

LEGEND

- H.W.M. DEC 26, 1980 STORM (REF. 1)
- ⊙ H.W.M. DEC 26, 1980 STORM (INFERRED W.T.W.)
- THALWEG PROFILE
- 1:200 YEAR PEAK INSTANTANEOUS PROFILE
- DYKE CREST PROFILE
- CROSS SECTIONS (X S) (REF. 2)
- --- DRAIN AND CULVERT
- PEAK WATER LEVELS - JAN 4, 1984
- ⊙ BM PERMANENT BENCHMARKS ESTABLISHED BY WMB FOR CONSTRUCTION, G.S.C. DATUM. STAGE READING GAUGE PLATES SET BY WMB NOV 1984
- ▴ DYKE
- 55.5 DYKE DESIGN CREST GRADE, IN METRES
- GROUNDLINE

100m 0 100 200 300 400 500m
 SCALE 1:5000

REFERENCES			REVISIONS		
DWG No	DESCRIPTION	DATE	No	DESCRIPTION	DATE
4918-P76-69-6	DEC 26, 1980 STORM	MAY 1981	A	SPECIFIC GLENHALLA DYKE CREST GRADES XS 15, 16, 17 & 18	SEPT 83
5350-0	SURVEY PROJECT - 82-RPP-1	JULY 1982	B	AS CONSTRUCTED - DRAWS & PEAK W.L'S - JAN 4, 1984	AUG 1984
B.C.78101	AIR PHOTOS	JULY 1978	C	COMPLETED RIVER PARADE AND GLENHALLA SECTOR AS CONSTRUCTED DETAILS ADDED LOCATIONS OF STAGE READING GAUGE PLATES.	NOV 1984

SURVEYED	T. DIGNAN
DATE	1981-1982
DESIGNED	WOODS/TALBOT
CHECKED	
DATE	AUG 1984
DRAWN	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>
DATE	AUG 1984
ENGINEER	<i>[Signature]</i>
DATE	JUNE 10 '85

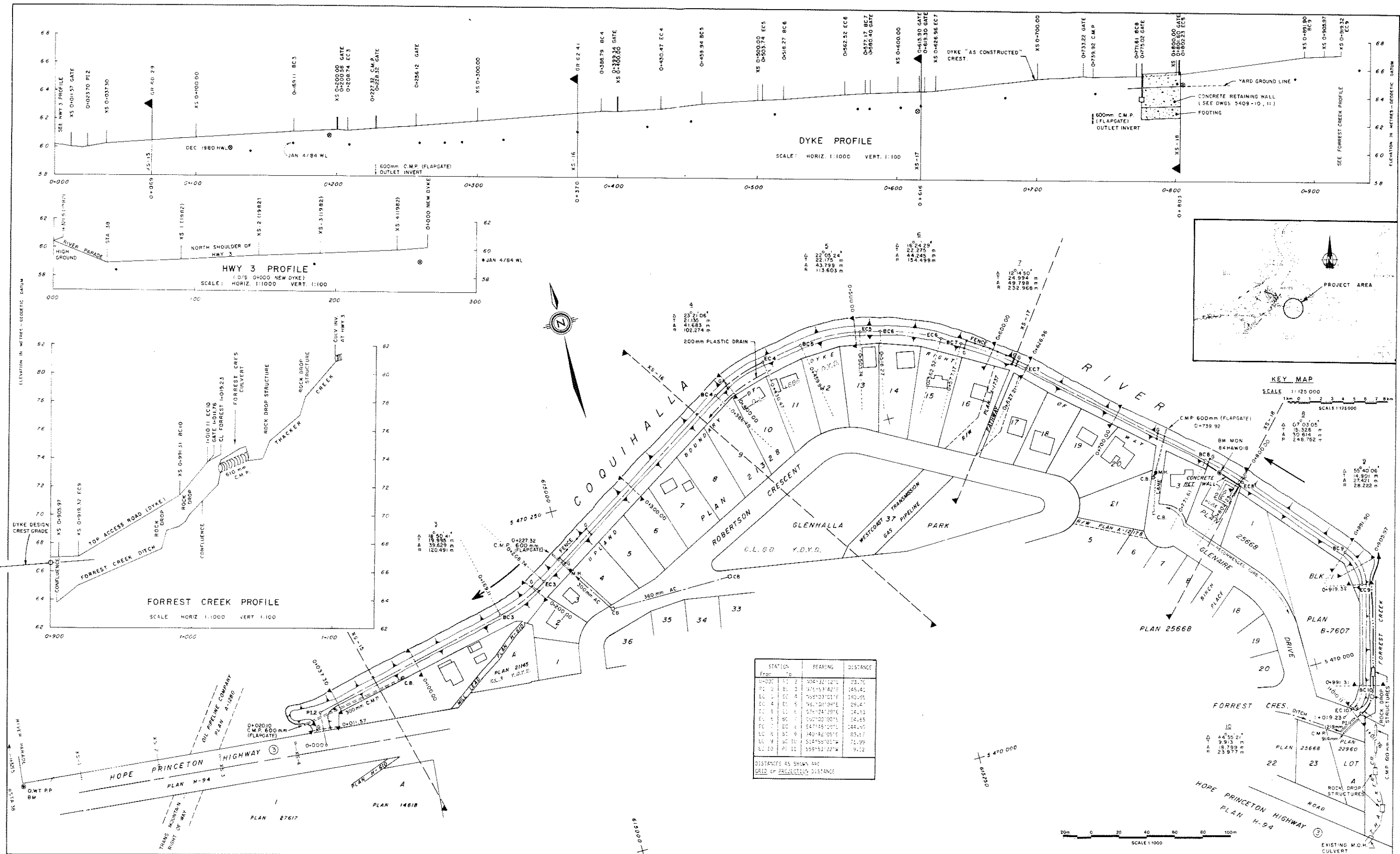
Province of British Columbia
 Ministry of Environment
 WATER MANAGEMENT BRANCH

COQUIHALLA RIVER AT HOPE
 FLOOD AND EROSION MITIGATION

AS CONSTRUCTED
 SITE PLAN AND DYKE PROFILES

FILE NO. P 76-69-ENG-10B
 ENG. PROJECT NO. 82-RPP-1
 NTS MAP NO. 92 1/6
 SCALE 1:5000 Approx
 DRAWING NO. 5409-1C
 SHEET OF

APPROVED: *[Signature]* DIRECTOR DATE: JUN 28/85



STATION	BEARING	DISTANCE
0+000	112° 04' 30" E	23.70
0+010	112° 04' 30" E	23.70
0+020	112° 04' 30" E	23.70
0+030	112° 04' 30" E	23.70
0+040	112° 04' 30" E	23.70
0+050	112° 04' 30" E	23.70
0+060	112° 04' 30" E	23.70
0+070	112° 04' 30" E	23.70
0+080	112° 04' 30" E	23.70
0+090	112° 04' 30" E	23.70
0+100	112° 04' 30" E	23.70
0+110	112° 04' 30" E	23.70
0+120	112° 04' 30" E	23.70
0+130	112° 04' 30" E	23.70
0+140	112° 04' 30" E	23.70
0+150	112° 04' 30" E	23.70
0+160	112° 04' 30" E	23.70
0+170	112° 04' 30" E	23.70
0+180	112° 04' 30" E	23.70
0+190	112° 04' 30" E	23.70
0+200	112° 04' 30" E	23.70

NOTES

- The plan has been prepared from field surveys carried out by the Surveying, Planning and Surveying Section, Water Management Branch, Ministry of Environment and Forestry of Ontario.
- Vertical datum is compatible with the dyke survey conducted by the Surveying, Planning and Surveying Section, Water Management Branch, Ministry of Environment and Forestry of Ontario.
- Horizontal datum is compatible with the dyke survey conducted by the Surveying, Planning and Surveying Section, Water Management Branch, Ministry of Environment and Forestry of Ontario.
- The survey was carried out in May and June 1984.

