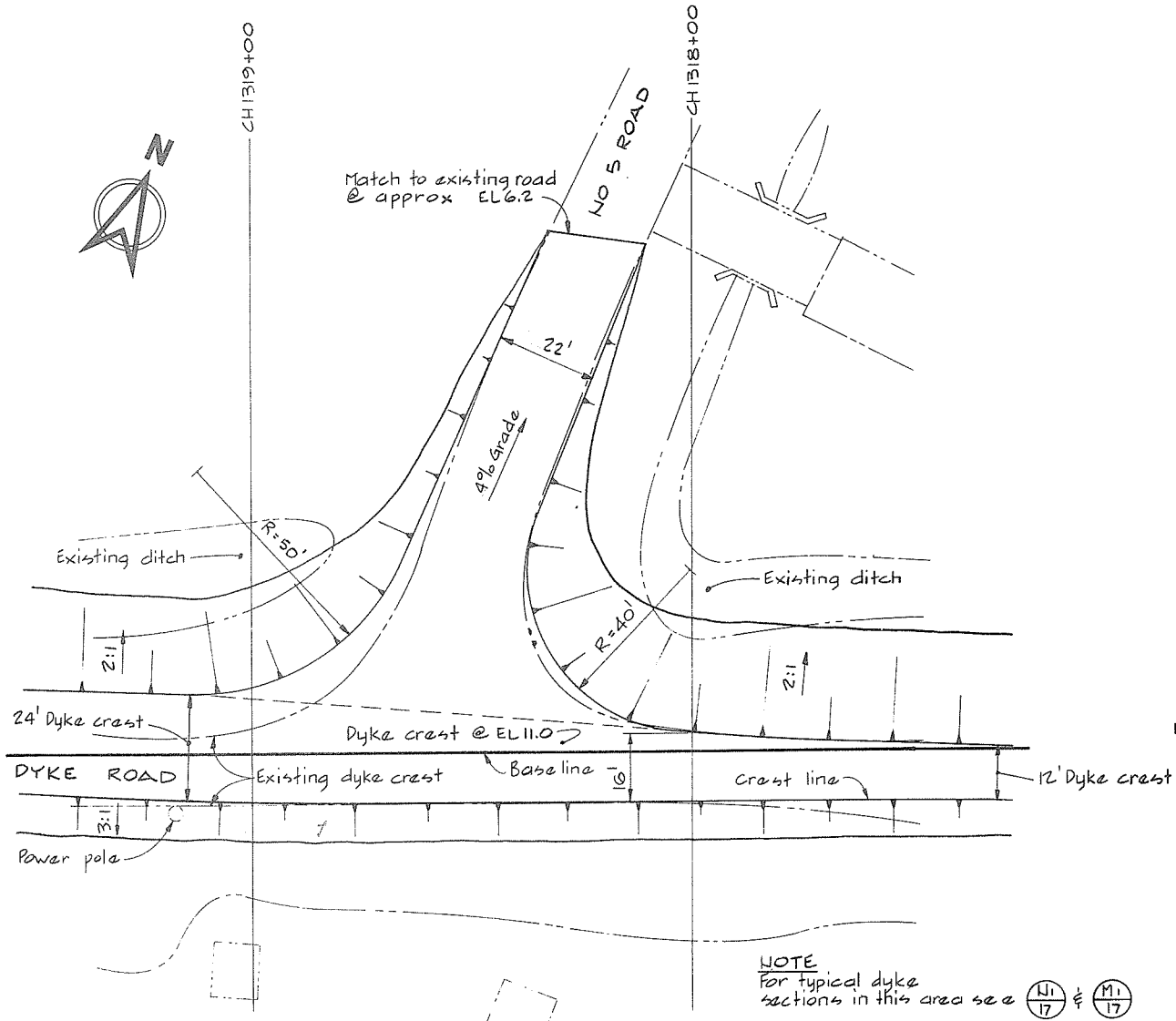
CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

NO. BY REVISIONS DATE

RECOMMENDED *R.A. Cameron*
PROJECT MANAGER
DATE *Dec 15/76*
APPROVED *John Fuller*
FOR DIRECTOR
DATE *Dec 15/76*

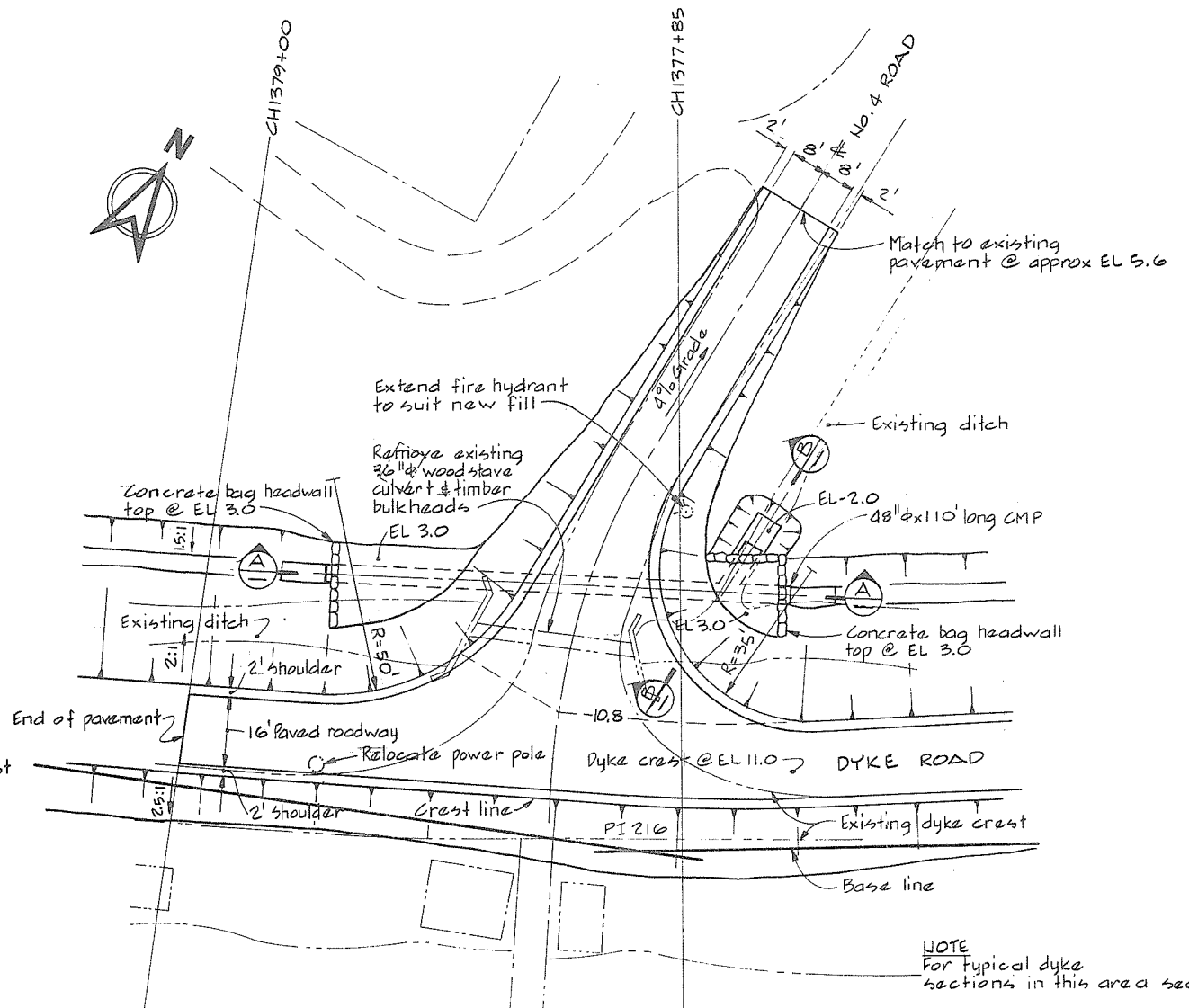
BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
MISCELLANEOUS DYKE DETAILS

DESIGNED <i>R.C. & M.L.</i>	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>DL</i>	FILE NO. 0281550-C10-15
SCALE AS SHOWN	DATE <i>Jan 1977</i>
DWG. NO. 4795-15-25	SHEET 6 OF 8 SHEETS



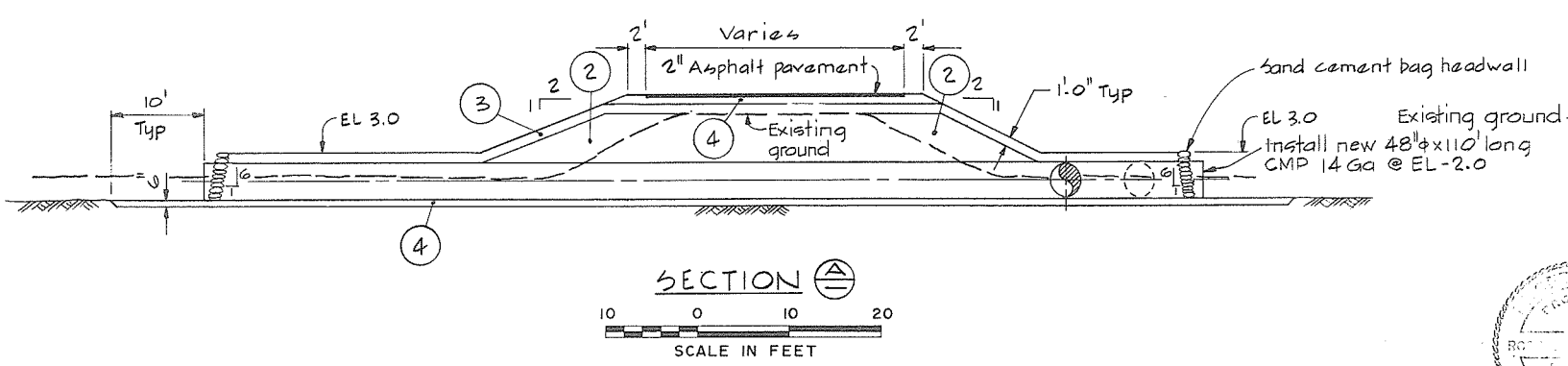
NO. 5 ROAD SOUTH
 20 10 0 20 40
 SCALE IN FEET

NOTE
 For typical dyke sections in this area see (M1) & (M17)

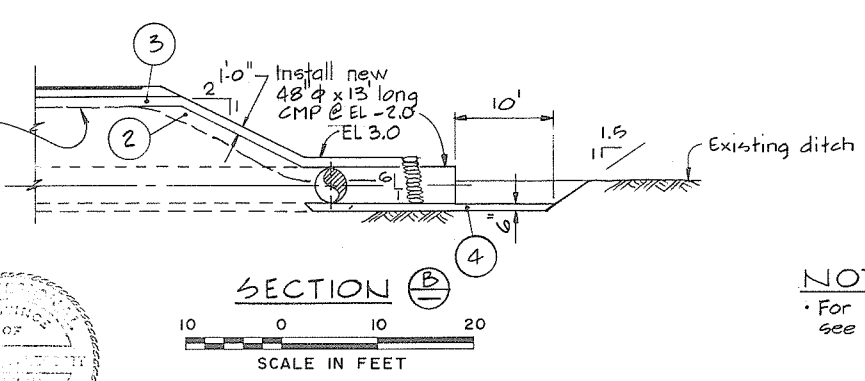


NO. 4 ROAD SOUTH
 20 10 0 20 40
 SCALE IN FEET

NOTE
 For typical dyke sections in this area see (C2) & (C19)

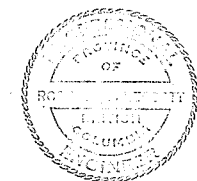


SECTION A
 10 0 10 20
 SCALE IN FEET



SECTION B
 10 0 10 20
 SCALE IN FEET

NOTES
 For Notes, Material Legend & Legend see 4795-15-20



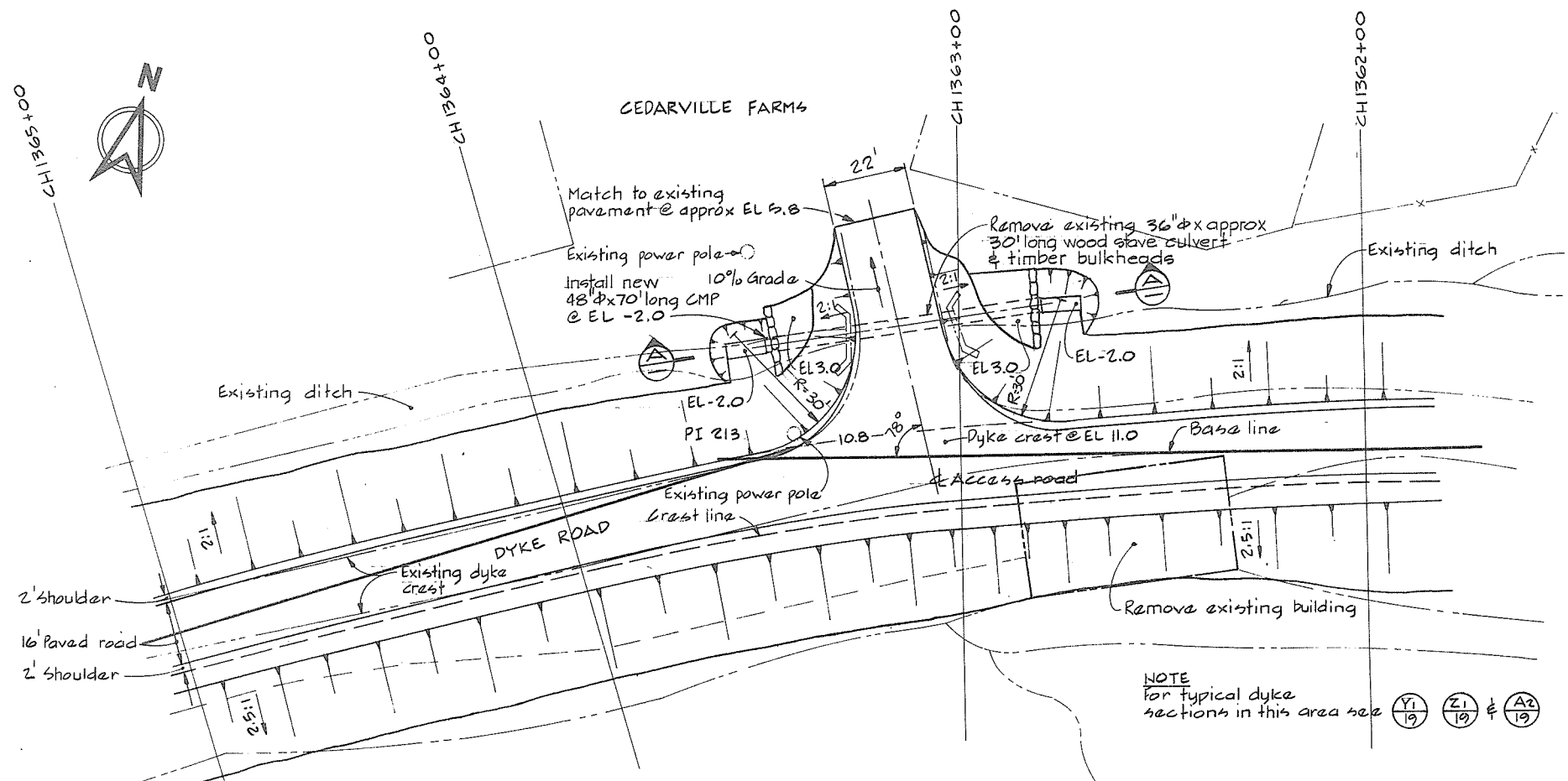
CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED	<i>B.A. Camm</i>	PROJECT MANAGER
DATE	<i>Dec 15/76</i>	
APPROVED	<i>[Signature]</i>	DIRECTOR
DATE	<i>Dec 15/76</i>	

