

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. 16

South Dyke Improvements
 Crown Zellerbach to Steveston

DRAWING LIST

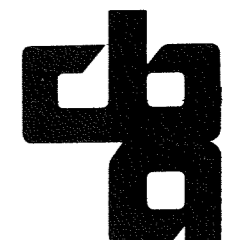
CONTRACT DRAWINGS

4795-16-1 GENERAL PLAN
 4795-16-2 ALIGNMENT PLAN
 CH 1408+00 TO CH 1439+00
 4795-16-3 ALIGNMENT PLAN
 CH 1439+00 TO CH 1500+00
 4795-16-4 ALIGNMENT PLAN
 CH 1500+00 TO CH 1543+00
 4795-16-5 ALIGNMENT PLAN
 CH 1543+00 TO CH 1575+95
 4795-16-6 TYPICAL DYKE SECTIONS
 SHEET 1 OF 5
 4795-16-7 TYPICAL DYKE SECTIONS
 SHEET 2 OF 5
 4795-16-8 TYPICAL DYKE SECTIONS
 SHEET 3 OF 5
 4795-16-9 TYPICAL DYKE SECTIONS
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 4795-16-11 MISC. DYKE DETAILS
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 4795-16-12 MISC. DYKE DETAILS
 SHEET 2 OF 10
 4795-16-13 MISC. DYKE DETAILS
 SHEET 3 OF 10
 4795-16-14 MISC. DYKE DETAILS
 SHEET 4 OF 10

REFERENCE DRAWINGS

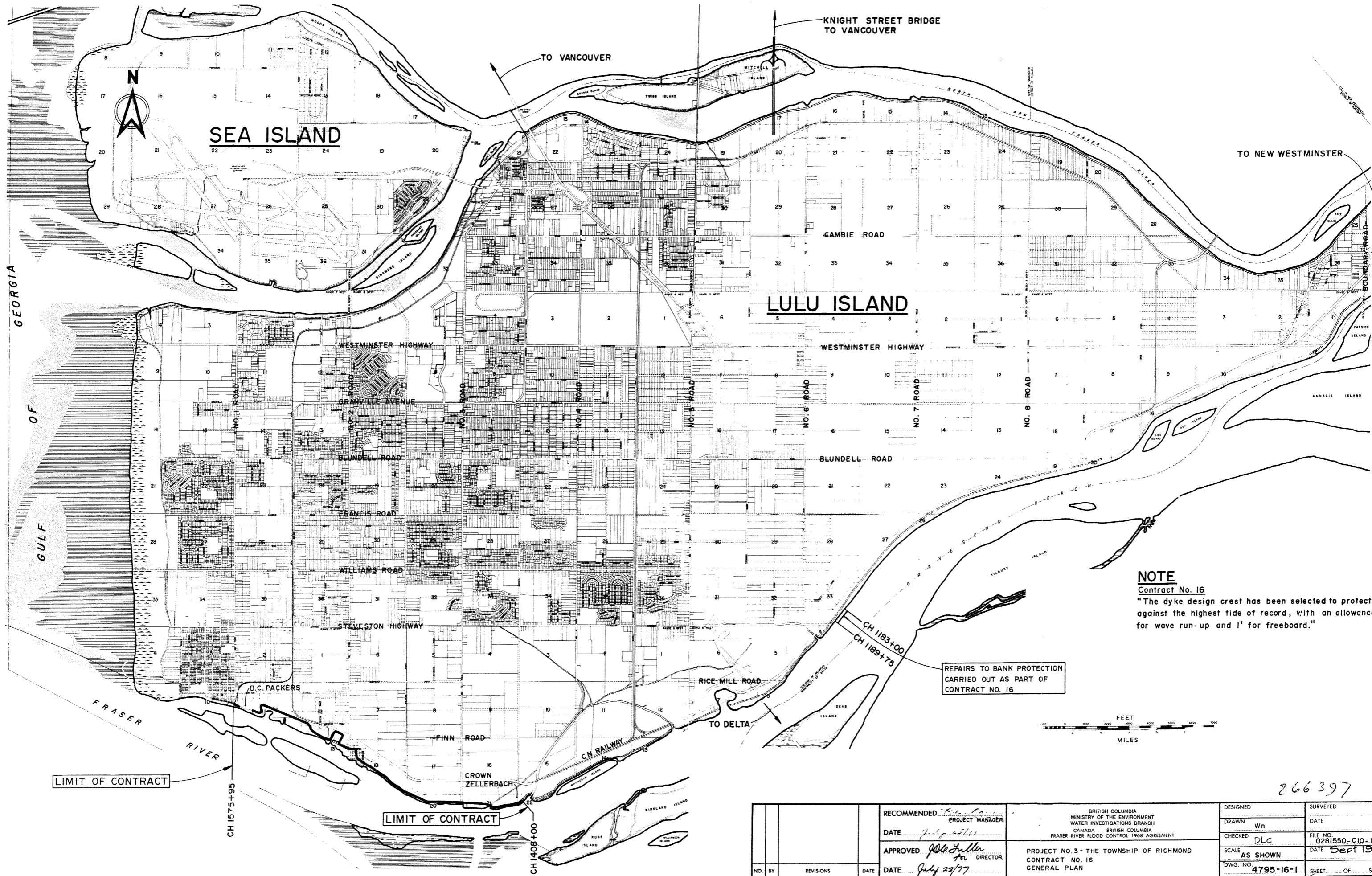
4795-16-15 MISC. DYKE DETAILS
 SHEET 5 OF 10
 4795-16-16 MISC. DYKE DETAILS
 SHEET 6 OF 10
 4795-16-17 MISC. DYKE DETAILS
 SHEET 7 OF 10
 4795-16-18 MISC. DYKE DETAILS
 SHEET 8 OF 10
 4795-16-19 MISC. DYKE DETAILS
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 4795-16-20 MISC. DYKE DETAILS
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 4795-16-21 BANK PROTECTION
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 4795-16-22 BANK PROTECTION
 SECTIONS, SHEET 1 OF 3
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 4795-16-24 BANK PROTECTION
 SECTIONS, SHEET 3 OF 3
 4795-16-25 TREE REMOVAL, CLEARING AND GRUBBING
 SHEET 1 OF 3
 4795-16-26 TREE REMOVAL, CLEARING AND GRUBBING
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4795-16-28 PLAN SHOWING LOCATION OF
 DYKE RIGHT-OF-WAY
 EXISTING SURVEY MARKERS AND
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 4795-16-29 PLAN SHOWING LOCATION OF
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 4795-16-30 PLAN SHOWING LOCATION OF
 DYKE RIGHT-OF-WAY
 EXISTING SURVEY MARKERS AND
 UTILITIES
 SHEET 3 OF 3
 4795-16-31 PLAN SHOWING LOCATION OF
 DYKE RIGHT-OF-WAY
 EXISTING SURVEY MARKERS AND
 UTILITIES
 SHEET 4 OF 4



CBA ENGINEERING LTD
 Consulting Engineers
 Vancouver, Canada

266396



KNIGHT STREET BRIDGE
TO VANCOUVER

TO VANCOUVER

TO NEW WESTMINSTER

SEA ISLAND

LULU ISLAND

GEORGIA GULF

NOTE
Contract No. 16
"The dyke design crest has been selected to protect against the highest tide of record, with an allowance for wave run-up and 1' for freeboard."

REPAIRS TO BANK PROTECTION
CARRIED OUT AS PART OF
CONTRACT NO. 16

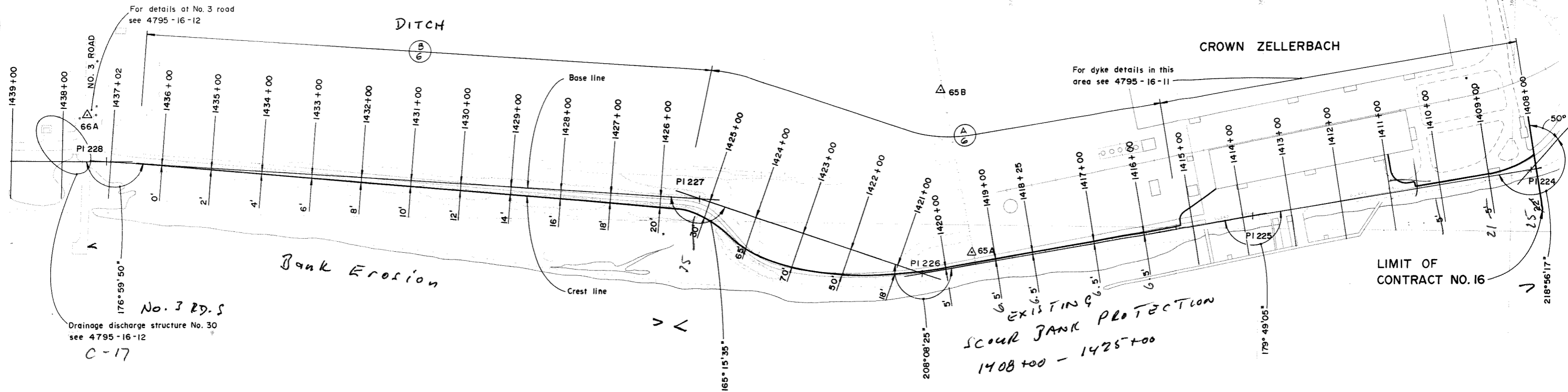


266397

LIMIT OF CONTRACT

LIMIT OF CONTRACT

NO.	BY	REVISIONS	DATE	RECOMMENDED <i>[Signature]</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>July 22/77</i>		APPROVED <i>[Signature]</i> DIRECTOR	CONTRACT NO. 16 GENERAL PLAN
				DATE <i>July 22/77</i>		CHECKED DLC	FILE NO. 0281550-C10-16
						SCALE AS SHOWN	DATE <i>Sept 1977</i>
						DWG. NO. 4795-16-1	SHEET OF SHEETS



LEGEND

- △ 65A Survey monuments
- 9.580 120A Bench mark & Geodetic elevation
- ① Detail identification number
- ② Dwg no. on which the detail is drawn (ie) 4795-16-[20]
- Ⓐ Section identification letter
- ⓐ Dwg No. on which the section is drawn (ie) 4795-16-[10]

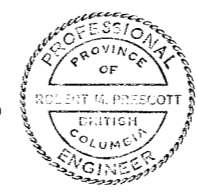
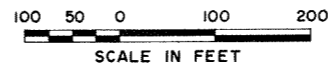
NOTES

- 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.

BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
223	S 40° 39' 51" W	1404 + 10.38	404.83	15 567.30	38 801.87
224	S 79° 36' 08" W	1408 + 15.21	561.64	15 874.32	38 538.12
225	S 79° 25' 12" W	1413 + 76.85	671.49	15 975.66	37 985.87
226	N 72° 26' 22" W	1420 + 48.34	472.73	16 098.29	37 329.29
227	N 87° 10' 47" W	1425 + 21.07	1189.94	15 955.70	36 878.71
228	S 89° 49' 03" W	1437 + 11.01	481.37	15 897.17	35 690.56
229		1441 + 92.38		15 898.70	35 209.34

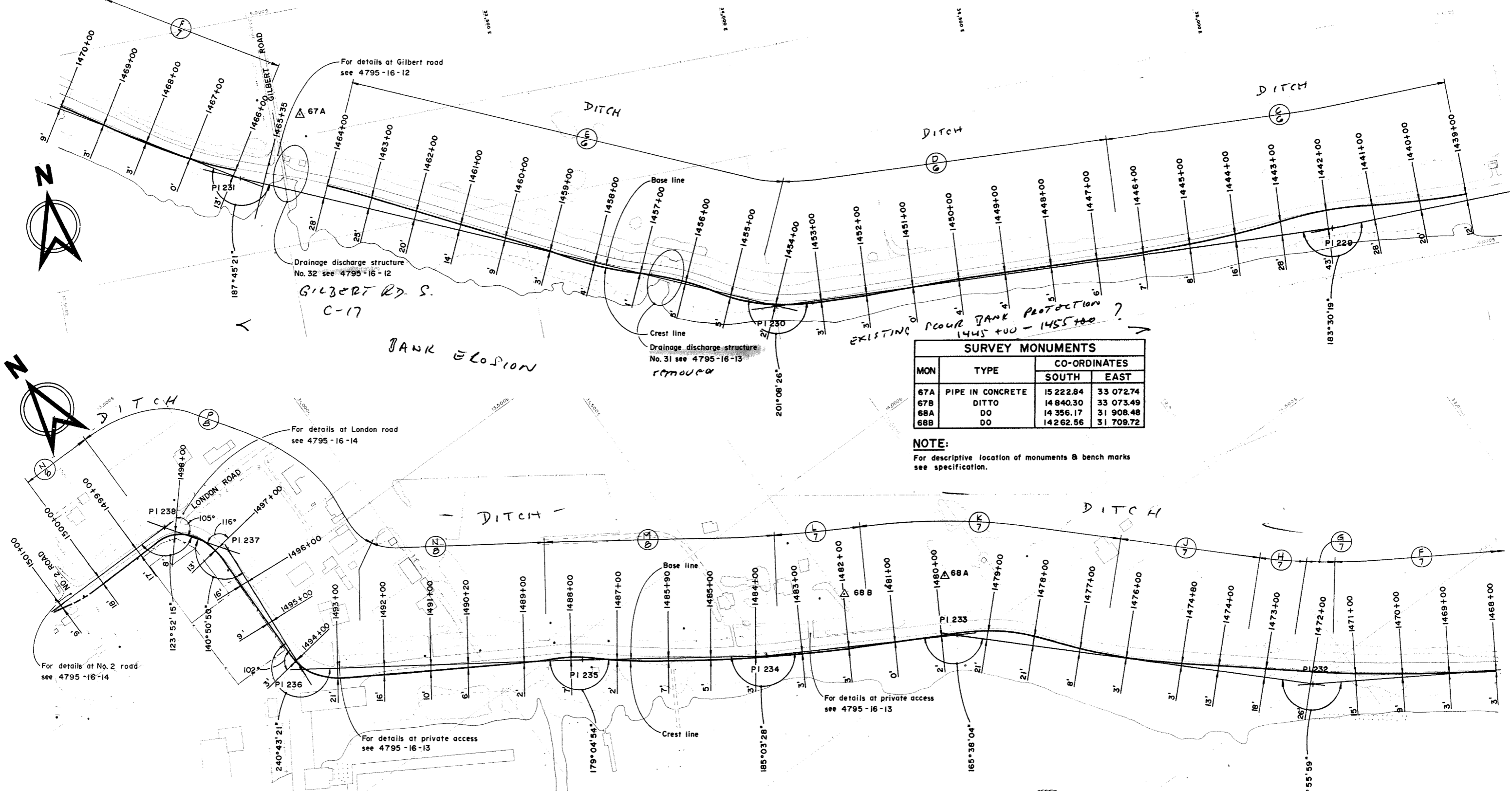
SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
65A	PIPE IN CONCRETE	16 055.16	37 422.83
65B	DITTO	15 730.40	37 354.77
66A	DO	15 804.11	35 648.75
66B	DO	15 574.14	35 653.55

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



266398

NO.	BY	REVISIONS	DATE	RECOMMENDED <i>R.M. Prescott</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
				PROJECT MANAGER		DATE <i>July 25/11</i>	DRAWN <i>Wn</i>
A <i>Revised A/B</i>				APPROVED <i>Wn</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 ALIGNMENT PLAN CH 1408+00 TO CH 1439+00	CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-16</i>
				DATE <i>Jul 22/97</i>		DIRECTOR	SCALE <i>AS SHOWN</i>
						DWG. NO. <i>4795-16-2</i>	SHEET <i>1</i> OF <i>1</i> SHEETS

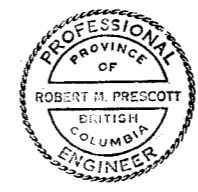
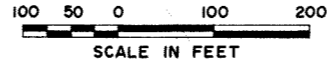


SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
67A	PIPE IN CONCRETE	15 222.84	33 072.74
67B	DITTO	14 840.30	33 073.49
68A	DO	14 356.17	31 908.48
68B	DO	14 262.56	31 709.72

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

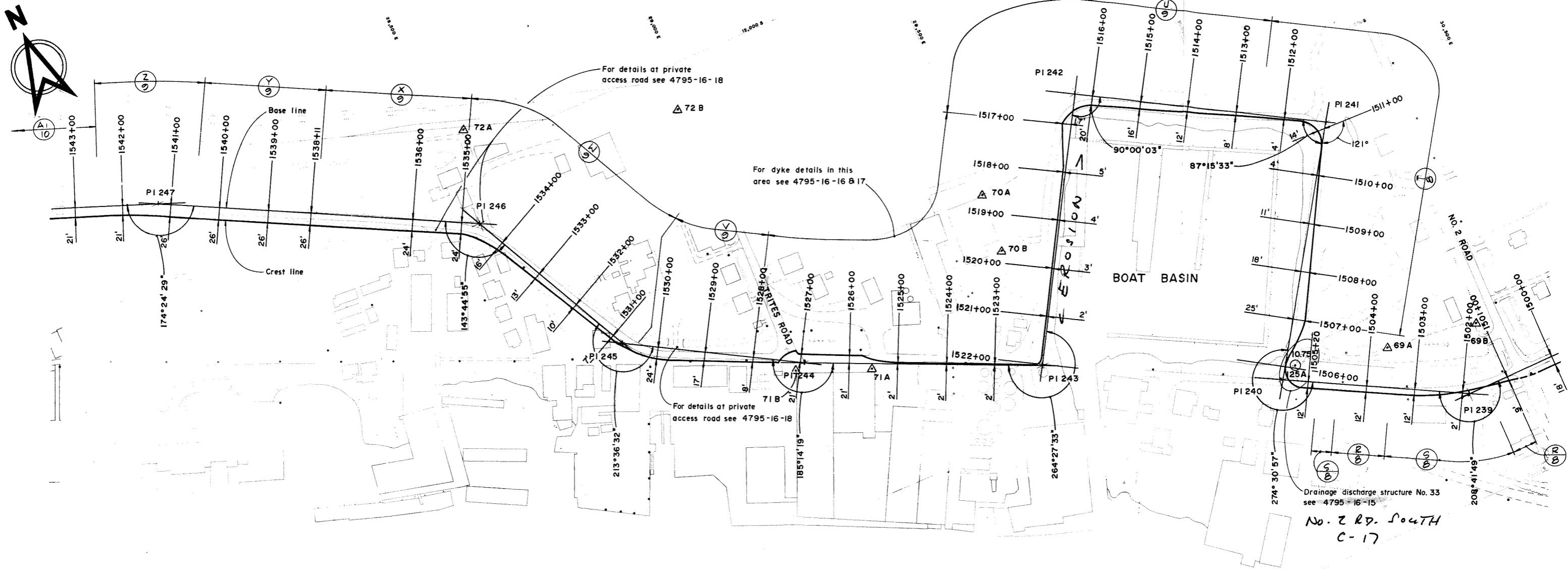
BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
228	S 89° 49' 03" W	1437 + 11.01	481.37	15 897.17	35 690.56
229	N 86° 40' 37" W	1441 + 92.38	1206.20	15 898.70	35 209.34
230	N 65° 32' 11" W	1453 + 98.58	1188.00	15 828.81	34 005.52
231	N 57° 46' 51" W	1465 + 86.58	605.32	15 336.54	32 923.51
232	N 45° 50' 52" W	1471 + 91.90	775.28	15 013.87	32 411.50
233	N 60° 12' 48" W	1479 + 67.18	410.51	14 473.89	31 855.30
234		1483 + 77.69		14 270.00	31 499.09

BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
234	N 55° 09' 20" W	1483 + 77.69	398.05	14 270.00	31 499.09
235	N 56° 04' 26" W	1487 + 75.74	602.00	14 042.61	31 172.46
236	N 4° 38' 55" E	1493 + 77.74	303.26	13 706.68	30 673.03
237	N 34° 30' 15" W	1496 + 81.00	143.33	13 404.38	30 697.61
238	S 89° 22' 01" W	1498 + 24.33	361.15	13 286.27	30 616.42
239		1501 + 85.48		13 290.26	30 255.40



NOTES
For Notes & Legend see 4795-16-2
266399

NO. BY	REVISIONS	DATE	RECOMMENDED <i>R.M. Prescott</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
			PROJECT MANAGER		DRAWN <i>Wn</i>	DATE
			DATE <i>July 22/77</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 ALIGNMENT PLAN CH 1439+00 TO CH 1500+00	CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-16</i>
			APPROVED <i>Rob Fuller</i>		SCALE <i>AS SHOWN</i>	DATE <i>Sept 1977</i>
			DIRECTOR	DWG. NO. <i>4795-16-3</i>	SHEET <i>OF</i> SHEETS	



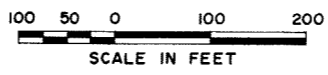
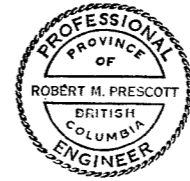
BASE LINE DATA

PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
238	S 89°22' 01" W	1498 + 24.33	361.15	13 286.27	30 616.42
239	N 61°56' 10" W	1501 + 85.48	386.43	13 290.26	30 255.40
240	N 32°34' 47" E	1505 + 71.91	541.31	13 108.49	29 914.46
241	N 60°09' 39" W	1511 + 13.22	524.28	12 652.28	30 205.99
242	S 29°50' 23" W	1516 + 37.50	564.00	12 391.47	29 751.31
243	N 65°42' 04" W	1522 + 01.50	491.95	12 880.62	29 470.72
244	N 60°27' 45" W	1526 + 93.45	382.16	12 678.23	29 022.45
245	N 26°51' 12" W	1530 + 75.61	386.07	12 489.87	28 690.02
246	N 63°06' 18" W	1534 + 61.68	665.74	12 145.42	28 515.63
247	N 68°41' 48" W	1541 + 27.42	443.70	11 844.33	27 922.02
248		1545 + 71.12		11 683.53	27 509.66

SURVEY MONUMENTS

MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
69A	PIPE IN CONCRETE	13 134.44	30 137.95
69B	DITTO	13 161.10	30 322.69
70A	DO	12 503.90	29 494.68
70B	NAIL IN PAVEMENT	12 627.87	29 488.51
71A	NAIL IN CONCRETE	12 744.69	29 146.56
71B	NAIL IN ASPHALT	12 686.17	28 999.24
72A	PIPE IN CONCRETE	11 952.52	28 559.73
72B	DITTO	12 090.05	28 981.13

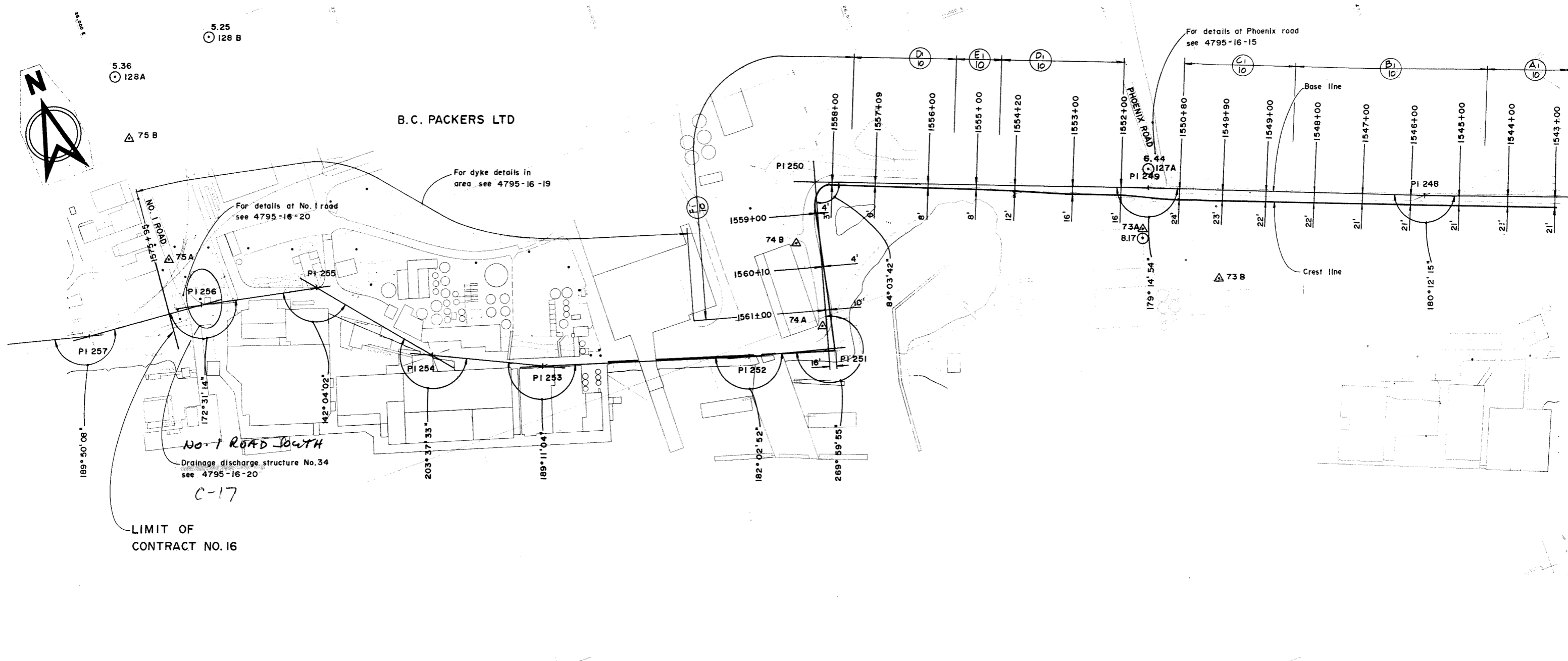
NOTE:
For descriptive location of monuments & bench marks see specification.