LEGEND

- TRAVERTISE STATION (IRON PIN)
- BENCH MARK
- CONCRETE METAL PIPE
- CATCH BASIN
- MANHOLE
- GATE
- DEC 1980 HWL
- JAN 4/84 WL

REFERENCES

DWG. NO.	DESCRIPTION	DATE
5409-21	GLENHALLA SUBDIVISION DYKE CROSS SECTIONS "AS CONSTRUCTED"	NOV 1984
5409-25	GLENHALLA SUBDIVISION AS CONSTRUCTED SURVEY DWG. SURVEY BY T. DIGNAN	MAY-JUNE 1984
5409-11	RIVER AND DYKE PROFILES REVISED	DEC 1982

REVISIONS

No.	DESCRIPTION	DATE
1	AS CONSTRUCTED	NOV 1984

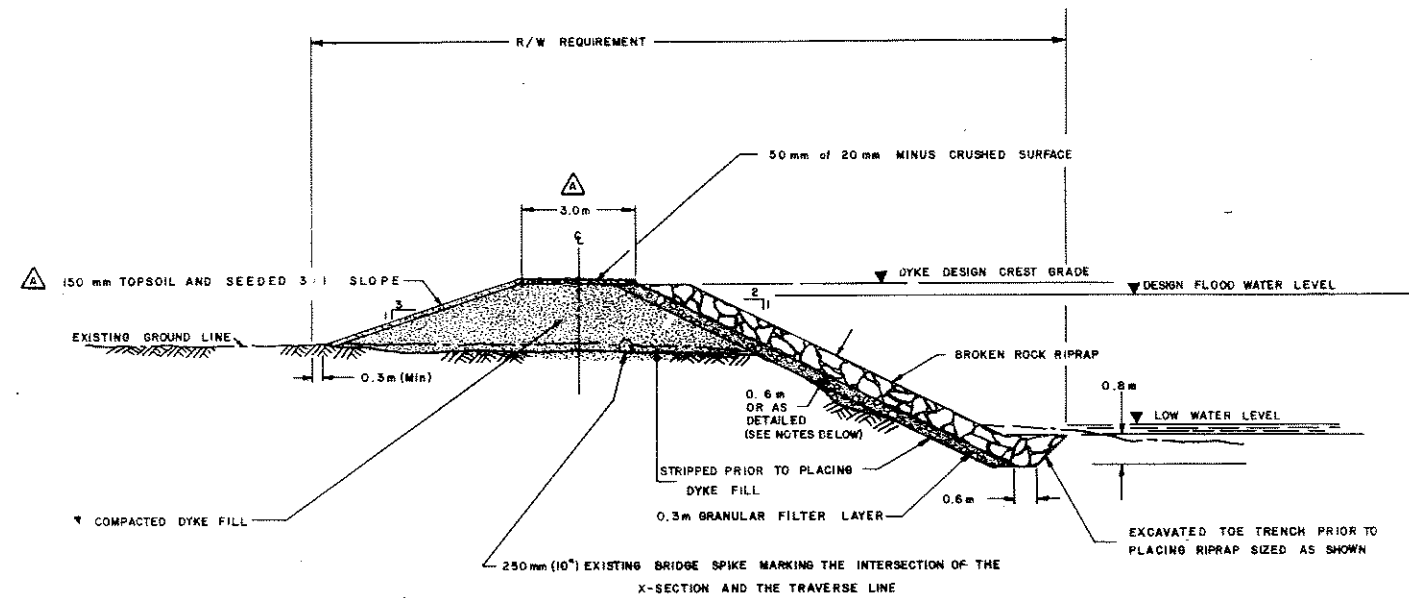
CONSTRUCTED 1983 AND 1984

SURVEYED BY T. DIGNAN
 DATE MAY-JUNE 1984
 CHECKED BY B. BOYD
 DATE SEPT. 1984
 DRAWN BY J. DUNCAN
 DATE NOV. 1984

Province of British Columbia
 Ministry of Environment
 WATER MANAGEMENT BRANCH

TOWN OF HOPE - COQUIHALLA RIVER
 FLOOD AND EROSION MITIGATION
GLENHALLA SUBDIVISION
FLOOD PROTECTION WORKS
"AS CONSTRUCTED DETAILS"
PLAN AND PROFILES

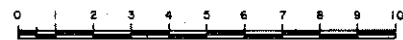
DRAWING No. 5409-29
 SHEET 1 of 1



TYPICAL DYKE SECTION AND RIPRAP

GLENHALLA DYKE

COQUIHALLA RIVER AT HOPE



1:100
 △ AGREED TO SEPT. 13, 1983

- NOTES**
1. THE RIPRAP THICKNESS IS 0.6 m EXCEPT AS INDICATED BELOW.
 2. FROM STATION 0+030 TO STATION 0+200 THE RIPRAP THICKNESS IS 1.0m
 3. THE RIPRAP SLOPE IS 1:75:1 FROM STATION 0+030 TO STATION 0+060

THIS SECTION WAS TAKEN OFF DWG 5409-2

BROKEN ROCK RIPRAP SPECIFICATION

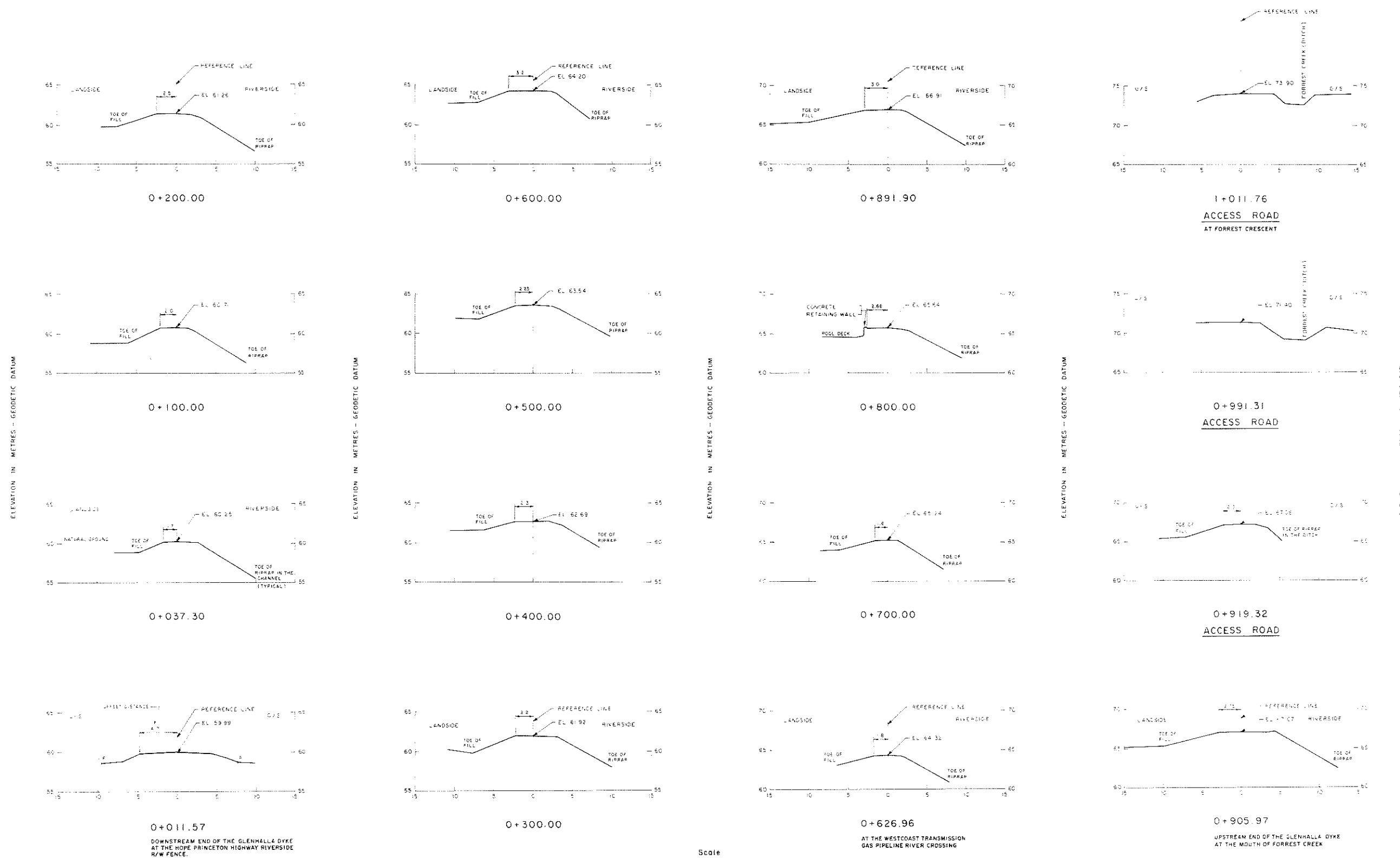
% by weight finer than	Mass kg	Approx. equiv. diameter mm
Station 0+030 to 0+200		
100	1050	900
not more than 50	500	700
not more than 10	20	250
Upstream from Station 0+200 (behind Sestak's house)		
100	300	600
not more than 50	130	450
not more than 10	5	150

Riprap shall:

1. Consist of dense, durable, roughly equidimensional, angular pieces; and
2. Be clean and reasonably well graded, covering the complete allowable size range.