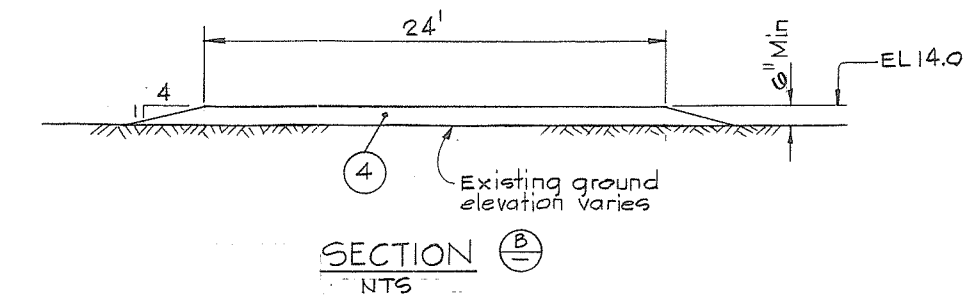
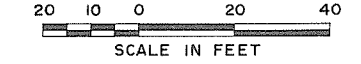
BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT

PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 MISCELLANEOUS DETAILS

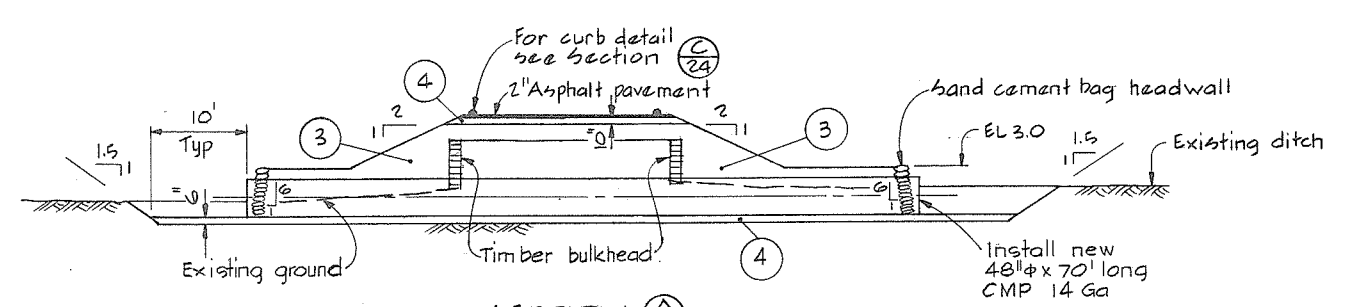
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DRAWN	<i>AR</i>	DATE	
CHECKED	<i>DLG</i>	FILE NO.	029/550-C10-15
SCALE	AS SHOWN	DATE	Jan 1977
DWG. NO.	4795-15-26	SHEET	7 OF 8 SHEETS



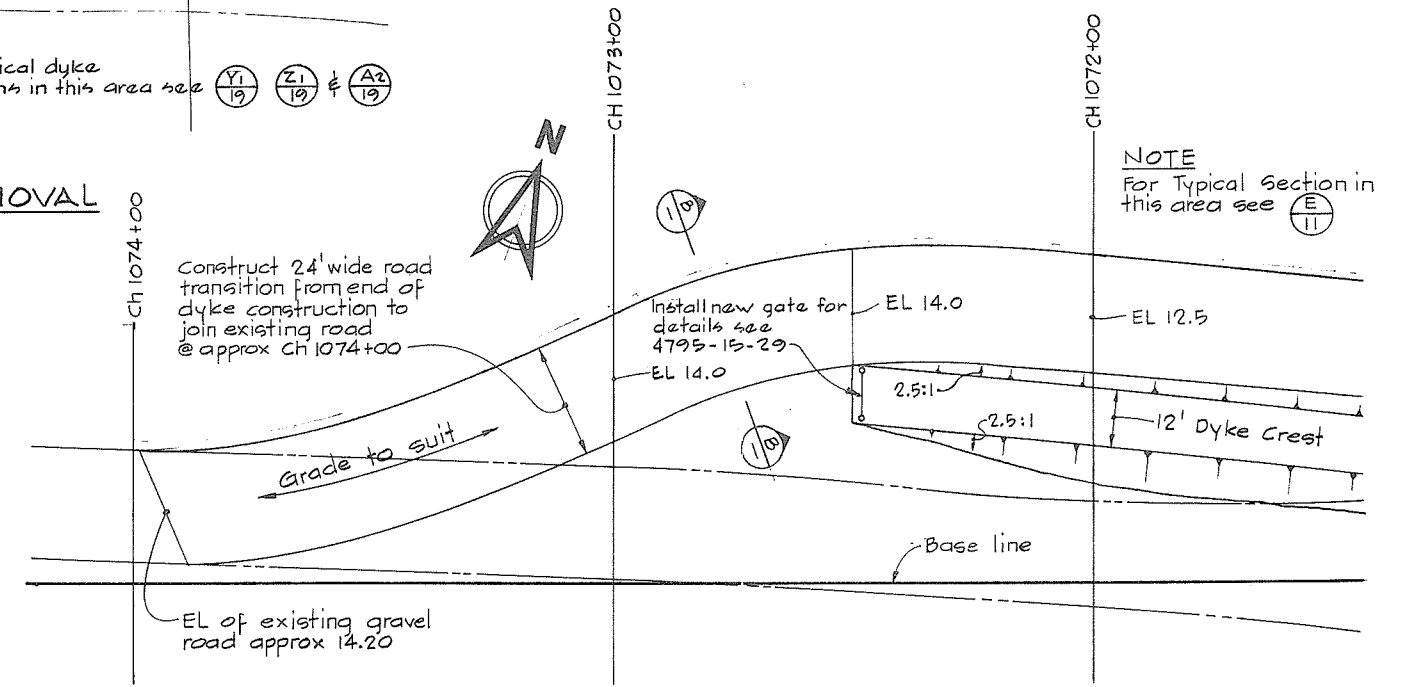
CEDARVILLE FARM ACCESS AND BUILDING REMOVAL



SECTION B-B
NTS



SECTION A-A
SCALE IN FEET



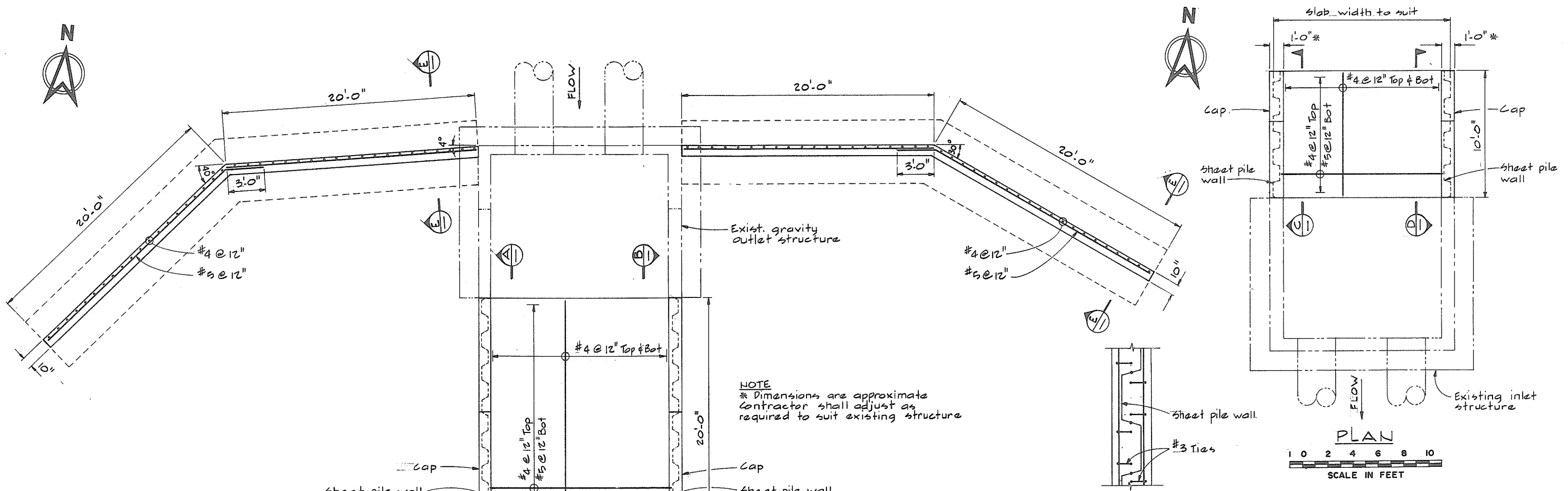
**SANITARY LAND FILL AREA HAUL ROAD
TRANSITION CH 1072+50 TO 1074+00**



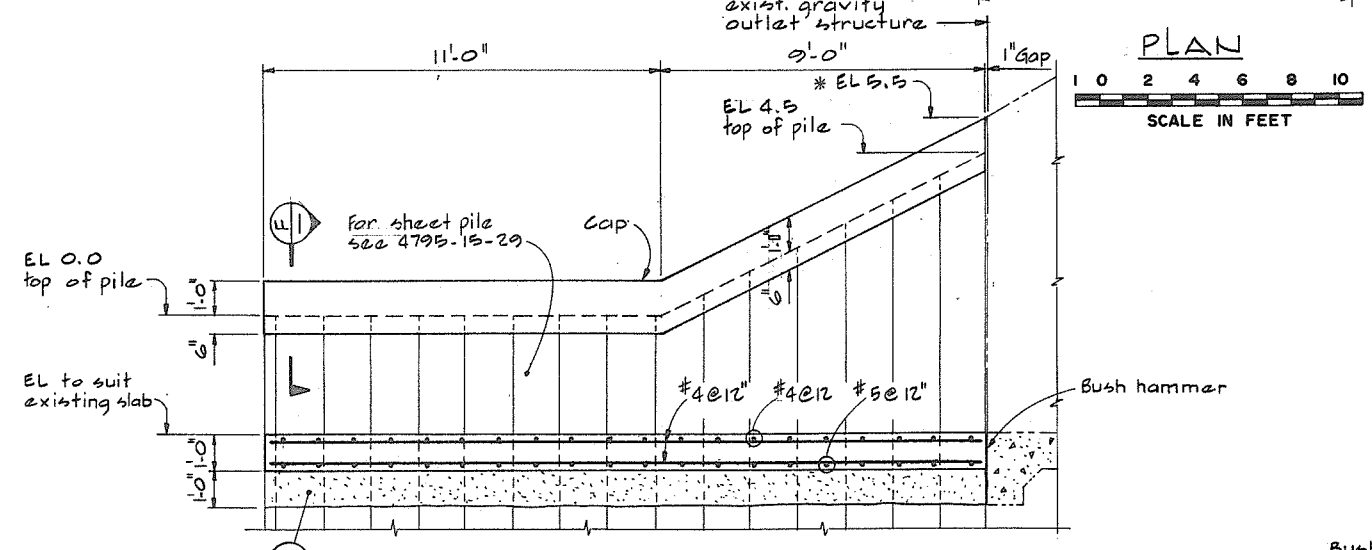
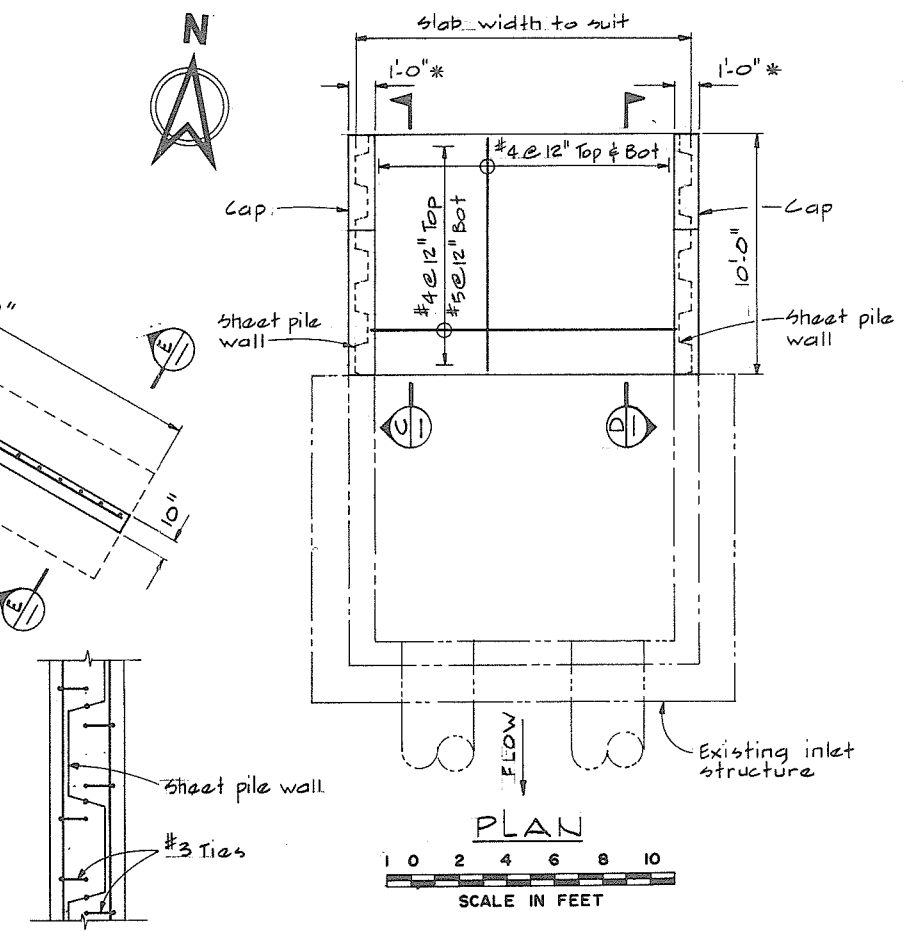
NOTES
for Notes, Material Legend & Legend
see 4795-15-20