NOTES
For Notes & Legend see 4795-16-2

266400

NO. BY A Revised A/B.	RECOMMENDED	P. K. Connors PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED	DLC & EMH	SURVEYED		
	DATE	July 22/77		DRAWN	Wn	DATE		
	APPROVED	J. B. Fuller DIRECTOR		PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 ALIGNMENT PLAN CH 1500+00 TO CH 1543+00	CHECKED	DLC	FILE NO.	0281550-C10-16
	DATE	Jul 22/77		SCALE	AS SHOWN	DATE	Sept 1977	
				DWG. NO.	4795-16-4	SHEET	OF SHEETS	



LIMIT OF CONTRACT NO. 16

C-17

BASE LINE DATA					
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
247		1541 + 27.42	443.70	11 844.33	27 922.02
248	N 68° 41' 48" W	1545 + 71.12	572.20	11 683.53	27 509.66
249	N 68° 29' 33" W	1551 + 43.32	691.81	11 473.80	26 977.43
250	N 69° 14' 40" W	1558 + 35.13	348.13	11 228.70	26 330.67
251	S 14° 49' 03" W	1561 + 83.26	165.93	11 565.21	26 241.65
252	N 75° 11' 02" W	1563 + 49.19	425.86	11 522.79	26 081.28
253	N 73° 08' 10" W	1567 + 75.05	232.18	11 399.28	25 673.84
254	N 63° 57' 06" W	1570 + 07.23	275.48	11 087.34	25 287.03
255	N 40° 19' 33" W	1572 + 82.71	241.71	11 038.17	25 050.45
256	N 78° 15' 31" W	1575 + 24.42	238.95	11 020.42	24 812.23
257	N 85° 44' 17" W	1577 + 63.37	998.30	10 777.32	23 844.26
258	N 75° 54' 09" W	1587 + 61.67			

SURVEY MONUMENTS			
MON	TYPE	CO-ORDINATES	
		SOUTH	EAST
73A	PIPE IN CONCRETE	11 551.73	26 938.85
73B	DITTO	11 702.28	27 051.18
74A	DO	11 513.98	26 248.83
74B	DO	11 332.59	26 252.20
75A	NAIL	10 925.84	25 019.18
75B	DITTO	10 660.43	25 021.72

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



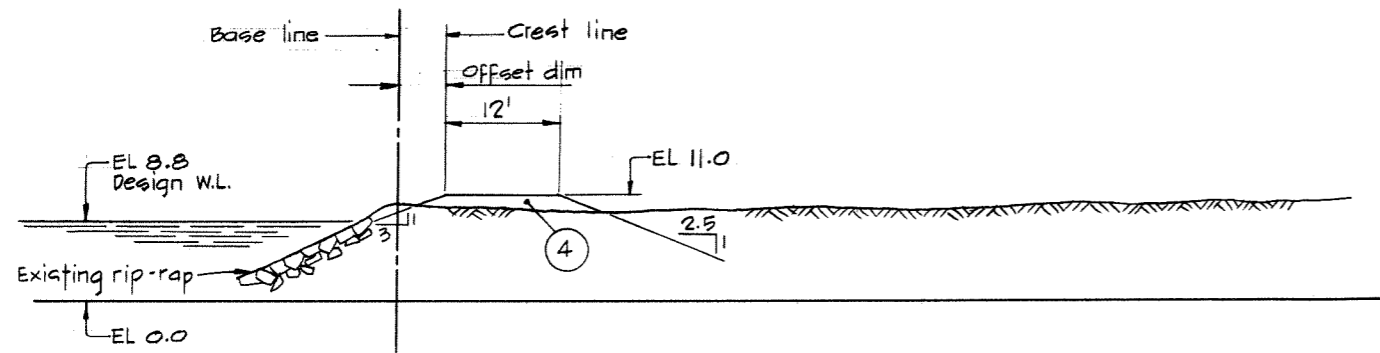
NOTES
For Notes & Legend see 4795-16-2

266401

RECOMMENDED <i>R. M. Prescott</i> PROJECT MANAGER	DESIGNED <i>DLC & EMH</i>	SURVEYED
	DRAWN <i>Wn</i>	DATE
DATE <i>July 22/77</i>	CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-16</i>
APPROVED <i>W. J. Fuller</i> DIRECTOR	SCALE <i>AS SHOWN</i>	DATE <i>Sept 1977</i>
DATE <i>Jul 22/77</i>	DWG. NO. <i>4795-16-5</i>	SHEET OF SHEETS
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. 16 ALIGNMENT PLAN CH 543+00 TO CH 1575+95		

RIVER SIDE

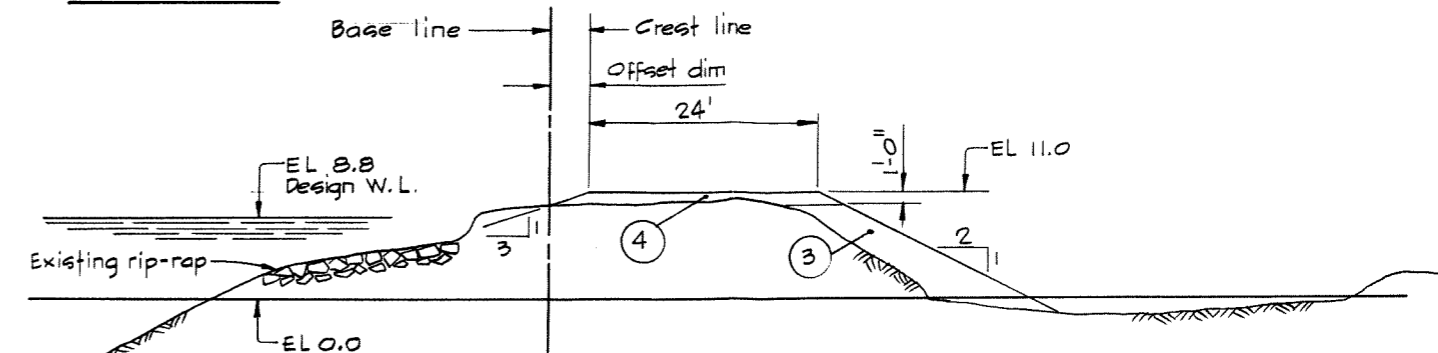
LAND SIDE



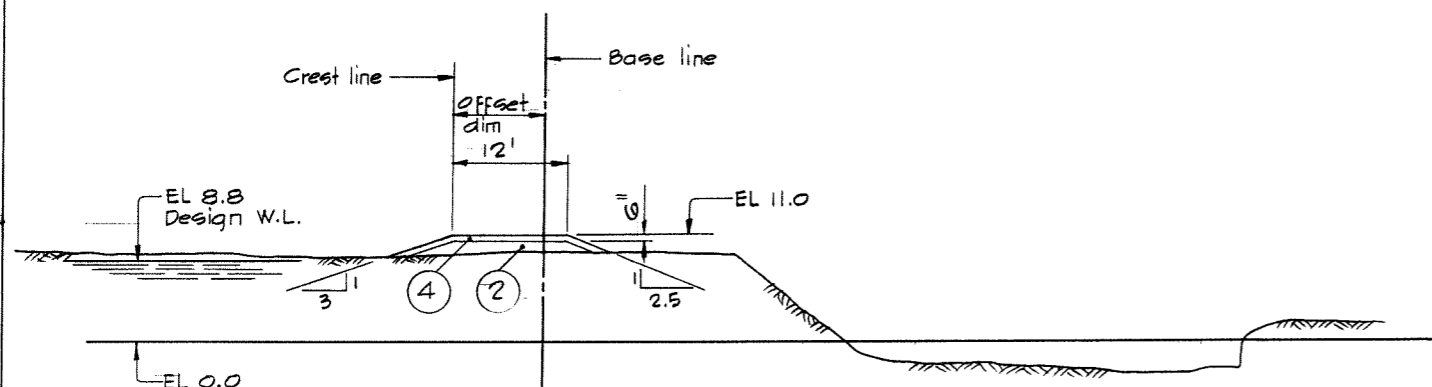
SECTION $\frac{A}{2}$
TYP BTWN CH 1415+25 TO CH 1425+50

RIVER SIDE

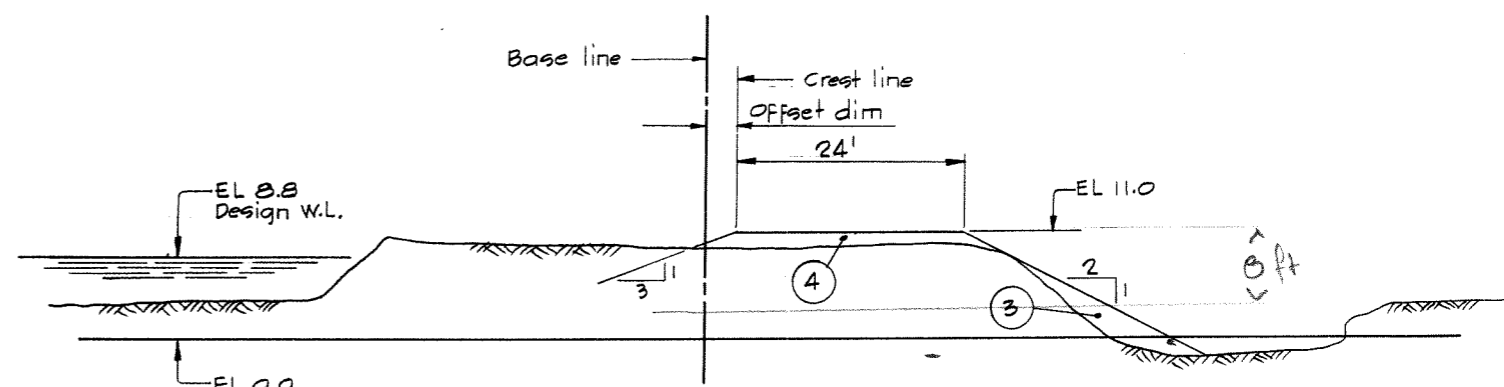
LAND SIDE



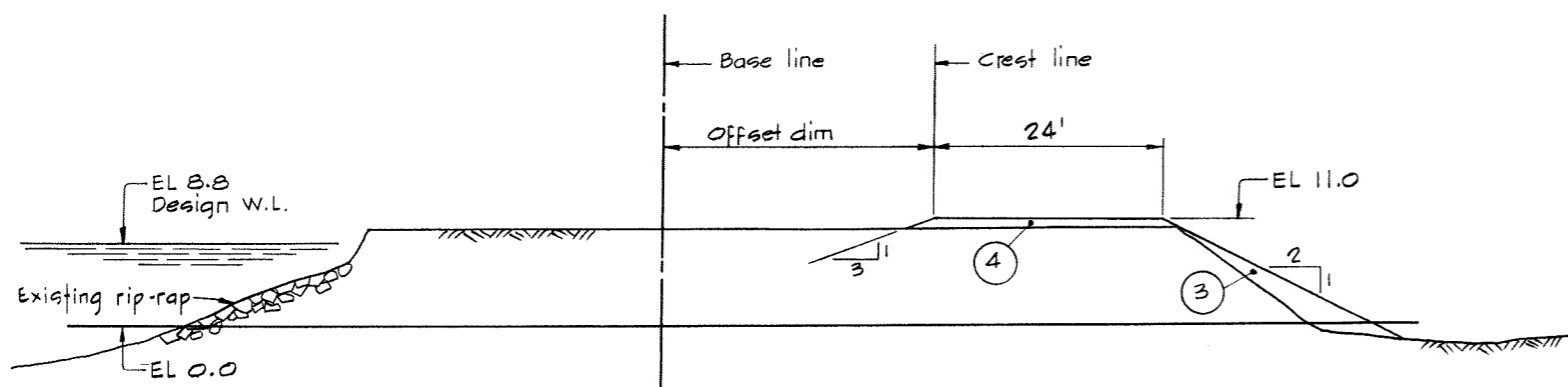
SECTION $\frac{D}{3}$
TYP BTWN CH 1446+50 TO 1454+50



SECTION $\frac{B}{2}$
TYP BTWN CH 1425+50 TO CH 1436+50



SECTION $\frac{E}{3}$
TYP BTWN CH 1454+50 TO 1464+00



SECTION $\frac{C}{2}$ $\frac{C}{3}$
TYP BTWN CH 1439+00 TO 1446+50

MATERIALS LEGEND

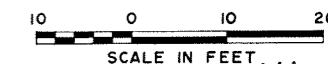
- ① silt - clay
- ② sand
- ③ sand gravel & cobbles
- ④ crushed gravel
- ⑤ light rip-rap
- ⑥ rip-rap

NOTES

- Elevations refer to 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.

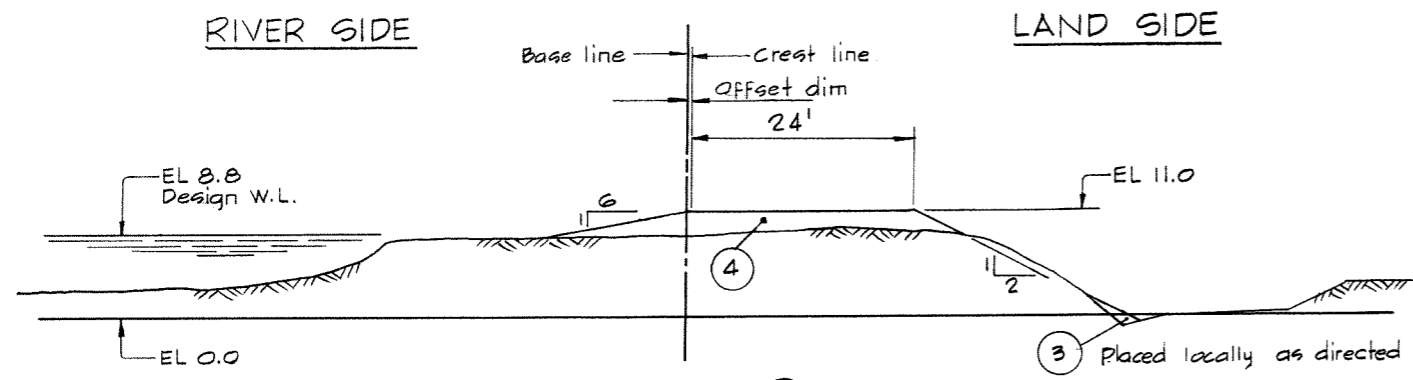
LEGEND

- Existing ground
- $\frac{F}{3}$ Section identification letter Drawing No. on which section is located (ie) 4795-16-(3)
- $\frac{2}{3}$ Detail identification number Drawing No. on which detail is located (ie) 4795-16-(9)

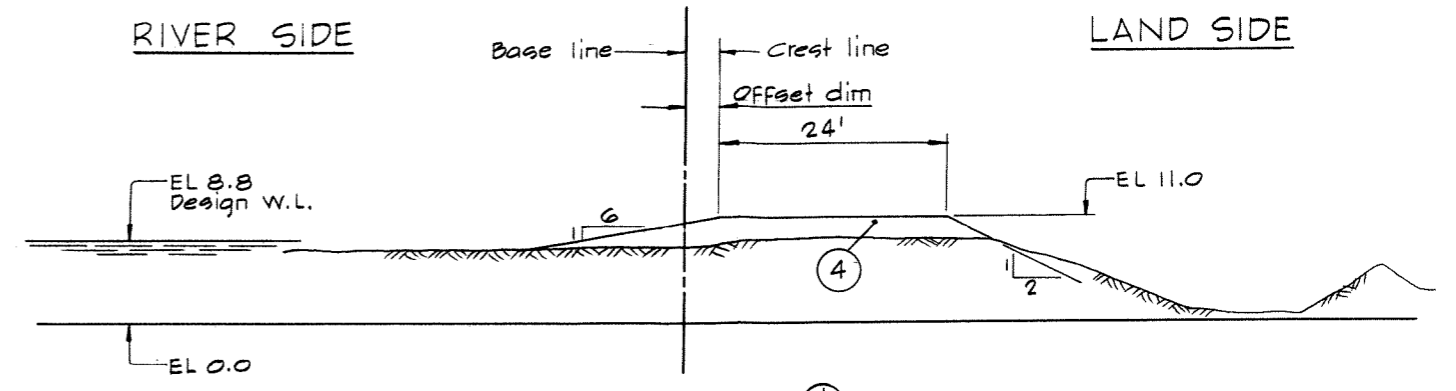


266402

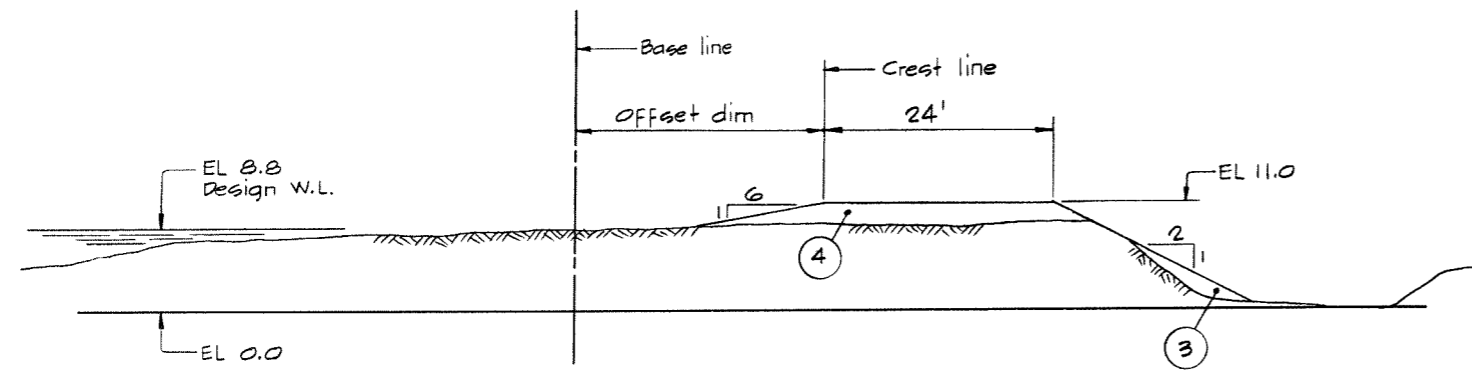
<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<p>NO. BY REVISIONS DATE</p> <p>A Revised A/A</p>	<p>RECOMMENDED <i>F. H. Cameron</i> PROJECT MANAGER</p>	<p>BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1985 AGREEMENT</p>	<p>DESIGNED <i>DLC & EMH</i></p>	<p>SURVEYED</p>
		<p>DATE <i>July 25/77</i></p>		<p>CHECKED <i>DLC</i></p>	<p>FILE NO. 0281550 - C10-16</p>
		<p>APPROVED <i>John Syllor</i> DIRECTOR</p>	<p>PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TYPICAL DYKE SECTIONS</p>	<p>SCALE AS SHOWN</p>	<p>DATE <i>Sept 1977</i></p>
		<p>DATE <i>July 23/77</i></p>		<p>DWG. NO. 4795-16-6</p>	<p>SHEET 1 OF 5 SHEETS</p>



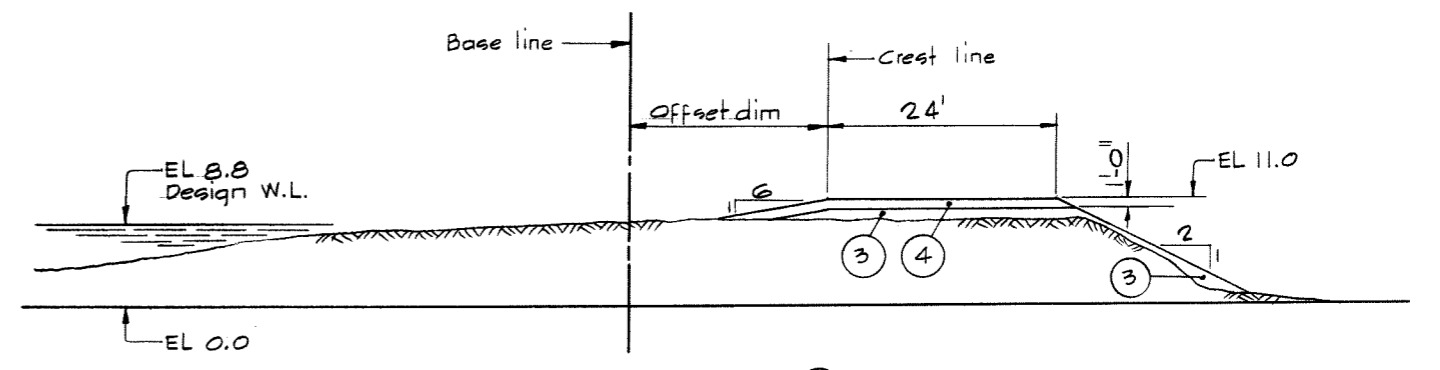
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TYP BTWN CH 1466+00 TO 1471+50



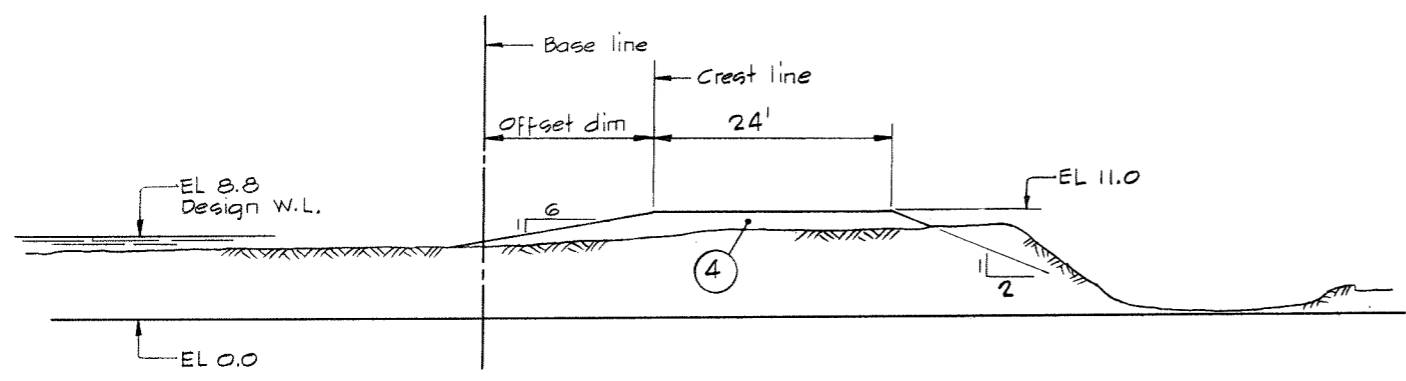
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TYP BTWN CH 1473+50 TO 1476+50



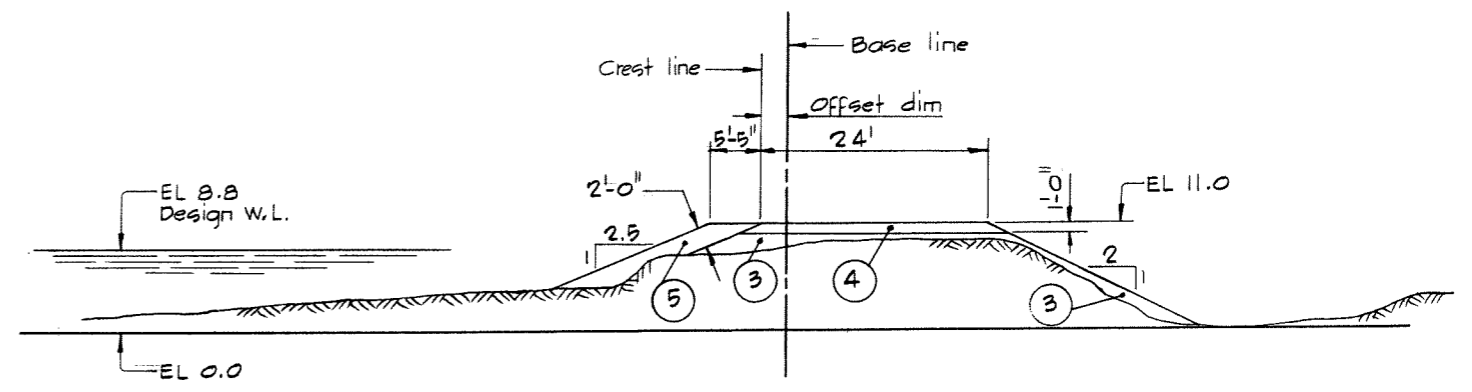
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TYP BTWN CH 1471+50 TO 1472+50



SECTION $\frac{K}{3}$
TYP BTWN CH 1476+50 TO 1481+50

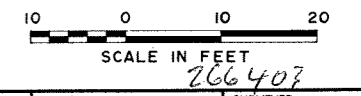
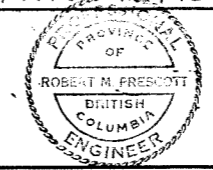


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TYP BTWN CH 1472+50 TO 1473+50

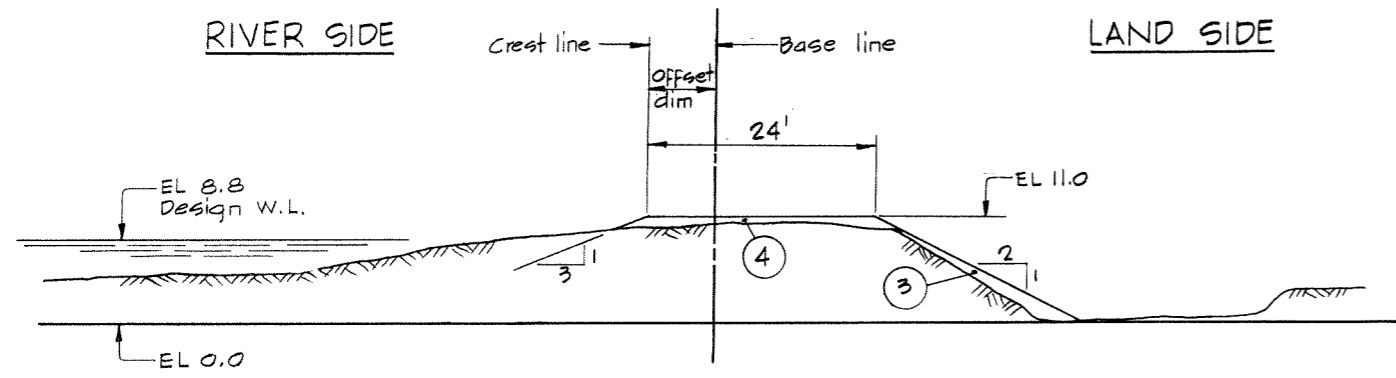


SECTION $\frac{L}{3}$
TYP BTWN CH 1481+50 TO 1483+50

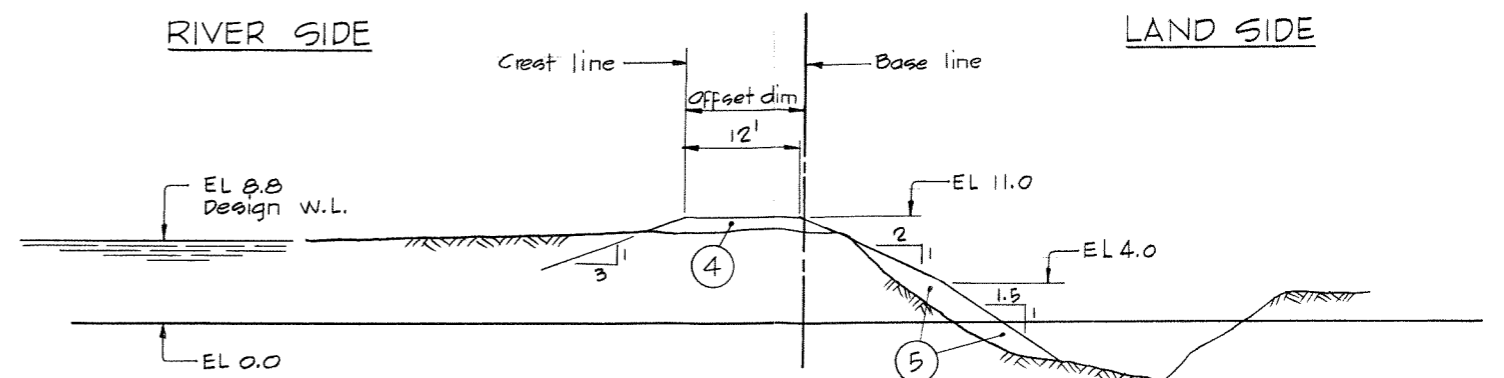
NOTES
For General Notes, Legend & Material Legend see 4795-16-6



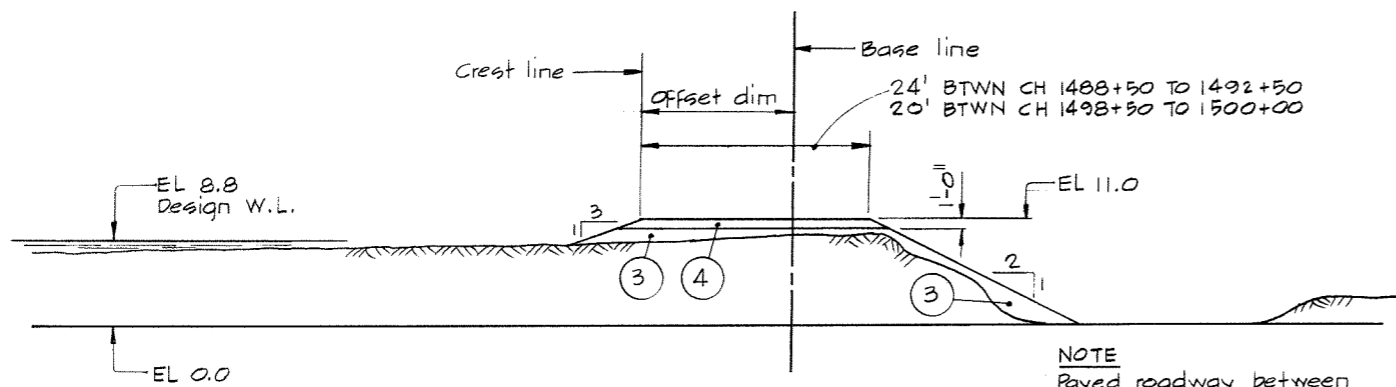
<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<p>NO. BY REVISIONS DATE</p> <p>A Revised AD</p>	<p>RECOMMENDED <i>R.M. Prescott</i> PROJECT MANAGER</p>	<p>BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT</p>	<p>DESIGNED <i>DLC & EMH</i></p>	<p>SURVEYED</p>
		<p>DATE <i>July 25/77</i></p>		<p>CHECKED <i>DLC</i></p>	<p>FILE NO. 0281550-C-10-16</p>
		<p>APPROVED <i>Rob Fuller</i> DIRECTOR</p>	<p>PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TYPICAL DYKE SECTIONS</p>	<p>SCALE AS SHOWN</p>	<p>DATE <i>Sept 1977</i></p>
		<p>DATE <i>July 22/77</i></p>		<p>DWG. NO. 4795-16-7</p>	<p>SHEET 2 OF 5 SHEETS</p>



SECTION \textcircled{M}
TYP BTWN CH 1483+50 TO 1488+50

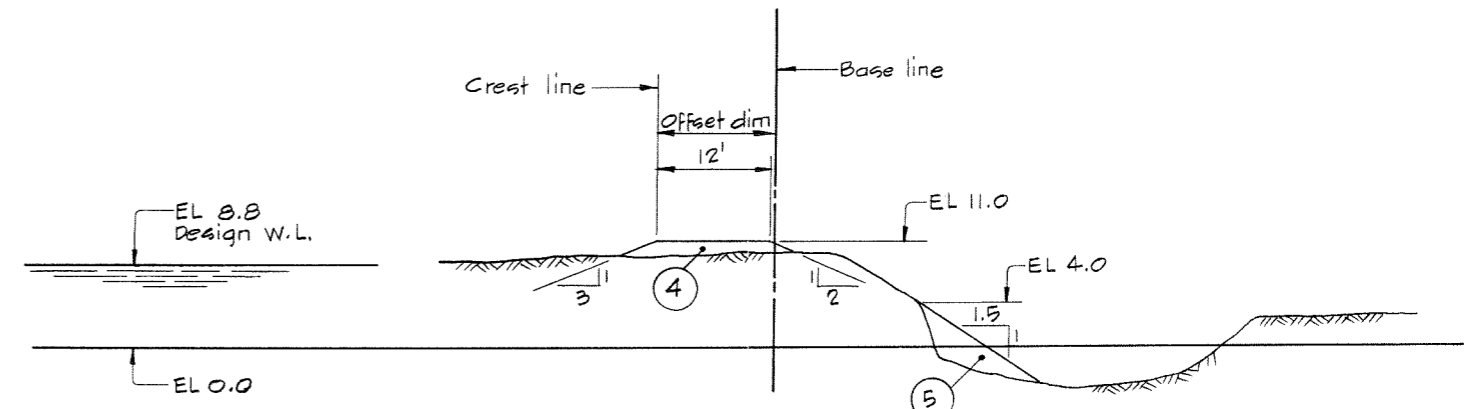


SECTION \textcircled{R}
TYPICAL BTWN CH 1501+00 TO 1501+50
& CH 1503+50 TO 1504+50