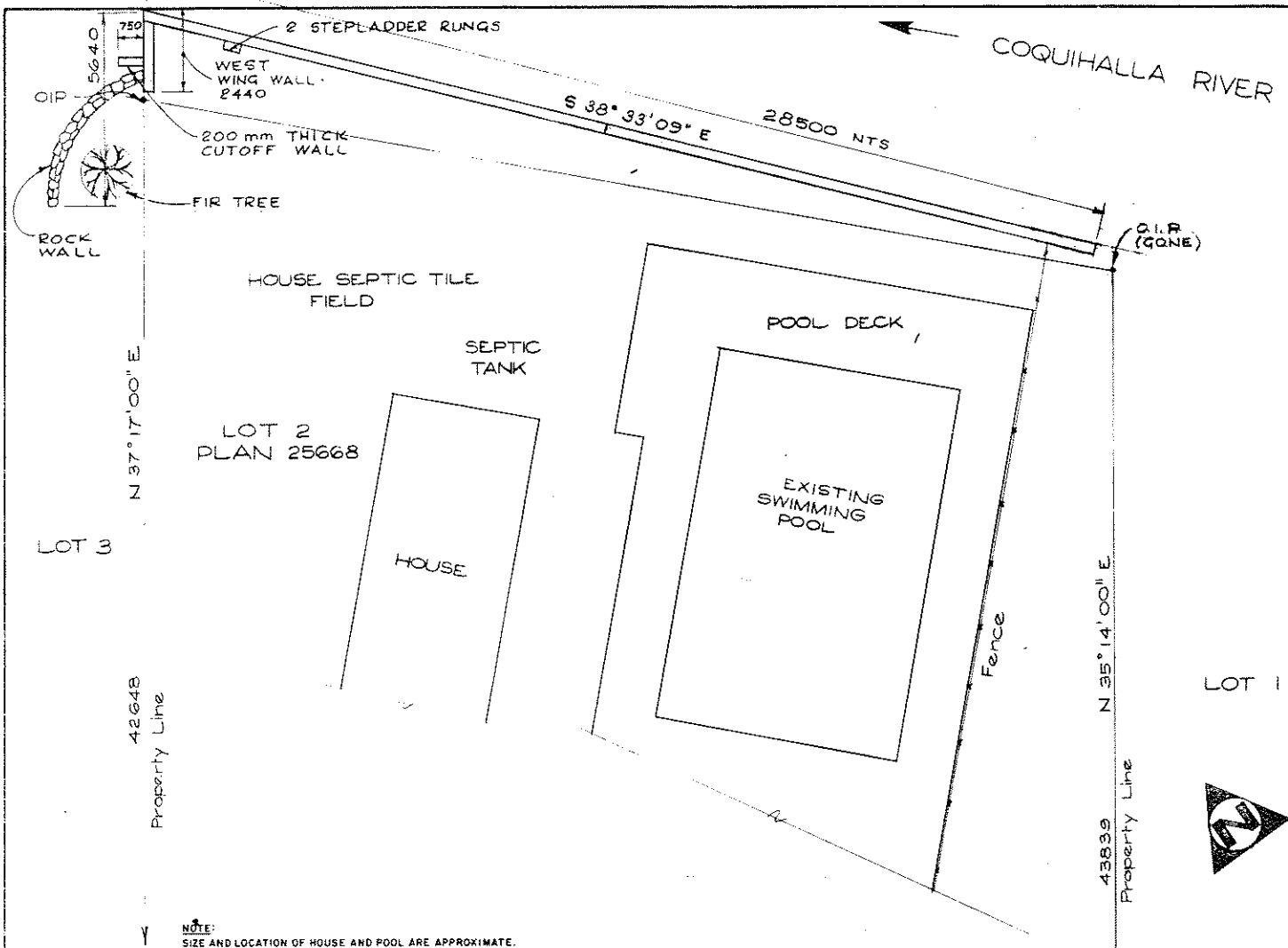
'AS CONSTRUCTED DESIGN'

REFERENCES			REVISIONS			DESIGNED		Province of British Columbia		FILE NO.
DWG. No.	DESCRIPTION	DATE	No.	DESCRIPTION	DATE	DATE	TALBOT	Ministry of Environment	WATER MANAGEMENT BRANCH	P 76-69
5409-7	PROJECT WORK, GLENHALLA SUBDIVISION	MAY, 1983	△	CREST WIDTH, LANDSIDE AND RIPRAP CONSTRUCTION DETAILS AS CONSTRUCTED DETAILS	SEPT. 13, 1983	CHECKED		TOWN OF HOPE - COQUIHALLA RIVER PROPOSED FLOOD AND EROSION MITIGATION		ENG. PROJECT NO.
			△		AUG. 14, 1984	DATE				N.T.S. MAP NO.
						DRAWN	S. CORNER			92 H/6
						CHECKED				SCALE
						DATE	MAY 30, 1983	GLENHALLA SUBDIVISION TYPICAL DYKE SECTION AND RIPRAP		1:100
						ENGINEER	<i>[Signature]</i> June 1985	RECOMMENDED	<i>[Signature]</i> June 1985	DRAWING NO. 5409-12
						DATE		DATE	APPROVED	REV. NO. B
								DATE	DIRECTOR	SHEET 1 OF 1