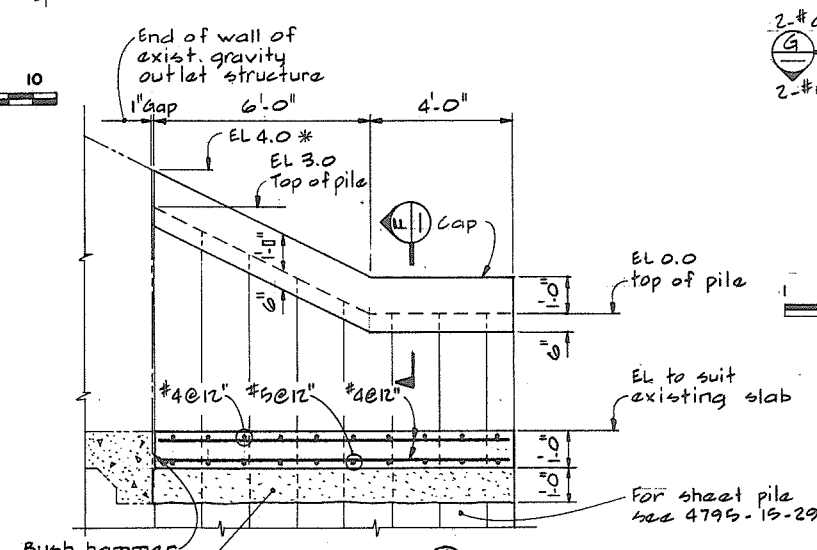
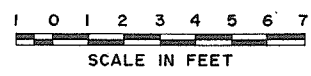
<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	RECOMMENDED <i>B.R. Cameron</i> PROJECT MANAGER DATE: <i>Dec 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT	DESIGNED <i>PLC & EMU</i> SURVEYED DATE
	APPROVED <i>John Fuller</i> DIRECTOR DATE: <i>Dec 15/76</i>	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 MISCELLANEOUS DYKE DETAILS	CHECKED <i>PLC</i> FILE NO. <i>0281550-C10-15</i> DATE <i>Jan 1977</i>
NO. BY REVISIONS DATE	DATE: <i>Dec 15/76</i>	DWG. NO. <i>4795-15-27</i>	SHEET <i>8</i> OF <i>8</i> SHEETS



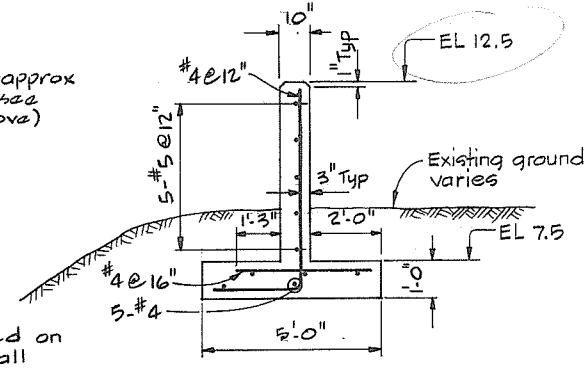
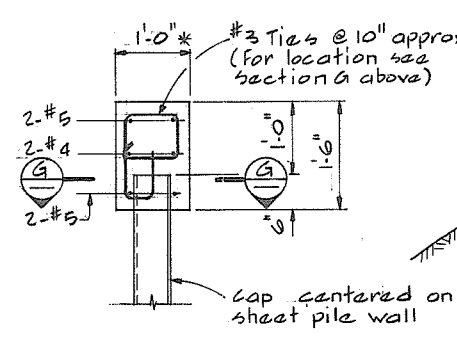
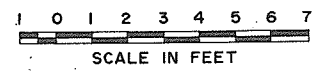
NOTE
 * Dimensions are approximate
 Contractor shall adjust as
 required to suit existing structure



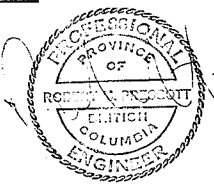
SECTION A SHOWN
SECTION B SIMILAR
BUT OPP HAND



SECTION C SHOWN
SECTION D SIMILAR
BUT OPP HAND



NOTES
 For General Notes - structural
 see 4795-15-22



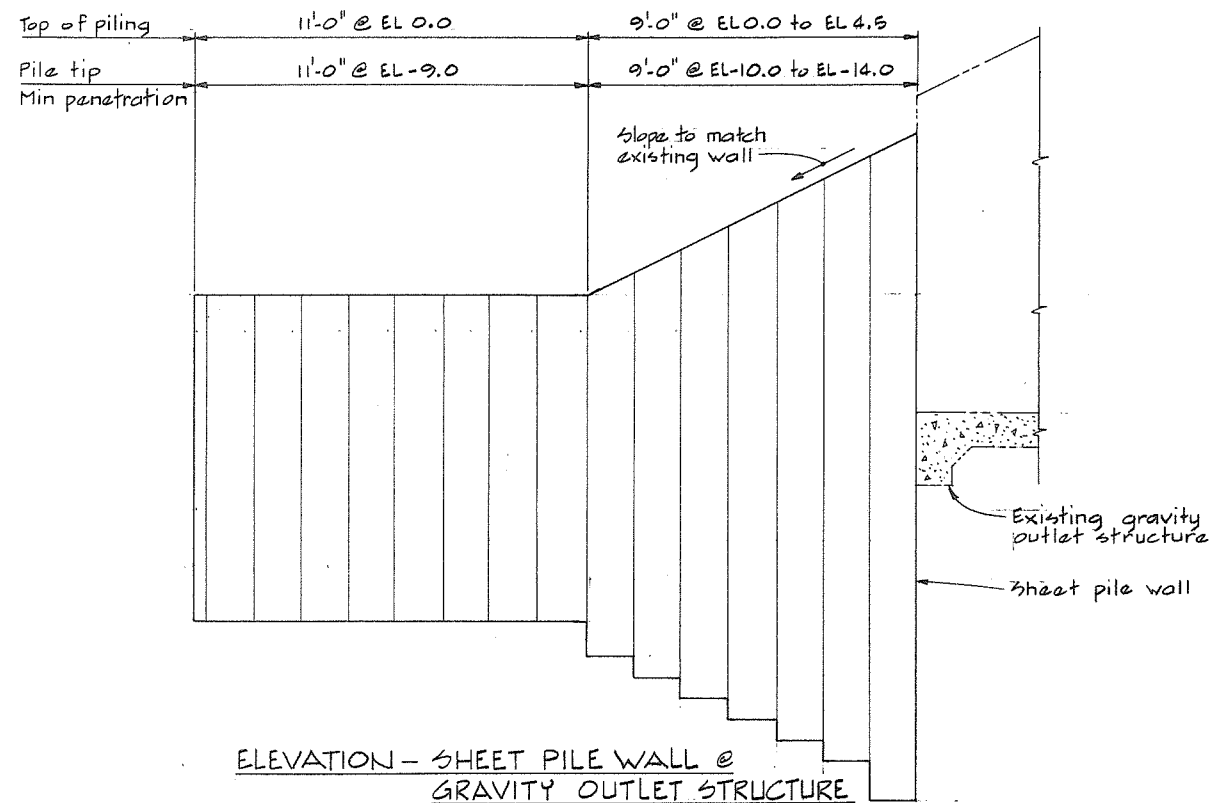
CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

NO.	BY	REVISIONS	DATE

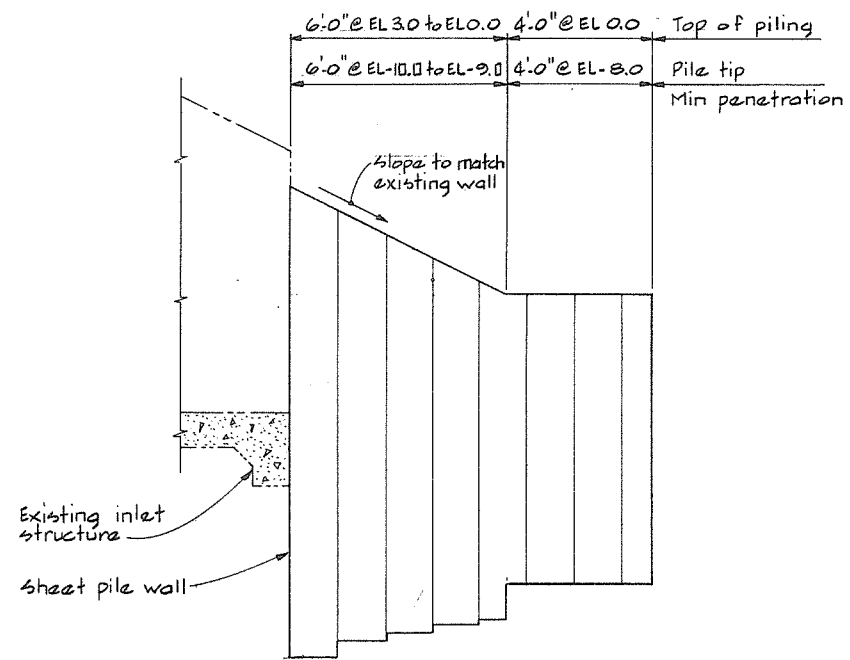
RECOMMENDED *A. N. Cameron*
 PROJECT MANAGER
 DATE *Dec 15/76*
 APPROVED *John Fuller*
 DIRECTOR
 DATE *Dec 15/76*

BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA - BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 NELSON RD SOUTH GRAVITY DISCHARGE STRUCTURE
 MODIFICATION DETAILS

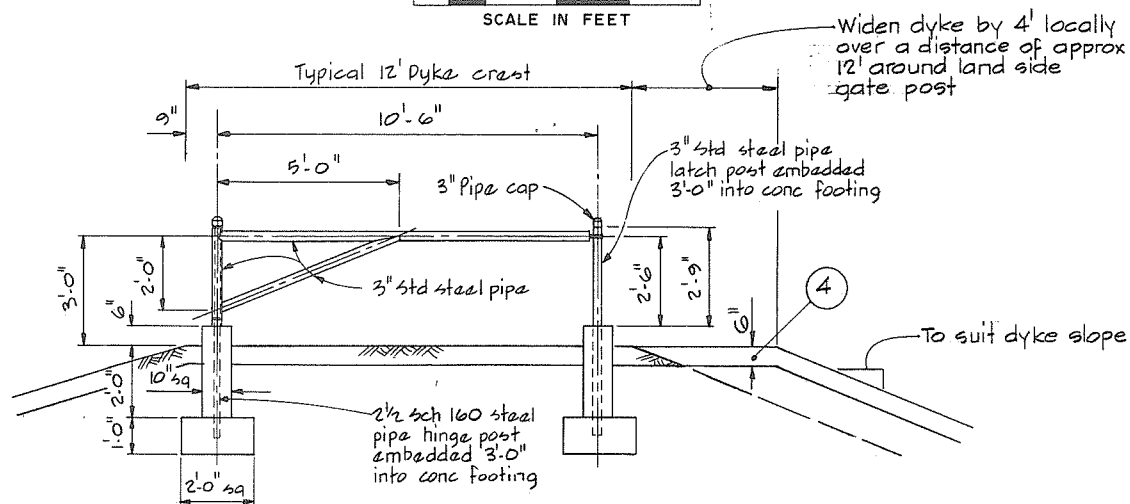
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DRAWN <i>AR</i>	DATE
CHECKED <i>DL</i>	FILE NO. <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-28</i>	SHEET <i> </i> OF <i> </i> SHEETS



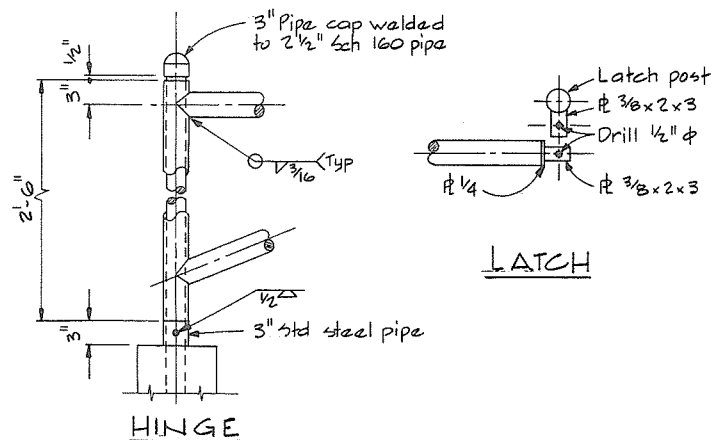
ELEVATION - SHEET PILE WALL @ GRAVITY OUTLET STRUCTURE



ELEVATION - SHEET PILE WALL @ INLET STRUCTURE



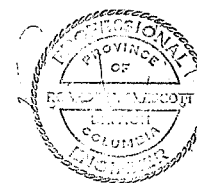
ELEVATION



GATE DETAILS
FTS

NOTES

- For Notes, Material Legend & Legend see 4795-15-20
- Sheet piling shall have a section module of at least 4 in³/ft and a weight of at least 12 lbs/ sq ft.