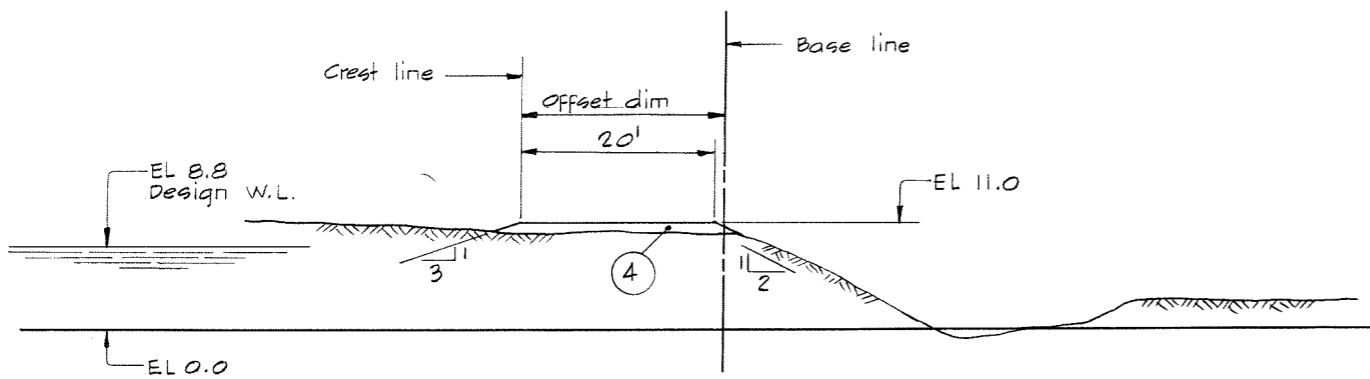


SECTION \textcircled{N}
TYP BTWN CH 1488+50 TO 1492+50
& CH 1498+50 TO 1500+00

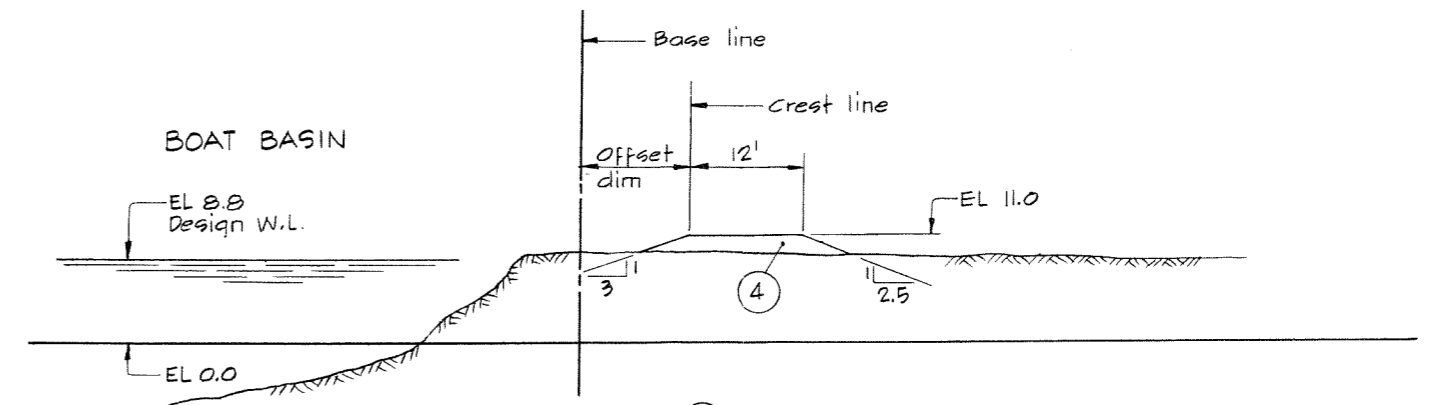
NOTE
Paved roadway between
CH 1498+50 to 1500+00



SECTION \textcircled{S}
TYP BTWN CH 1501+50 TO 1503+50
& CH 1504+50 TO 1504+78

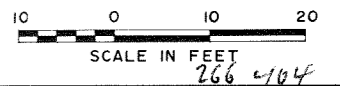


SECTION \textcircled{P}
TYP BTWN CH 1492+50 TO 1498+50

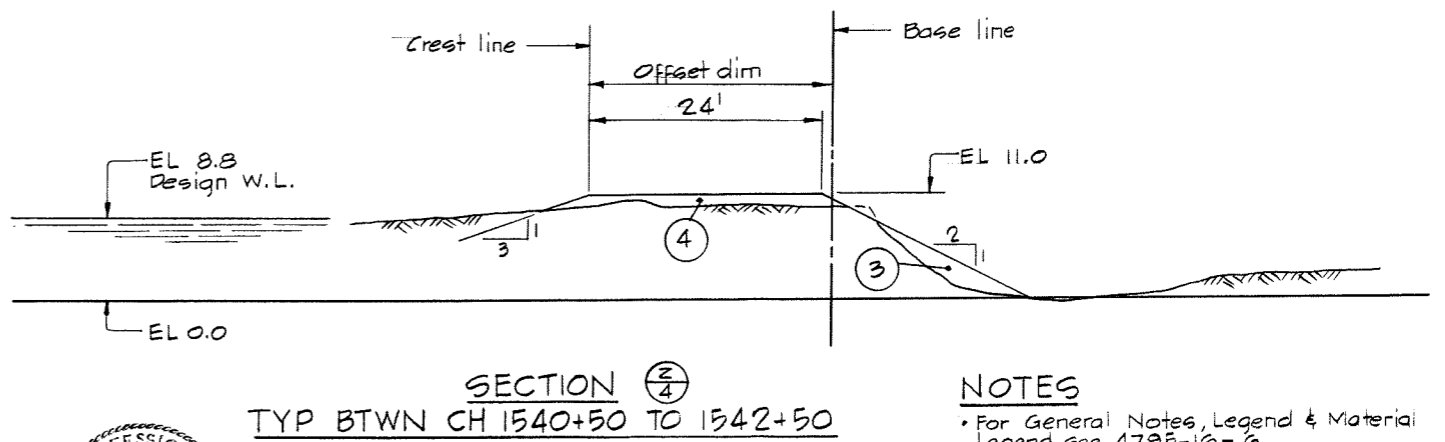
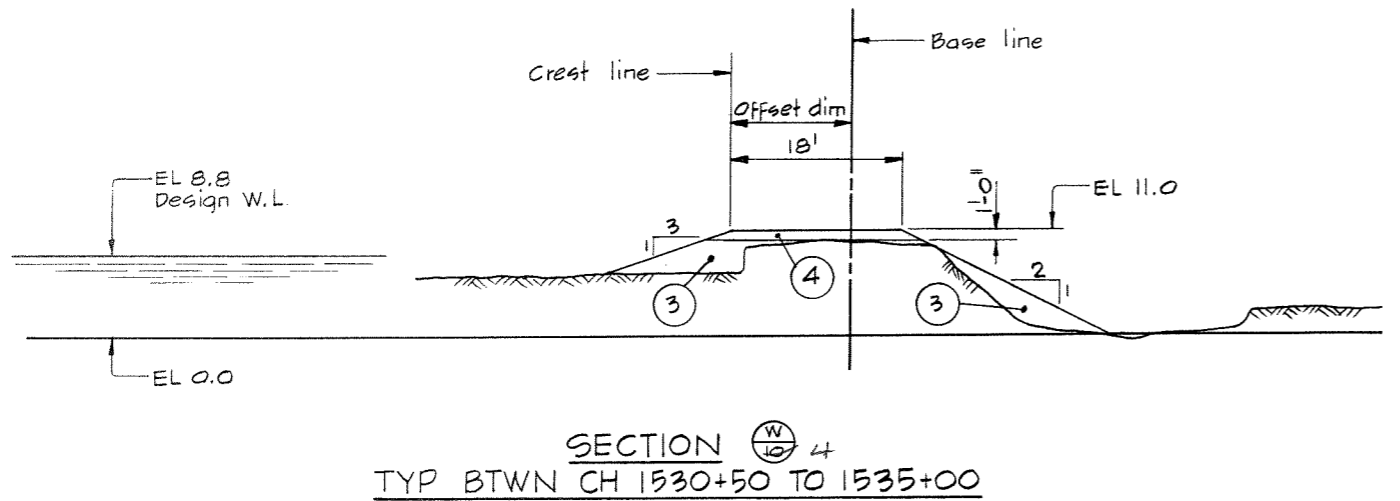
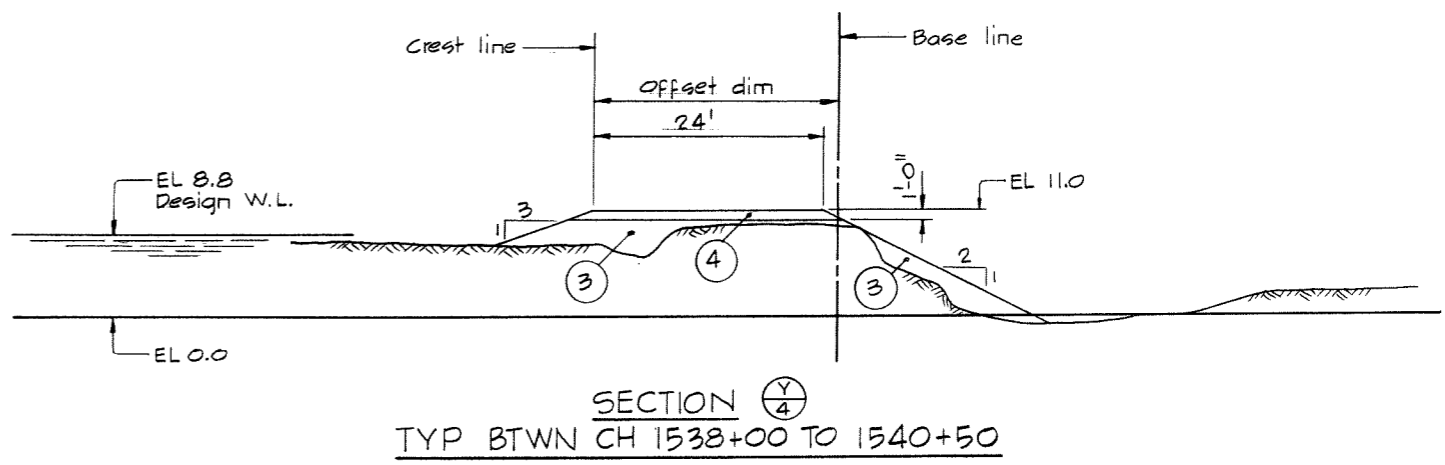
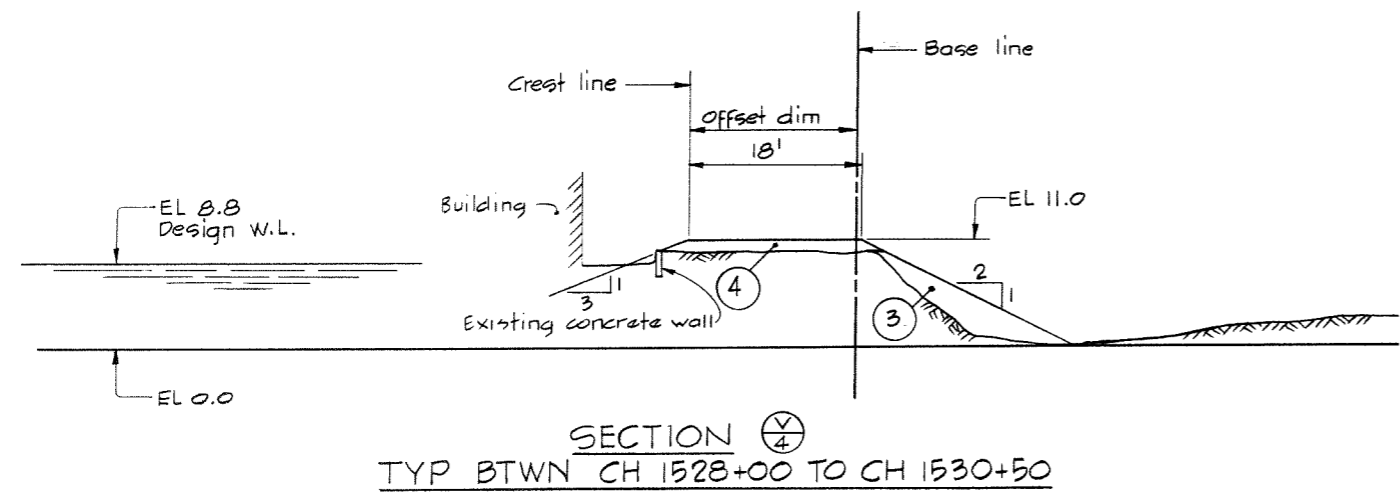
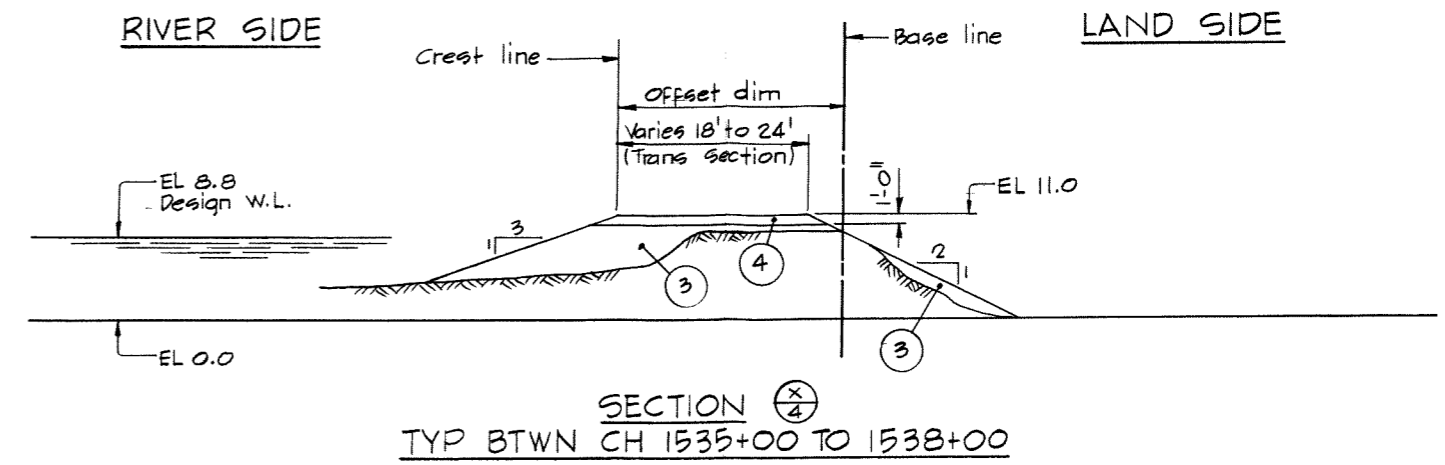
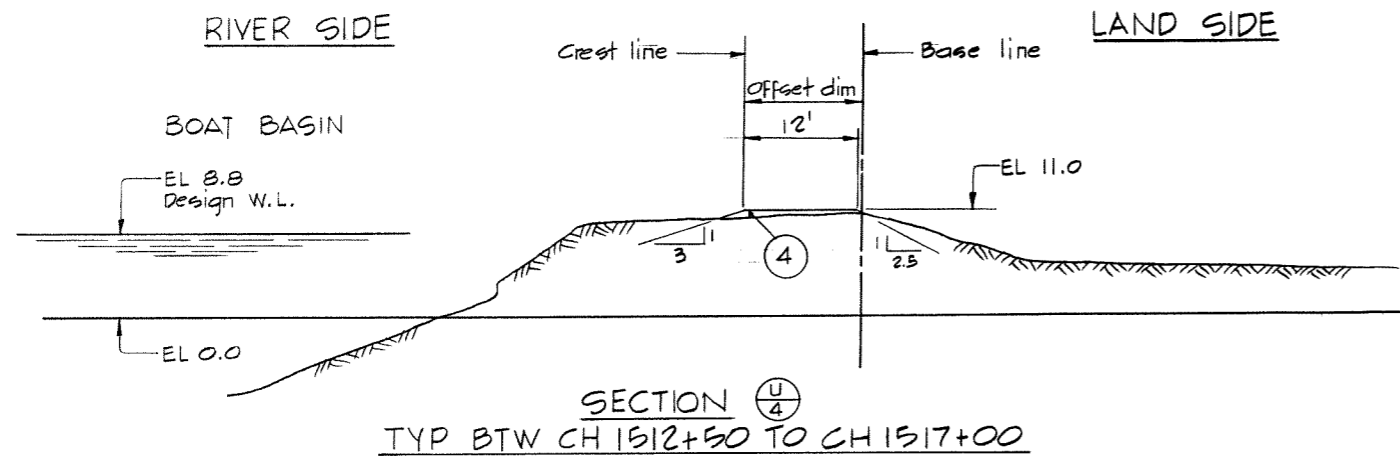


SECTION \textcircled{T}
TYP BTWN CH 1507+00 TO 1512+50

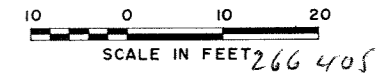
NOTES
• For General Notes, Legend & Material
Legend see 4795-16-6



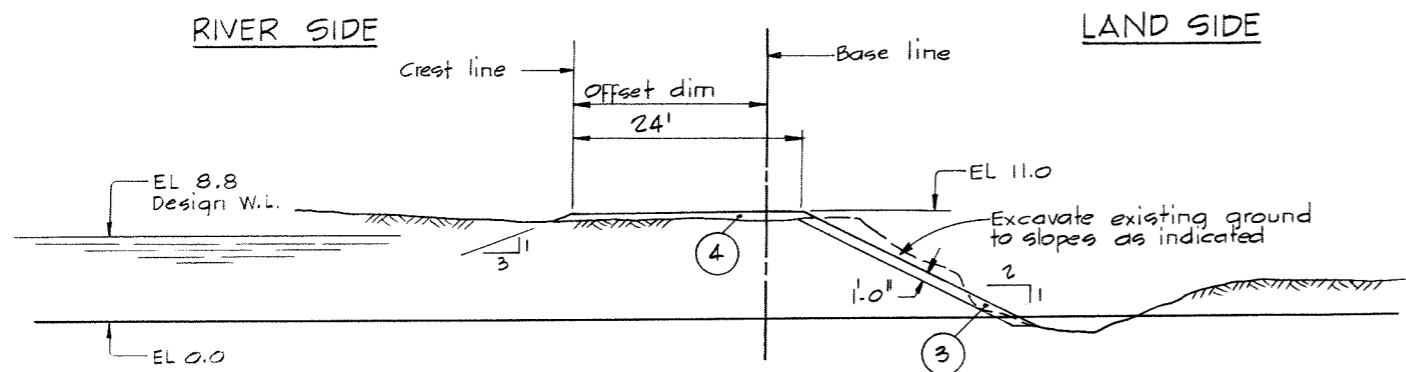
<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<p>NO. BY A REVISIONS Revised A/D DATE</p>	<p>RECOMMENDED <i>B.H. Cameron</i> PROJECT MANAGER</p>	<p>BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1988 AGREEMENT</p>	<p>DESIGNED DLC & EMH</p>	<p>SURVEYED</p>
		<p>DATE <i>July 25/77</i></p>		<p>APPROVED <i>John Fuller</i> DIRECTOR</p>	<p>PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TYPICAL DYKE SECTIONS</p>
				<p>SCALE AS SHOWN</p>	
				<p>DWG. NO. 4795-16-8</p>	<p>SHEET 3 OF 5 SHEETS</p>



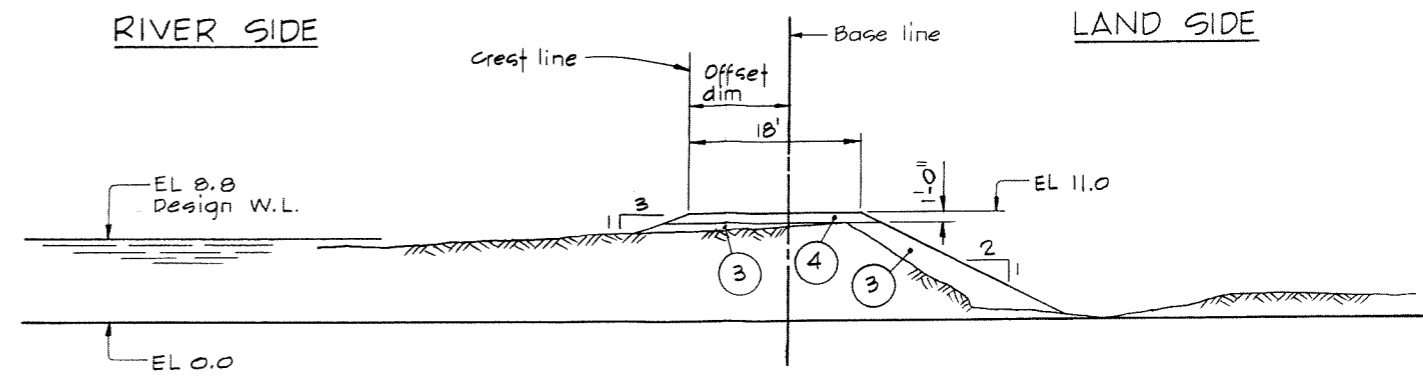
NOTES
 • For General Notes, Legend & Material Legend see 4795-16-6



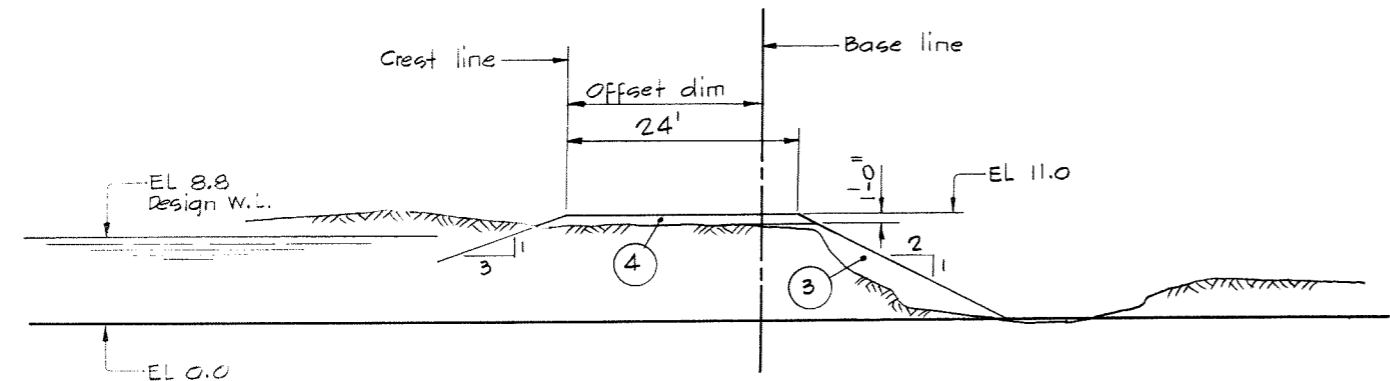
CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO. BY A	REVISIONS Revised A/B	DATE July 25/77	RECOMMENDED <i>Bill Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC & EMH</i>	SURVEYED
				APPROVED <i>John Fuller</i> DIRECTOR		PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TYPICAL DYKE SECTIONS	DRAWN <i>W Z</i>
			DATE Jul 22/77			CHECKED <i>DLC</i>	FILE NO. 0281550 - C10-16
						SCALE AS SHOWN	DATE Sept 1977
						DWG. NO. 4795-16-9	SHEET 4 OF 5 SHEETS



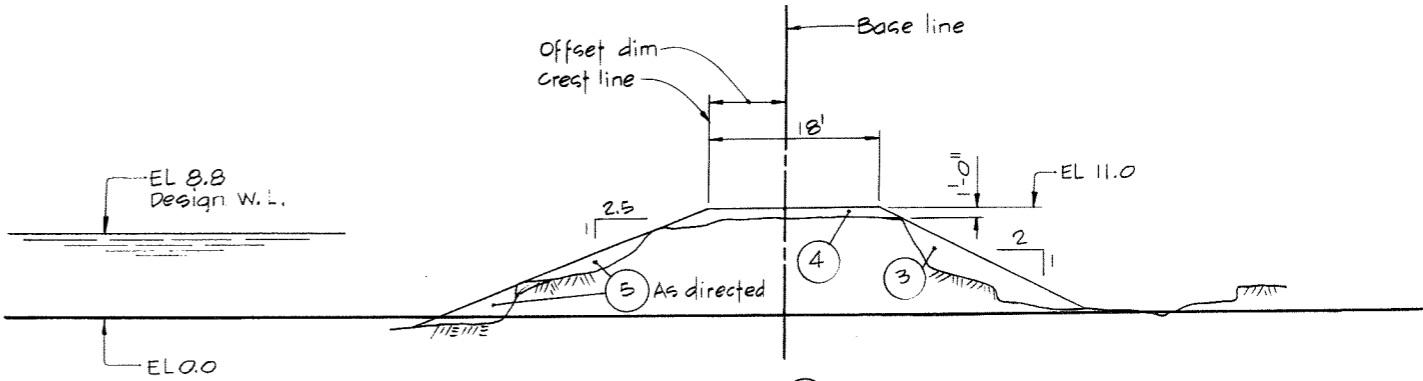
SECTION $\frac{A1}{5}$
TYP BTWN CH 1542+50 TO 1544+50



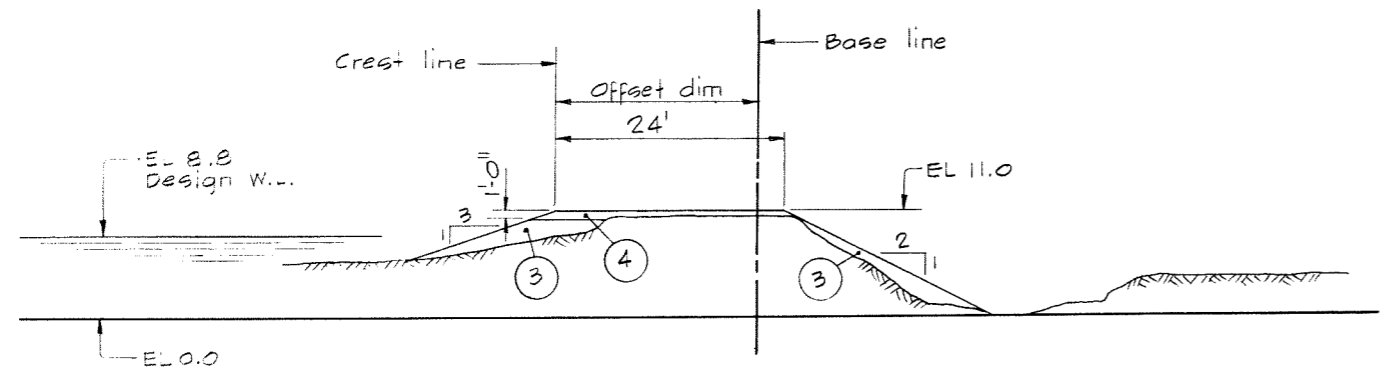
SECTION $\frac{D1}{5}$
TYP BTWN CH 1552+00 TO 1554+50
& CH 1555+50 TO 1557+60



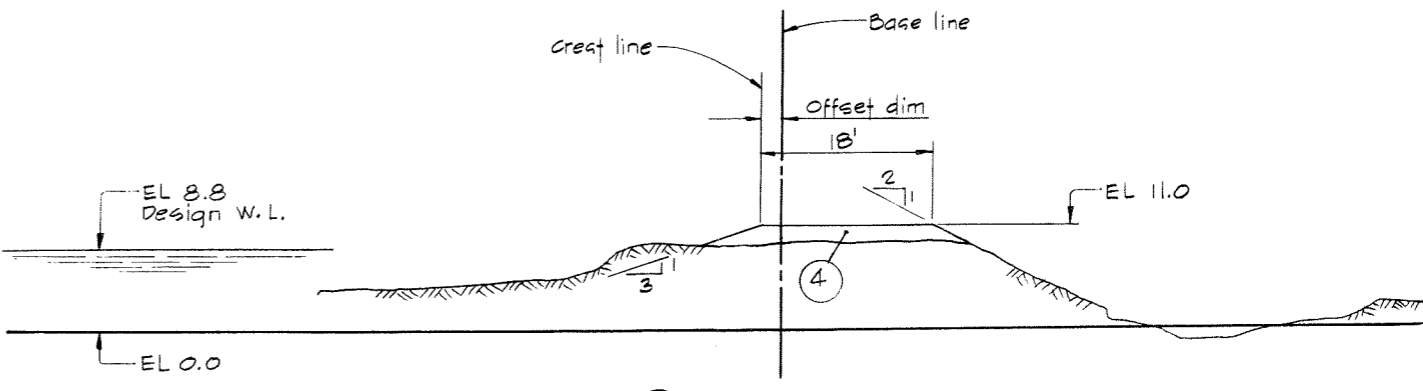
SECTION $\frac{B1}{5}$
TYP BTWN CH 1544+50 TO 1548+50