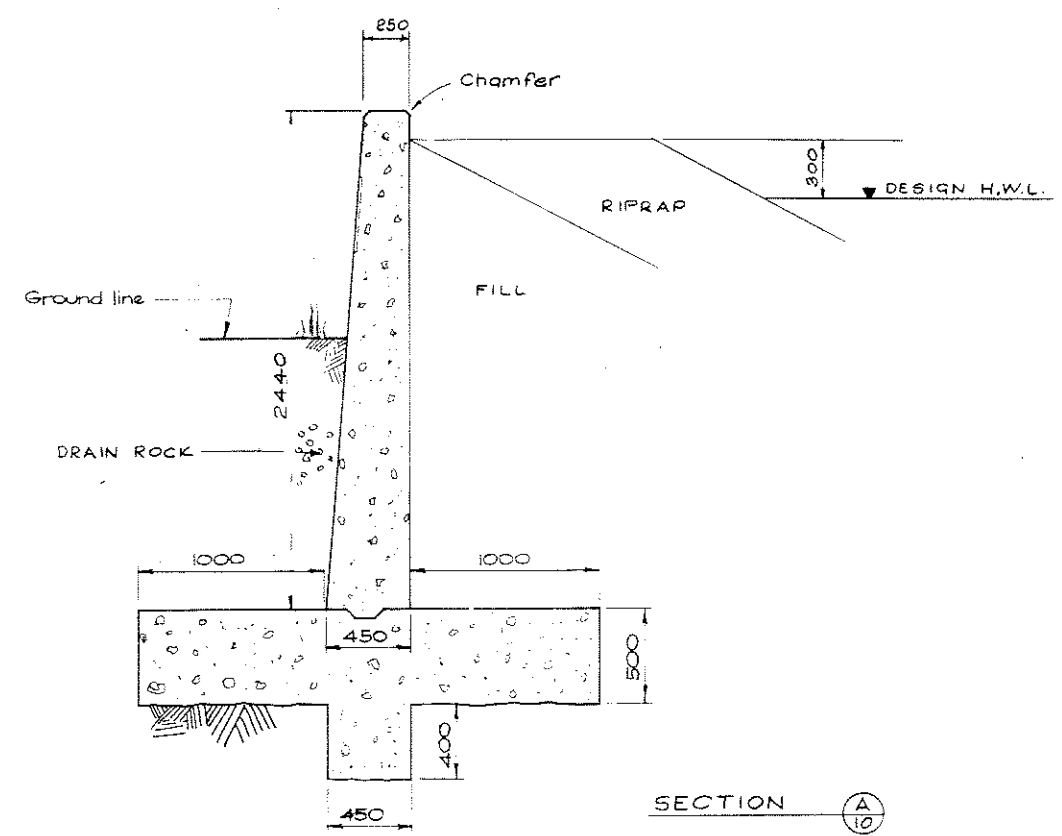
Scale
 HORIZ. 1 : 200
 VERT. 1 : 200

NOTES		LEGEND		REFERENCES			REVISIONS		SURVEYED		Province of British Columbia		Ministry of Environment	
FOR NOTES, SEE DWG. No. 5409-25				This As Constructed Drawing is based on an As Constructed Survey by T. Dignon from Dwg. 5409-25					DATE: JUNE 1986		WATER MANAGEMENT BRANCH		FILE No. 5409-31	
1. THE REFERENCE LINE SHOWN AT SECTIONS IS THE LOCATION OF THE FINAL SURVEY BASELINE TRAVERSE AT THE SECTION.				5409-25 GLENHALLA SUBDIVISION PLAN AND PROFILES OF DYKE					COMPILED BY BOYO		TOWN OF HOPE - COQUILCO RIVER FLOOD AND EMISSION MITIGATION		SURVEY PROJECT No. B4-RFP-20	
2. THE OFFSET DISTANCE SHOWN FOR EACH SECTION IS THE DISTANCE IN METRES FROM THE REFERENCE LINE TO THE LANDSIDE EDGE OF THE CREST.				1409-28 GLENHALLA SUBDIVISION FLOOD PROTECTION WORKS "AS CONSTRUCTED DETAILS"			SEPT 1984		CHECKED BY [Signature]		GLENHALLA SUBDIVISION "AS CONSTRUCTED DETAILS" DYKE CROSS SECTIONS		SCALE 1:500	
							NOV 1984		DATE: SEPT 1984				DRAWING No. 5409-31	
									DRAWN BY [Signature]				SHEET 1 of 1	
									DATE: NOV 1984					
									ENGINEER [Signature]		APPROVED BY [Signature]		DATE: 1985	



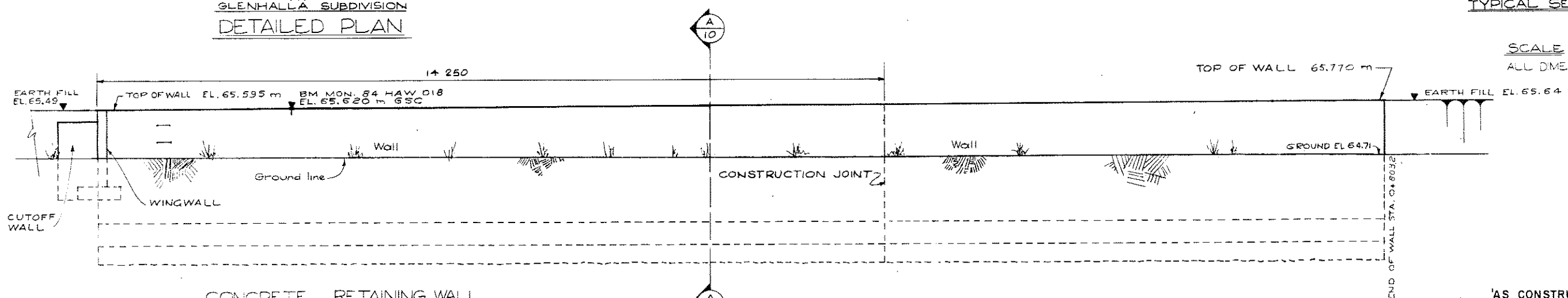
SCALE :- 1:100
ALL DIMENSIONS ARE IN MILLIMETRES

CONCRETE WALL DYKE
AT
GLENHALLA SUBDIVISION
DETAILED PLAN



SECTION (A)
CONCRETE RETAINING WALL
TYPICAL SECTION

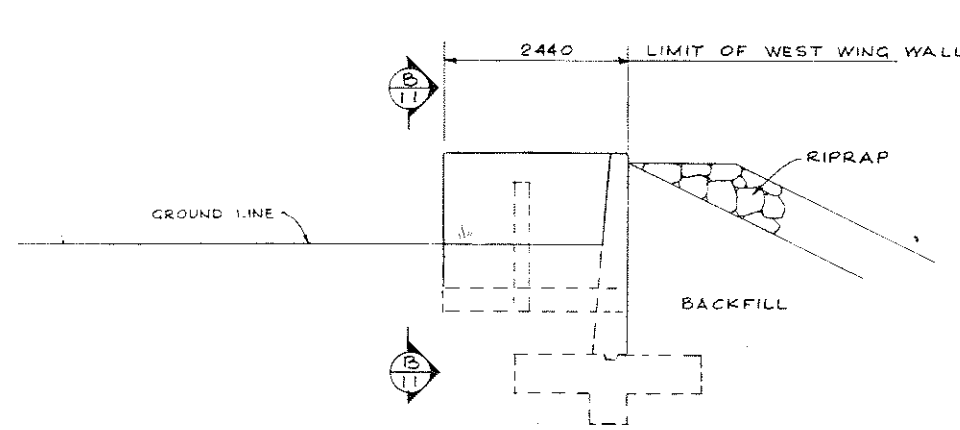
SCALE :- 1:20
ALL DIMENSIONS ARE IN MILLIMETRES



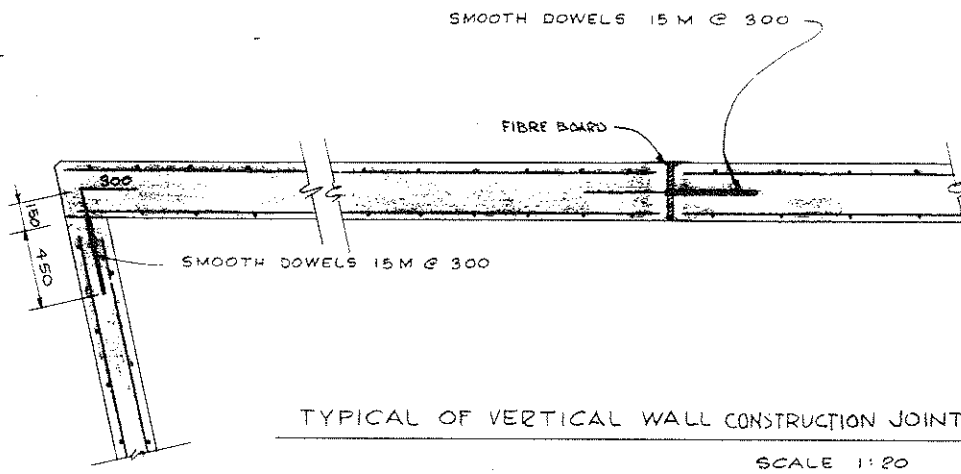
CONCRETE RETAINING WALL
ELEVATION

SCALE :- 1:50
ALL DIMENSIONS ARE IN MILLIMETRES

REFERENCES			REVISIONS			SURVEYED		Province of British Columbia		FILE NO.
DWG No.	DESCRIPTION	DATE	No.	DESCRIPTION	DATE	DATE	DESIGNED	Ministry of Environment	PTG-62	
5409-11	REINF. DETAILS	SEPT. 23/83	A	AS CONSTRUCTED	OCT. 19/84	DATE	BJT	WATER MANAGEMENT BRANCH		
						DATE	AUG 1983		ENG. PROJECT NO.	
						DRAWN	WJW		NTS MAP NO.	
						CHECKED			SCALE	
						DATE	AUG 1983		AS SHOWN	
						ENGINEER			DRAWING NO.	
						RECOMMENDED			REV NO.	
						APPROVED			5409-10	
						DIRECTOR			A	
						DATE			SHEET	
									OF	