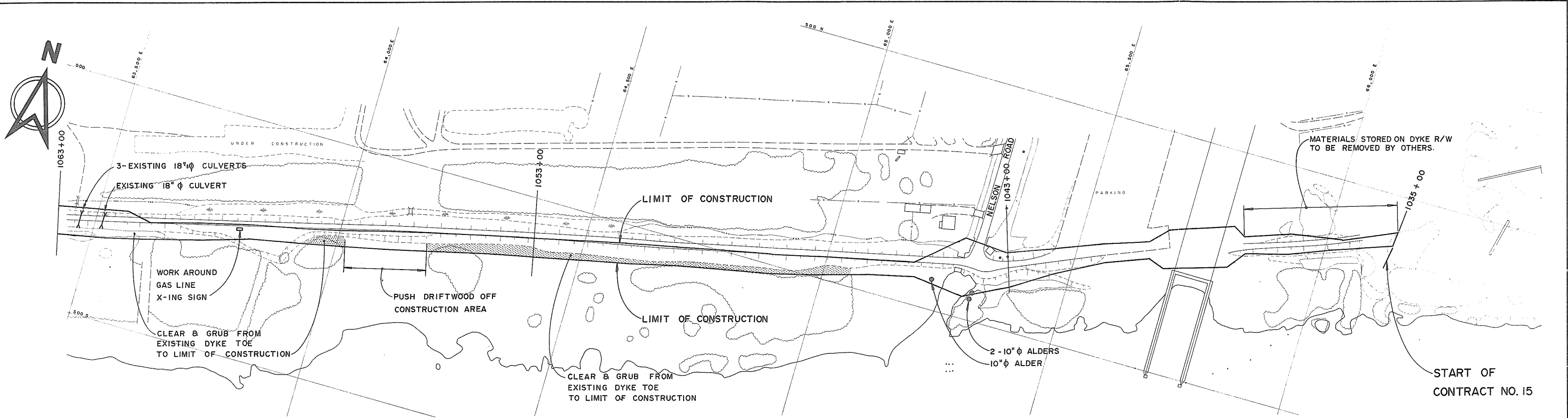
CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

NO. BY REVISIONS DATE

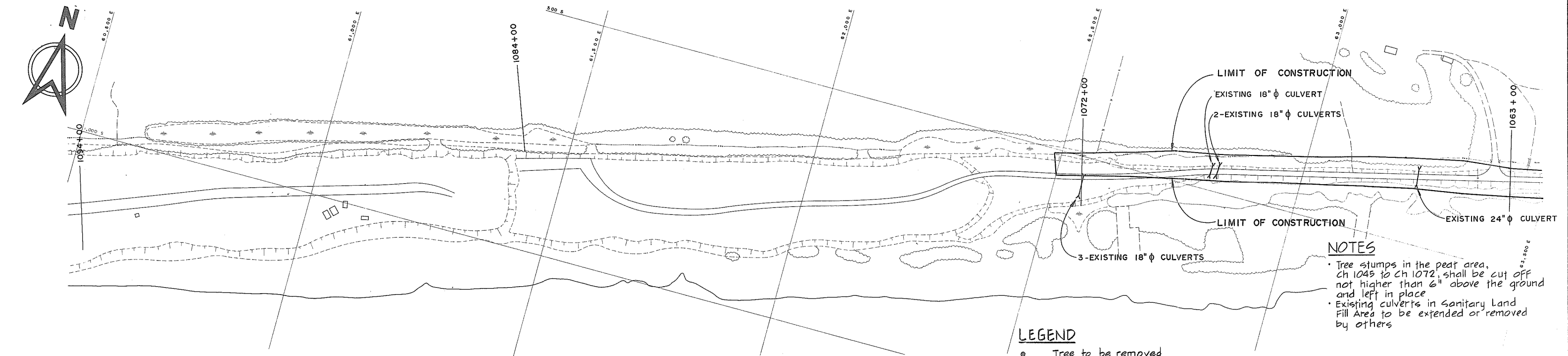
RECOMMENDED *R. St. Camer*
PROJECT MANAGER
DATE *Dec 15/76*
APPROVED *[Signature]*
DIRECTOR
DATE *Dec 15/76*

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
MISCELLANEOUS STEELWORK DETAILS

DESIGNED <i>DL & EMH</i>	SURVEYED
DRAWN <i>AR</i>	DATE
CHECKED <i>DL</i>	FILE NO. 0281550-C10-15
SCALE AS SHOWN	DATE Jan 1977
DWG. NO. 4795-15-29	SHEET OF SHEETS



SOUTH ARM FRASER RIVER

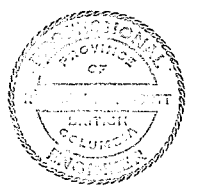


SOUTH ARM FRASER RIVER



- LEGEND**
- Tree to be removed
 - Tree to stay
 - ▨ Tree areas to be cleared & grubbed
 - ▩ Building or structure to be removed

- NOTES**
- Tree stumps in the peat area, Ch 1045 to Ch 1072, shall be cut off not higher than 6" above the ground and left in place
 - Existing culverts in Sanitary Land Fill Area to be extended or removed by others



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CONSULTING ENGINEERS - VANCOUVER - CANADA

NO.	BY	REVISIONS	DATE

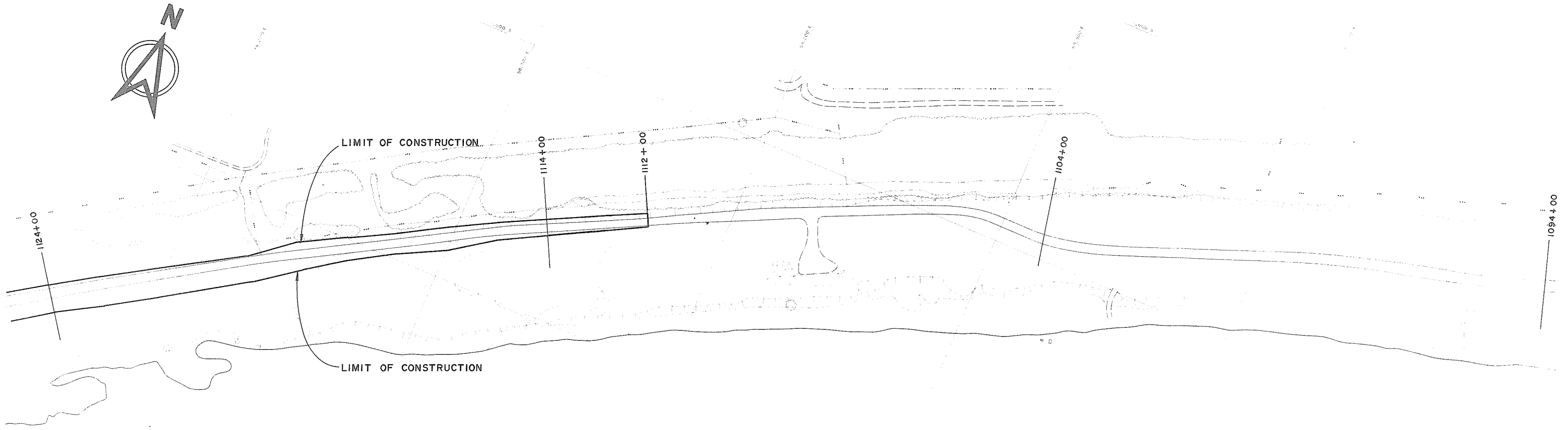
RECOMMENDED *R. Cameron*
PROJECT MANAGER.
DATE *Dec 15/76*

APPROVED *J. G. Sullivan*
FOR DIRECTOR
DATE *Dec 15/76*

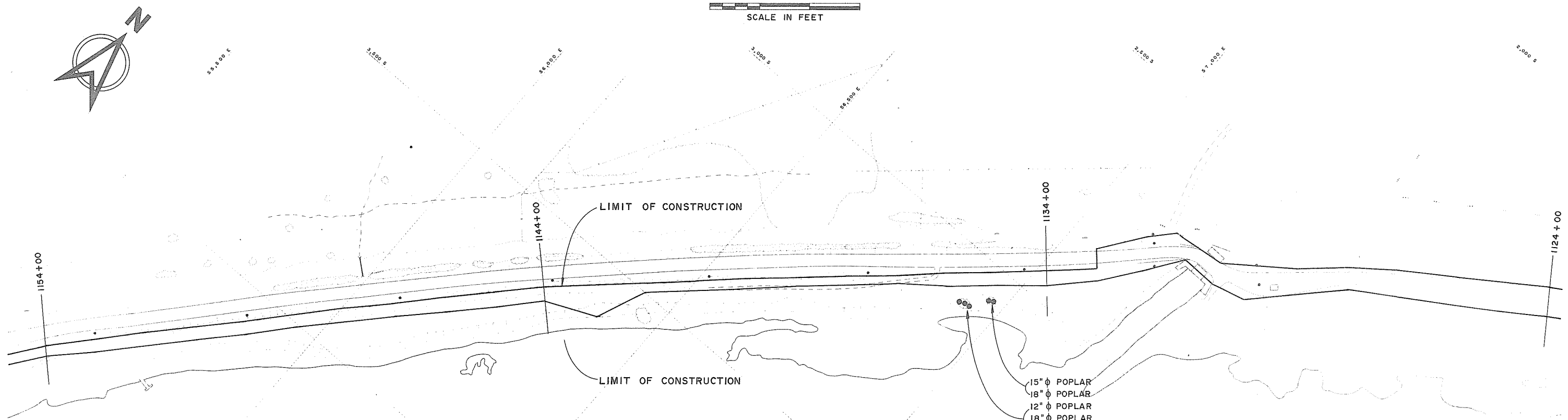
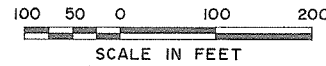
BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1965 AGREEMENT

PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
TREE REMOVAL, CLEARING & GRUBBING

DESIGNED <i>DLG & EMH</i>	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>DLG</i>	FILE NO <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-30</i>	SHEET <i>1</i> OF <i>8</i> SHEETS

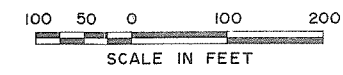


SOUTH ARM FRASER RIVER

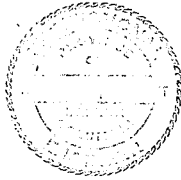


SOUTH ARM FRASER RIVER

- 15" ϕ POPLAR
- 18" ϕ POPLAR
- 12" ϕ POPLAR
- 18" ϕ POPLAR
- 24" ϕ POPLAR



NOTES
 For Notes & Legend see 4795-15-30



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 CONSULTING ENGINEERS - VANCOUVER - CANADA

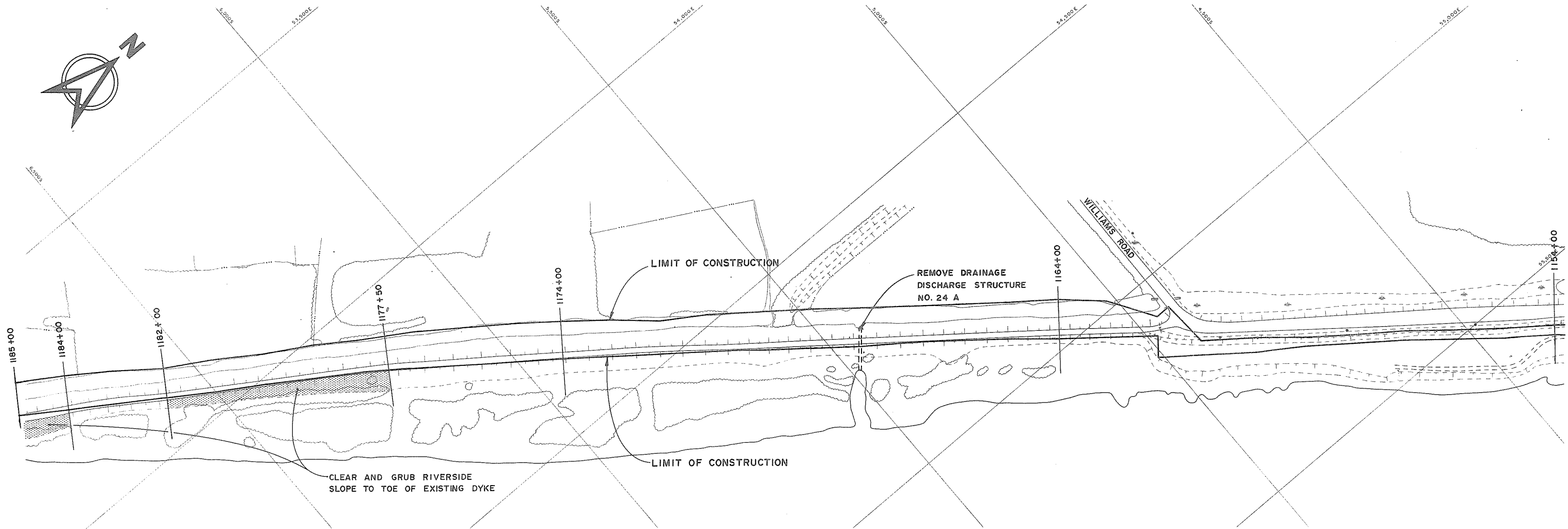
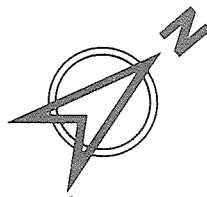
NO.	BY	REVISIONS	DATE