SECTION $\frac{E1}{5}$
TYP BTWN CH 1554+50 TO 1555+50

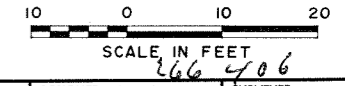


SECTION $\frac{C1}{5}$
TYP BTWN CH 1548+50 TO 1550+80

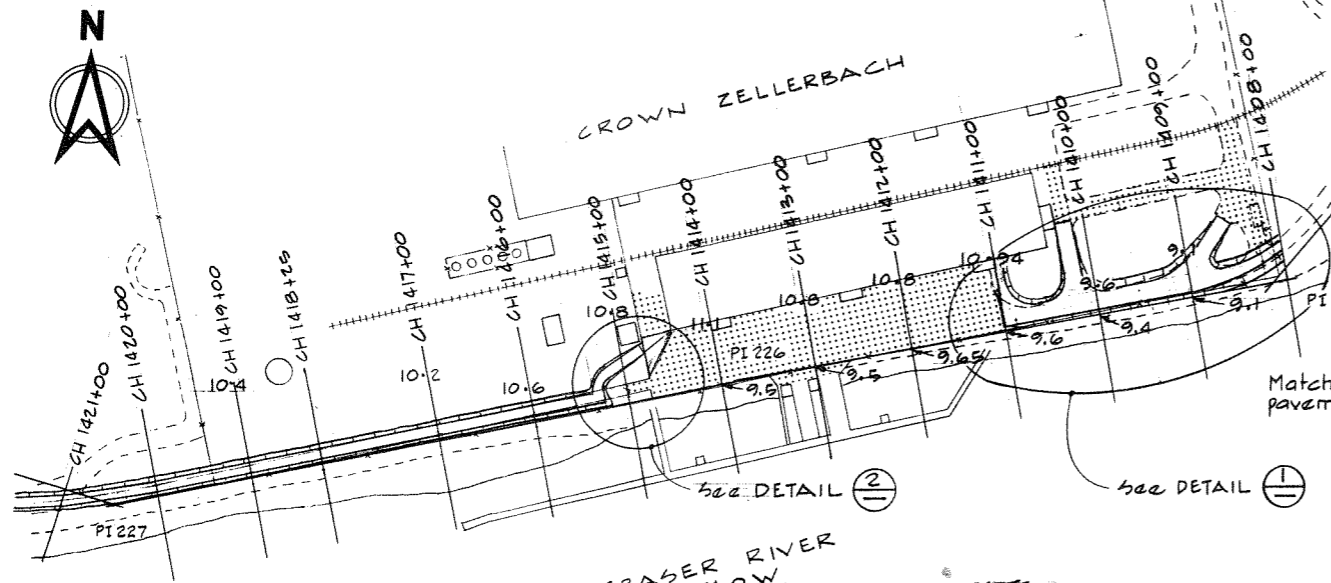


SECTION $\frac{F1}{5}$
TYP BTWN CH 1557+60 TO 1561+00

NOTES
• For General Notes, Legend & Material Legend see 4795-16-6

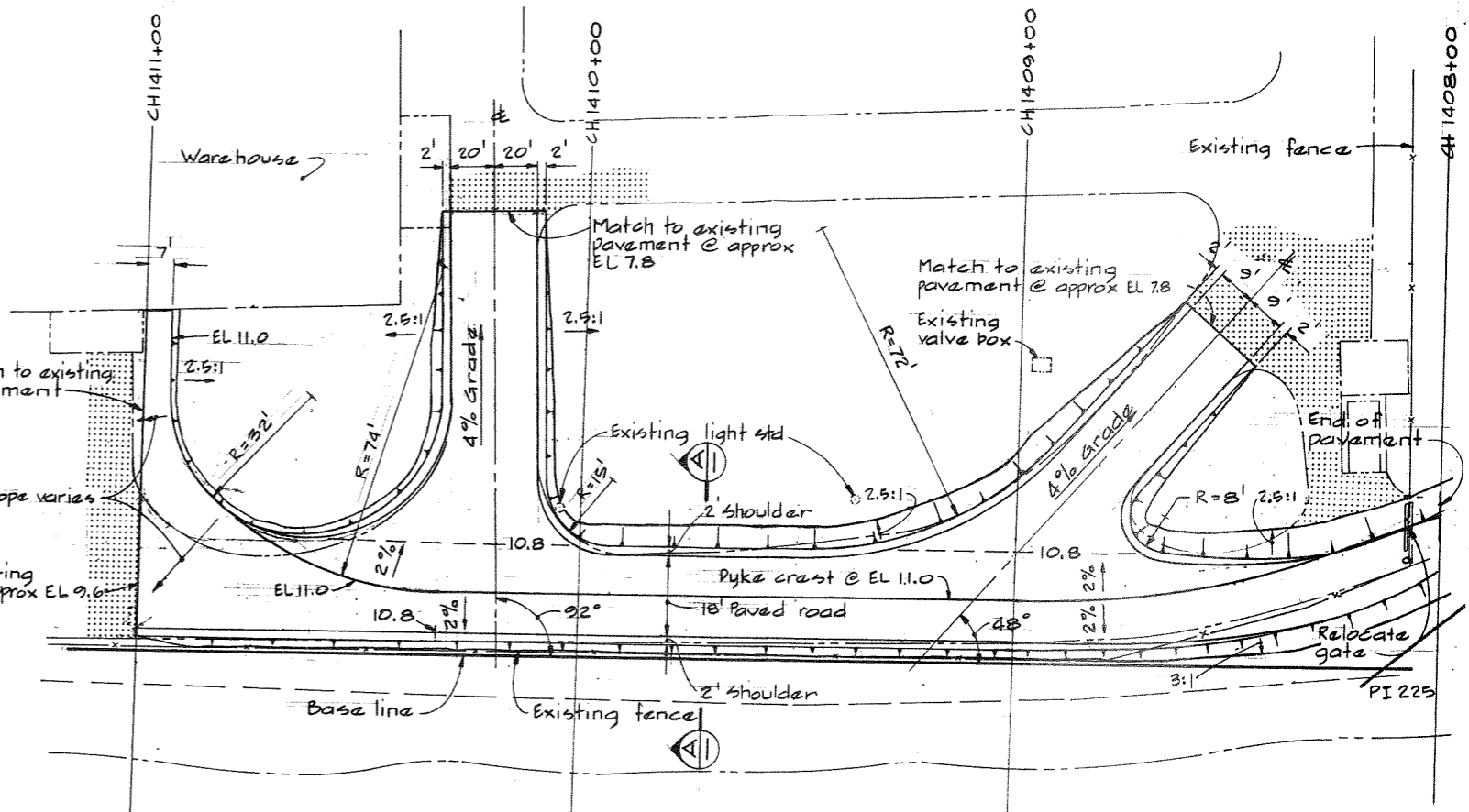


CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO. BY REVISIONS DATE A Revised A/B.	RECOMMENDED <i>B.H. Hanson</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC & EMH</i> SURVEYED
		DATE <i>July 25/77</i>		DRAWN <i>WZ</i> DATE
		APPROVED <i>W. Fuller</i> DIRECTOR	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TYPICAL DYKE SECTIONS	CHECKED <i>DLC</i> FILE NO. 0281550-C10-16
		DATE <i>Jul 22/77</i>		SCALE AS SHOWN DATE <i>Sept 1977</i>
				DWG. NO. 4795-16-10 SHEET 5 OF 5 SHEETS

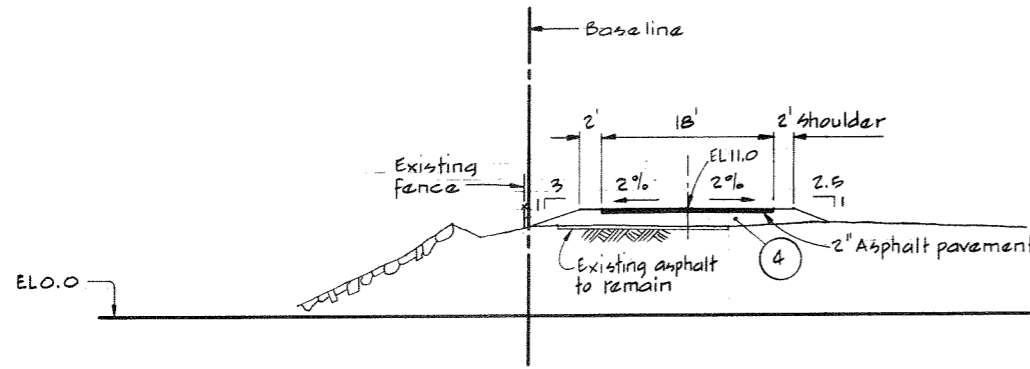


PLAN
SCALE IN FEET

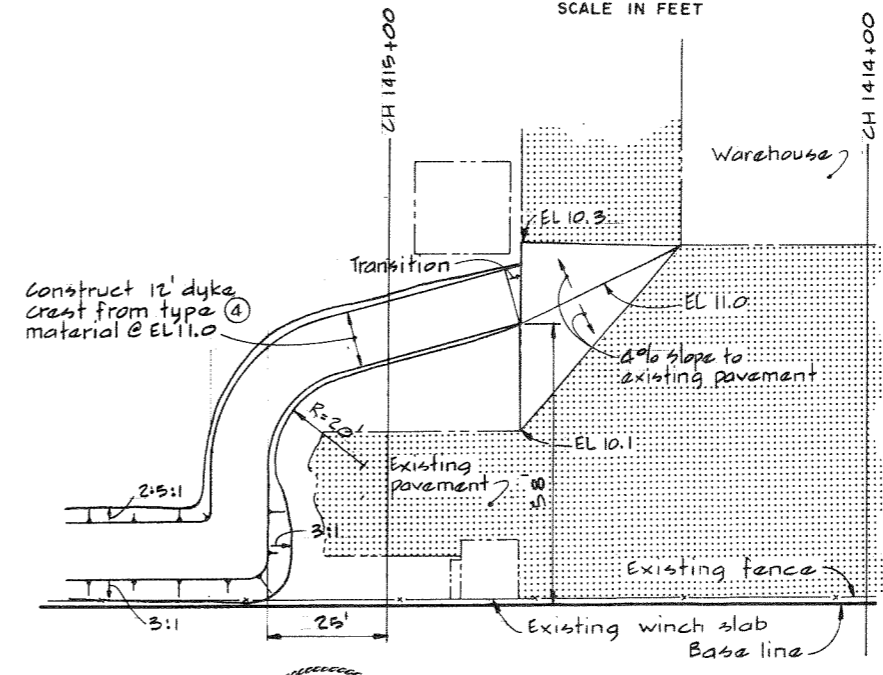
NOTE
All elevations shown on this plan are existing
For typical dyke sections between CH 1415+25 to 1421+00 see (A) (6)



DETAIL (1)
SCALE IN FEET



SECTION (A)
SCALE IN FEET



DETAIL (2)
SCALE IN FEET

MATERIAL LEGEND

- (1) Silt-clay
- (2) Sand
- (3) Sand, gravel cobbles
- (4) Crushed gravel
- (5) Light rip-rap

LEGEND

- Existing ground surface (Section)
- Existing ground & structures (Plan)
- (B) - Section identification letter
- (6) - Drawing number on which the section is drawn (ie) 4795-16-[7]
- (2) - Detail identification number
- (6) - Drawing number on which the detail is drawn (ie) 4795-16-[7]
- New asphalt pavement
- Existing asphalt pavement

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.

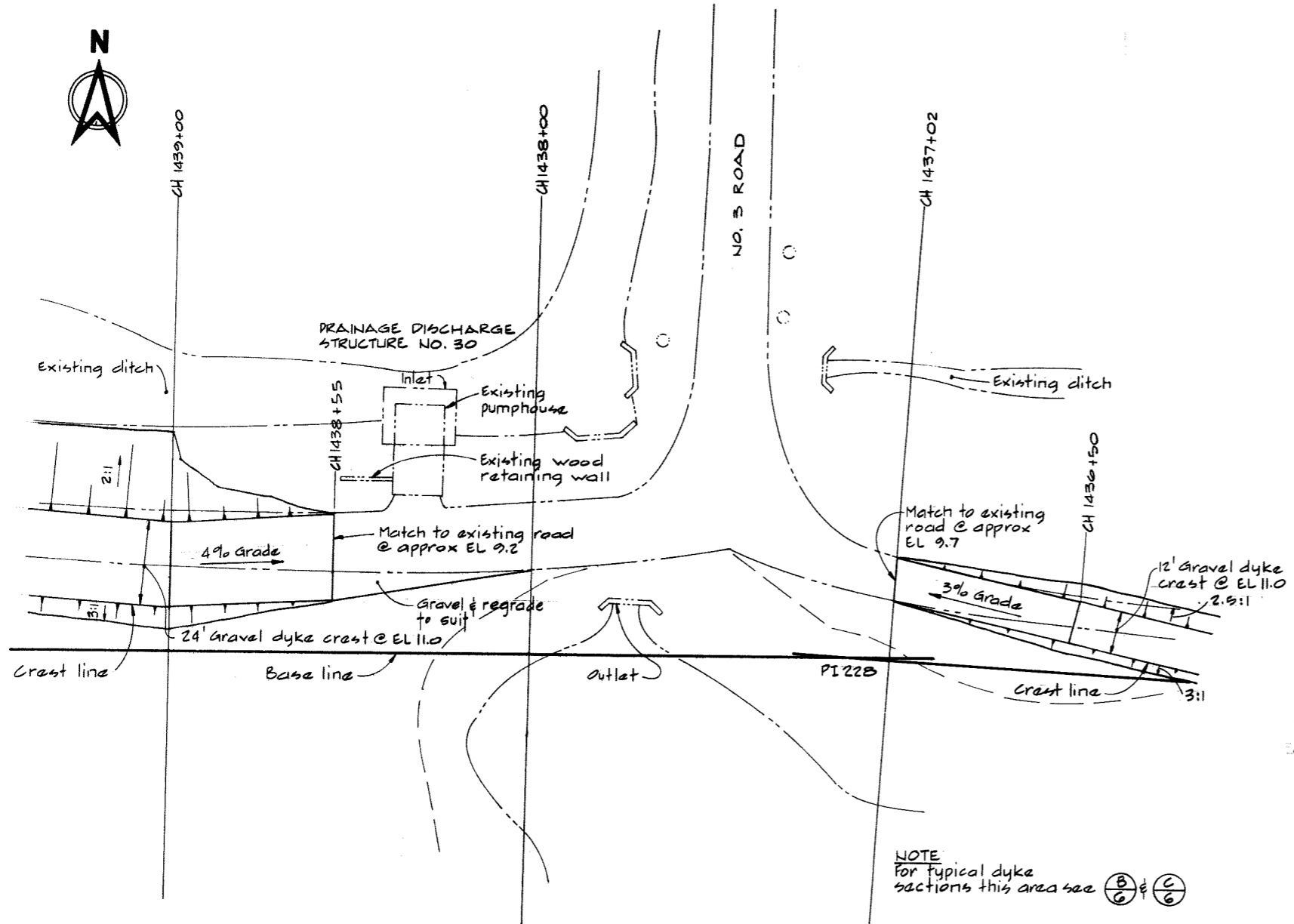
266 407



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CONSULTING ENGINEERS - VANCOUVER - CANADA

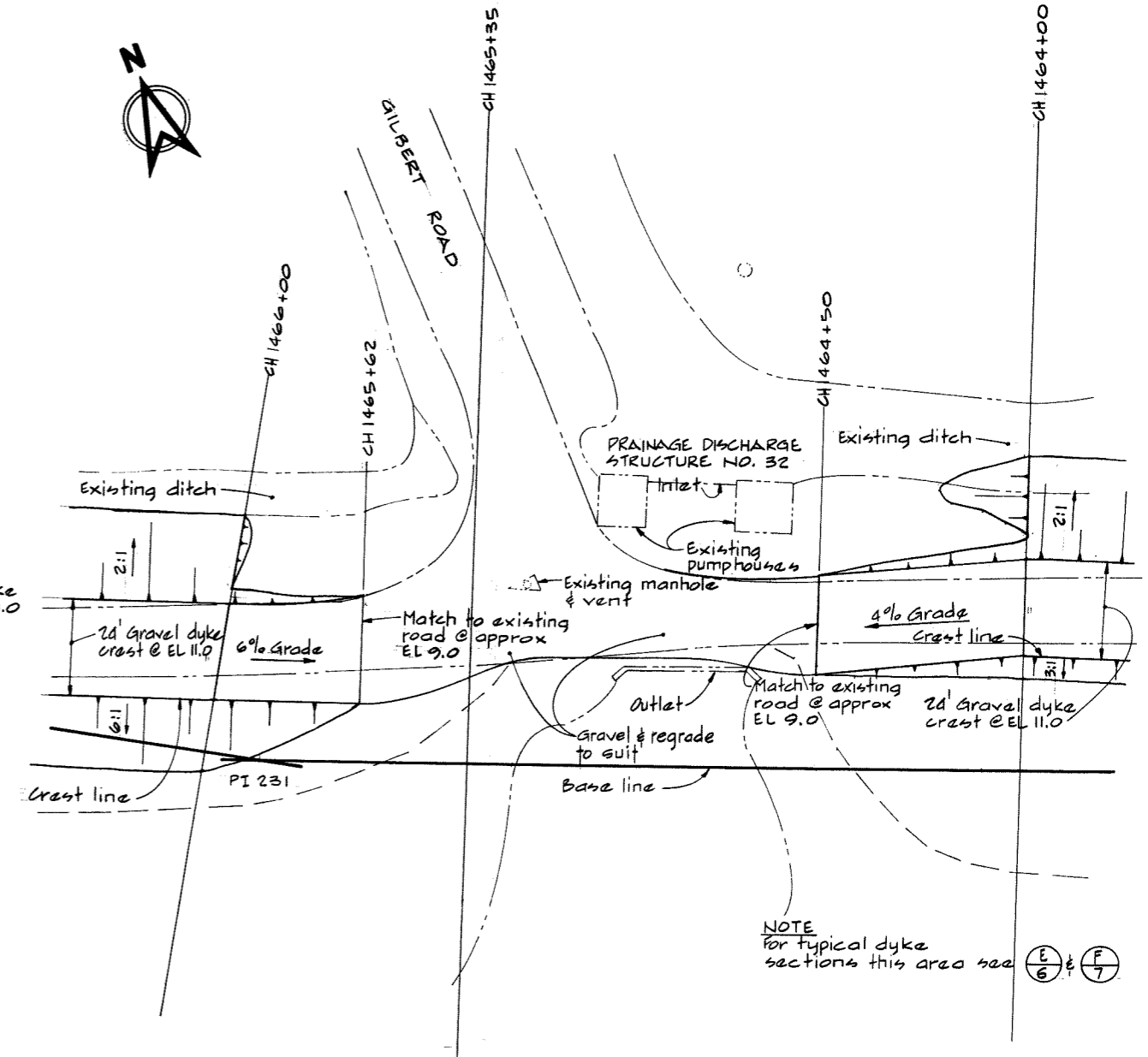
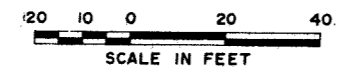
RECOMMENDED <i>R.N. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT "WATER INVESTIGATIONS BRANCH" CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT
DATE <i>July 25/77</i>	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
APPROVED <i>John Fuller</i> DIRECTOR	CONTRACT NO. 16
DATE <i>Jul 24/77</i>	MISCELLANEOUS DYKE DETAILS

DESIGNED <i>DLG</i>	SURVEYED
DRAWN <i>DR</i>	DATE
CHECKED <i>DLG</i>	FILE NO. 0281550-C10-16
SCALE AS SHOWN	DATE <i>SEP 1977</i>
DWG. NO. 4795-16-114	SHEET 1 OF 10 SHEETS



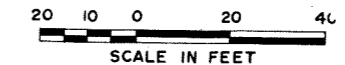
NOTE
For typical dyke sections this area see \textcircled{B} & \textcircled{C}

**DYKE GRADING AT
DRAINAGE DISCHARGE STRUCTURE NO. 30**




NOTE
For typical dyke sections this area see \textcircled{E} & \textcircled{F}

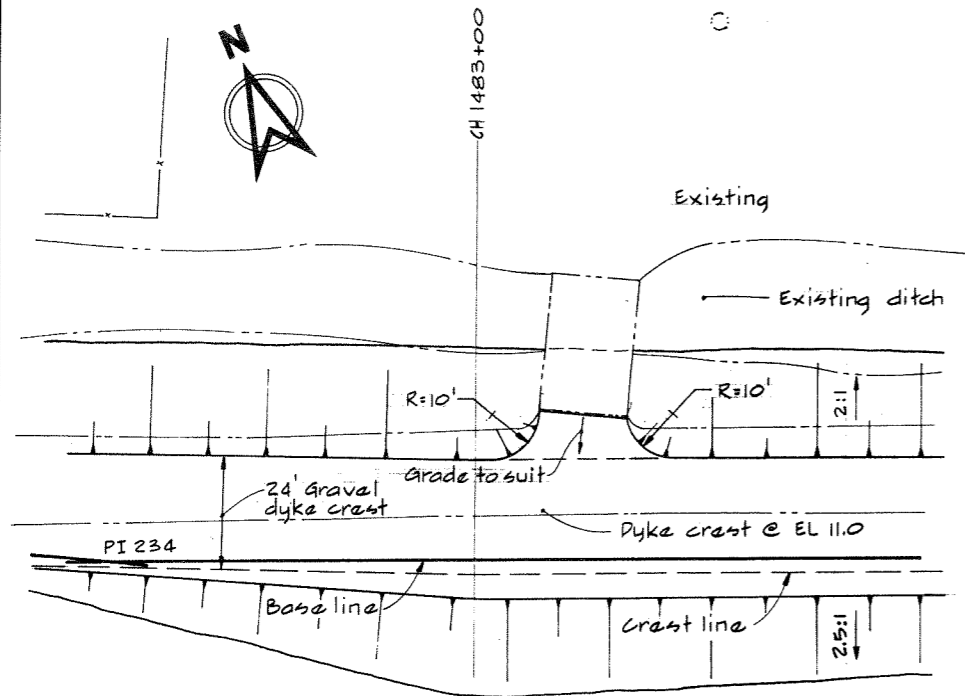
**DYKE GRADING AT
DRAINAGE DISCHARGE STRUCTURE NO. 32**



NOTES
For Notes, Material Legend & Legend see 4795-16-11

266408

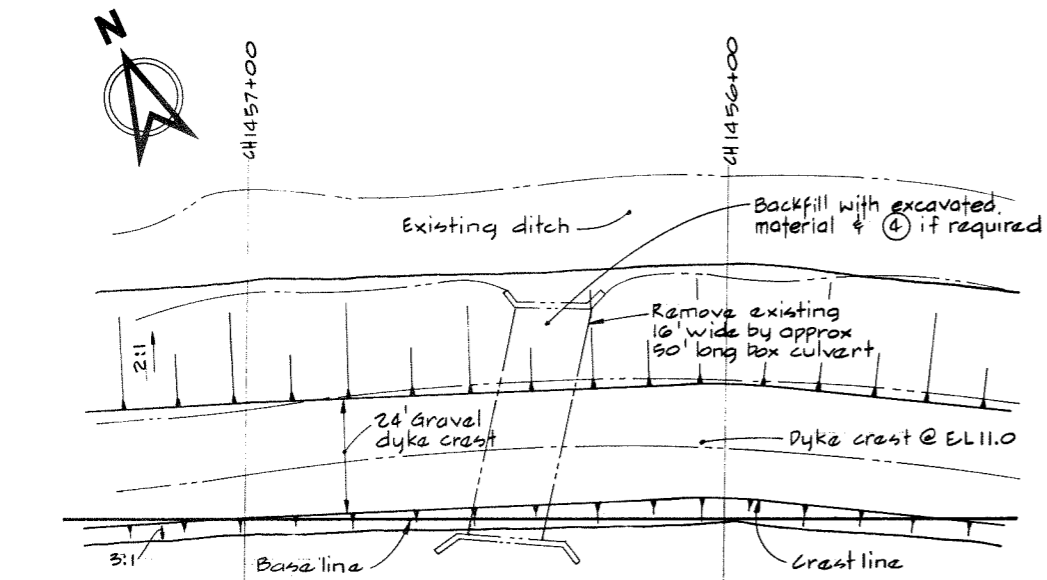
 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO.	BY	REVISIONS	DATE	RECOMMENDED <i>R.A. Prescott</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1986 AGREEMENT	DESIGNED <i>DLc</i>	SURVEYED
					DATE <i>July 25/77</i>		DRAWN <i>AR</i>	DATE
					APPROVED <i>Rob Fuller</i> DIRECTOR	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 MISCELLANEOUS DYKE DETAILS	CHECKED <i>DLc</i>	FILE NO. 0281550-C10-16
					DATE <i>Jul 22/77</i>		SCALE AS SHOWN	DATE <i>Sept 1977</i>
							DWG. NO. 4795-16-12	SHEET 2 OF 10 SHEETS



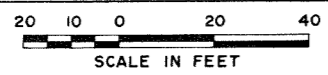
ACCESS TO HOUSE NO. 645 DYKE ROAD



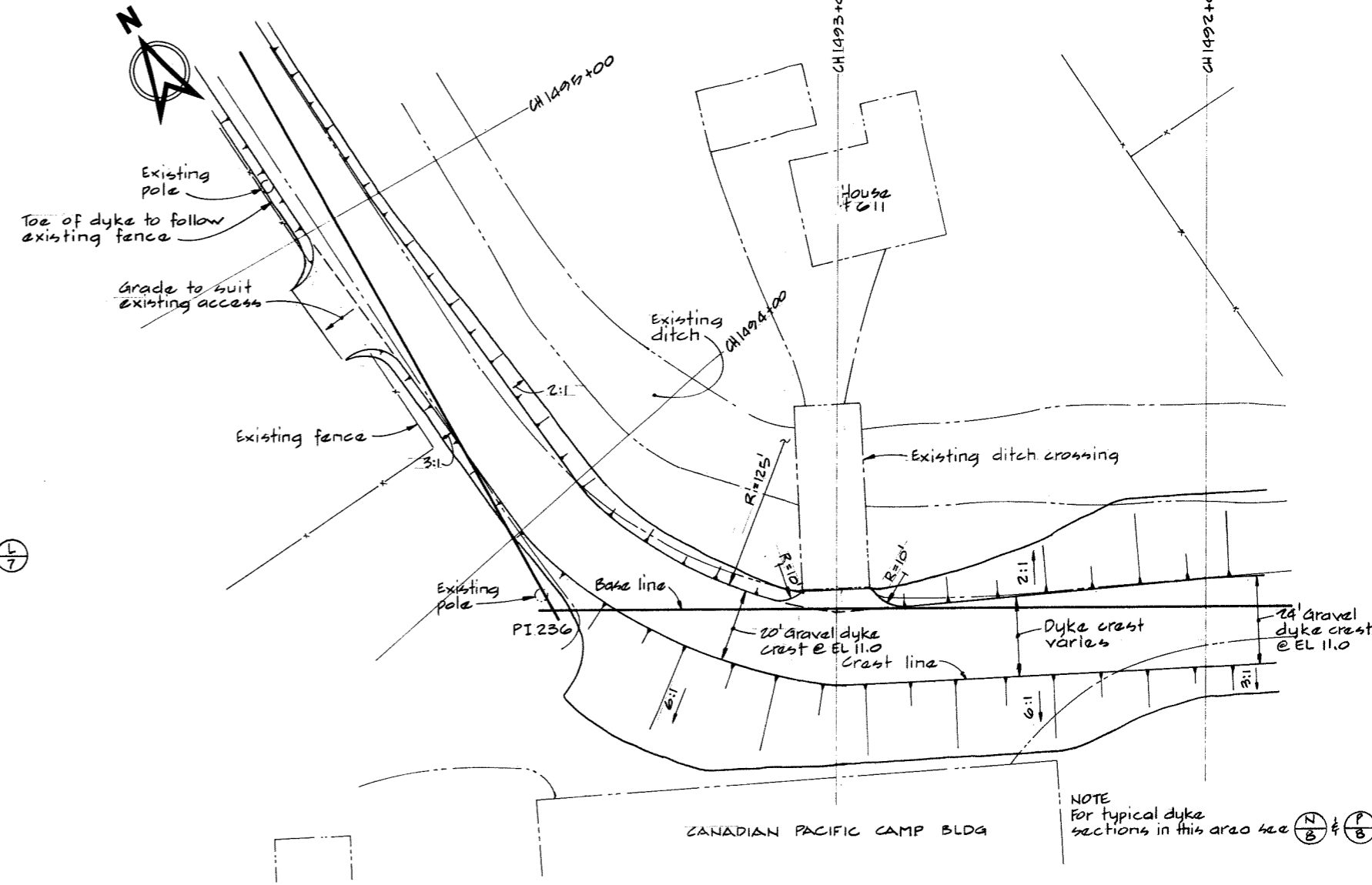
NOTE
For typical dyke sections this area see $\frac{L}{7}$



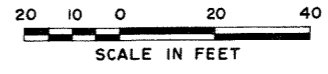
DRAINAGE DISCHARGE STRUCTURE NO. 31



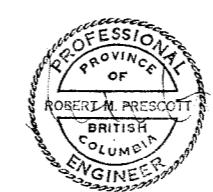
NOTE
For typical dyke sections this area see $\frac{E}{7}$



ACCESS TO HOUSE NO. 611 DYKE ROAD & CANADIAN PACIFIC CAMP BLDG



NOTE
For typical dyke sections in this area see $\frac{N}{8}$ & $\frac{P}{8}$

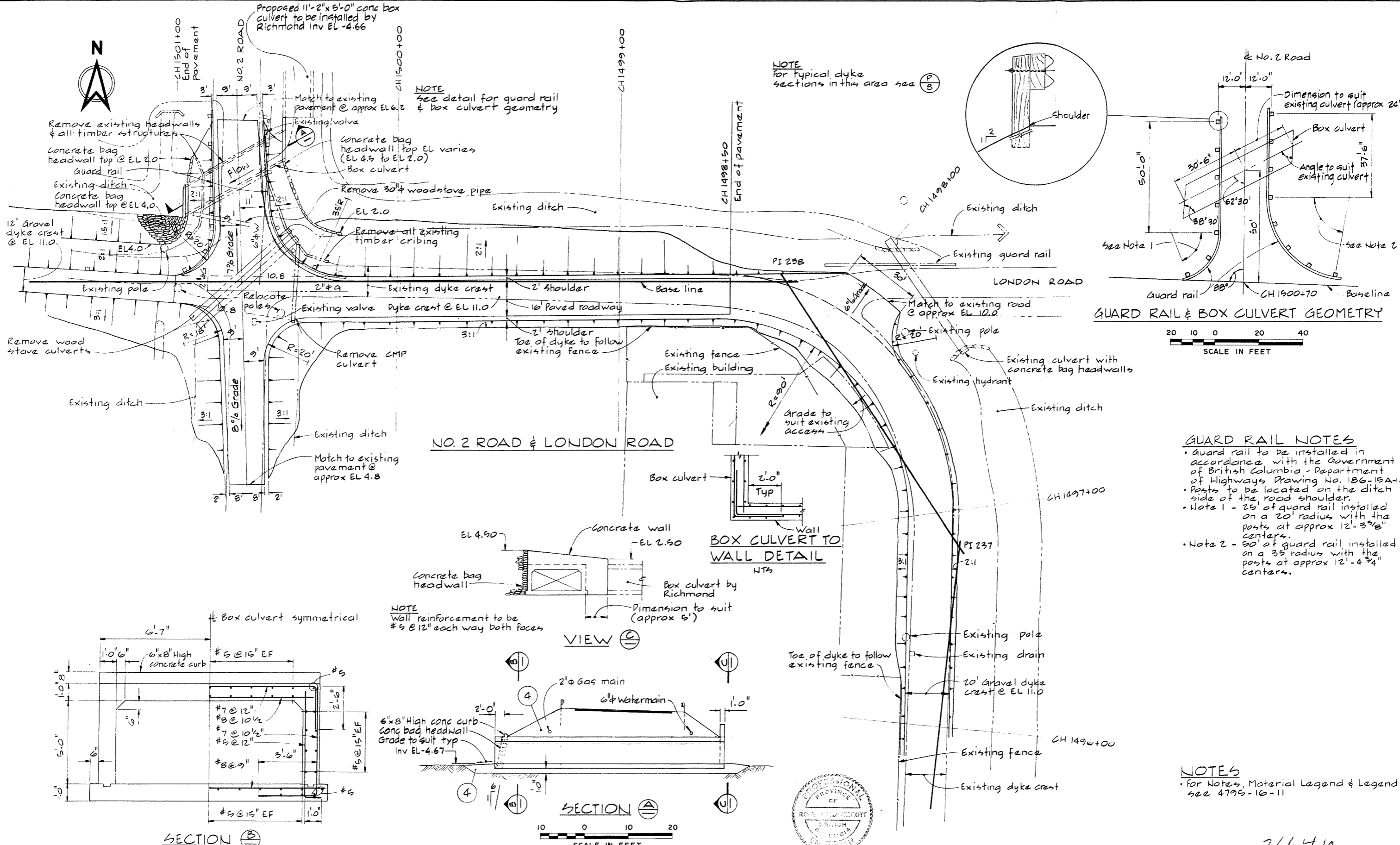


NOTES
For Notes, Material Legend and Legend see 4795-16-6-11

266409



NO. BY	REVISIONS	DATE	RECOMMENDED <i>R.M. Prescott</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC</i>	SURVEYED
			DATE <i>July 25/77</i>	PROJECT MANAGER	DRAWN <i>AR</i>	DATE
			APPROVED <i>W. J. Sullivan</i>	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND	CHECKED <i>DLC</i>	FILE NO. 0281550-C10-16
			DATE <i>Jul 22/77</i>	CONTRACT NO. 16	SCALE AS SHOWN	DATE <i>Sept 1977</i>
				MISCELLANEOUS DYKE DETAILS	DWG. NO. 4795-16-13	SHEET 3 OF 10 SHEETS



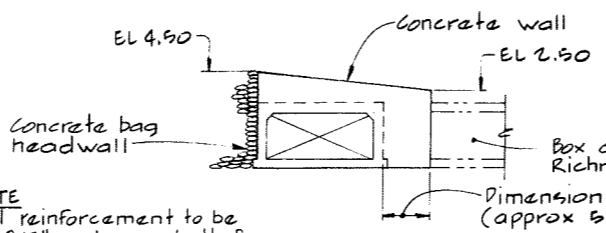
GUARD RAIL & BOX CULVERT GEOMETRY



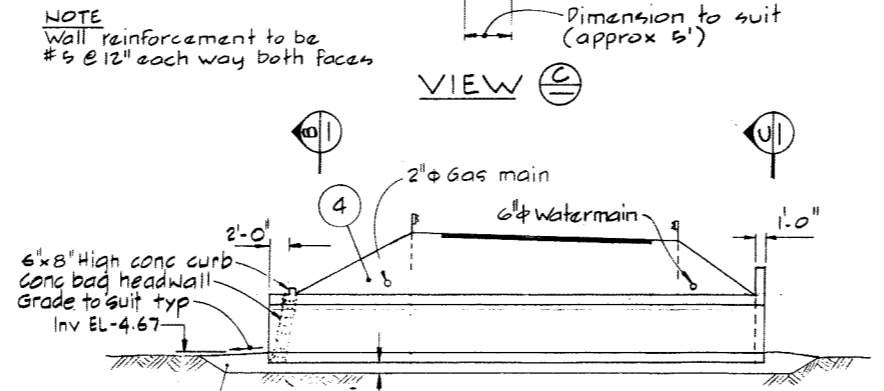
GUARD RAIL NOTES

- Guard rail to be installed in accordance with the Government of British Columbia - Department of Highways Drawing No. 186-13A-1.
- Posts to be located on the ditch side of the road shoulder.
- Note 1 - 25' of guard rail installed on a 20' radius with the posts at approx 12'-3 3/8" centers.
- Note 2 - 50' of guard rail installed on a 35' radius with the posts at approx 12'-4 3/4" centers.