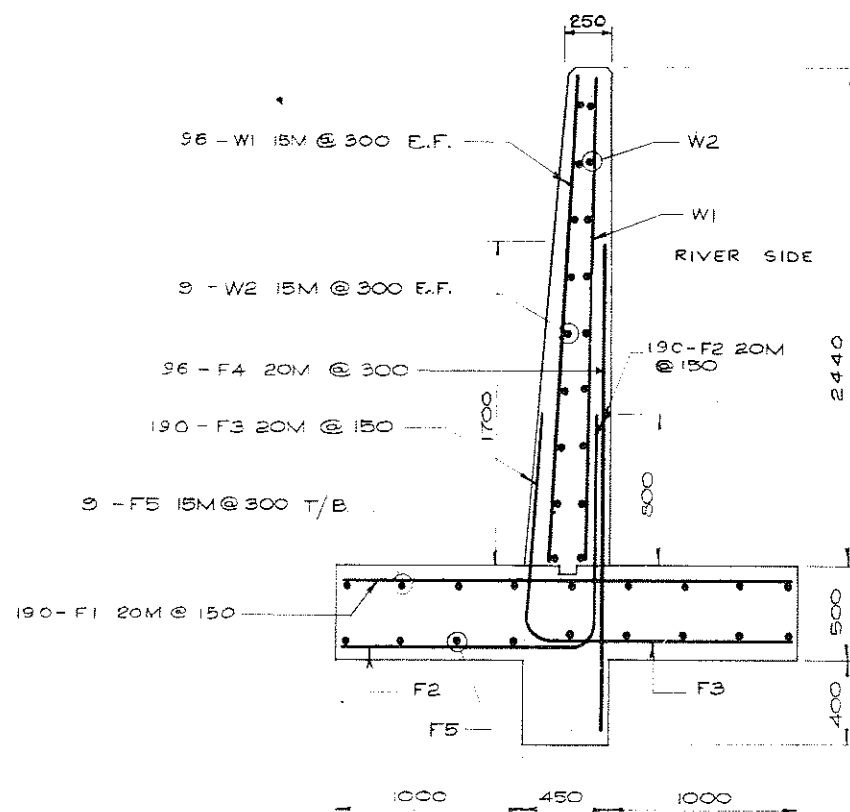
ELEVATION
CONCRETE WING WALLS
SCALE 1:50



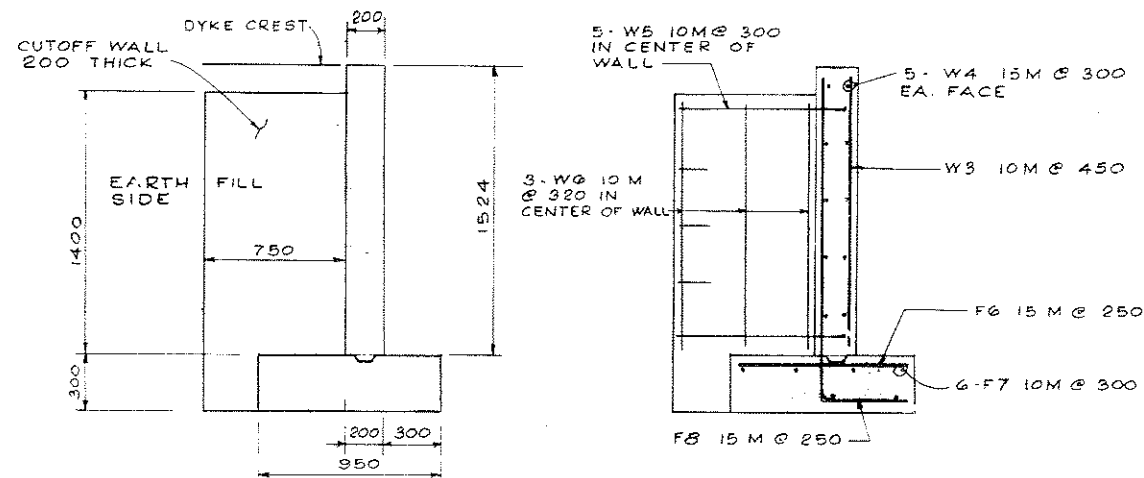
TYPICAL OF VERTICAL WALL CONSTRUCTION JOINTS
SCALE 1:20

- NOTES:
- All concrete shall have a minimum compressive strength of 25 MPa (3625 psi) at 28 days, conforming to C.S.A. Can-3-A23-M77.
 - Reinforcing steel shall be intermediate grade billet steel conforming to ASTM A-15, with deformations conforming to ASTM A-305.
 - All reinforcing splices and laps shall have a minimum of 30 bar diameters, or as shown.
 - Concrete cover on reinforcement shall be 75 mm (3") for concrete cast against and permanently exposed to earth, and 50 mm clearance for all other reinforcement.
 - Chamfer all exposed edges 20mm, unless otherwise specified.