RECOMMENDED *R. H. Cameron*
 PROJECT MANAGER
 DATE *Dec. 15/76*
 APPROVED *M. J. Allen*
 DIRECTOR
 DATE *Dec. 15/76*

BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA — BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 3 — THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 TREE REMOVAL, CLEARING & GRUBBING

DESIGNED *dlc & EMH*
 DRAWN *Wn*
 CHECKED *dlc*
 SCALE AS SHOWN
 DWG. NO. 4795-15-31

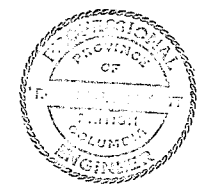
SURVEYED
 DATE
 FILE NO. 0281550-C10-15
 DATE Jan 1977
 SHEET 2 OF 8 SHEETS



SOUTH ARM FRASER RIVER



NOTES
 * For Notes & Legend see 4795-15-30



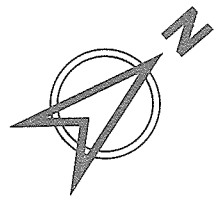
CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED	<i>B. G. Cameron</i> PROJECT MANAGER
DATE	<i>Dec 15/76</i>
APPROVED	<i>[Signature]</i> DIRECTOR
DATE	<i>Dec 15/76</i>

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

PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 TREE REMOVAL, CLEARING & GRUBBING

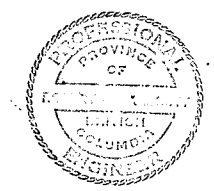
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DRAWN	<i>Wn</i>	DATE	
CHECKED	<i>[Signature]</i>	FILE NO.	0281550-C10-15
SCALE	AS SHOWN	DATE	Jan 1977
DWG. NO.	4795-15-32	SHEET	3 OF 8 SHEETS



SOUTH ARM FRASER RIVER



NOTES
 For Notes & Legend see 4795-15-30



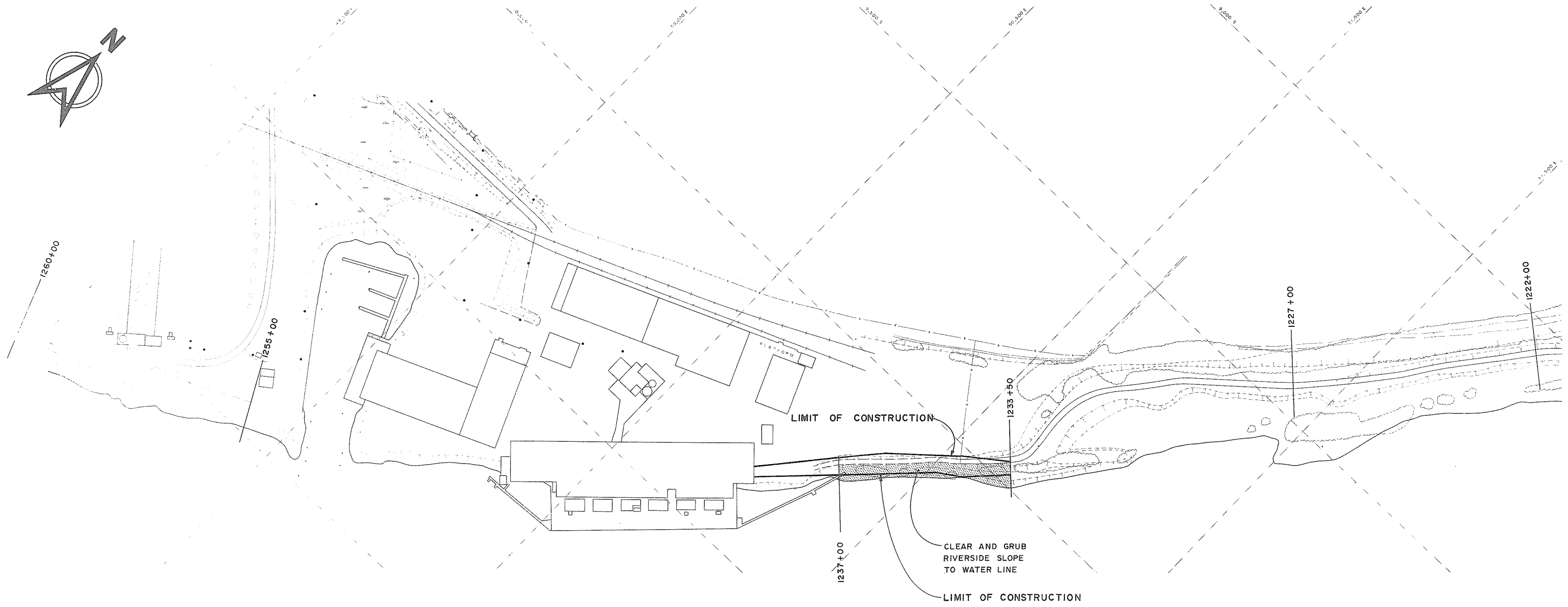
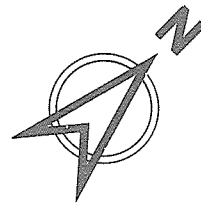
CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

NO.	BY	REVISIONS	DATE

RECOMMENDED *R. A. Cameron*
 PROJECT MANAGER
 DATE *Dec 15/76*
 APPROVED *John J. Jelle*
 DIRECTOR
 DATE *Dec 15/76*

BRITISH COLUMBIA
 MINISTRY OF THE ENVIRONMENT
 WATER INVESTIGATIONS BRANCH
 CANADA — BRITISH COLUMBIA
 FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
 PROJECT NO. 3 — THE TOWNSHIP OF RICHMOND
 CONTRACT NO. 15
 TREE REMOVAL, CLEARING & GRUBBING

DESIGNED <i>DLC & EMH</i>	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-33</i>	SHEET <i>4</i> OF <i>8</i> SHEETS

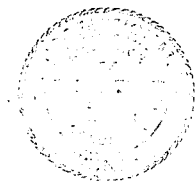



SOUTH ARM FRASER RIVER

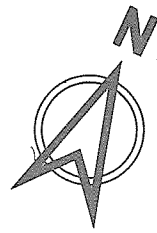
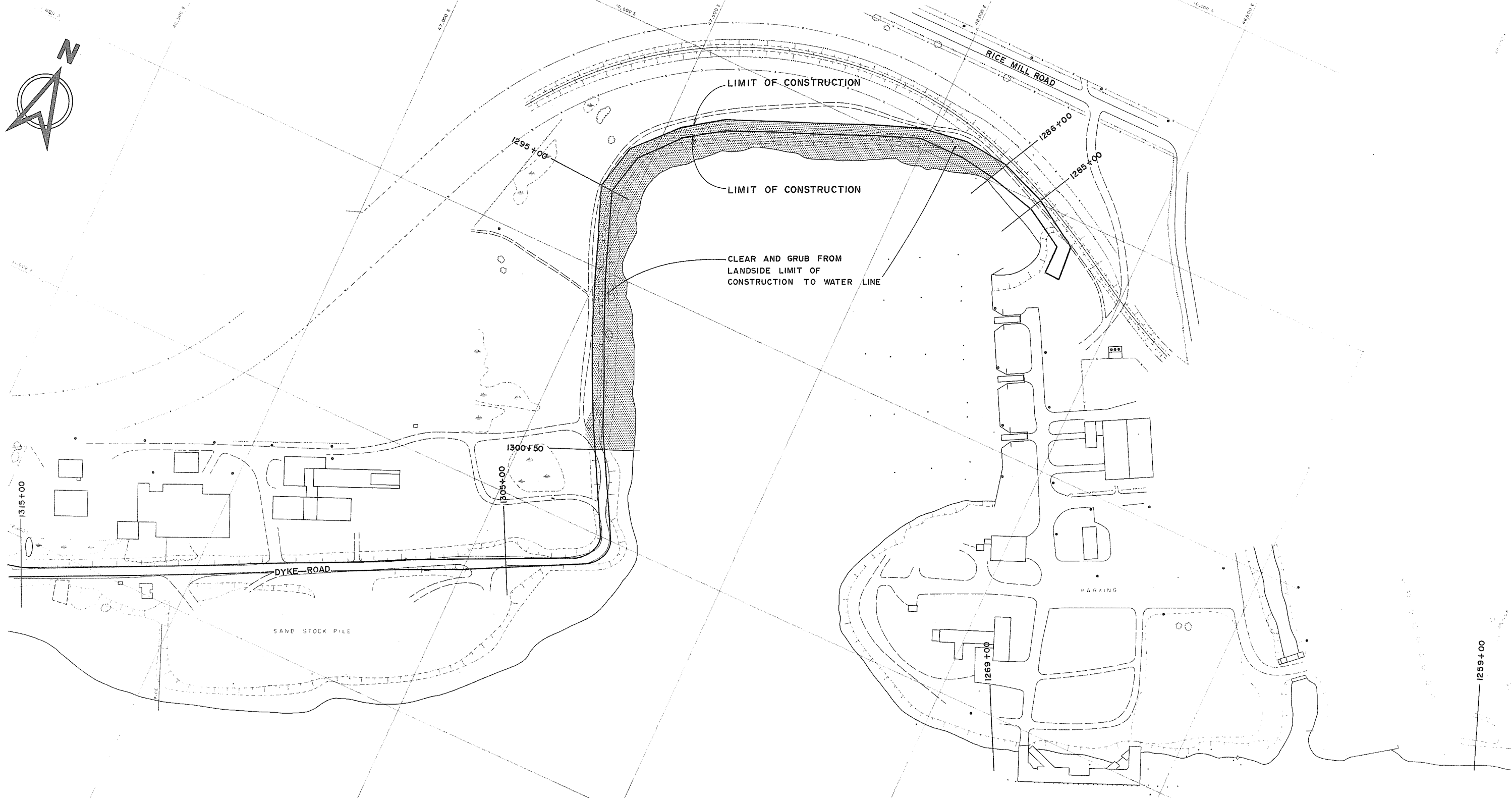


NOTES

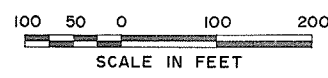
For Notes & Legend see 4795-15-30



 <p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<table border="1"> <tr> <th>NO.</th> <th>BY</th> <th>REVISIONS</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	BY	REVISIONS	DATE					<p>RECOMMENDED <i>R. N. Cameron</i> PROJECT MANAGER</p> <p>DATE <i>Dec 15/76</i></p>	<p>BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT</p>	<p>DESIGNED <i>DLC & EMH</i></p> <p>DRAWN <i>Wn</i></p> <p>CHECKED <i>DLC</i></p> <p>SCALE <i>AS SHOWN</i></p> <p>DWG. NO. 4795-15-34</p>	<p>SURVEYED</p> <p>DATE</p> <p>FILE NO. <i>0281550-C10-15</i></p> <p>DATE <i>Jan 1977</i></p> <p>SHEET <i>5</i> OF <i>8</i> SHEETS</p>
		NO.	BY	REVISIONS	DATE								
<p>APPROVED <i>[Signature]</i> DIRECTOR</p> <p>DATE <i>Dec 15/76</i></p>	<p>PROJECT NO. 3 — THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 TREE REMOVAL, CLEARING & GRUBBING</p>												



SOUTH ARM FRASER RIVER



NOTES
For Notes & Legend see 4795-15-30



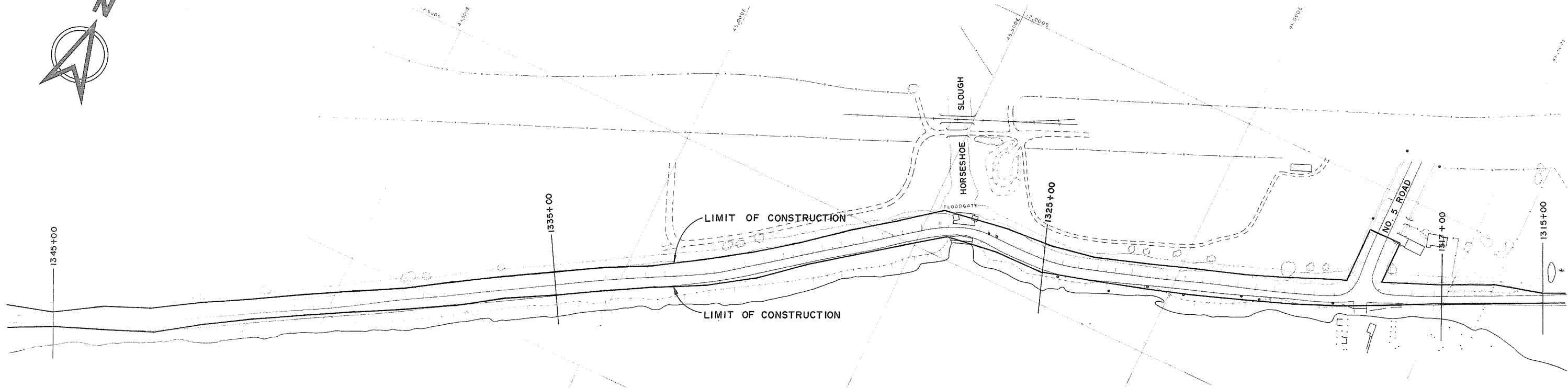
CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED <i>P. B. Cameron</i> PROJECT MANAGER.	DATE <i>Dec. 15/76</i>	
APPROVED <i>J. G. Fuller</i> for DIRECTOR	DATE <i>Dec. 15/76</i>	
NO. BY	REVISIONS	DATE

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

PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
TREE REMOVAL, CLEARING & GRUBBING