BOX CULVERT TO WALL DETAIL



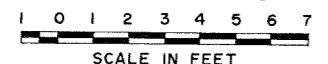
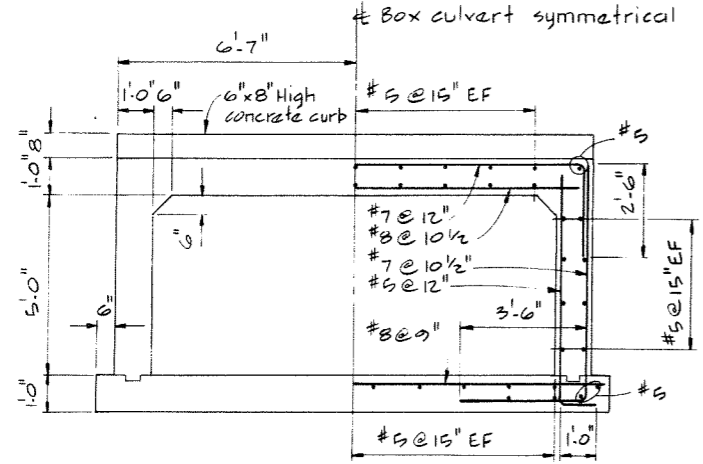
VIEW (C)



SECTION (A)



SECTION (B)



CBA ENGINEERING LTD.
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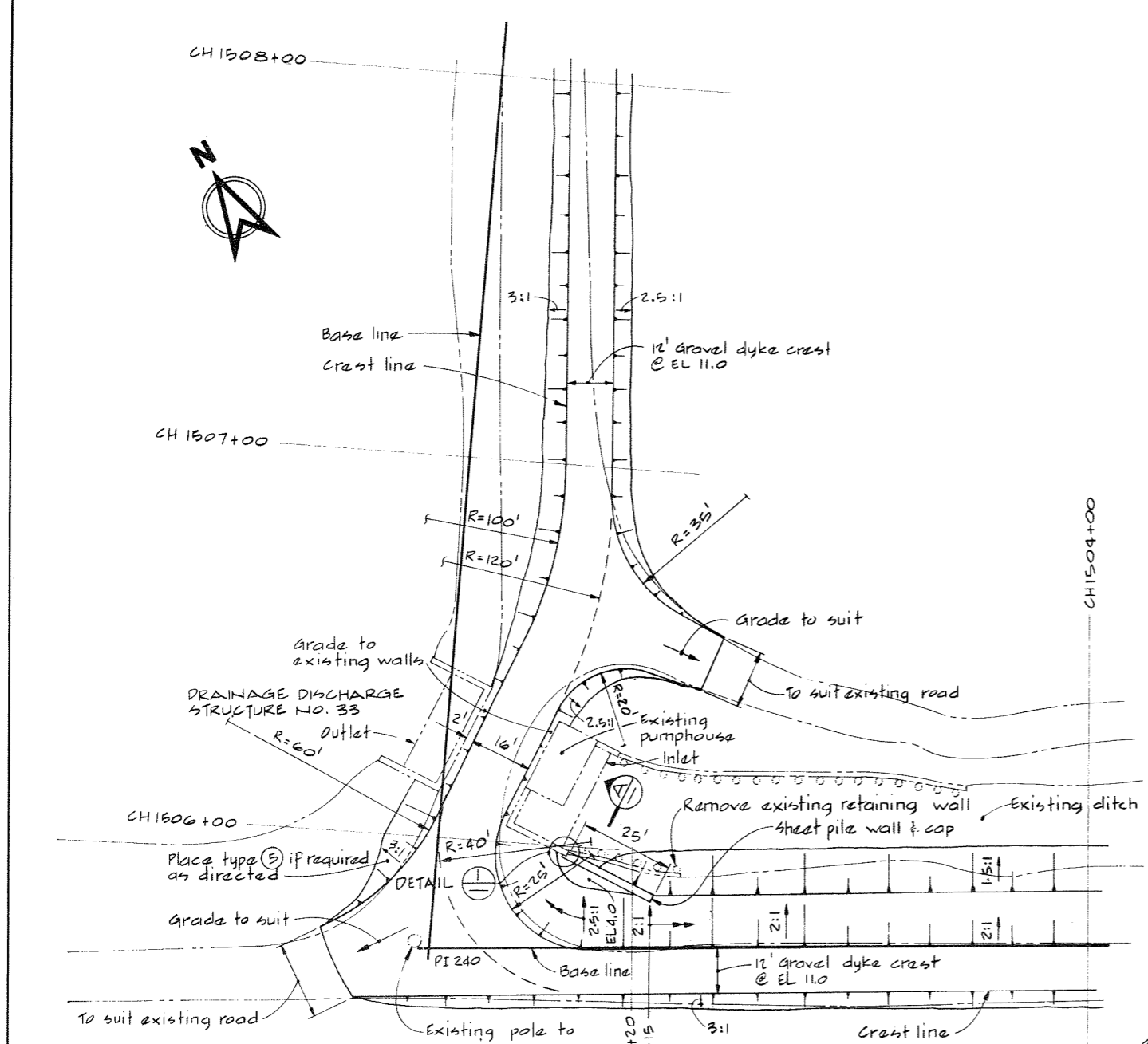
RECOMMENDED	<i>R. MacCott</i>	PROJECT MANAGER
DATE	July 25/77	
APPROVED	<i>John Fuller</i>	DIRECTOR
DATE	Jul 22/77	

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. 16
MISCELLANEOUS DYKE DETAILS

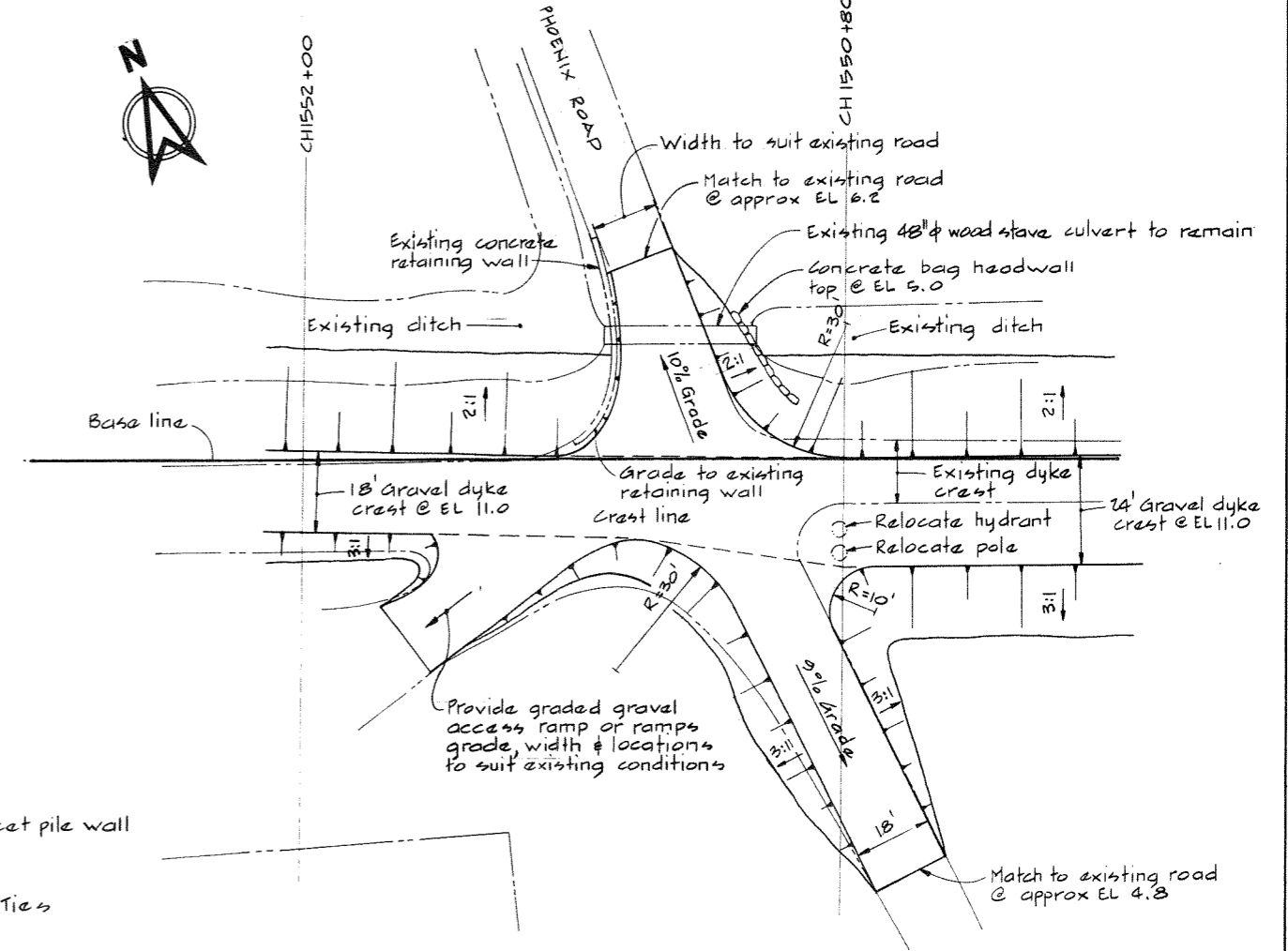
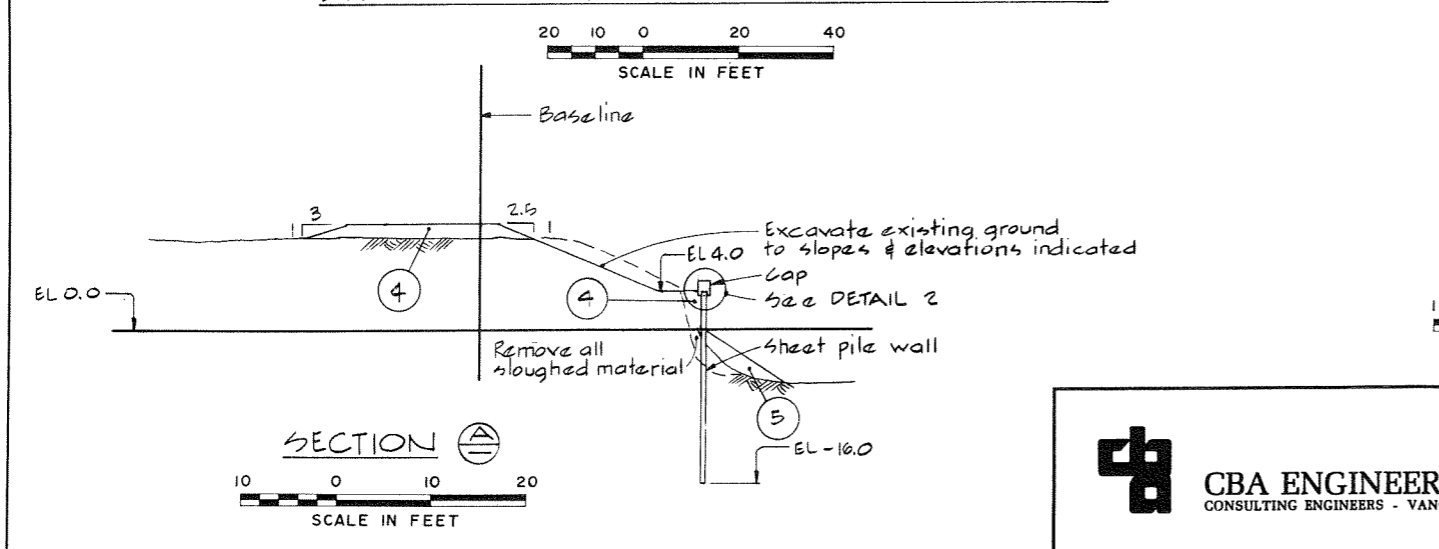
DESIGNED	SURVEYED
DRAWN <i>AR</i>	DATE
CHECKED <i>DLC</i>	FILE NO. 0281550-C10-16
SCALE AS SHOWN	DATE Sept. 1977
DWG. NO. 4795-16-14	SHEET 4 OF 10 SHEETS

266410



NOTE
For typical dyke sections in this area see $\textcircled{3}$ & $\textcircled{8}$

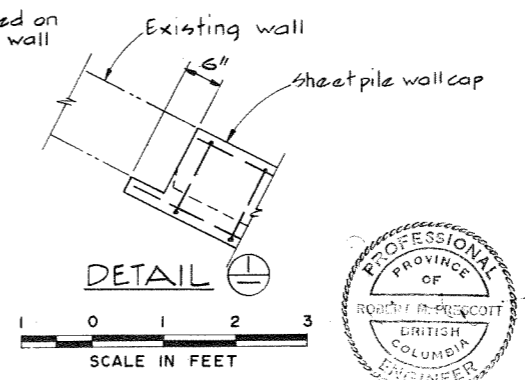
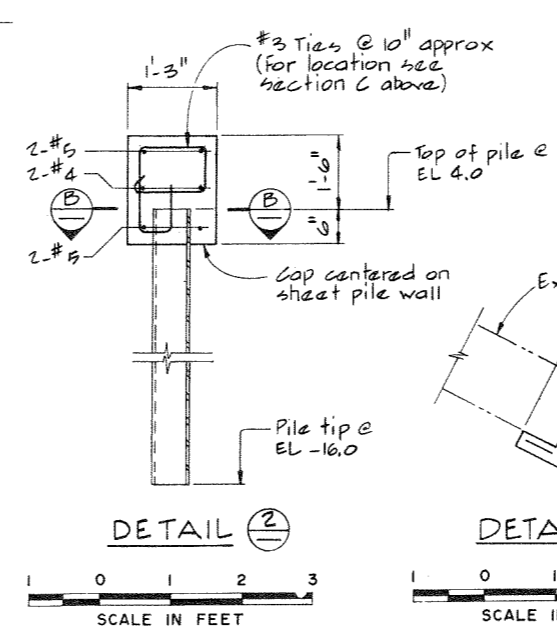
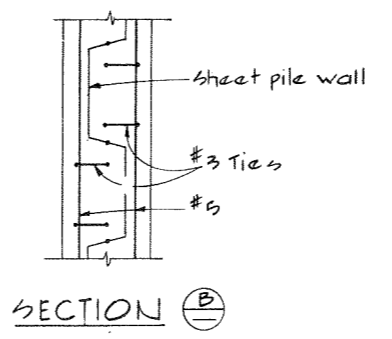
**DYKE GRADING @
DRAINAGE DISCHARGE STRUCTURE NO. 33**



PHOENIX ROAD

NOTE
For typical dyke sections in this area see $\textcircled{3}$ & $\textcircled{8}$

SCALE IN FEET



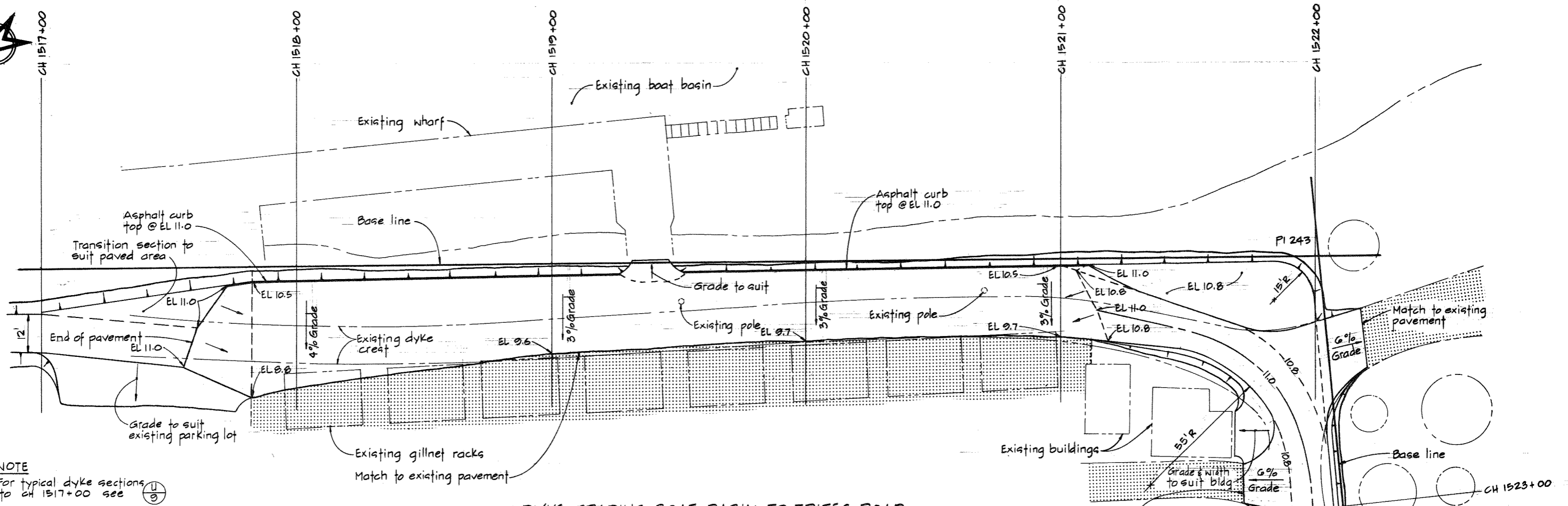
NOTES

- For Notes, Material Legend & Legend see 4795-16-11
- Sheet piling shall have a section modulus of at least 18.8 cu in/ft a weight of at least 24 lbs/sq ft, and a min web thickness of 0.28 in.



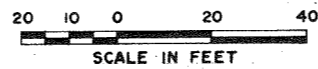
266 414

<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<p>NO. BY <i>A</i> REVISIONS <i>Revised A/B</i> DATE <i>Jul 22/77</i></p>	<p>RECOMMENDED <i>R. W. Cameron</i> PROJECT MANAGER</p>	<p>BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT</p>	<p>DESIGNED _____ SURVEYED _____</p>
		<p>DATE <i>July 25/77</i></p>	<p>PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 MISCELLANEOUS DYKE DETAILS</p>	<p>DRAWN <i>AR</i> DATE _____</p>
		<p>APPROVED <i>Rob Fuller</i> DIRECTOR</p>		<p>CHECKED <i>DLC</i> FILE NO. <i>02B1550-C10-16</i></p>
		<p>DATE <i>Jul 22/77</i></p>		<p>SCALE <i>AS SHOWN</i> DATE <i>Sept 1977</i></p>
				<p>DWG. NO. <i>4795-16-15</i> SHEET <i>5</i> OF <i>10</i> SHEETS</p>

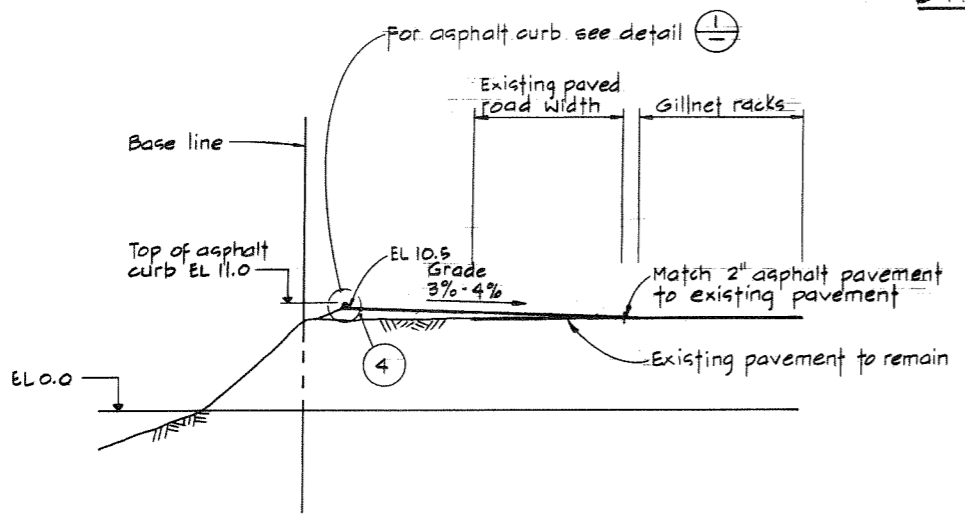


NOTE
For typical dyke sections
to CH 1517+00 see $\frac{1}{9}$

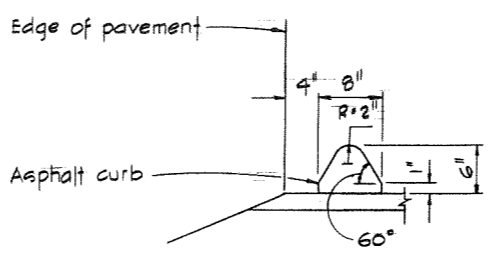
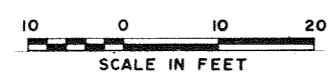
DYKE GRADING BOAT BASIN TO TRITES ROAD



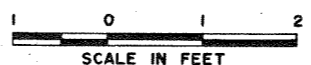
NOTE
For continuation see 4795-16-17.



SECTION
TYP BTWN CH 1518+00 TO 1521+00



DETAIL $\frac{1}{1}$

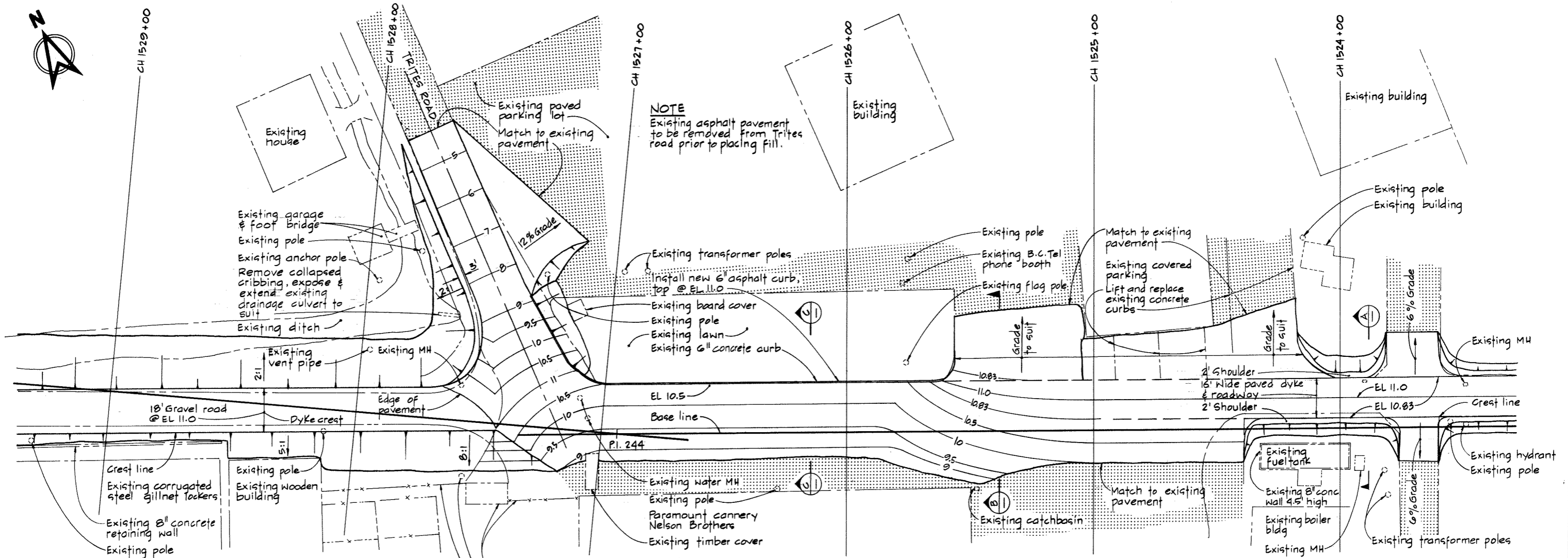


NOTES
For Notes, Material Legend & Legend
see 4795-16-11.



266 412

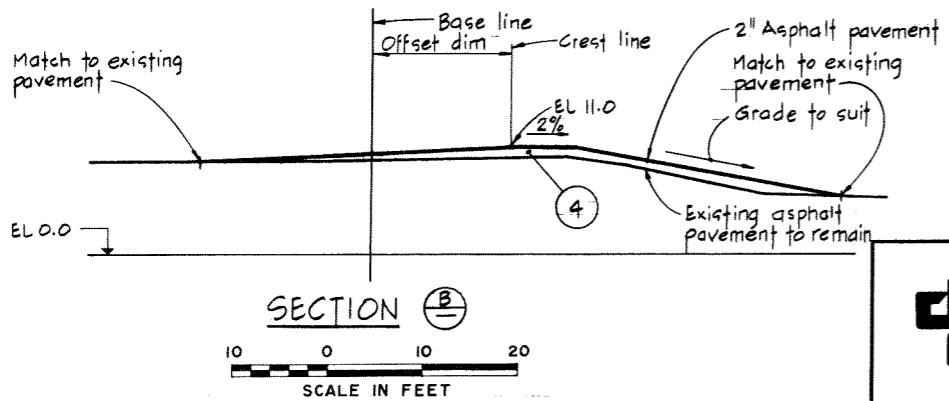
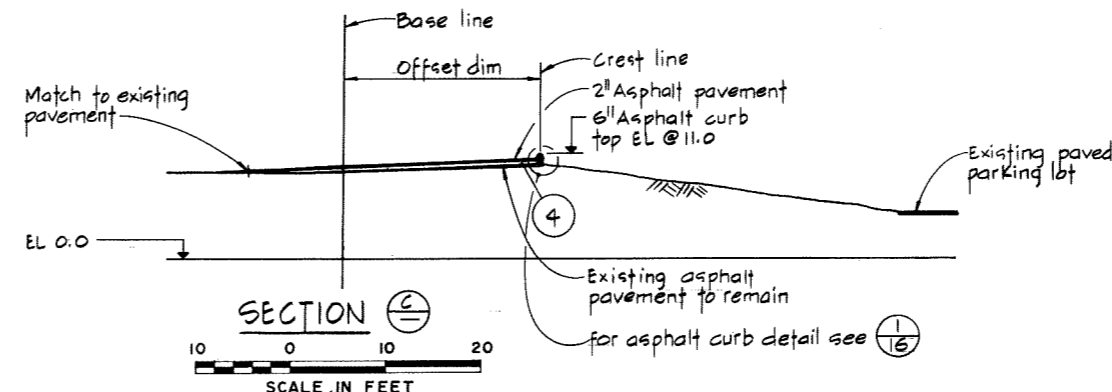
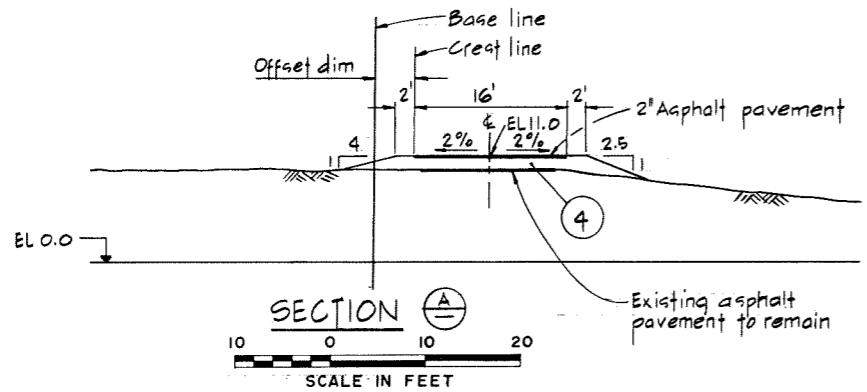
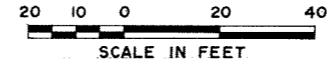
<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<p>NO. BY <i>A</i> REVISIONS <i>Revised A/B</i> DATE <i>Jul 22/77</i></p>	<p>RECOMMENDED <i>B. H. Prescott</i> PROJECT MANAGER</p>	<p>BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT</p>	<p>DESIGNED <i>DLC</i></p>	<p>SURVEYED</p>
		<p>DATE <i>July 25/77</i></p>	<p>PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 MISCELLANEOUS DYKE DETAILS</p>	<p>DRAWN <i>Wn</i></p>	<p>DATE</p>
		<p>APPROVED <i>W. Fuller</i> DIRECTOR</p>		<p>CHECKED <i>DLC</i></p>	<p>FILE NO. 0281550-C10-16</p>
		<p>DATE <i>Jul 22/77</i></p>		<p>SCALE <i>AS SHOWN</i></p>	<p>DATE <i>Sept 1977</i></p>
				<p>DWG. NO. <i>4795-16-16</i></p>	<p>SHEET 6 OF 10 SHEETS</p>



NOTE
Existing asphalt pavement to be removed from Trites road prior to placing fill.