The wall was constructed in accordance with the above specifications.
1989.06.24



SECTION A-A
SCALE 1:20

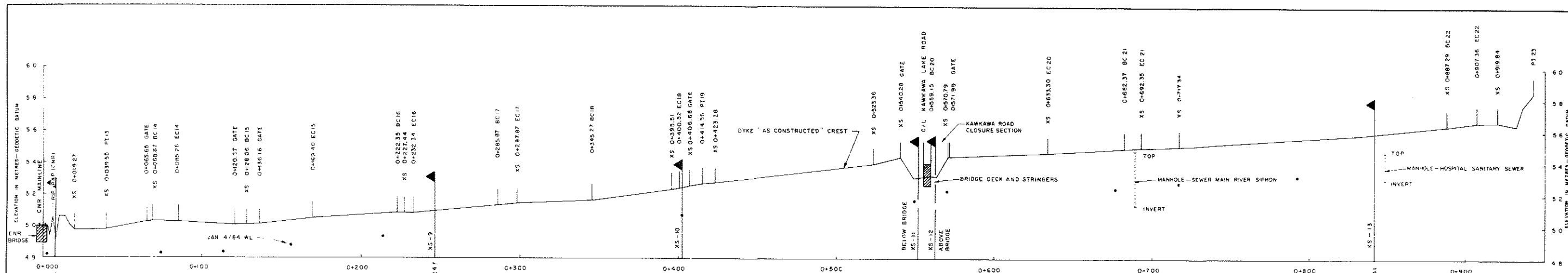


CONCRETE WING WALL AND CUTOFF WALL
SCALE 1:20

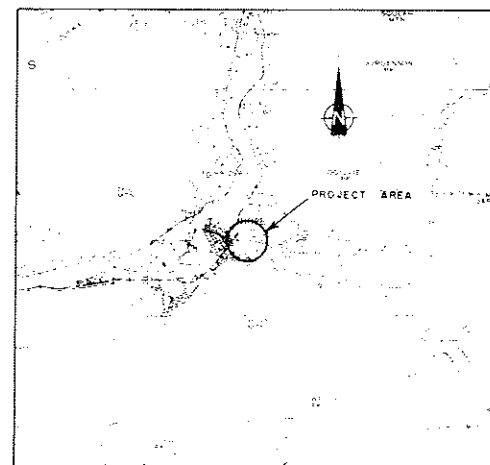
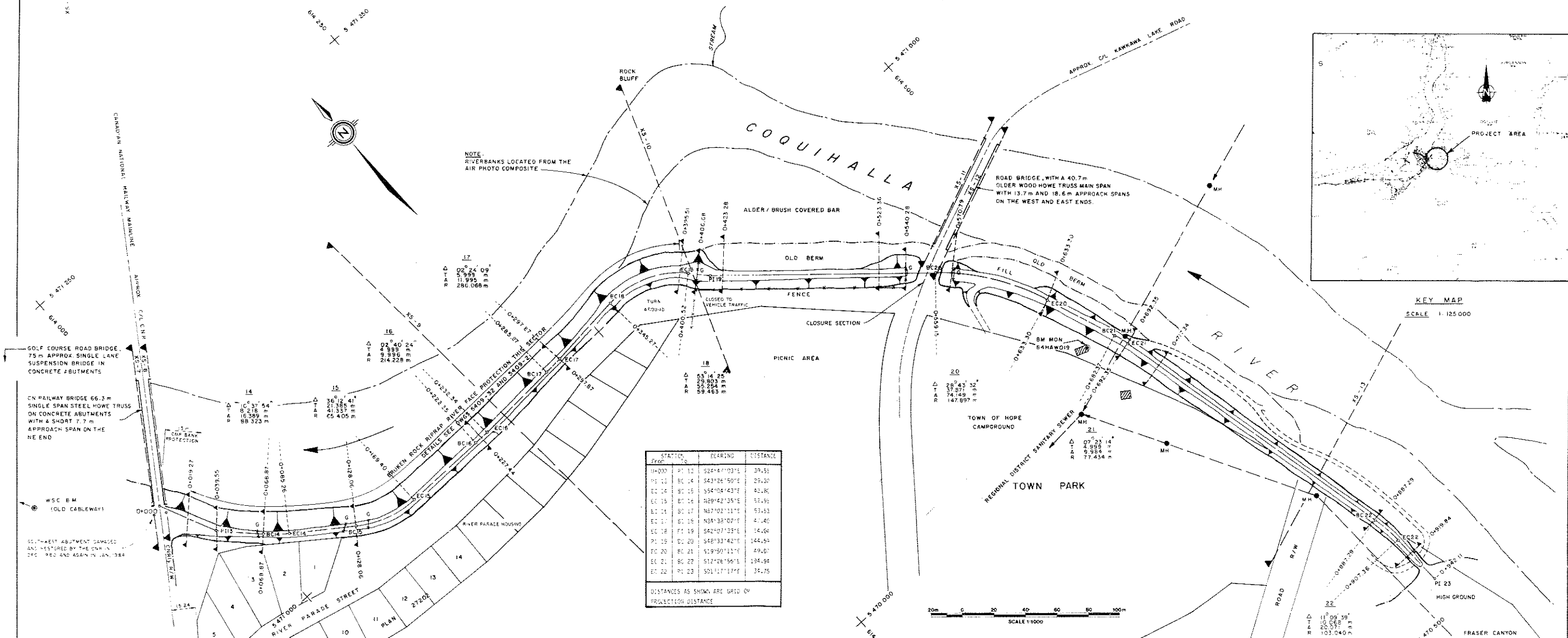
REINFORCING SCHEDULE							
MAIN WALL FOOTING							
MARK	NO. REQ'D.	SIZE	SHAPE	a	b	LENGTH	REMARKS
F1	190	20M	STR			2300	DEFORMED
F2	190	20M	a b	1300	1200	2500	"
F3	190	20M	b a	1300	1200	2500	"
F4	96	20M	STR			2600	"
F5	18	15M	STR.			8550	"
MAIN WALL (EACH CONSTRUCTION UNIT - 3/4 REQUIRED) *							
W1	192	15M				2310	"
W2	54	15M	STR			8550	"
DOWELS	18		9 STR. 9 300			900	SMOOTH
END WALL FOOTING - SEE SEPARATE BAR SCHEDULE							
END WALL							
CUTOFF WALL							
W5	5	10M	b a	850	50	1000	"
W6	3	10M	STR.			1250	"

REFERENCES			REVISIONS			SURVEYED		DESIGNED		CHECKED		DATE	
DWG No	DESCRIPTION	DATE	No	DESCRIPTION	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
			A	AS CONSTRUCTED	AUG. 16/84								

Province of British Columbia	Ministry of Environment WATER MANAGEMENT BRANCH	FILE NO. P76-62
TOWN OF HOPE COQUIHALLA RIVER FLOOD AND EROSION MITIGATION		ENG. PROJECT NO.
GLENHALLA SUBDIVISION		N.T.S. MAP NO.
CONCRETE WALL AT LOT 2 PLAN 25068		SCALE AS NOTED
REINFORCING DETAILS		DRAWING NO. 5409-11
ENGINEER	DATE	REVISED



DYKE PROFILE
SCALE: HORIZ. 1:1000 VERT. 1:100



STATION	BEARING	DISTANCE
0+000	P1 12	324°41'03"E 39.55
0+100	BC 14	343°26'50"E 29.20
0+200	EC 16	354°04'43"E 43.20
0+300	BC 17	329°42'35"E 32.95
0+400	BC 17	367°10'11"E 53.53
0+500	EC 17	384°32'07"E 47.40
0+600	BC 20	342°07'23"E 34.04
0+700	EC 20	348°33'40"E 144.64
0+800	BC 21	329°50'12"E 49.07
0+900	EC 21	312°06'50"E 134.94
0+950	P1 23	301°17'12"E 34.75