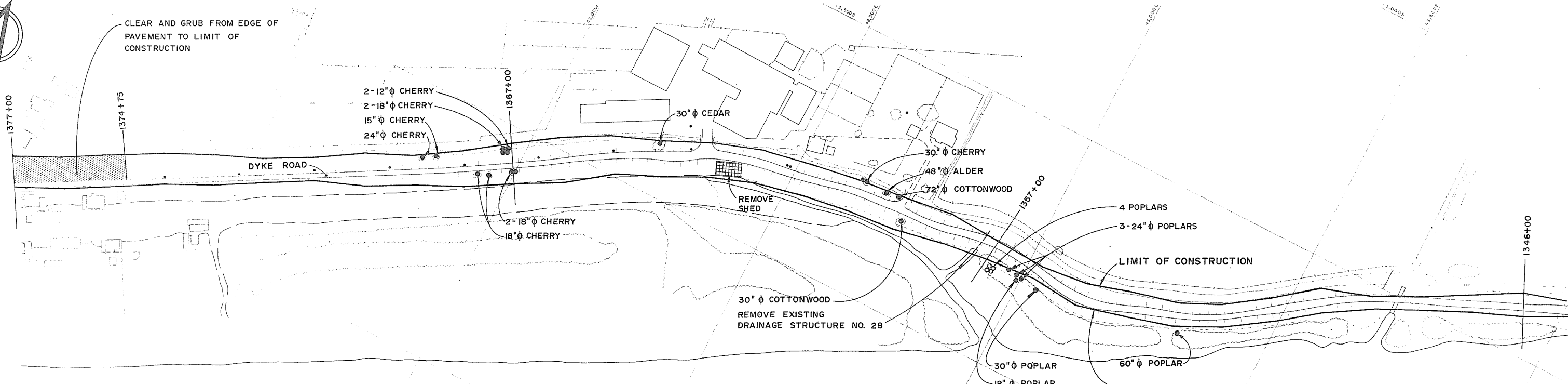
DESIGNED <i>DLC #EMH</i>	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-35</i>	SHEET <i>6</i> OF <i>8</i> SHEETS



SOUTH ARM FRASER RIVER



CLEAR AND GRUB FROM EDGE OF PAVEMENT TO LIMIT OF CONSTRUCTION



SOUTH ARM FRASER RIVER

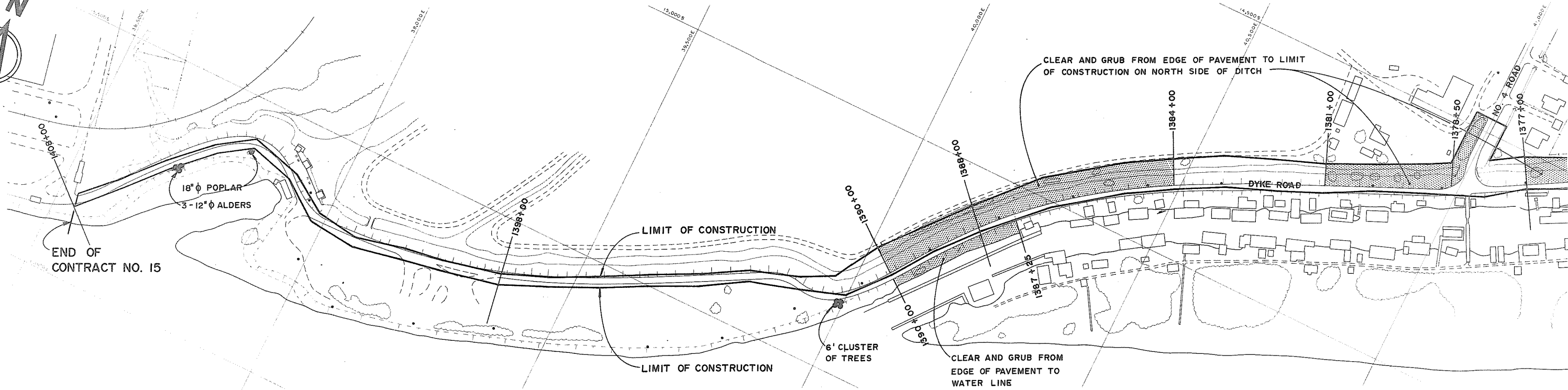
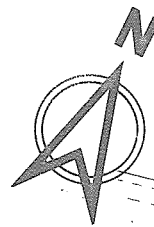


NOTES
 *For Notes & Legend see 4795-15-30

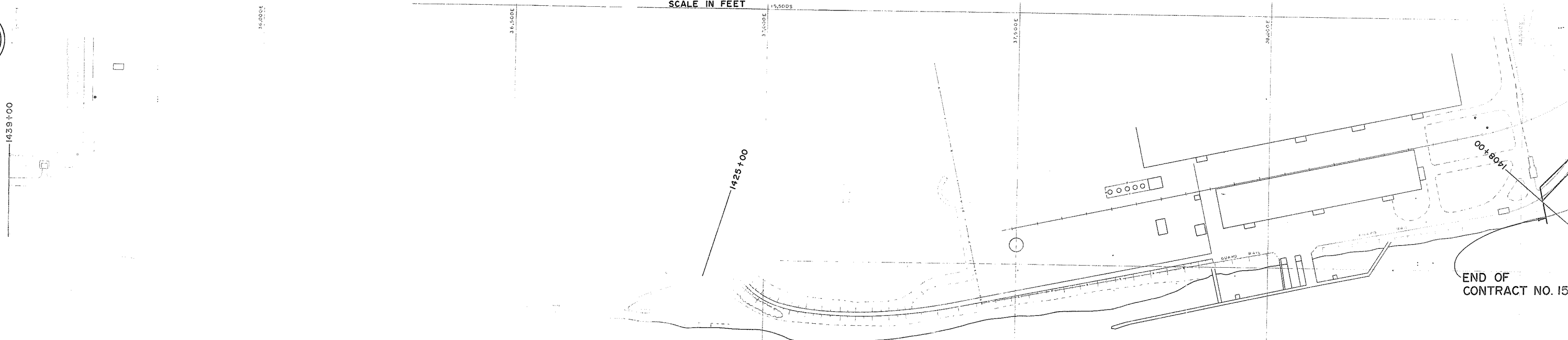


CBA ENGINEERING LTD.
 CONSULTING ENGINEERS - VANCOUVER - CANADA

NO. BY REVISIONS DATE	RECOMMENDED <i>R. H. Cameron</i> PROJECT MANAGER. DATE <i>Dec 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 TREE REMOVAL, CLEARING & GRUBBING	DESIGNED <i>DLG & EMH</i>	SURVEYED
	APPROVED <i>John Fuller</i> FOR DIRECTOR DATE <i>Dec 15/76</i>		DRAWN <i>Wn</i>	DATE
			CHECKED <i>DLG</i>	FILE NO. <i>0281550-C10-15</i>
			SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
			DWG. NO. <i>4795-15-36</i>	SHEET <i>7</i> OF <i>8</i> SHEETS



SOUTH ARM FRASER RIVER

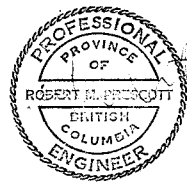


SOUTH ARM FRASER RIVER



NOTES

• for Notes & Legend see 4795-15-30



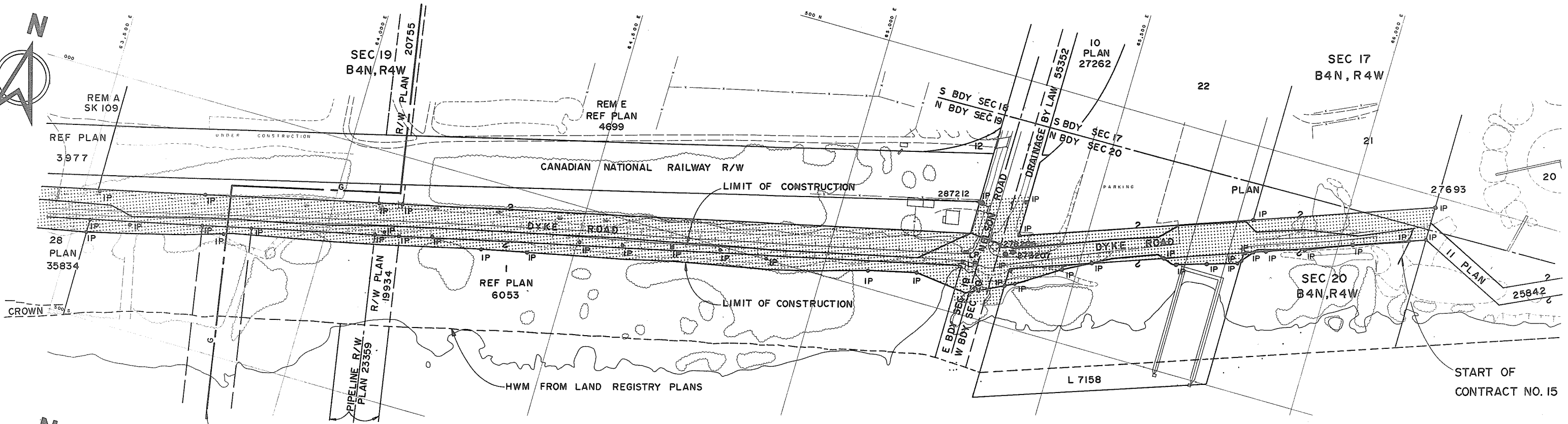
CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

NO. BY REVISIONS DATE

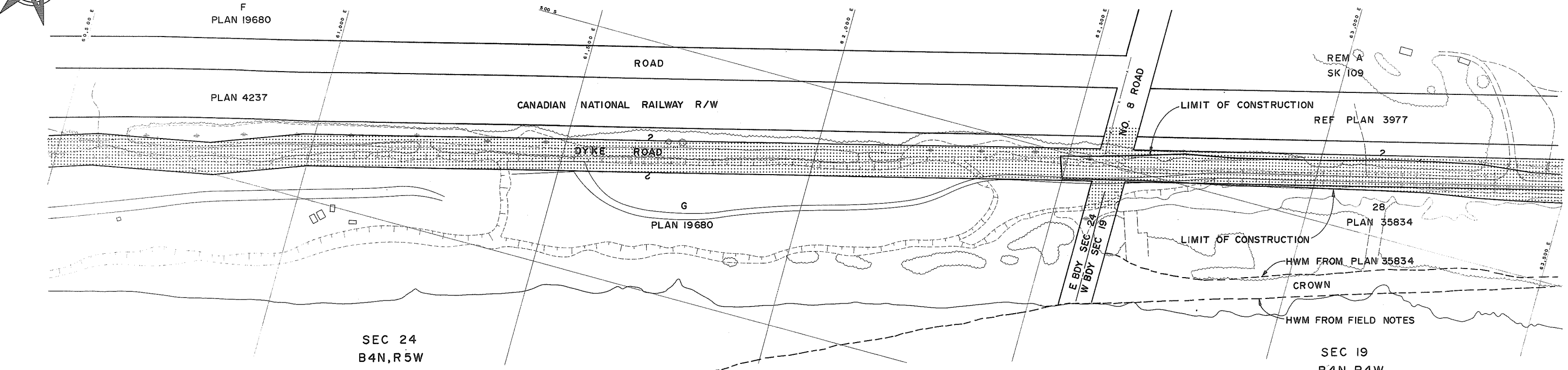
RECOMMENDED *B. K. Cameron*
PROJECT MANAGER
DATE *Dec 15/76*
APPROVED *[Signature]*
for DIRECTOR
DATE *Dec 15/76*

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
WATER INVESTIGATIONS BRANCH
CANADA - BRITISH COLUMBIA
FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
TREE REMOVAL, CLEARING & GRUBBING

DESIGNED <i>DLG</i> <i>HEMH</i>	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>DLG</i>	FILE NO. <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-37</i>	SHEET <i>8</i> OF <i>8</i> SHEETS




SOUTH ARM FRASER RIVER



SOUTH ARM FRASER RIVER



SEC 19
B4N,R4W
NOTE
For Legends see 4795-15-40

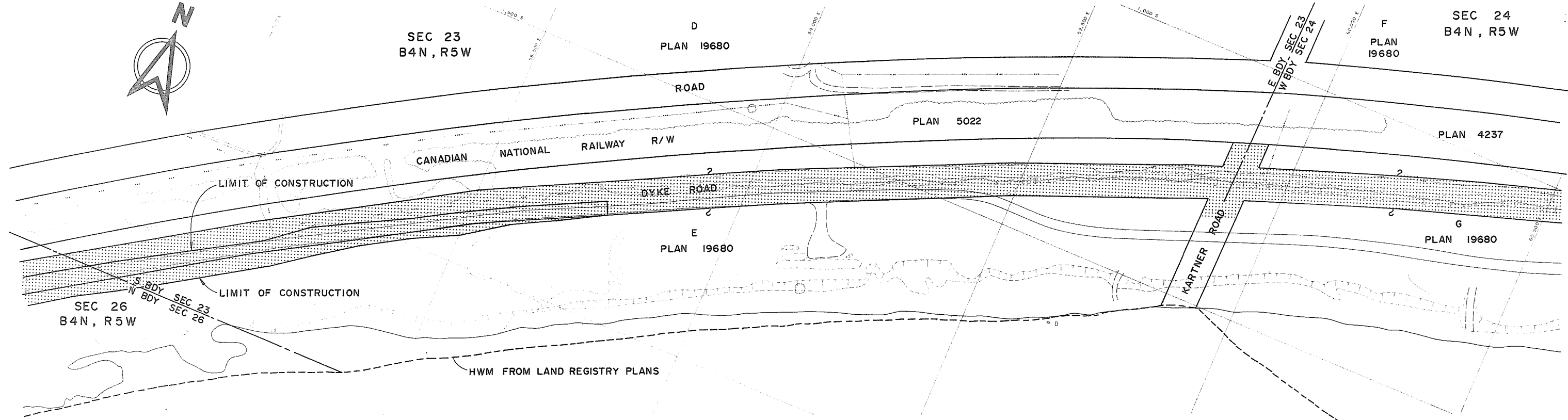
 <p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	RECOMMENDED <i>P. H. Cameron</i> PROJECT MANAGER DATE <i>Dec 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED _____ DRAWN <i>Wn</i> CHECKED <i>DLC</i> SCALE <i>AS SHOWN</i> DWG. NO. 4795-15-38	SURVEYED _____ DATE _____ FILE NO. 0281550-C10-15 DATE <i>Jan 1977</i>
	APPROVED <i>John Fuller</i> DIRECTOR DATE <i>Dec 15/76</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	SHEET 1 OF 8 SHEETS	