NOTE
For typical dyke sections in this area see (V) 9

DYKE WORKS BOAT BASIN TO TRITES ROAD



NOTES
For Notes, Material Legend & Legend see 4795-16-11.

266 413

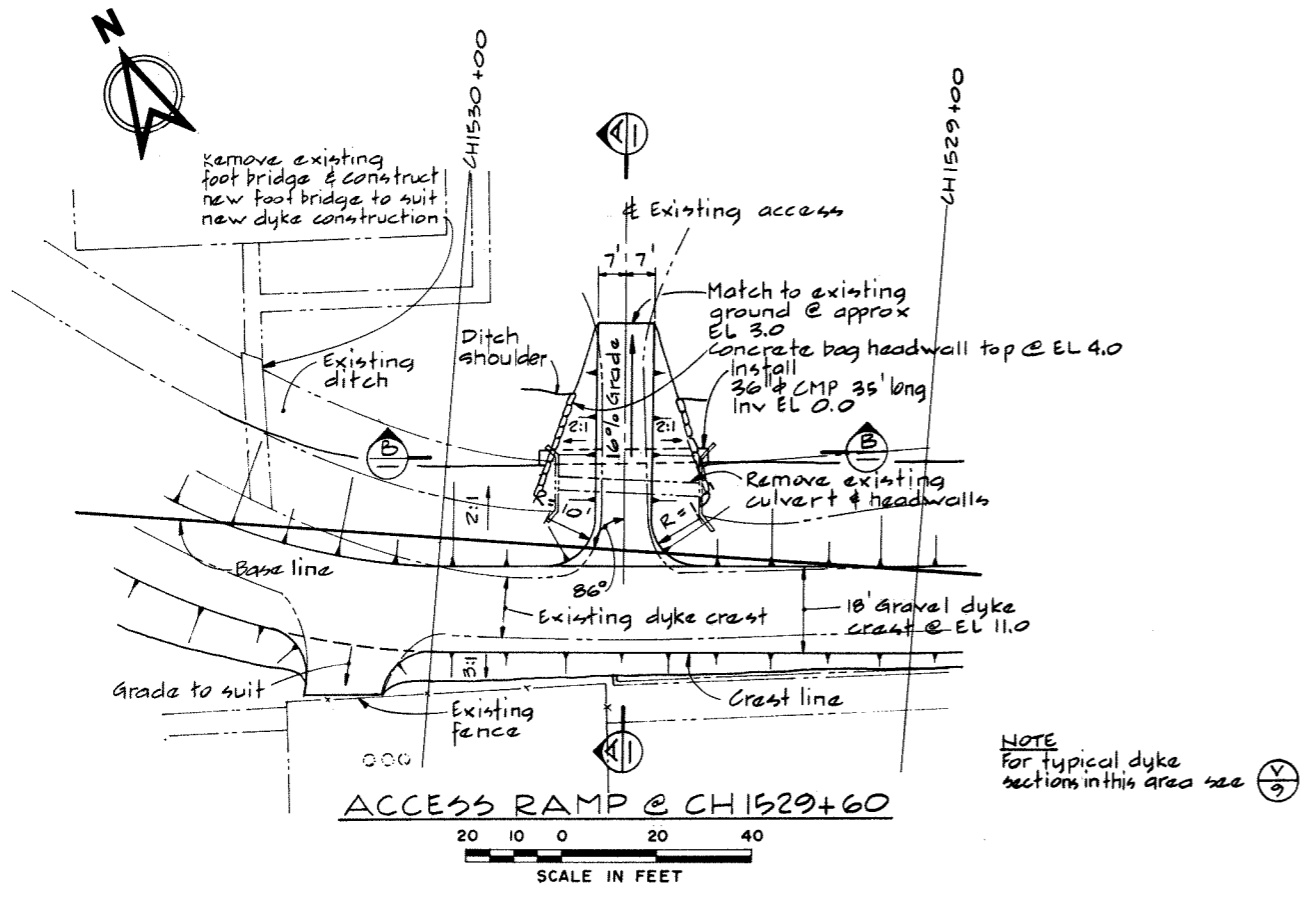
CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

APPROVED: *A. Revison A/B*
NO. BY REVISIONS DATE

RECOMMENDED: *P.N. Cameron*
PROJECT MANAGER
DATE: *July 25/77*
APPROVED: *Rob Fuller*
DIRECTOR
DATE: *Jul 22/77*

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. 16
MISCELLANEOUS DYKE DETAILS

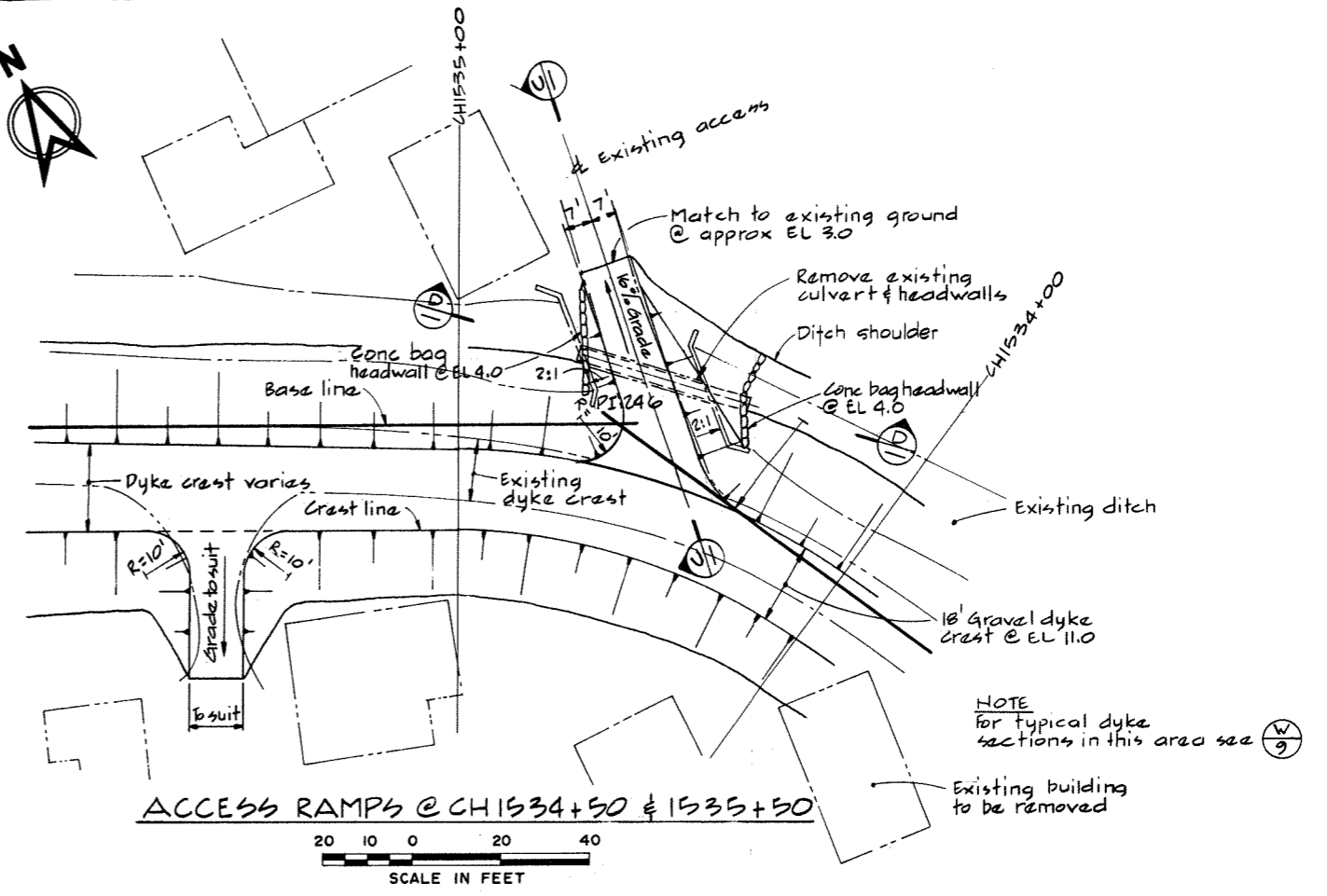
DESIGNED	DLC	SURVEYED	
DRAWN	Wn	DATE	
CHECKED	DLC	FILE NO.	0281550-C10-16
SCALE	AS SHOWN	DATE	Sept 1977
DWG. NO.	4795-16-17	SHEET	7 OF 10 SHEETS



ACCESS RAMP @ CH 1529+60

SCALE IN FEET

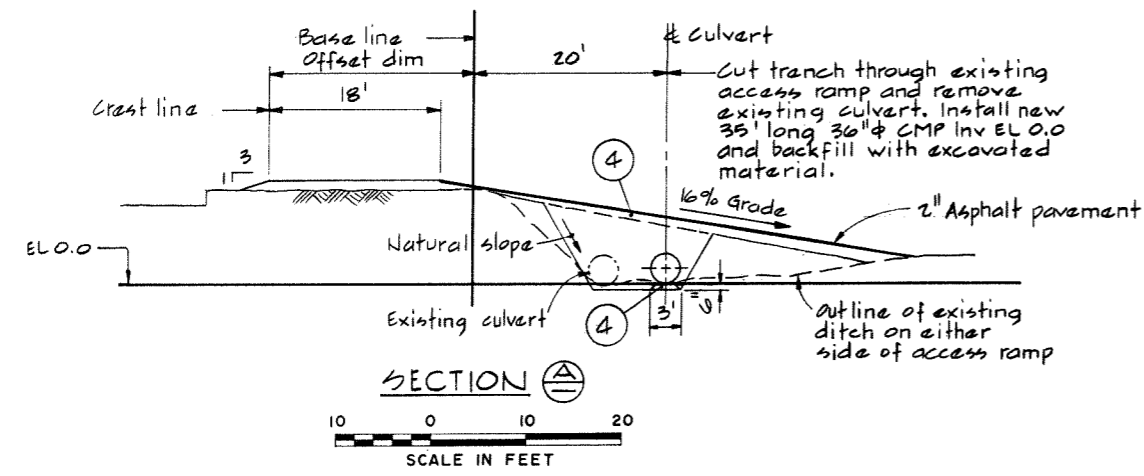
NOTE
For typical dyke sections in this area see (V 9)



ACCESS RAMPS @ CH 1534+50 & 1535+50

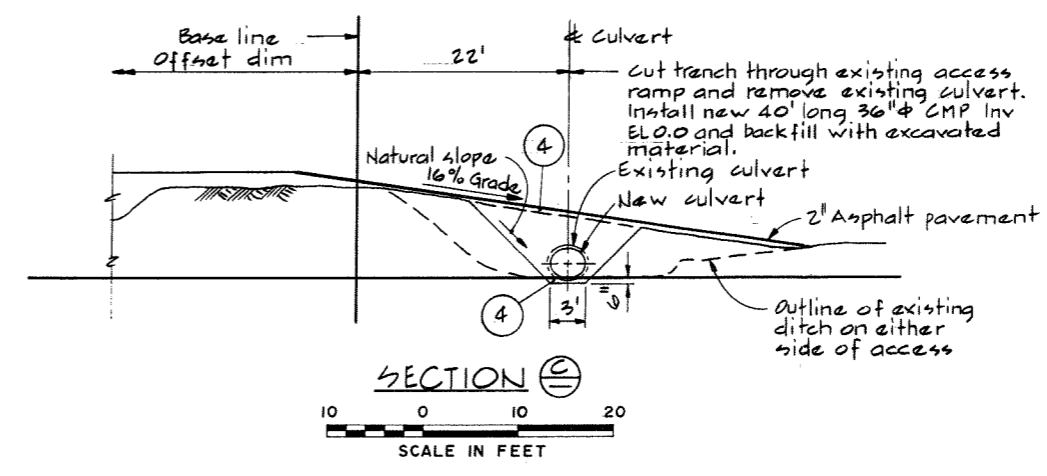
SCALE IN FEET

NOTE
For typical dyke sections in this area see (W 9)



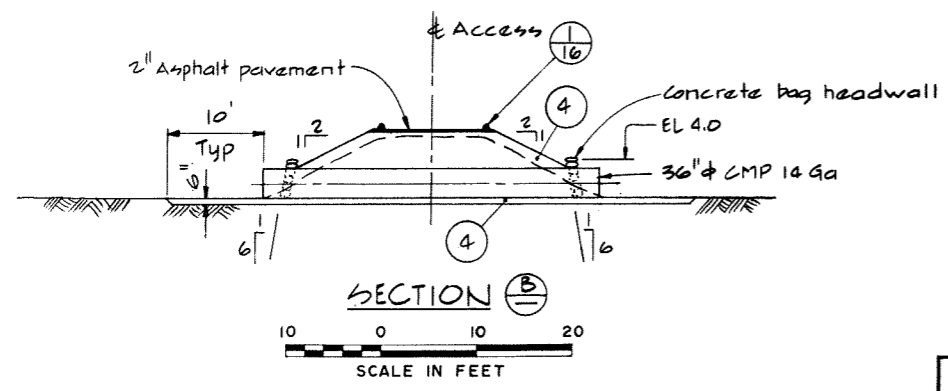
SECTION A

SCALE IN FEET



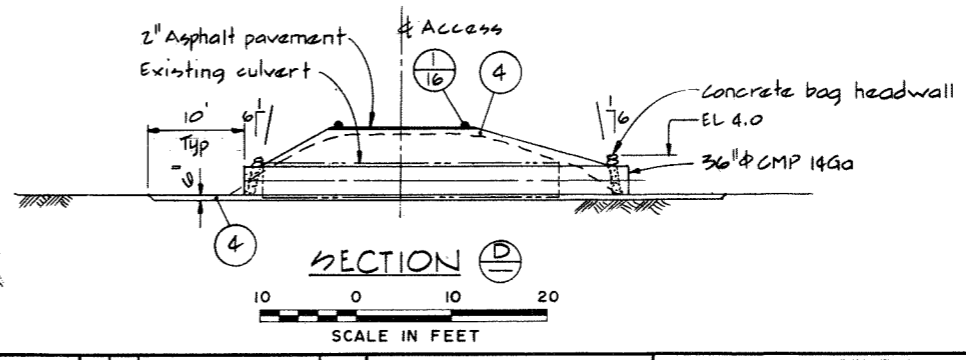
SECTION C

SCALE IN FEET



SECTION B

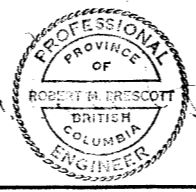
SCALE IN FEET



SECTION D

SCALE IN FEET

NOTES
For Notes Material Legend & Legend see 4795-16-11.



CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED	<i>F.N. Cameron</i>	PROJECT MANAGER
DATE	<i>July 25/77</i>	
APPROVED	<i>John Fuller</i>	DIRECTOR
DATE	<i>Jul 22/77</i>	

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

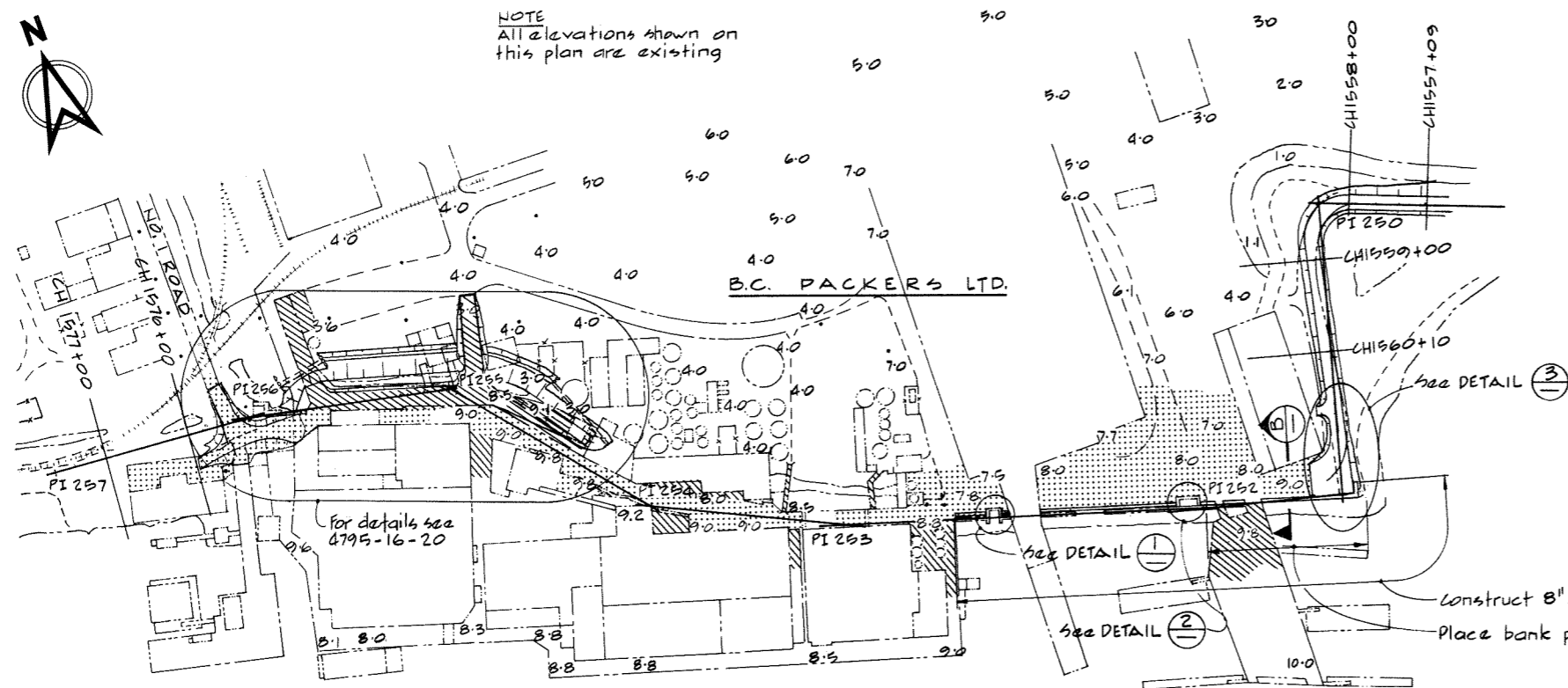
PROJECT NO. 3 THE TOWNSHIP OF RICHMOND
CONTRACT NO. 16
MISCELLANEOUS DYKE DETAILS

DESIGNED	DLC	SURVEYED	
DRAWN	AR	DATE	
CHECKED	DLC	FILE NO.	0281550-C10-16
SCALE	AS SHOWN	DATE	Sept 1977
DWG. NO.	4795-16-18	SHEET	8 OF 10 SHEETS

266414

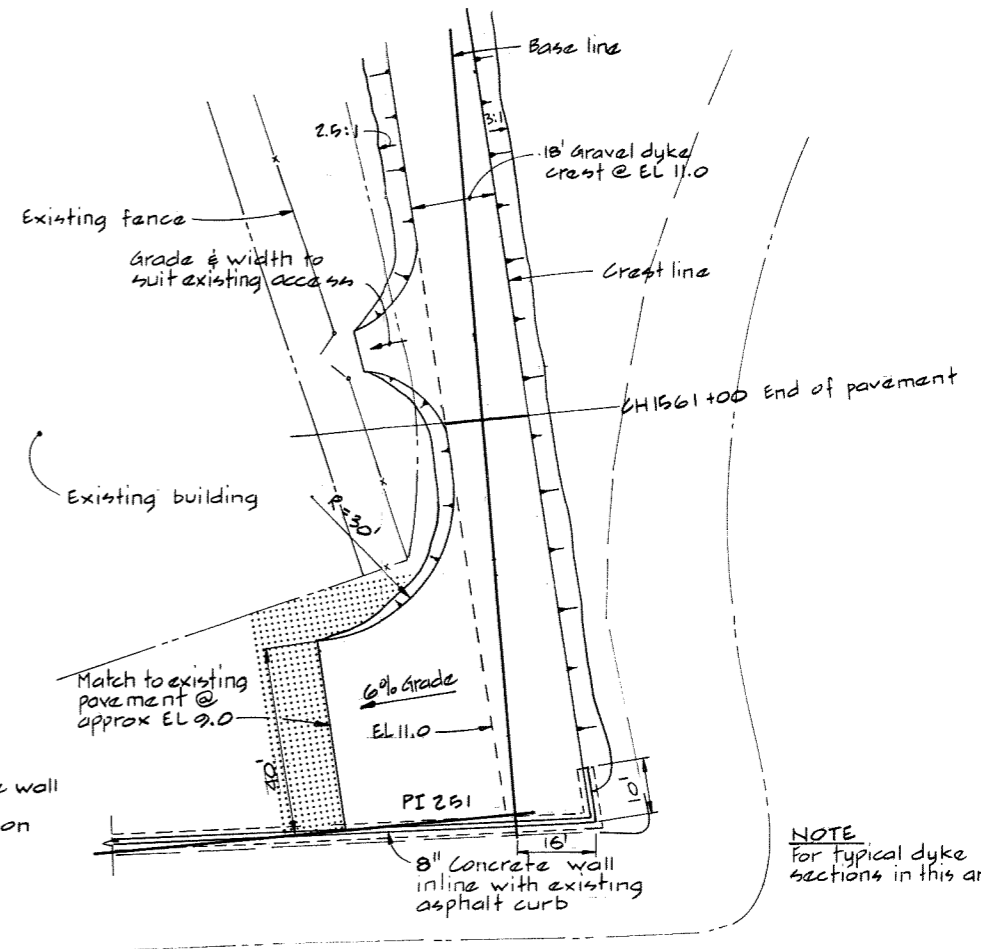


NOTE
All elevations shown on
this plan are existing



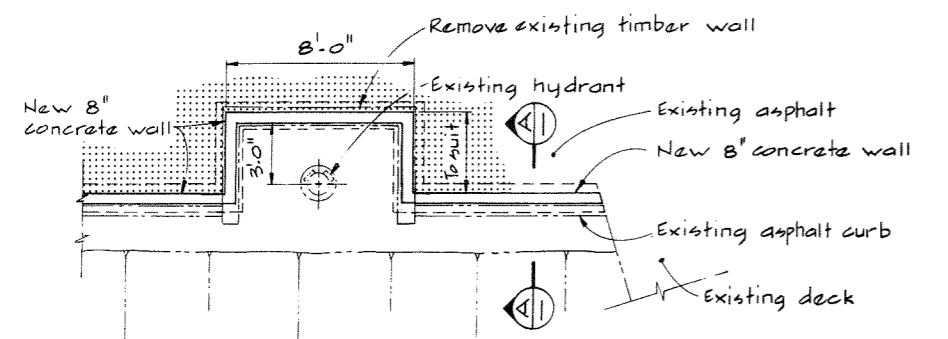
DYKE WORKS @ B.C. PACKERS

100 50 0 100 200
SCALE IN FEET

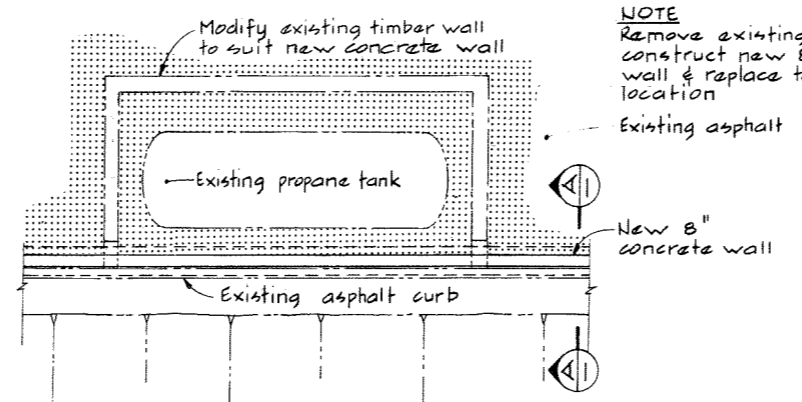


NOTE
For typical dyke
sections in this area see (F1/10)

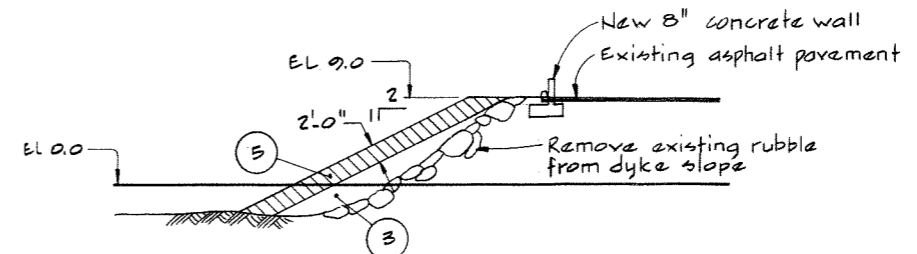
DETAIL (3)
SCALE IN FEET



DETAIL (1)
N.T.S.

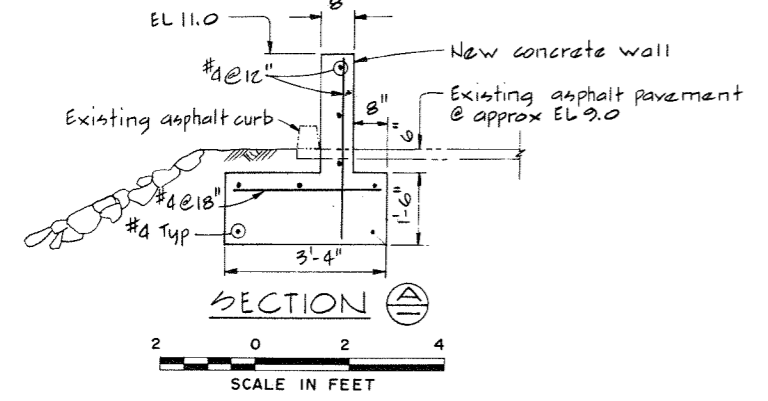


DETAIL (2)
N.T.S.