DISTANCES AS SHOWN ARE GRID OR PROJECTION DISTANCE

SCALE 1:1000

<p>NOTES</p> <p>1. This plan has been prepared from field surveys carried out by the Survey Subsection, Planning and Surveys Section, Water Management Branch, Ministry of Environment, Province of British Columbia.</p> <p>2. Industrial plant is compatible with the 1984 survey coordinate system and was derived from geodetic station survey plan no. 1127.</p> <p>SURVEY DATA</p> <p>3. Horizontal control for center line traverses.</p> <p>4. Cross-sections and profile was established by D.M. traverses.</p> <p>5. Survey data for cross-sections and profiles were obtained by stadia.</p> <p>6. The survey was carried out in May and June 1984.</p>		<p>FIELD BOOKS</p> <p>7. Survey data are recorded in Field Book Nos. 2401 1-1, 2401 1-1, 2401 L-1 and 2401 1-1.</p> <p>REFERENCE MONUMENTS:</p> <p>8. BAHAWOIR (LISTED ON WMB MONUMENT SHEET) 52,570 W.S.C. B.M. 44,490</p> <p>9. WSC B.M. WATER SURVEY OF CANADA MONUMENT BENCHMARK SET FOR THE RECENTLY WASHED OUT CABLEWAY THE ELEVATION GIVEN IS WATER MANAGEMENT BRANCH GSC ELEVATION ESTABLISHED DURING A 1982 WMB SURVEY.</p>		<p>LEGEND</p> <p>○ TRAVERSE STATION IRON PIN</p> <p>● BENCH MARK</p> <p>○ MH MANHOLE</p> <p>— G GATE</p> <p>● JAN 4/84 WL</p>		<p>REFERENCES</p> <p>DWG. No. 5409-32 RIVER PARADE - TOWN PARK DYKE CROSS SECTIONS</p> <p>5409-26 RIVER PARADE - TOWN PARK SECTION AS CONSTRUCTED SURVEY DWG. SURVEY BY DIGNAN</p> <p>5409-10 RIVER AND DYKE PROFILES REVISED</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AS CONSTRUCTED</td> <td>NOV 1984</td> </tr> <tr> <td>2</td> <td>AS CONSTRUCTED SURVEY DWG. SURVEY BY DIGNAN</td> <td>MAY - JUNE 1984</td> </tr> <tr> <td>3</td> <td>REVISED</td> <td>DEC 1982 NOV 1984</td> </tr> </tbody> </table>		No.	DESCRIPTION	DATE	1	AS CONSTRUCTED	NOV 1984	2	AS CONSTRUCTED SURVEY DWG. SURVEY BY DIGNAN	MAY - JUNE 1984	3	REVISED	DEC 1982 NOV 1984	<p>CONSTRUCTED 1983</p> <p>APPROVED: [Signature]</p>	
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<p>NOTES</p> <p>1. This plan has been prepared from field surveys carried out by the Survey Subsection, Planning and Surveys Section, Water Management Branch, Ministry of Environment, Province of British Columbia.</p> <p>2. Industrial plant is compatible with the 1984 survey coordinate system and was derived from geodetic station survey plan no. 1127.</p> <p>SURVEY DATA</p> <p>3. Horizontal control for center line traverses.</p> <p>4. Cross-sections and profile was established by D.M. traverses.</p> <p>5. Survey data for cross-sections and profiles were obtained by stadia.</p> <p>6. The survey was carried out in May and June 1984.</p>		<p>FIELD BOOKS</p> <p>7. Survey data are recorded in Field Book Nos. 2401 1-1, 2401 1-1, 2401 L-1 and 2401 1-1.</p> <p>REFERENCE MONUMENTS:</p> <p>8. BAHAWOIR (LISTED ON WMB MONUMENT SHEET) 52,570 W.S.C. B.M. 44,490</p> <p>9. WSC B.M. WATER SURVEY OF CANADA MONUMENT BENCHMARK SET FOR THE RECENTLY WASHED OUT CABLEWAY THE ELEVATION GIVEN IS WATER MANAGEMENT BRANCH GSC ELEVATION ESTABLISHED DURING A 1982 WMB SURVEY.</p>		<p>LEGEND</p> <p>○ TRAVERSE STATION IRON PIN</p> <p>● BENCH MARK</p> <p>○ MH MANHOLE</p> <p>— G GATE</p> <p>● JAN 4/84 WL</p>		<p>REFERENCES</p> <p>DWG. No. 5409-32 RIVER PARADE - TOWN PARK DYKE CROSS SECTIONS</p> <p>5409-26 RIVER PARADE - TOWN PARK SECTION AS CONSTRUCTED SURVEY DWG. SURVEY BY DIGNAN</p> <p>5409-10 RIVER AND DYKE PROFILES REVISED</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AS CONSTRUCTED</td> <td>NOV 1984</td> </tr> <tr> <td>2</td> <td>AS CONSTRUCTED SURVEY DWG. SURVEY BY DIGNAN</td> <td>MAY - JUNE 1984</td> </tr> <tr> <td>3</td> <td>REVISED</td> <td>DEC 1982 NOV 1984</td> </tr> </tbody> </table>		No.	DESCRIPTION	DATE	1	AS CONSTRUCTED	NOV 1984	2	AS CONSTRUCTED SURVEY DWG. SURVEY BY DIGNAN	MAY - JUNE 1984	3	REVISED	DEC 1982 NOV 1984	<p>CONSTRUCTED 1983</p> <p>APPROVED: [Signature]</p>	
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3	REVISED	DEC 1982 NOV 1984																					

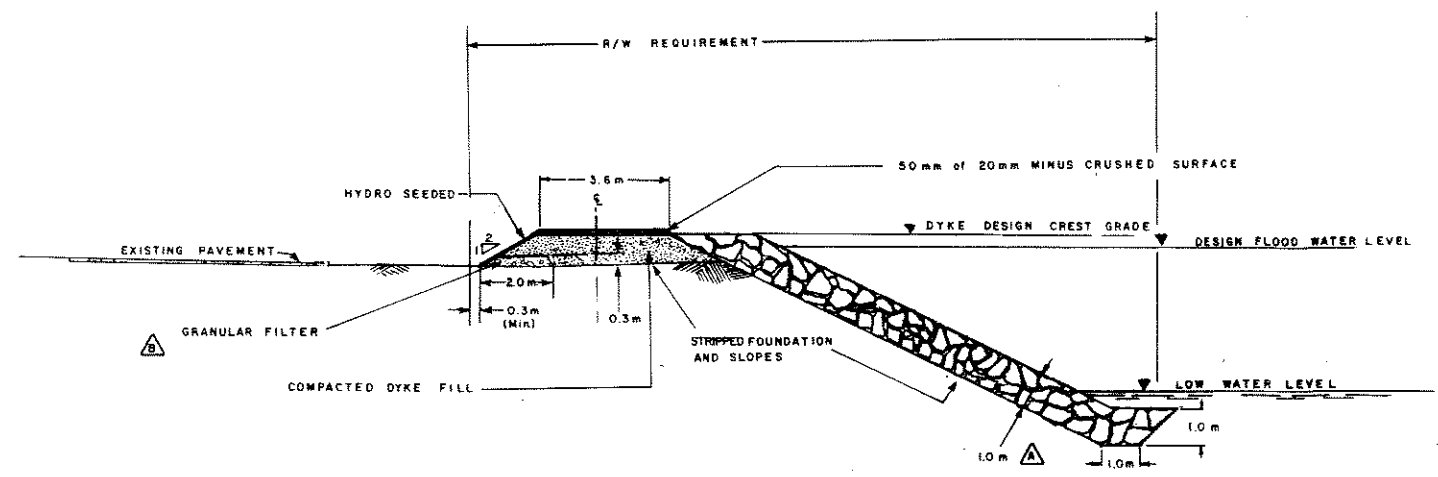
Province of British Columbia
Ministry of Environment
WATER MANAGEMENT BRANCH

TOWN OF HOPE - COQUIHALLA RIVER
FLOOD AND FROSION MITIGATION
RIVER PARADE - TOWN PARK SECTOR
FLOOD PROTECTION WORKS
"AS CONSTRUCTED DETAILS"
PLAN AND PROFILES

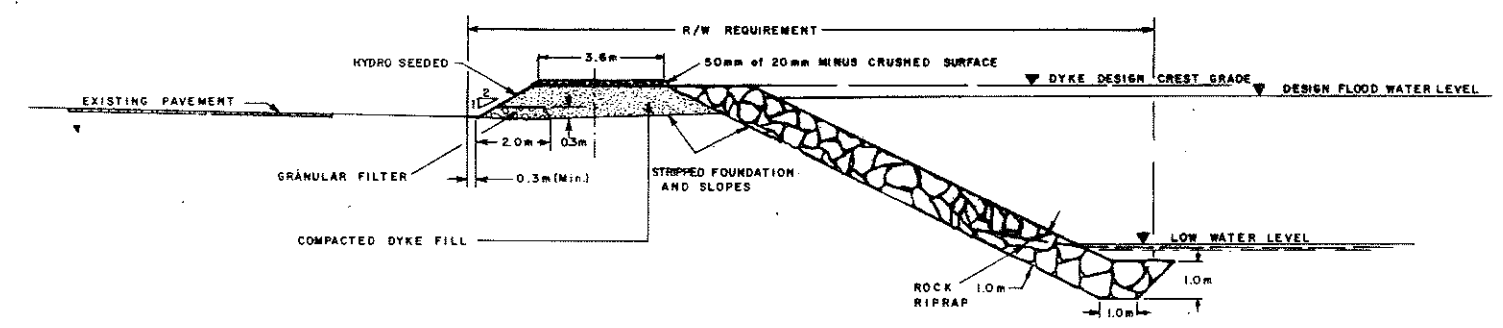
DATE: NOV. 1984

FILE No. 8.9-RFP-10
MIS No. 92/H/6
SCALE 1:1000
DRAWING No. 5409-30
SHEET 1 of 1

Figure 8 DD



TYPICAL DYKE SECTION PROTECTED WITH RIPRAP
 RIVER PARADE SECTOR
 STA. 0+019.27 TO 0+297.87

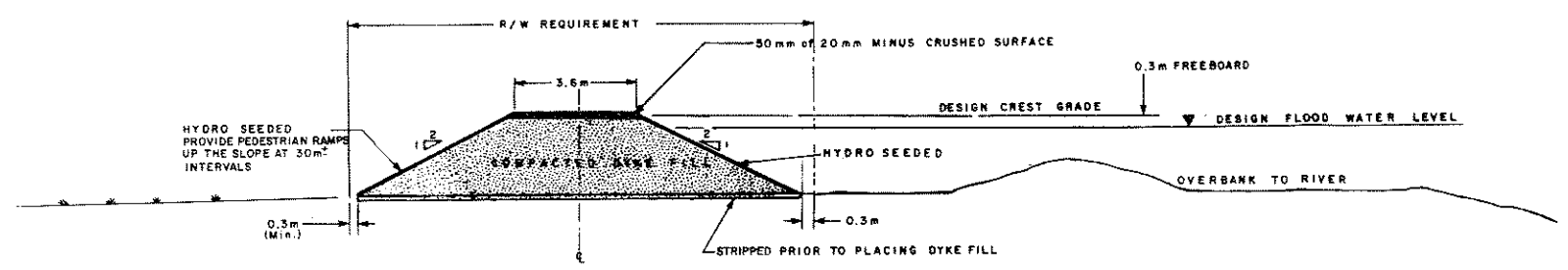


TYPICAL DYKE SECTION PROTECTED WITH RIPRAP
 RIVER PARADE SECTOR
 STA. 0+297.87 TO 0+423.28

BROKEN ROCK RIPRAP SPECIFICATION

% by weight finer than	Mass kg	Approx. equiv. diameter mm
100	1050	900
not more than 50	500	700
not more than 10	20	250