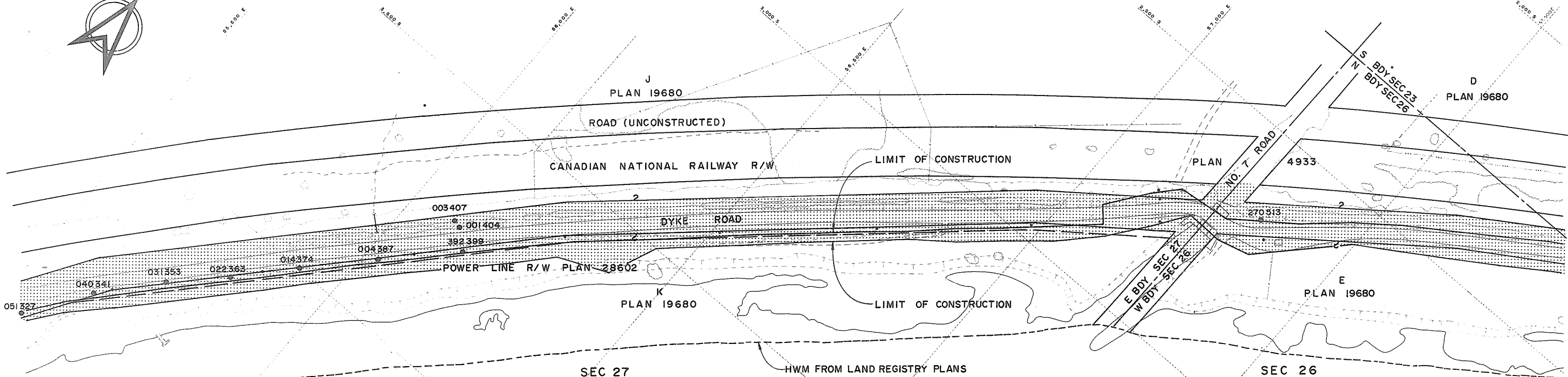
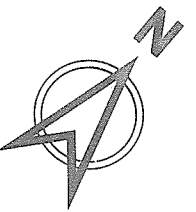
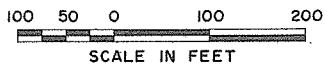
SEC 23
B4N, R5W

D
PLAN 19680

SEC 24
B4N, R5W
F
PLAN 19680



SOUTH ARM FRASER RIVER



SOUTH ARM FRASER RIVER



NOTE
For Legends see 4795-15-40



CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

NO.	BY	REVISIONS	DATE

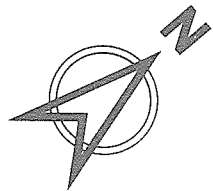
RECOMMENDED *P. R. Cameron*
PROJECT MANAGER
DATE *Dec 15/76*

APPROVED *W. J. Fuller*
DIRECTOR
DATE *Dec 15/76*

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

PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND
CONTRACT NO. 15
PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY
EXISTING SURVEY MARKERS & UTILITIES

DESIGNED	SURVEYED
DRAWN <i>Wn</i>	DATE
CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-15</i>
SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
DWG. NO. <i>4795-15-39</i>	SHEET <i>2</i> OF <i>8</i> SHEETS

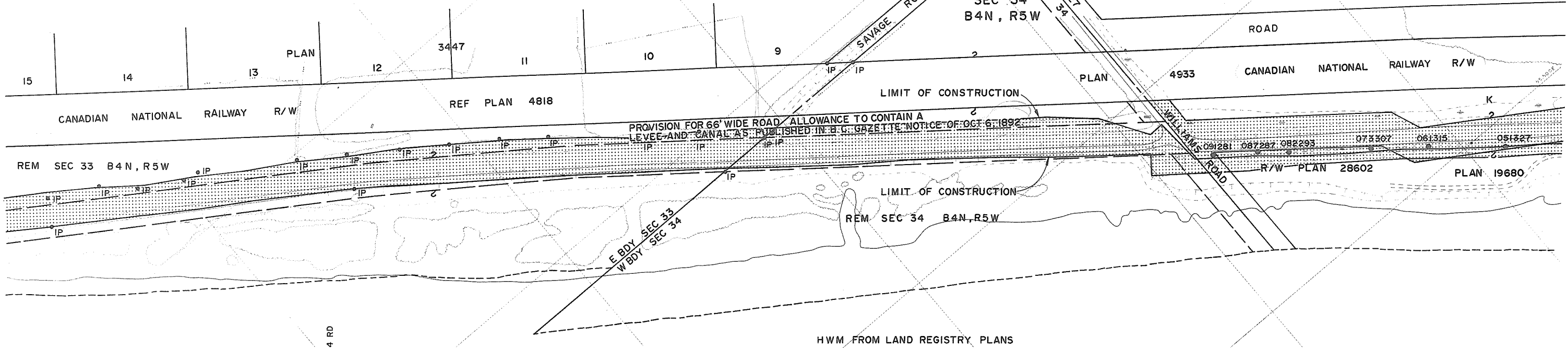


SEC 27
B4 N, R5 W

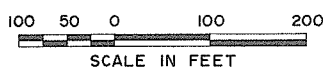
SEC 33
B4 N, R5 W

SEC 34
B4 N, R5 W

PLAN 19680



SOUTH ARM FRASER RIVER



DYKE RD X NELSON RD
DUMP GATE TO WILLIAMS RD
ALONG DYKE RD
STEVESTON HWY & NO. 6 ROAD
NO. 5 ROAD TO
HORSESHOE SLOUGH

HOUSE NO. 1069 TO NO. 4 RD
ALONG DYKE RD
NO. 4 ROAD TO WOODWARD
SLOUGH FLOODBOX

POLE IDENTIFICATION NUMBER & OWNER		WORK REQUIRED
287 212	B.C. HYDRO	N
278 206	B.C. HYDRO	N
273 207	B.C. HYDRO	N
270 513 (NO TAG)	B.C. HYDRO	N
001 404	B.C. HYDRO	N
003 407	B.C. HYDRO	N
392 399	B.C. HYDRO	N
004 387	B.C. HYDRO	N
014 374	B.C. HYDRO	N
022 363	B.C. HYDRO	N
051 353	B.C. HYDRO	N
040 341	B.C. HYDRO	N
051 327	B.C. HYDRO	N
061 315	B.C. HYDRO	N
073 307	B.C. HYDRO	N
082 293	B.C. HYDRO	N
087 287	B.C. HYDRO	N
091 281	B.C. HYDRO	N
327 018	JOINT	* * *
351 018	JOINT	* * *
373 018	JOINT	* * *
395 023	B.C. HYDRO	N
396 017	JOINT	N
001 017	JOINT	N
170 152	JOINT	* * *
192 142	B.C. HYDRO	* * *
209 137	B.C. HYDRO	* * *
233 131	B.C. HYDRO	* * *
235 135	B.C. HYDRO	N
240 135	B.C. HYDRO	N

POLE IDENTIFICATION NUMBER & OWNER		WORK REQUIRED
NO TAG	JOINT	R
NO TAG	JOINT	R
161 602(PAPER TAG)	JOINT	R
174 508	JOINT	R
186 593	JOINT	R
198 586	JOINT	R
210 579	JOINT	R
222 571	JOINT	R
235 565	JOINT	R
248 558	JOINT	R
258 552	JOINT	R
270 545(PAPER TAG)	JOINT	R
321 501	JOINT	R
329 496	JOINT	R
343 489	JOINT	R
359 483	B.C. HYDRO	R
374 476	B.C. HYDRO	R
388 468	B.C. HYDRO	R
002 460	B.C. HYDRO	R
014 450	B.C. HYDRO	R
027 439	B.C. HYDRO	R
035 432	B.C. HYDRO	N
114 421	B.C. HYDRO	N
111 426	B.C. HYDRO	N

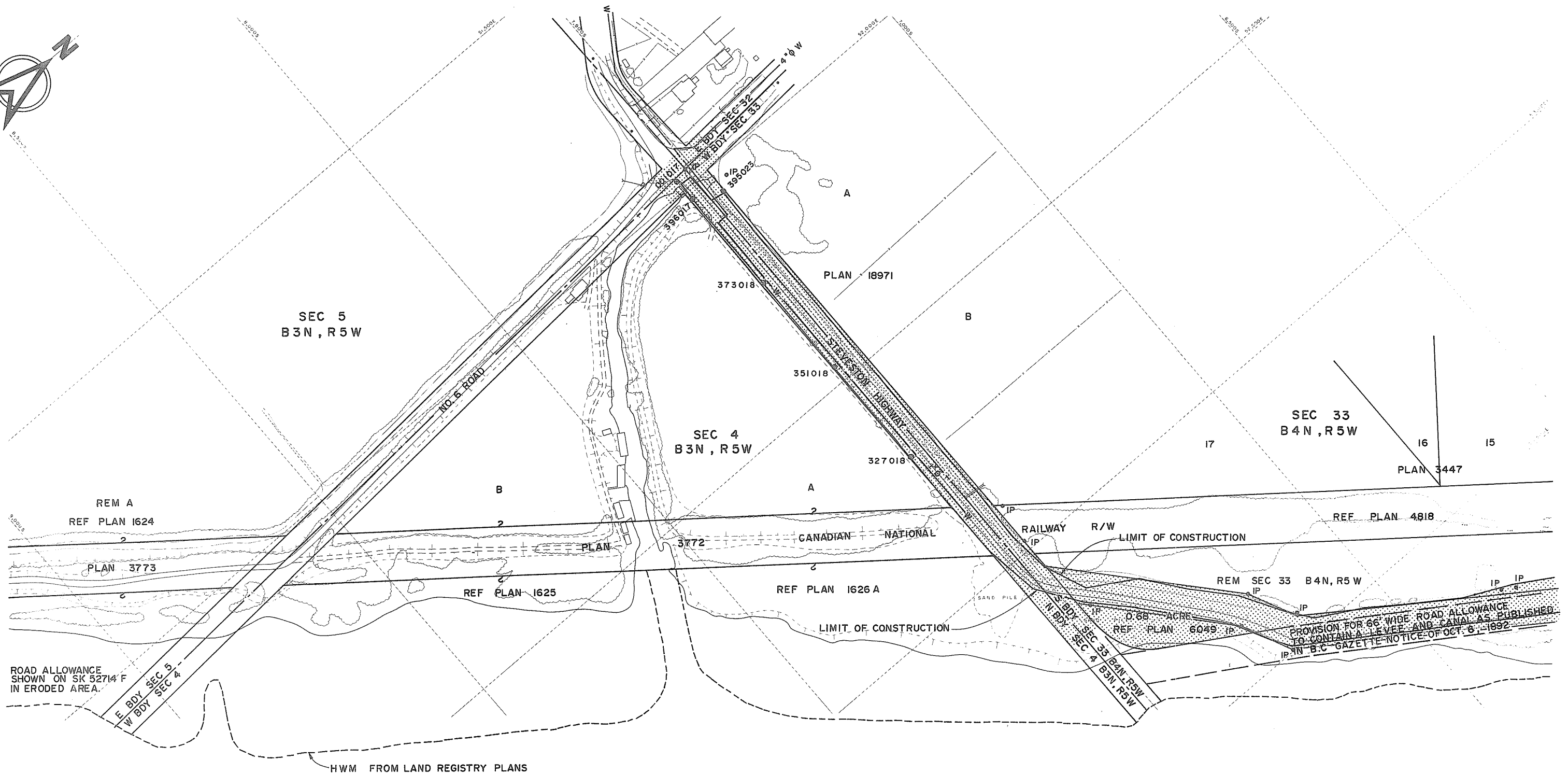
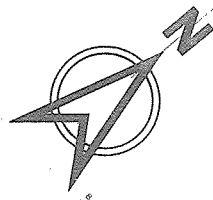
LEGEND:
 N NO WORK REQUIRED
 R POLE TO BE RELOCATED
 * DETAILED CONSTRUCTION SURVEY REQUIRED BEFORE IT CAN BE DETERMINED WHETHER OR NOT POLE SHOULD BE RELOCATED

PROPERTY LEGEND
 Right-of-way which province will make available to contractor.

SURVEY LEGEND
 • IP Iron pin found or set during legal survey by Matson, Peck & Taplis, Surveyors & Engineers.
 • LP (Lead plug set)

SERVICES LEGEND
 W Watermain
 G Gas main
 S Sanitary sewer
 D Storm sewer
 UE Underground electrical cables
 T---T--- Underground Tel cables
 H---H--- Underground Hydro cables
 • 001 404 Hydro pole & pole no.
 • 329 496 Joint pole with Hydro & B.C. Tel services & pole no.
 • 207 045 B.C. Tel pole & pole no.

<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	RECOMMENDED <i>P. R. Cameron</i> PROJECT MANAGER DATE <i>Dec. 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED DRAWN <i>Wn</i> CHECKED <i>PLC</i> SCALE AS SHOWN DWG. NO. 4795-15-40	SURVEYED DATE FILE NO. 0281550-C10-15 DATE <i>Jan 1977</i>
	APPROVED <i>W. B. Fuller</i> DIRECTOR DATE <i>Dec 15/76</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	SHEET 3 OF 8 SHEETS	




ROAD ALLOWANCE SHOWN ON SK 52714 F IN ERODED AREA.