SECTION (B)
SCALE IN FEET

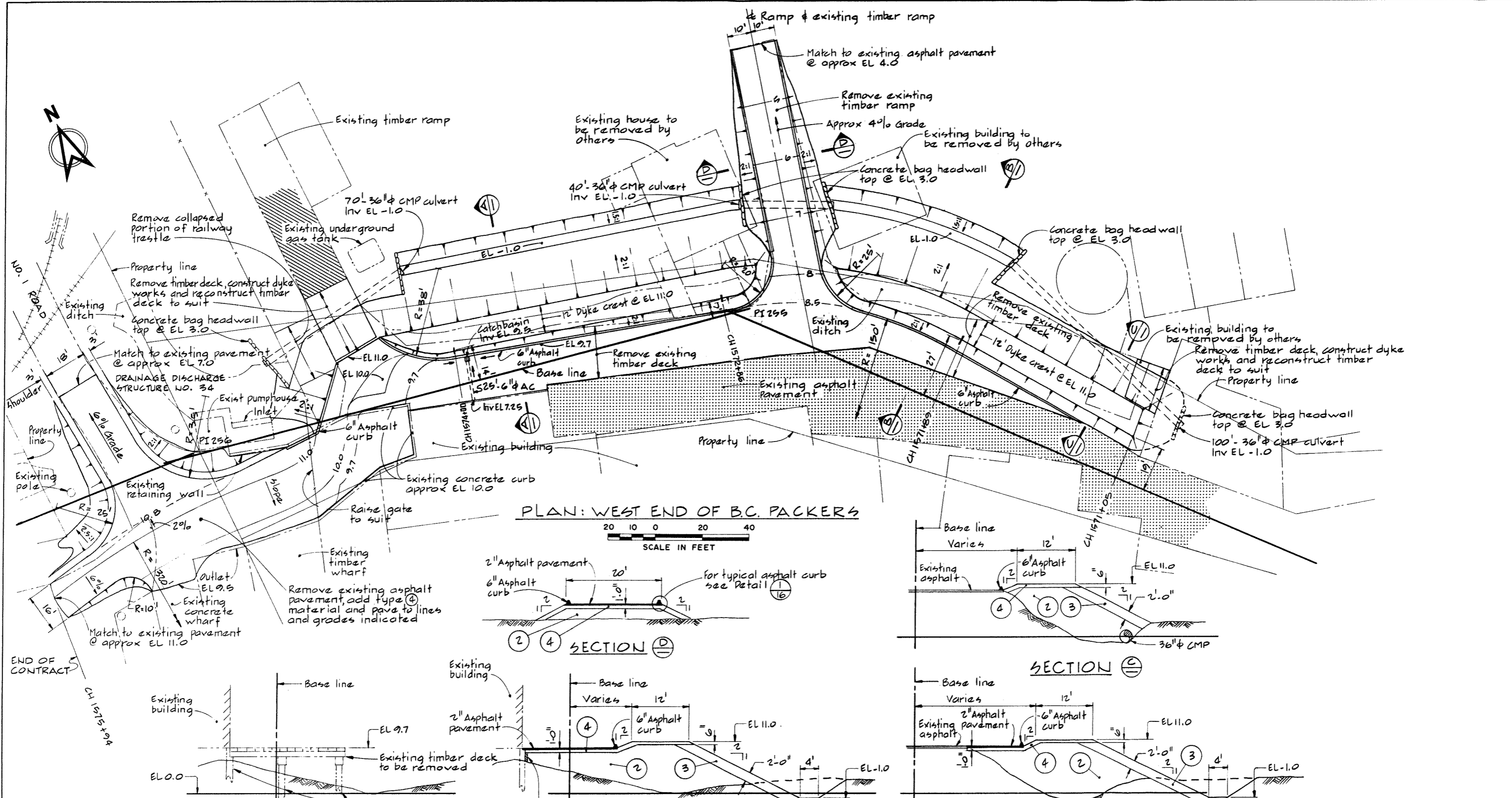
NOTES
For Notes, Material Legend & Legend
see 4795-16-11
- Denotes existing asphalt
- Denotes existing timber



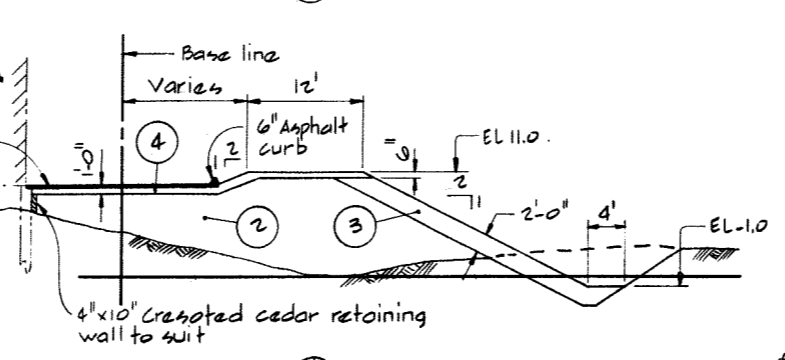
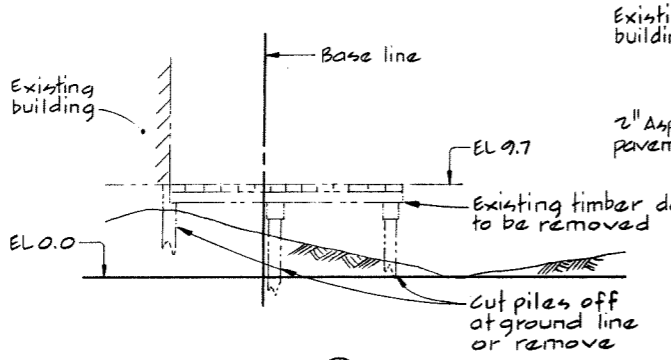
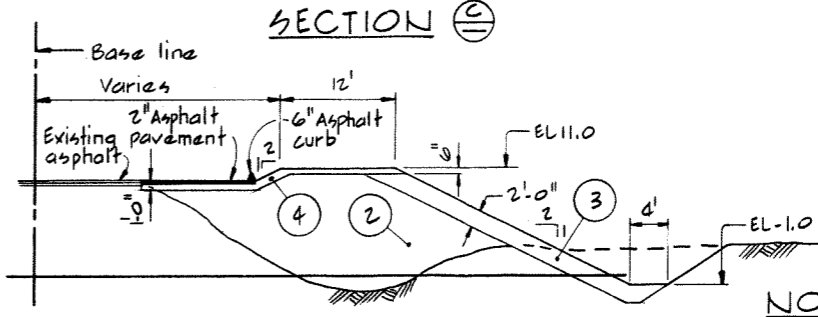
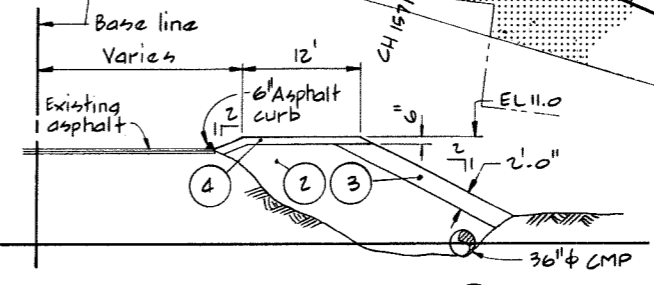
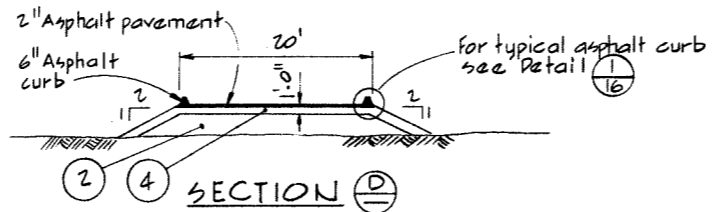
SECTION (A)
SCALE IN FEET

<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<p>RECOMMENDED: <i>B. H. Cameron</i> PROJECT MANAGER</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</i></p>	<p>SURVEYED</p>
	<p>DATE: <i>July 25/77</i></p>	<p>PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 MISCELLANEOUS DYKE DETAILS</p>	<p>DRAWN: <i>AR</i></p>	<p>DATE</p>
<p>APPROVED: <i>John Fuller</i> DIRECTOR</p>	<p>NO. BY: <i>A. Revisco</i></p>	<p>FILE NO. 0281550-C10-16</p>	<p>CHECKED: <i>DLC</i></p>	<p>DATE: <i>Sept 1977</i></p>
<p>DATE: <i>Jul 22/77</i></p>	<p>REVISIONS</p>	<p>SCALE: AS SHOWN</p>	<p>DWG. NO. 4795-16-19</p>	<p>SHEET 9 OF 10 SHEETS</p>

266 H15



PLAN: WEST END OF B.C. PACKERS



SECTION A
EXISTING CONDITIONS

SECTION A
NEW CONSTRUCTION

SECTION B



- NOTES**
- For Notes, Material Legend & Legend see 4795-16-11.
 - For B.C. Packers Plant services see 4795-16-31
 - ▨ - Denotes existing asphalt
 - ▩ - Denotes existing timber
- 266416



CBA ENGINEERING LTD.
CONSULTING ENGINEERS - VANCOUVER - CANADA

RECOMMENDED	PROJECT MANAGER
DATE July 15/77	
APPROVED [Signature]	DIRECTOR
DATE Jul 22/77	

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. 16
MISCELLANEOUS DYKE DETAILS

DESIGNED DLC	SURVEYED
DRAWN AR	DATE
CHECKED DLC	FILE NO. 0281550-C10-16
SCALE AS SHOWN	DATE Sept 1977
DWG. NO. 4795-16-20	SHEET 10 OF 10 SHEETS



BASE LINE DATA

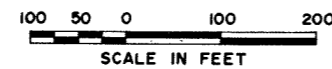
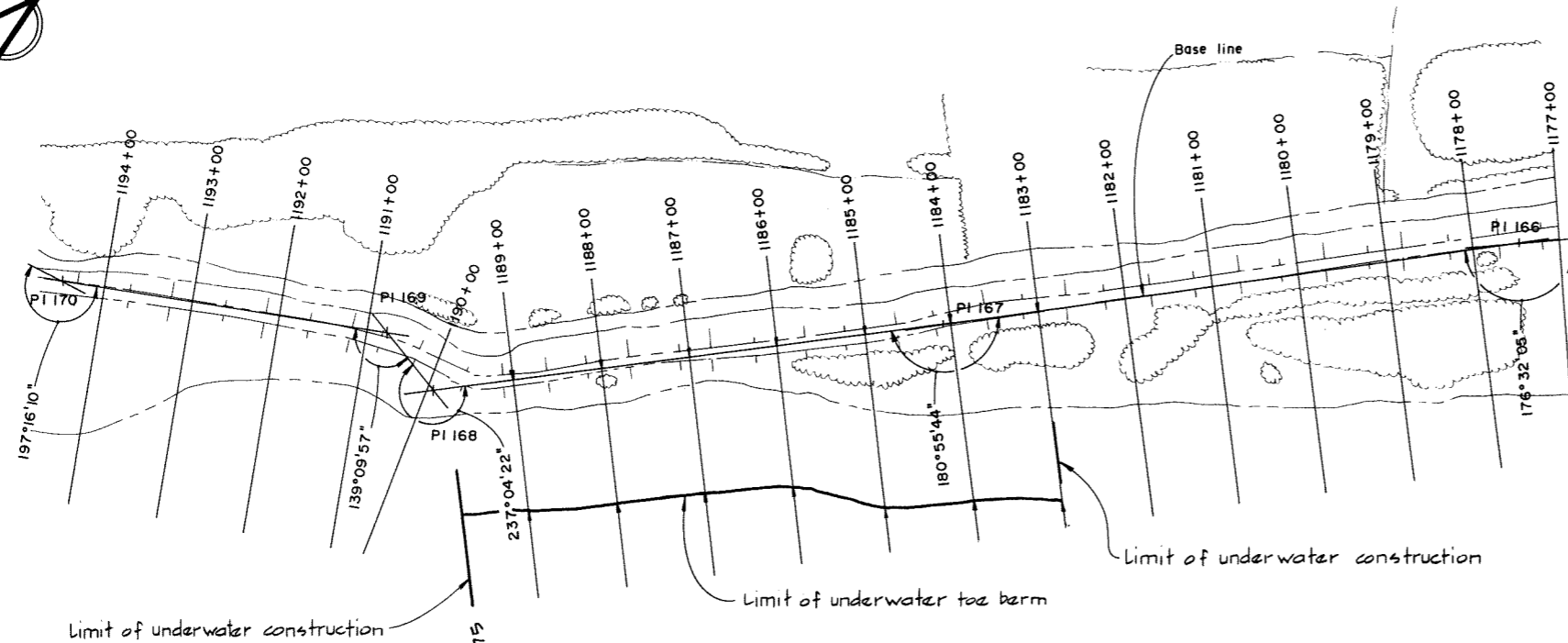
PI	BEARING	CHAINAGE	INTERVAL	CO-ORDINATES	
				SOUTH	EAST
165	S 36° 24' 00" W	1172 + 78.92	468.24	5 827.73	54 432.36
166	S 32° 56' 06" W	1177 + 47.16	660.64	6 204.55	54 154.55
167	S 33° 51' 50" W	1184 + 07.80	583.69	6 759.47	53 795.07
168	N 89° 03' 47" W	1189 + 91.49	86.06	7 244.07	53 469.88
169	S 50° 06' 09" W	1190 + 77.55	371.31	7 242.66	53 383.85
170		1194 + 48.86		7 480.77	53 099.04

NOTES

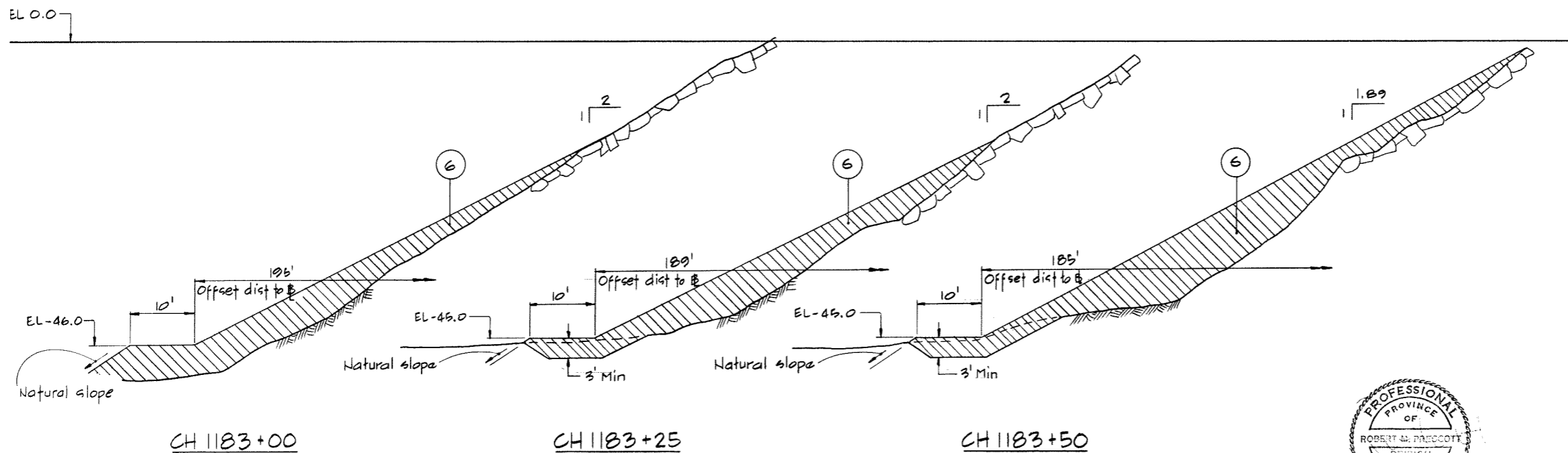
- Elevations refer to the Geodetic survey of Canada.
- The angle of offset is 90° to base line unless otherwise indicated.
- Rock rip-rap is to be as specified in the detailed specifications.
- The minimum acceptable thickness of rock rip-rap in areas of existing bank protection shall be 2½ ft provided that the bank is stable and the slope is not steeper than 1½ to 1.
- Where the thickness of existing bank protection is less than 2½ ft new rock shall be blended with the existing rock until a minimum thickness of 3 ft is achieved.
- Terminal parts of the work shall be constructed to blend with the existing bank.
- Remove rubble, asphalt, etc as directed.

LEGEND

- Existing ground surface.
- Existing riprap
- Riprap



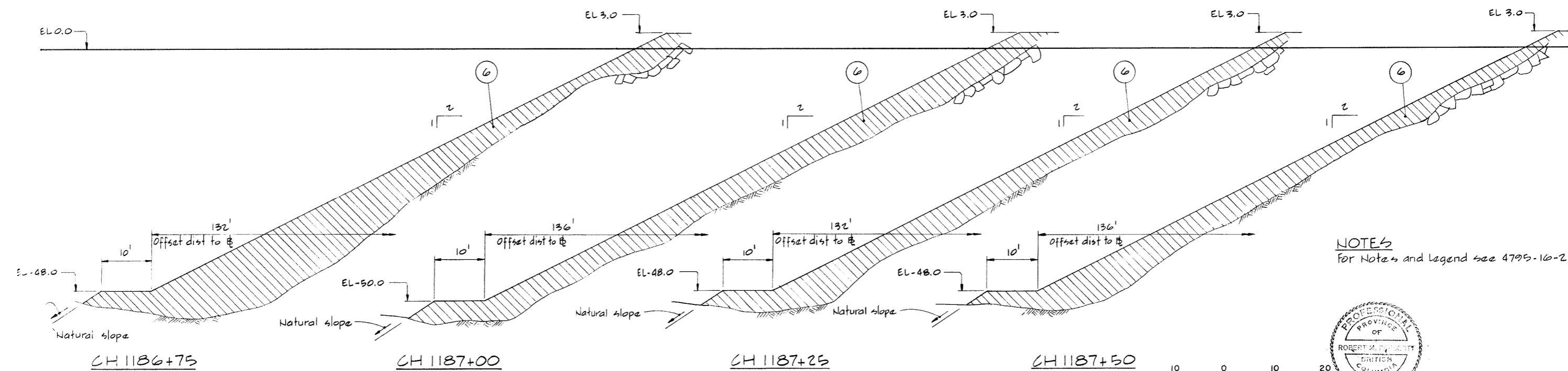
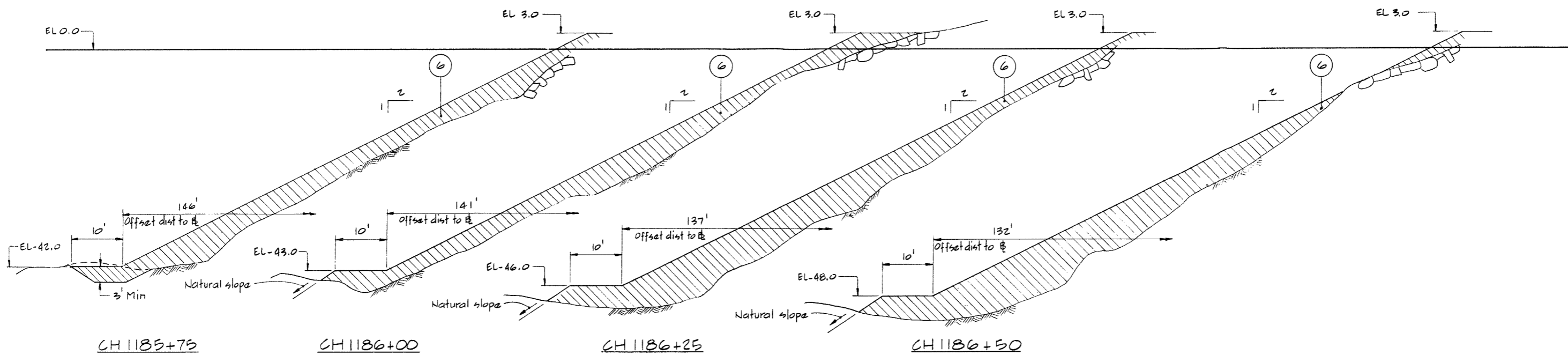
NOTE
Underwater repairs to bank protection to be constructed as a part of Contract No. 16. Dyke crest by others.



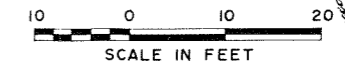
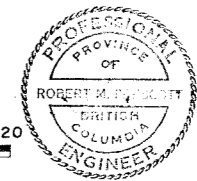
SEE A/C DRAWINGS
4795-16-32 TO 37

266417


<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	<p>RECOMMENDED <i>Rob Cameron</i> PROJECT MANAGER</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</i></p>	<p>SURVEYED</p>
	<p>DATE <i>July 25/77</i></p>		<p>DRAWN <i>Wn</i></p>	<p>FILE NO. 0281550-C10-16</p>
<p>APPROVED <i>W. J. Fuller</i> DIRECTOR</p>	<p>PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 BANK PROTECTION ALIGNMENT PLAN & SECTIONS</p>	<p>SCALE AS SHOWN</p>	<p>DATE <i>Sept 1977</i></p>	<p>DWG. NO. 4795-16-21</p>
<p>NO. BY REVISIONS DATE</p>	<p>DATE <i>Jul 22/77</i></p>	<p>DESIGN</p>	<p>SHEET OF SHEETS</p>	

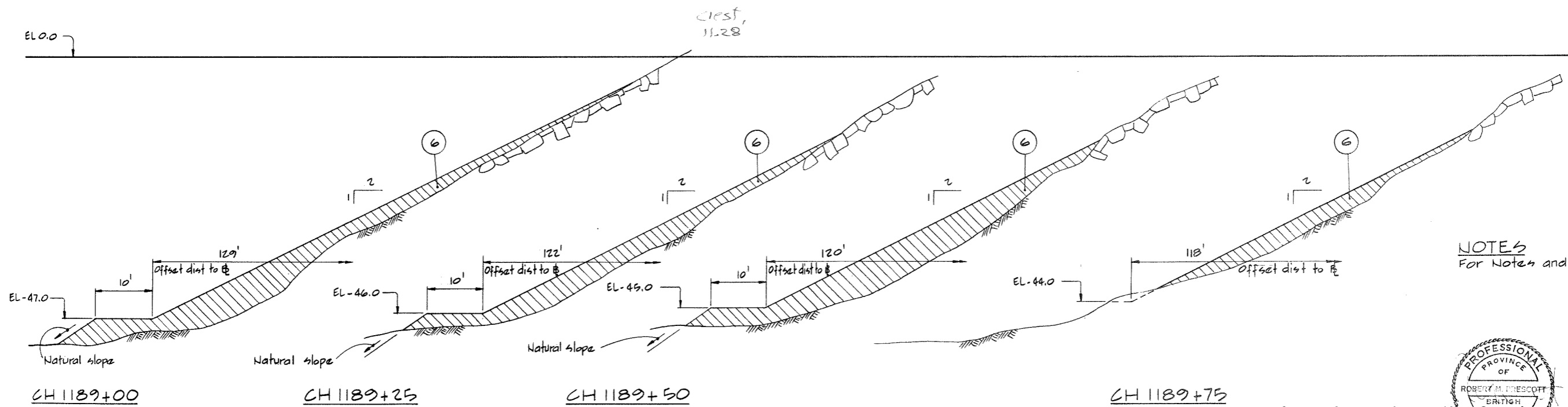
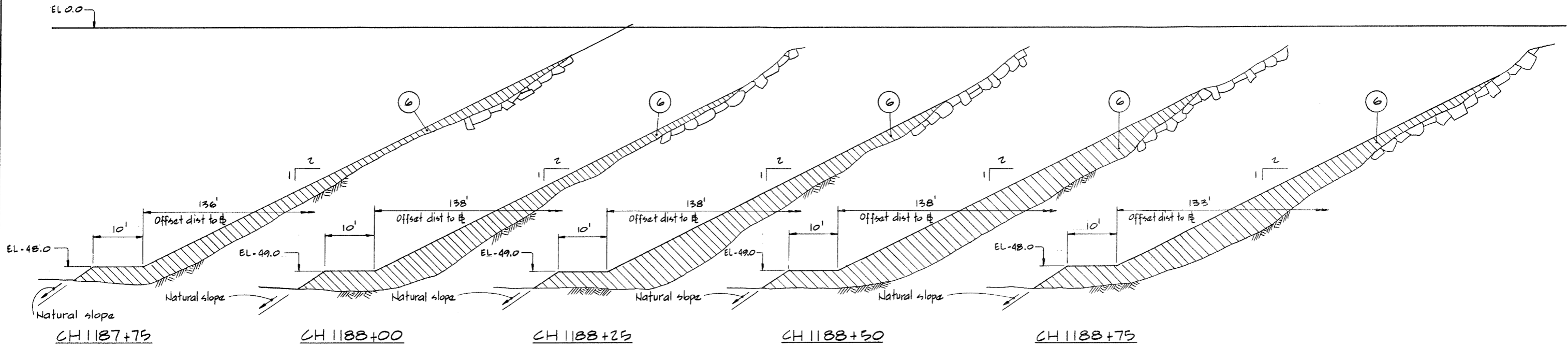


NOTES
For Notes and Legend see 4795-16-21

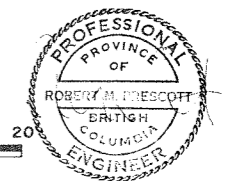
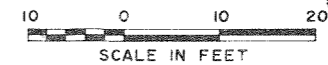



266 419

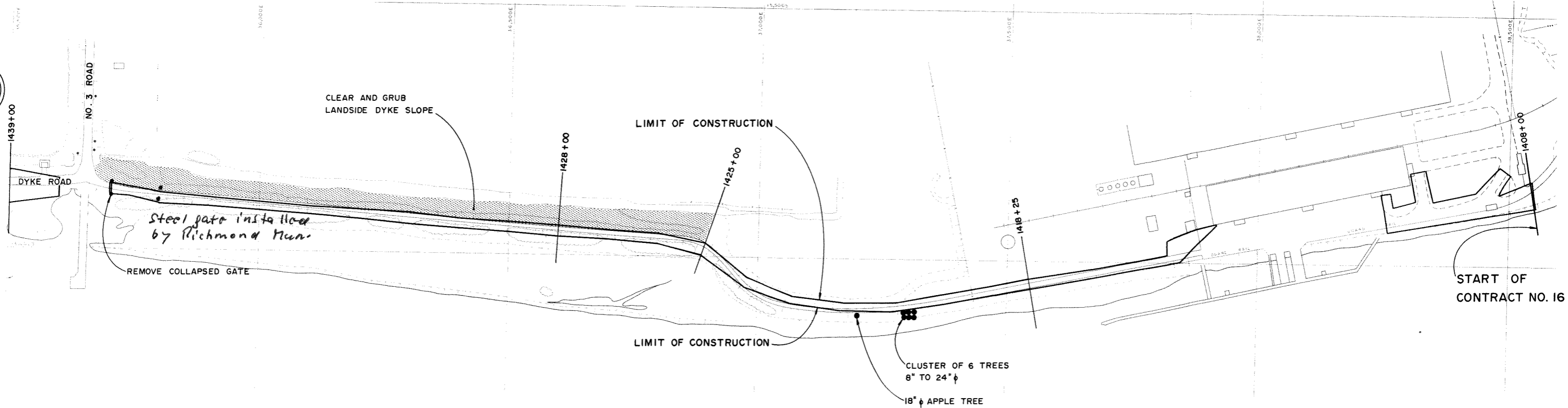
 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO. BY REVISIONS DATE	RECOMMENDED <i>R. M. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC</i>	SURVEYED
		DATE <i>July 25/77</i>		DRAWN <i>ar</i>	CHECKED <i>DLC</i>
		APPROVED <i>[Signature]</i> DIRECTOR	PROJECT NO. 3 THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 BANK PROTECTION SECTIONS <i>Design</i>	SCALE <i>AS SHOWN</i>	DATE <i>Sept 1977</i>
		DATE <i>Jul 22/77</i>		DWG. NO. <i>4795-16-23</i>	SHEET <i>2</i> OF <i>3</i> SHEETS



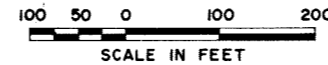
NOTES
For Notes and legend see 4795-16-21



 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO.	BY	REVISIONS	DATE	RECOMMENDED <i>P. H. Cameron</i> PROJECT MANAGER DATE <i>July 25/77</i>	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. 16 BANK PROTECTION SECTIONS <i>Des 182</i>	DESIGNED <i>DLC</i>	SURVEYED	
					APPROVED <i>John Fuller</i> DIRECTOR DATE <i>Jul 22/77</i>		DRAWN <i>AR</i>	DATE	
							CHECKED <i>DLC</i> SCALE AS SHOWN DWG. NO. 4795-16-24	FILE NO. 0281550-C10-16	DATE <i>Sept 1977</i>
								SHEET 3 OF 3 SHEETS	

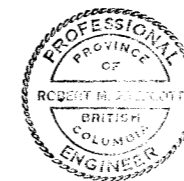


SOUTH ARM FRASER RIVER




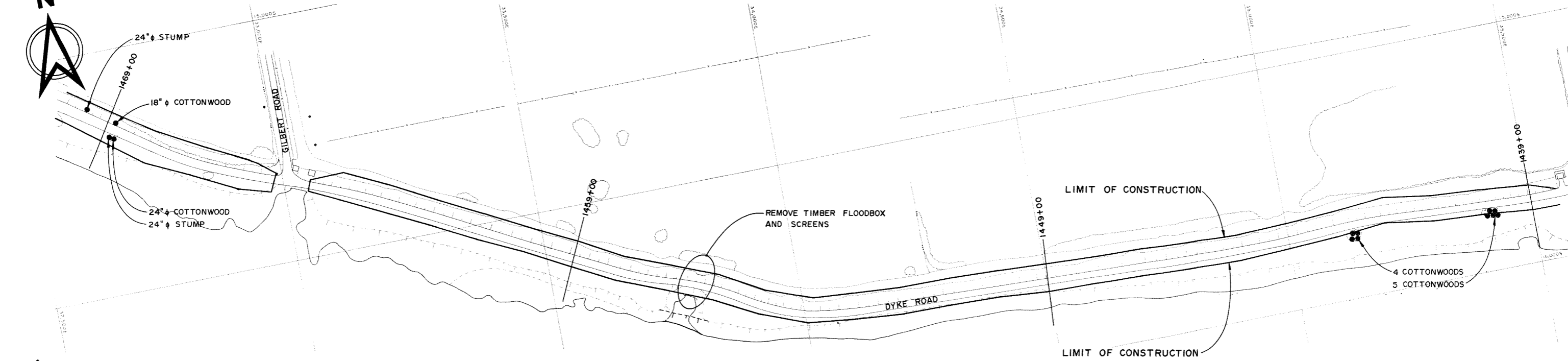
LEGEND

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

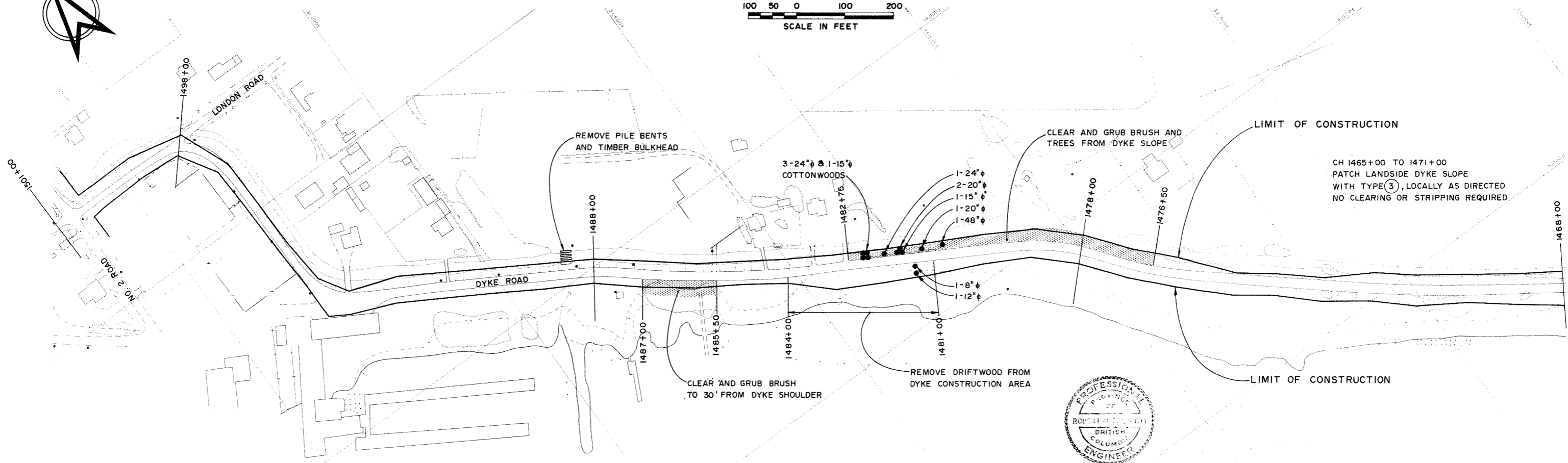
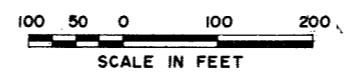