- Riprap shall:
1. Consist of dense, durable, roughly equidimensional, angular pieces; and
 2. Be clean and reasonably well graded, covering the complete allowable size range.

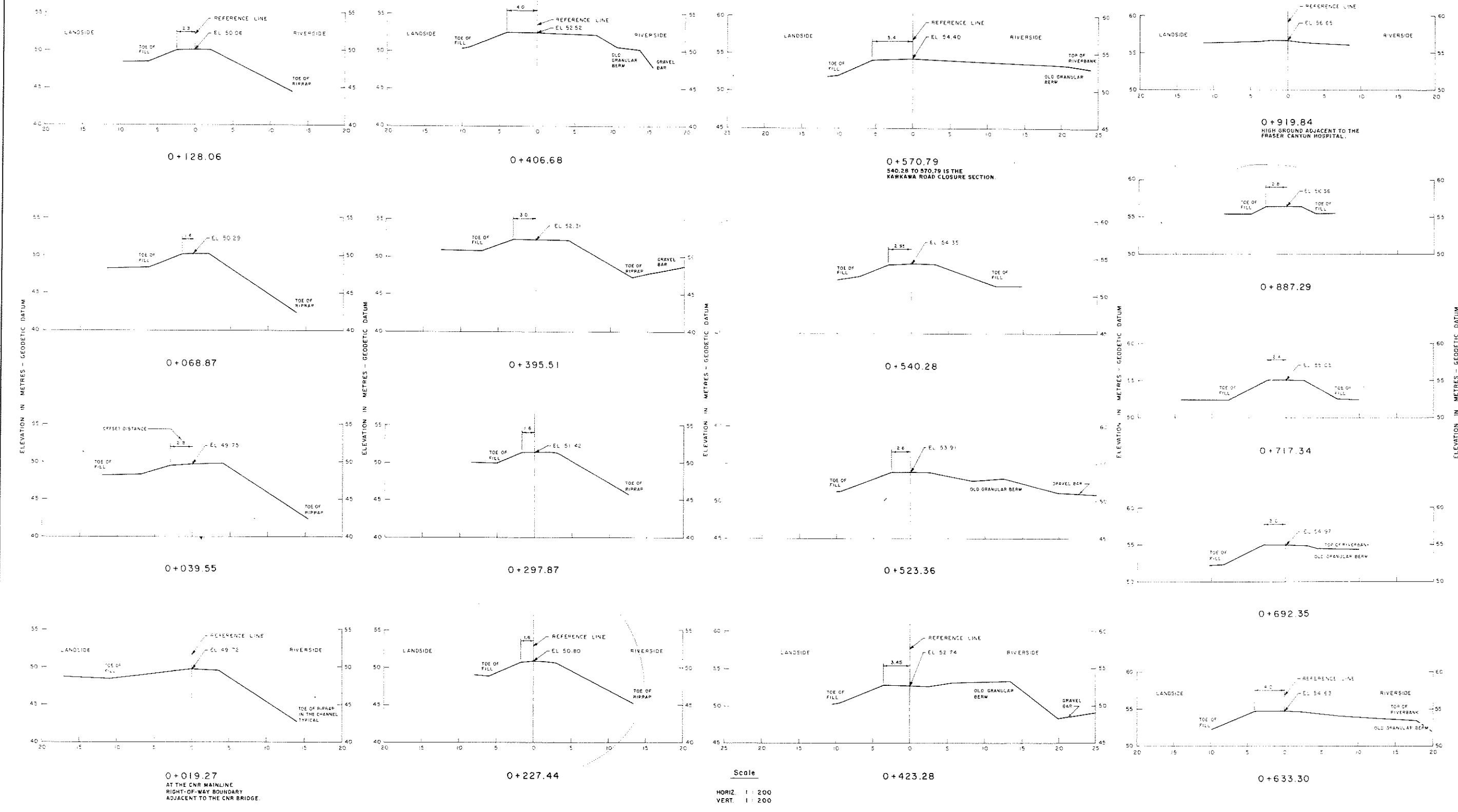


TYPICAL DYKE SECTION
 RIVER PARADE SECTOR
 COQUIHALLA RIVER AT HOPE
 STA. 0+423.28 TO 0+935 (The upstream end).



'AS CONSTRUCTED DESIGN'

REFERENCES			REVISIONS			SURVEYED		Province of British Columbia		Ministry of Environment		FILE NO.	
DWG. No.	DESCRIPTION	DATE	No.	DESCRIPTION	DATE	DATE	DESIGNED	TALBOT	WATER MANAGEMENT BRANCH	P 76-69 ENG-10B			
5409-6	RIVER PARADE REACH, PROJECT WORK.	MAY 15, 1983	1	THICKNESS OF RIVER PARADE RIPRAP WORK	83-05-10	CHECKED				ENG. PROJECT NO. 82-RPP-1			
5409-1	COQUIHALLA RIVER, RIVER AND DYKE PROFILES AND SITE PLAN.	DEC. 17, 1982	2	AS CONSTRUCTED DETAILS	84-07-14	DATE				NTS MAP NO. 92 1/6			
						DATE	NOV 19 1982			SCALE AS SHOWN			
						ENGINEER		DATE		DRAWING NO. 5409-2	REV. NO. B		
						RECOMMENDED		DATE		SHEET	OF		
						APPROVED		DATE					



FOR NOTES, SEE DWG No 5409-26

NOTES

1 THE REFERENCE LINE SHOWN AT SECTIONS IS THE LOCATION OF THE FINAL SURVEY BASELINE TRAVERSE OF THE SECTION.

2 THE OFFSET DISTANCE SHOWN FOR EACH SECTION IS THE DISTANCE IN METRES FROM THE REFERENCE LINE TO THE LANDSIDE EDGE OF THE CREST

LEGEND

This As Constructed Drawing is based on an As Constructed Survey by T. Dignan from Dwg. 5409-32

DWG. NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE
5409-26	RIVER PARADE - TOWN PARK PLAN AND PROFILE OF DYKE	SEPT 1984	A	NOTE ADDED	NOV 1984
5409-30	RIVER PARADE - TOWN PARK SECTOR FLOOD PROTECTION WORKS "AS CONSTRUCTED DETAILS" PLAN AND PROFILE	NOV 1984			

SURVEYED	DATE
T. DIGNAN	MAY-JUNE 1984

Province of British Columbia Ministry of Environment WATER MANAGEMENT BRANCH

TOWN OF HOPE - TODD/HULL RIVER FLOOD AND EROSION MITIGATION

RIVER PARADE - TOWN PARK SECTOR FLOOD PROTECTION WORKS "AS CONSTRUCTED DETAILS" DYKE CROSS SECTIONS

FILE NO. 84-76-69
 SURVEY PROJECT NO. 56 - RPT-10
 SHEET No. 92 of 76
 SCALE AS SHOWN
 DRAWING No. 5409-32
 SHEET 1 of 1