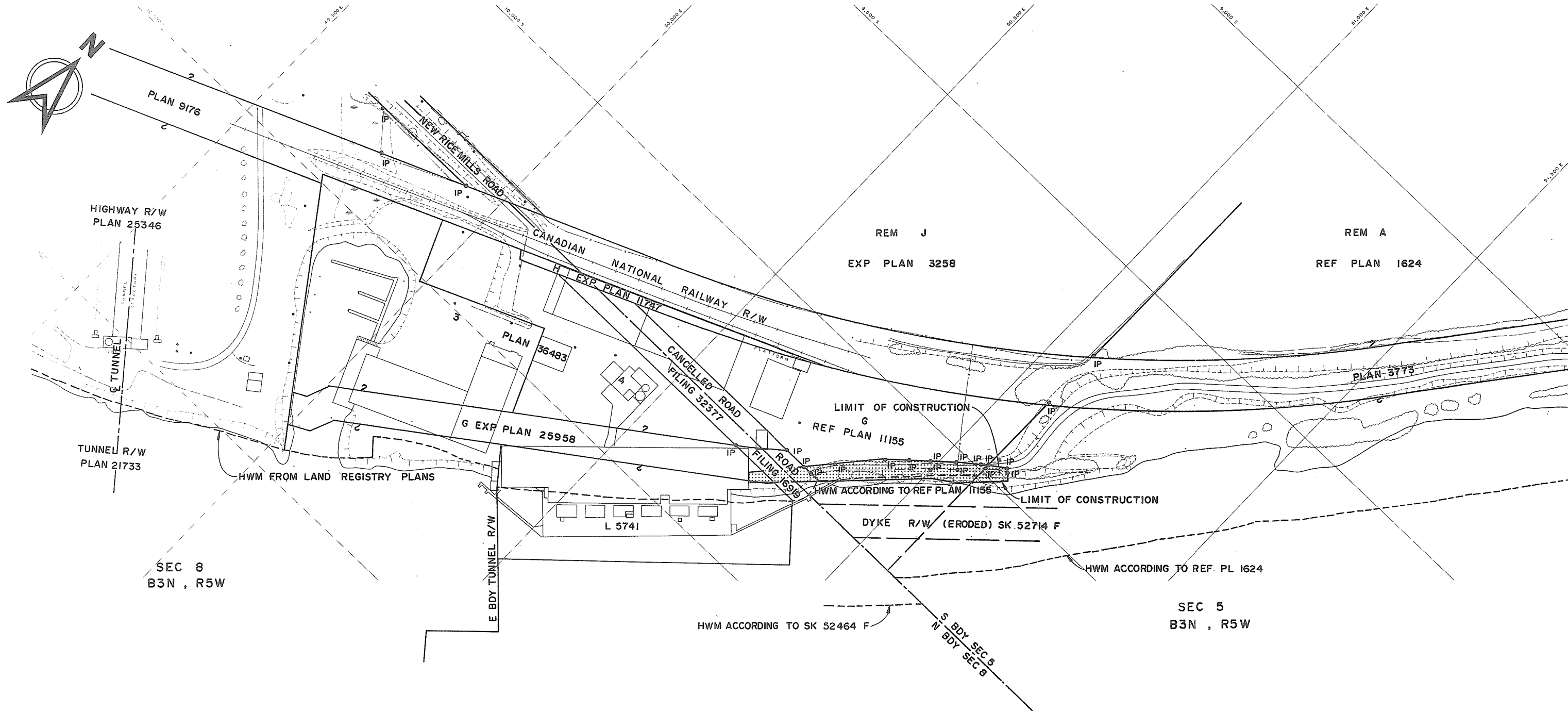
HWM FROM LAND REGISTRY PLANS

SOUTH ARM FRASER RIVER



NOTE
For Legends see 4795-15-40


 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO.	BY	REVISIONS	DATE	RECOMMENDED <i>P.H. Cameron</i> PROJECT MANAGER DATE <i>Dec 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	DESIGNED	SURVEYED
					APPROVED <i>W.H. Fuller</i> DIRECTOR DATE <i>Dec 15/76</i>		DRAWN <i>Wn</i> CHECKED <i>DLC</i> SCALE AS SHOWN DWG. NO. 4795-15-41	DATE FILE NO. 0281550-C10-15 DATE Jan 1977 SHEET 4 OF 8 SHEETS

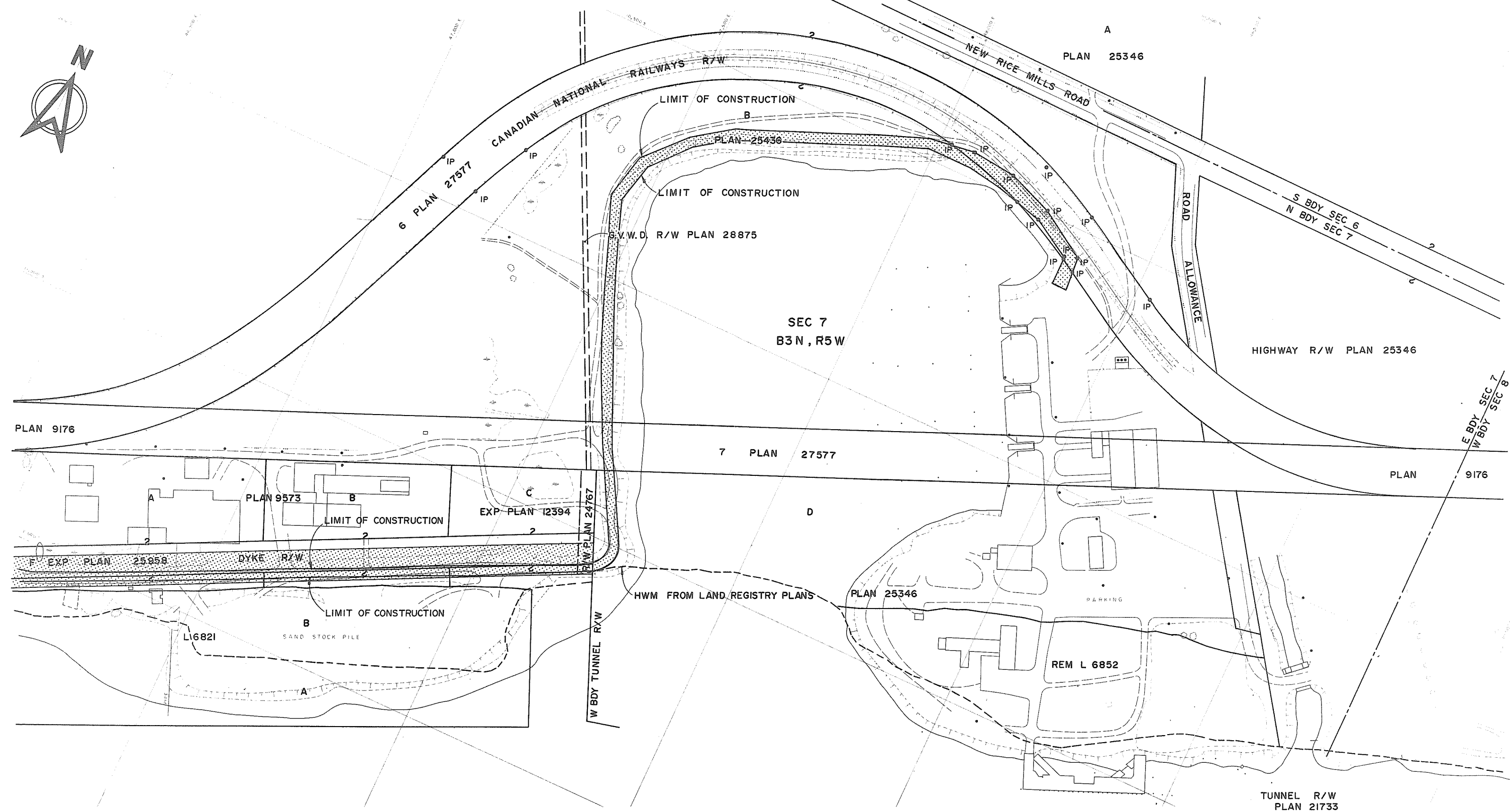
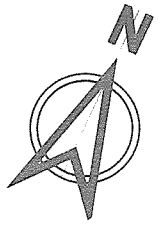


SOUTH ARM FRASER RIVER



NOTE
For Legends see 4795-15-40

 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO. BY REVISIONS DATE	RECOMMENDED <i>P. H. Cameron</i> PROJECT MANAGER. DATE <i>Dec. 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED DRAWN <i>Wn</i> CHECKED <i>PLC</i> SCALE <i>AS SHOWN</i> DWG. NO. <i>4795-15-42</i>	SURVEYED DATE FILE NO. <i>0281550-C10-15</i> DATE <i>Jan 1977</i> SHEET <i>5</i> OF <i>8</i> SHEETS
		APPROVED <i>J. G. Sullivan</i> for DIRECTOR DATE <i>Dec. 15/76</i>		PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	




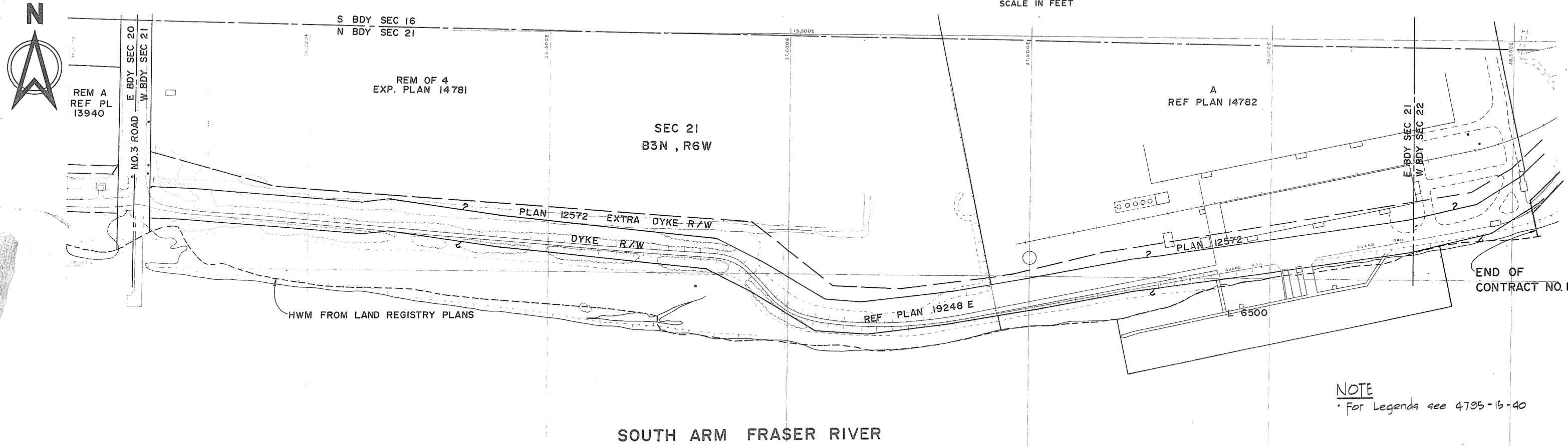
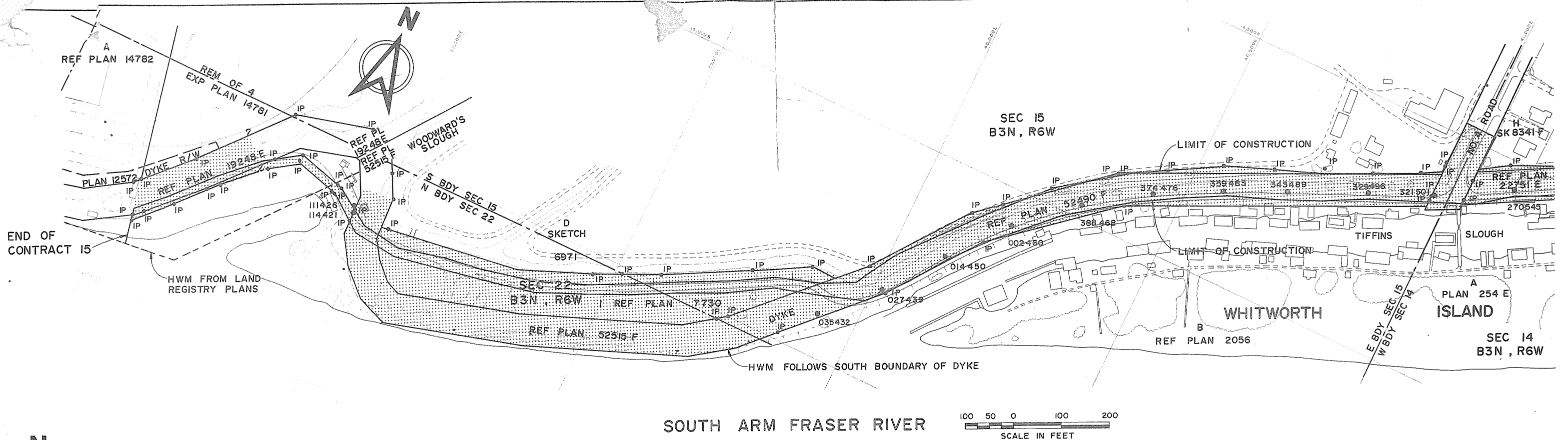
TUNNEL R/W
PLAN 21733

NOTE
For Legenda see 4795-15-40

SOUTH ARM FRASER RIVER



 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO.	BY	REVISIONS	DATE	RECOMMENDED <i>R.A. Cameron</i> PROJECT MANAGER. DATE <i>Dec 15/76</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	DESIGNED	SURVEYED
					APPROVED <i>[Signature]</i> for DIRECTOR DATE <i>Dec 15/76</i>		DRAWN <i>Wm</i> CHECKED <i>DLG</i> SCALE <i>AS SHOWN</i> DWG. NO. <i>4795-15-43</i>	DATE FILE NO. <i>0281550-C10-15</i> DATE <i>Jan 1977</i> SHEET <i>6</i> OF <i>8</i> SHEETS



NOTE
 For Legends see 4795-15-40



NO.	BY	REVISIONS	DATE	RECOMMENDED <i>P. H. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED	SURVEYED
				DATE <i>Dec 15/76</i>		DRAWN <i>Wn</i>	DATE
				APPROVED <i>W. J. Lillis</i> for DIRECTOR		CHECKED <i>PLC</i>	FILE NO. <i>0281550-C10-15</i>
				DATE <i>Dec 15/76</i>		SCALE <i>AS SHOWN</i>	DATE <i>Jan 1977</i>
				PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 15 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	DWG. NO. <i>4795-15-45</i>	SHEET <i>B</i> OF <i>B</i> SHEETS	