266421

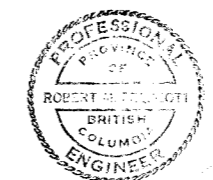
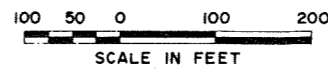
 CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA	NO. BY A <i>Revisca A/D</i>	REVISIONS DATE	RECOMMENDED <i>R. N. Cameron</i> PROJECT MANAGER	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC & EMH</i>	SURVEYED DATE
			DATE <i>July 25/77</i>		DRAWN <i>Wn</i>	FILE NO. 0281550-C10-16
			APPROVED <i>John Fuller</i> for DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TREE REMOVAL, CLEARING & GRUBBING	CHECKED <i>DLC</i>	DATE <i>Sept 1977</i>
			DATE <i>Jul 22/77</i>		SCALE <i>AS SHOWN</i>	DWG. NO. 4795-16-25



SOUTH ARM FRASER RIVER

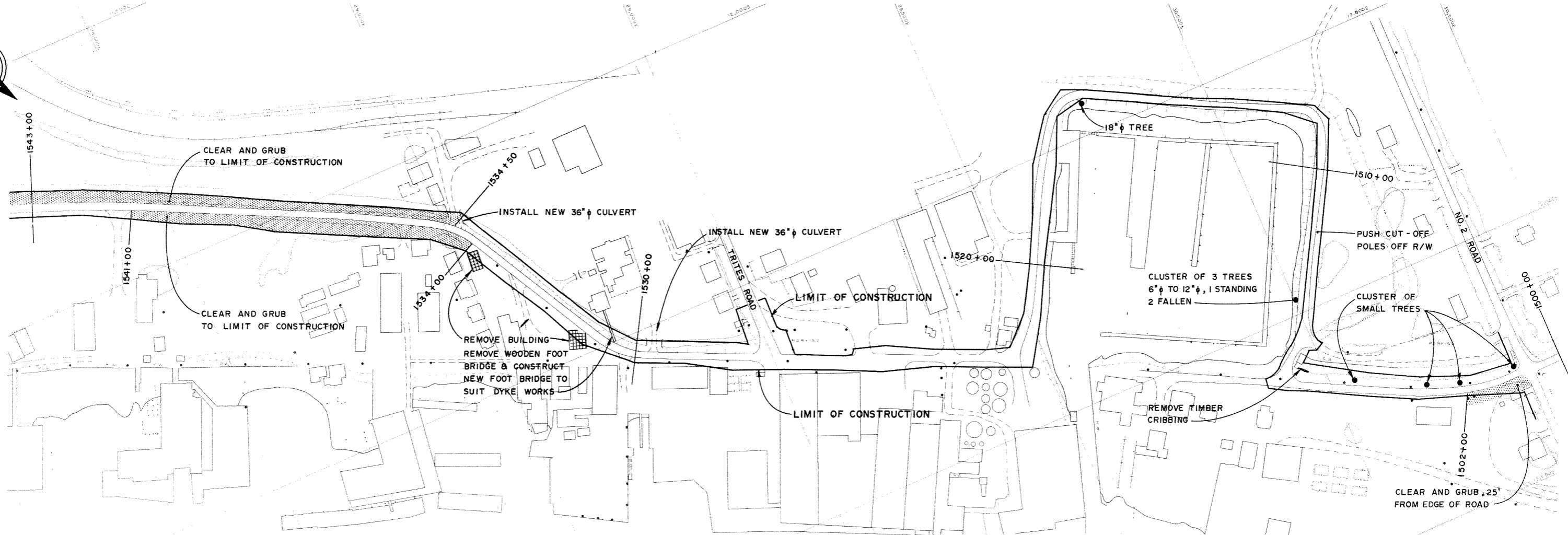


SOUTH ARM FRASER RIVER

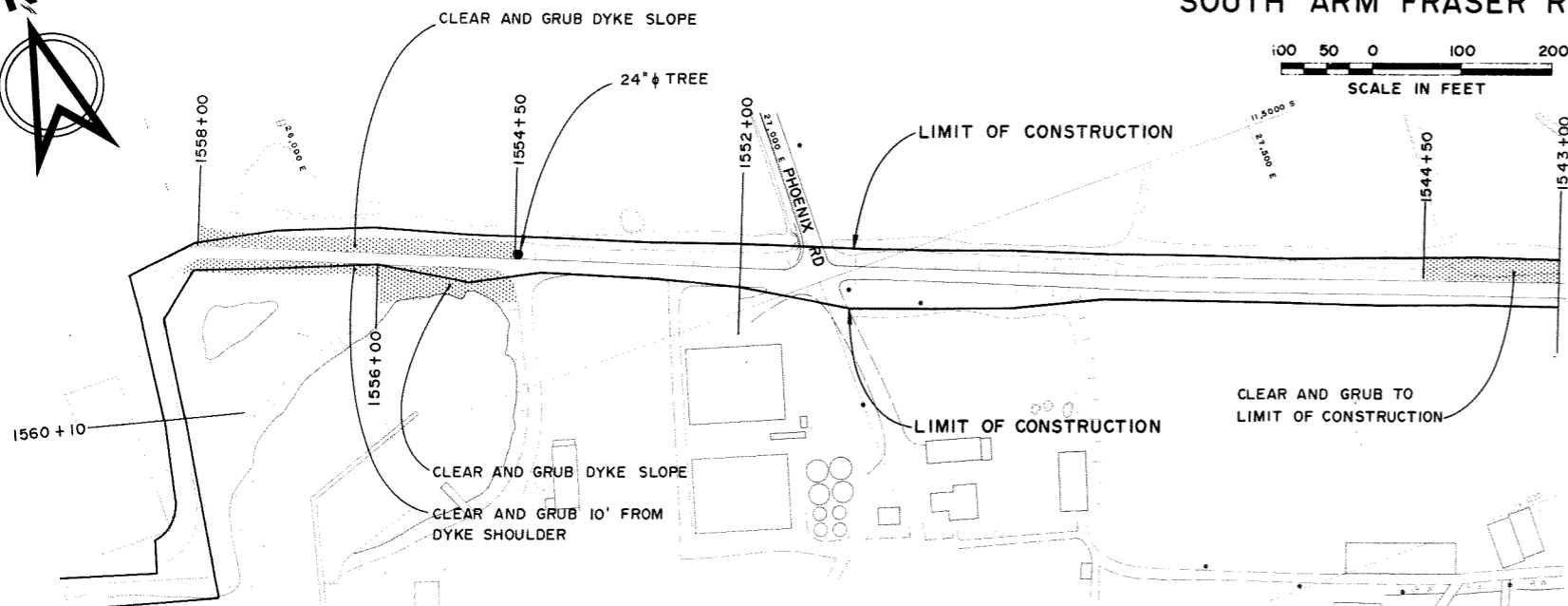
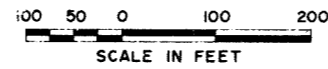


NOTES
 - For Note & Legend see 4795-16-25
 266 422

NO. BY	REVISIONS	DATE	RECOMMENDED <i>Robert H. Doughty</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA - BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC EEMH</i>	SURVEYED
			DATE <i>July 25/77</i>		PROJECT MANAGER	DRAWN <i>Wn</i>
NO. BY	REVISIONS	DATE	APPROVED <i>John Fuller</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TREE REMOVAL, CLEARING & GRUBBING	CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-16</i>
			DATE <i>Jul 22/77</i>		DIRECTOR	SCALE <i>AS SHOWN</i>
					DWG. NO. <i>4795-16-26</i>	SHEET <i>2</i> OF <i>3</i> SHEETS

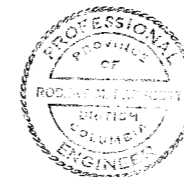
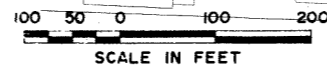


SOUTH ARM FRASER RIVER



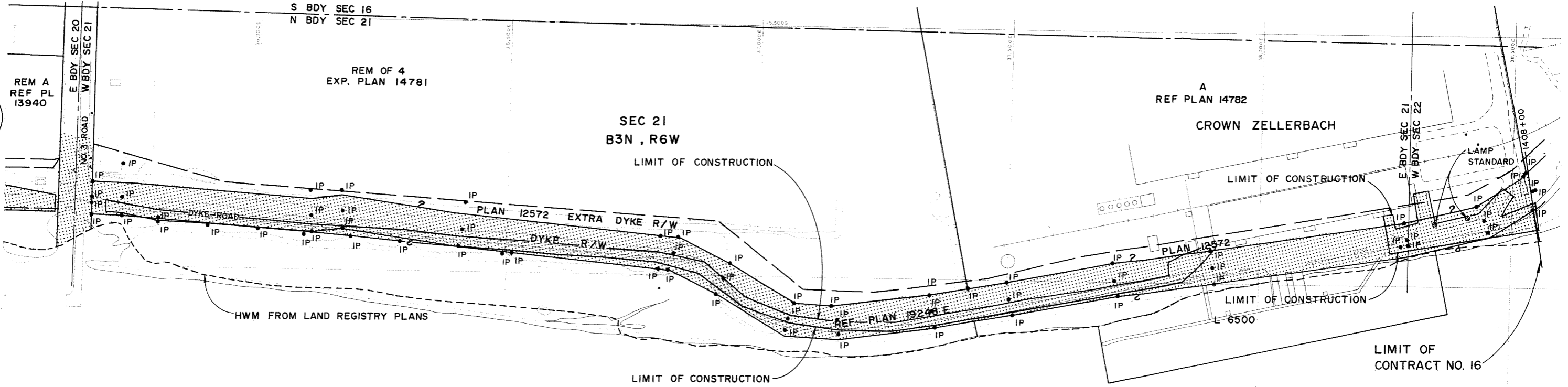
NOTE
 Clear & grub area of new dyke construction @ west end of B.C. Packers

SOUTH ARM FRASER RIVER



NOTES
 For Notes & Legend see 4795-16-25
 266423

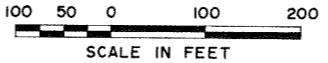
NO. BY	REVISIONS	DATE	RECOMMENDED <i>R.K. Cameron</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED <i>DLC & SMH</i>	SURVEYED
			DATE <i>July 20/77</i>		DRAWN <i>Wn</i>	DATE
NO. BY	REVISIONS	DATE	APPROVED <i>W.H. Miller</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 TREE REMOVAL, CLEARING & GRUBBING	CHECKED <i>DLC</i>	FILE NO. <i>0281550-C10-16</i>
			DATE <i>Jul 22/77</i>		DIRECTOR	SCALE <i>AS SHOWN</i>
					DWG. NO. <i>4795-16-27</i>	SHEET <i>3</i> OF <i>3</i> SHEETS



NO. 2 ROAD TO SW CORNER OF BOAT BASIN
 NO. 2 ROAD EAST ALONG DYKE ROAD
 PARAMOUNT CANNERY WEST ALONG DYKE ROAD
 NO. 1 ROAD

POLE IDENTIFICATION NUMBER & OWNER	WORK REQUIRED
181 046	JOINT N
168 046	JOINT N
153 046	JOINT N
153 036	JOINT N
153 027	JOINT N
153 010	JOINT N
153 004	JOINT N
141 002	JOINT N
130 604	JOINT N
121 599	JOINT N
108 591	JOINT N
095 583	JOINT N
185 046	B.C. TEL N
194 046	JOINT N
195 043	JOINT N
206 048	JOINT N
207 042	JOINT N
215 049	JOINT N
229 054	JOINT N
241 060	JOINT N
252 067	JOINT N
264 074	JOINT N
289 100	B.C. HYDRO N
290 102	B.C. HYDRO N
291 104	B.C. HYDRO N
282 104	JOINT N
394 097	JOINT N
322 104	B.C. HYDRO N
327 105	JOINT N
333 108	JOINT N
344 111	JOINT N
353 109	B.C. HYDRO N
362 121	JOINT RR
NO TAG	JOINT RR
369 127	JOINT RR
323 259	B.C. HYDRO N
328 252	B.C. HYDRO N
324 252	B.C. HYDRO N
NO TAG	B.C. HYDRO N
331 246	B.C. HYDRO N

SOUTH ARM FRASER RIVER



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

[Stippled area] Right-of-way which province will make available to contractor.

SURVEY LEGEND

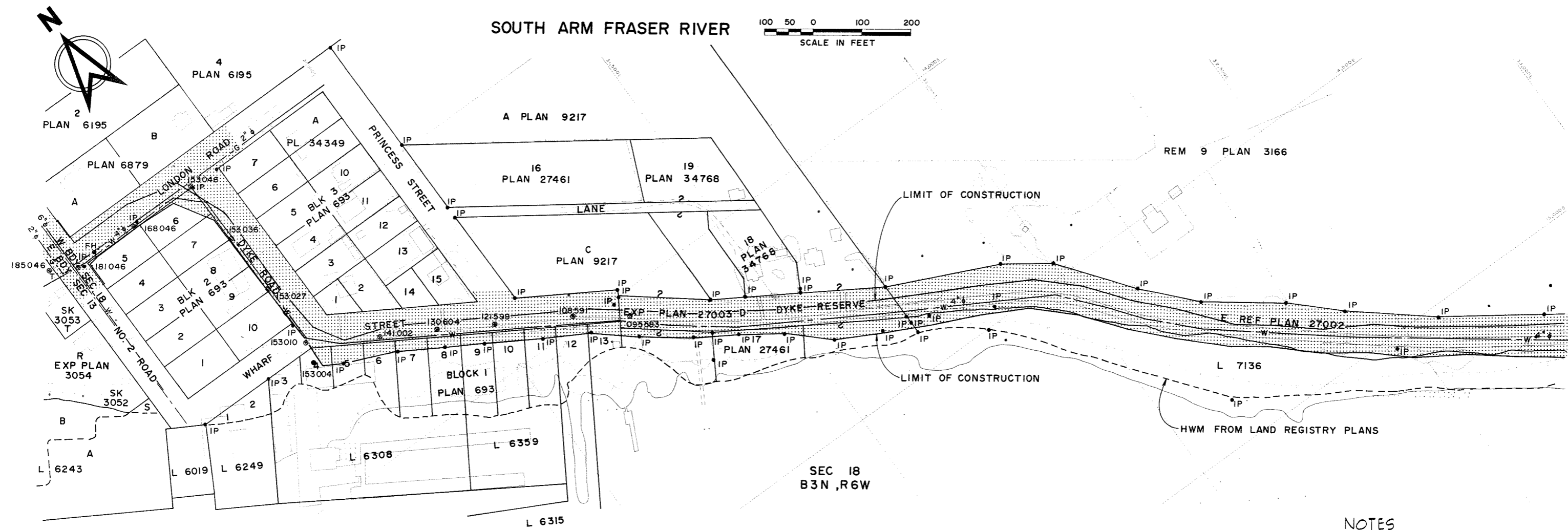
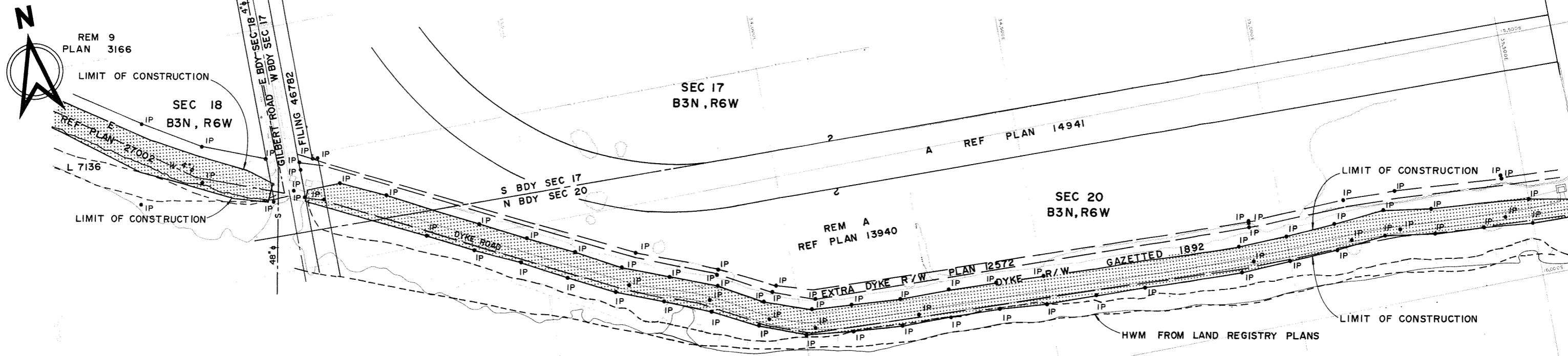
- IP Iron pin found or set during legal survey by Matoon, Peck & plug set) Toplis Surveyors & Engineers

SERVICES LEGEND

- W Watermain
- G Gas main
- S Sanitary sewer
- D Storm Sewer
- UE Underground electrical cables
- T Underground Tel cables
- H Underground Hydro cables
- 053 396 Hydro pole & pole no.
- 066 573 Joint pole with Hydro & B.C. Tel services & pole no.
- T 093 319 B.C. Tel pole & pole no.
- W FH Fire hydrant
- MH Manhole

266 424

<p>CBA ENGINEERING LTD. CONSULTING ENGINEERS - VANCOUVER - CANADA</p>	RECOMMENDED <i>P. H. Cameron</i> PROJECT MANAGER DATE <i>July 25/77</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>JLC</i> SCALE <i>AS SHOWN</i> DWG. NO. <i>4795-16-28</i>	SURVEYED _____ DATE _____ FILE NO. <i>0281550-C10-16</i> DATE <i>Sept 1977</i>
	APPROVED <i>[Signature]</i> DIRECTOR DATE <i>Jul 22/77</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	SHEET 1 OF 4 SHEETS	

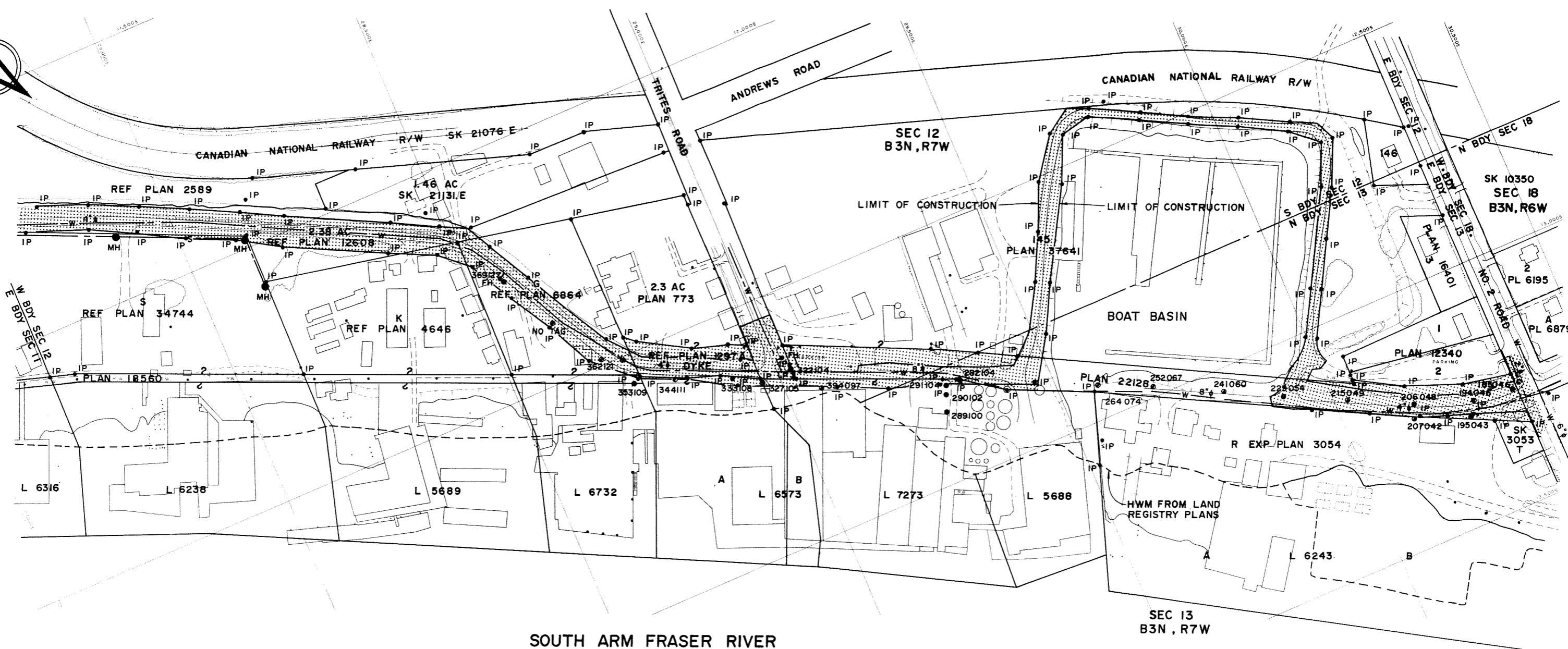


SOUTH ARM FRASER RIVER



NOTES
 For Notes & Legend see 4795-16-28
 266 425

NO.	BY	REVISIONS	DATE	RECOMMENDED <i>T. J. ...</i>	BRITISH COLUMBIA MINISTRY OF THE ENVIRONMENT WATER INVESTIGATIONS BRANCH CANADA — BRITISH COLUMBIA FRASER RIVER FLOOD CONTROL 1968 AGREEMENT	DESIGNED	SURVEYED
				PROJECT MANAGER		DATE	DATE
				APPROVED <i>M. Fuller</i>	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	CHECKED <i>DLC</i>	FILE NO. 0281550-C10-16
				DIRECTOR		SCALE AS SHOWN	DATE Sept 1977
				DATE Jul 22/77		DWG. NO. 4795-16-29	SHEET 2 OF 4 SHEETS

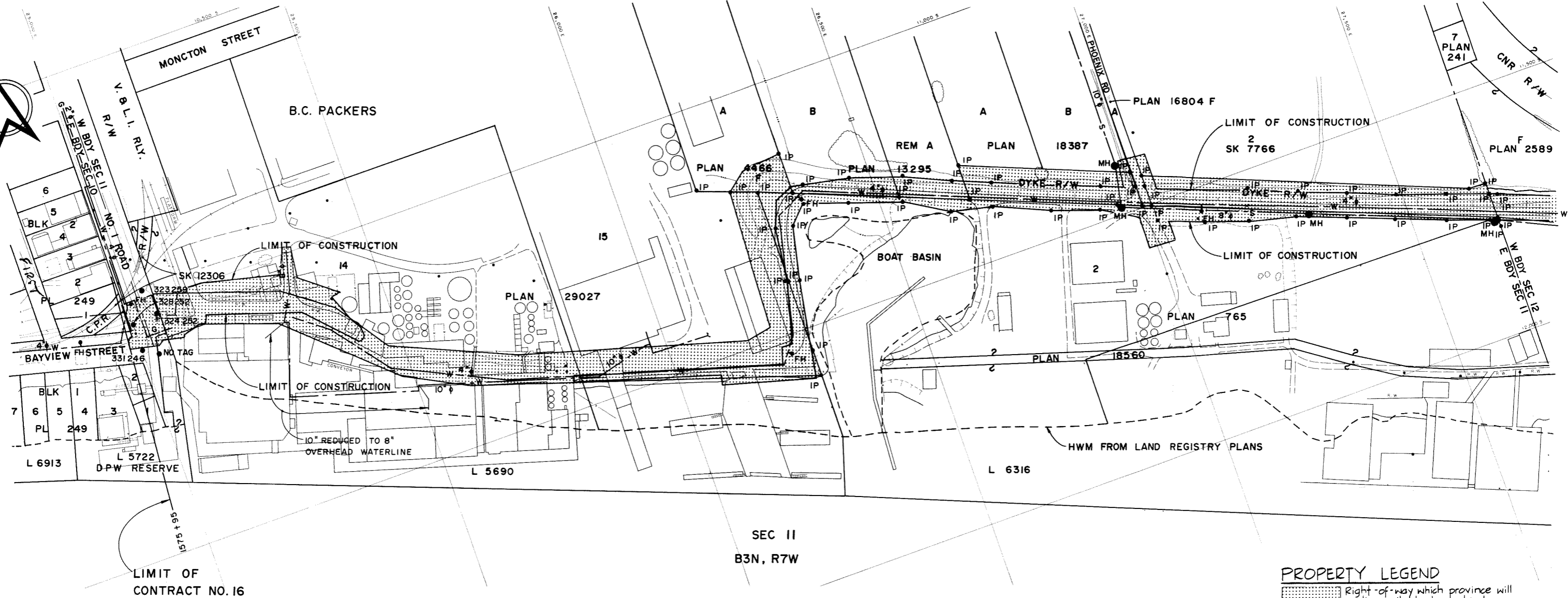


SOUTH ARM FRASER RIVER



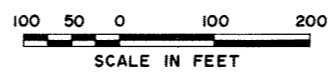
NOTES
 For Notes & Legend see 4795-16-28
 266 426

		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>July 25/77</i>		DRAWN <i>Wn</i>	DATE
		APPROVED <i>[Signature]</i> DIRECTOR	PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	CHECKED <i>DLC</i>	FILE NO. <i>0281550 - C10-16</i>
		DATE <i>Jul 22/77</i>		SCALE <i>AS SHOWN</i>	DATE <i>Sept 1977</i>
NO.	BY	REVISIONS	DATE	DWG. NO. <i>4795-16-30</i>	SHEET <i>3</i> OF <i>4</i> SHEETS



SEC II
B3N, R7W

SOUTH ARM FRASER RIVER



PROPERTY LEGEND

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

SURVEY LEGEND

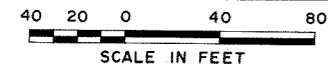
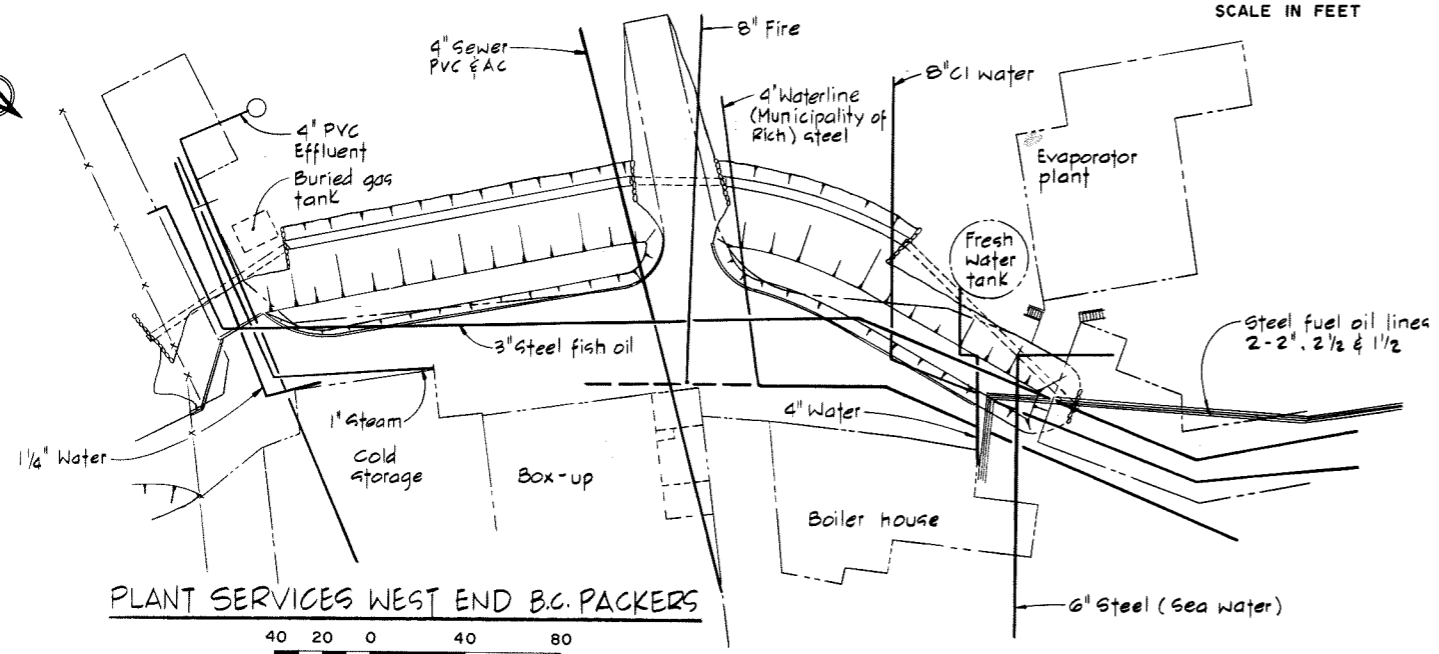
- IP Iron pin found or set during
- LP (Lead) legal survey by Matson, Peck & Toplis surveyors & Engineers

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
- 053 396 Hydro pole & pole no.
- 066 573 Joint pole with Hydro & B.c. Tel services & pole no.
- 093 319 B.c. Tel pole & pole no.
- W — Fire hydrant
- MH Manhole

NOTES

For Notes & Legend see 4795-16-28
266 427



NO.	BY	REVISIONS	DATE	RECOMMENDED <i>P.N. 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>July 25/77</i>		DRAWN <i>Wn</i>	DATE
APPROVED <i>W. Fuller</i> DIRECTOR				PROJECT NO. 3 - THE TOWNSHIP OF RICHMOND CONTRACT NO. 16 PLAN SHOWING LOCATION OF DYKE RIGHT-OF-WAY EXISTING SURVEY MARKERS & UTILITIES	CHECKED <i>DLC</i>	FILE NO. 0281550-C10-16	DATE Sept 1977
DATE <i>Jul 22/77</i>				DWG. NO. 4795-16-31	SHEET 4 OF 4 SHEETS		