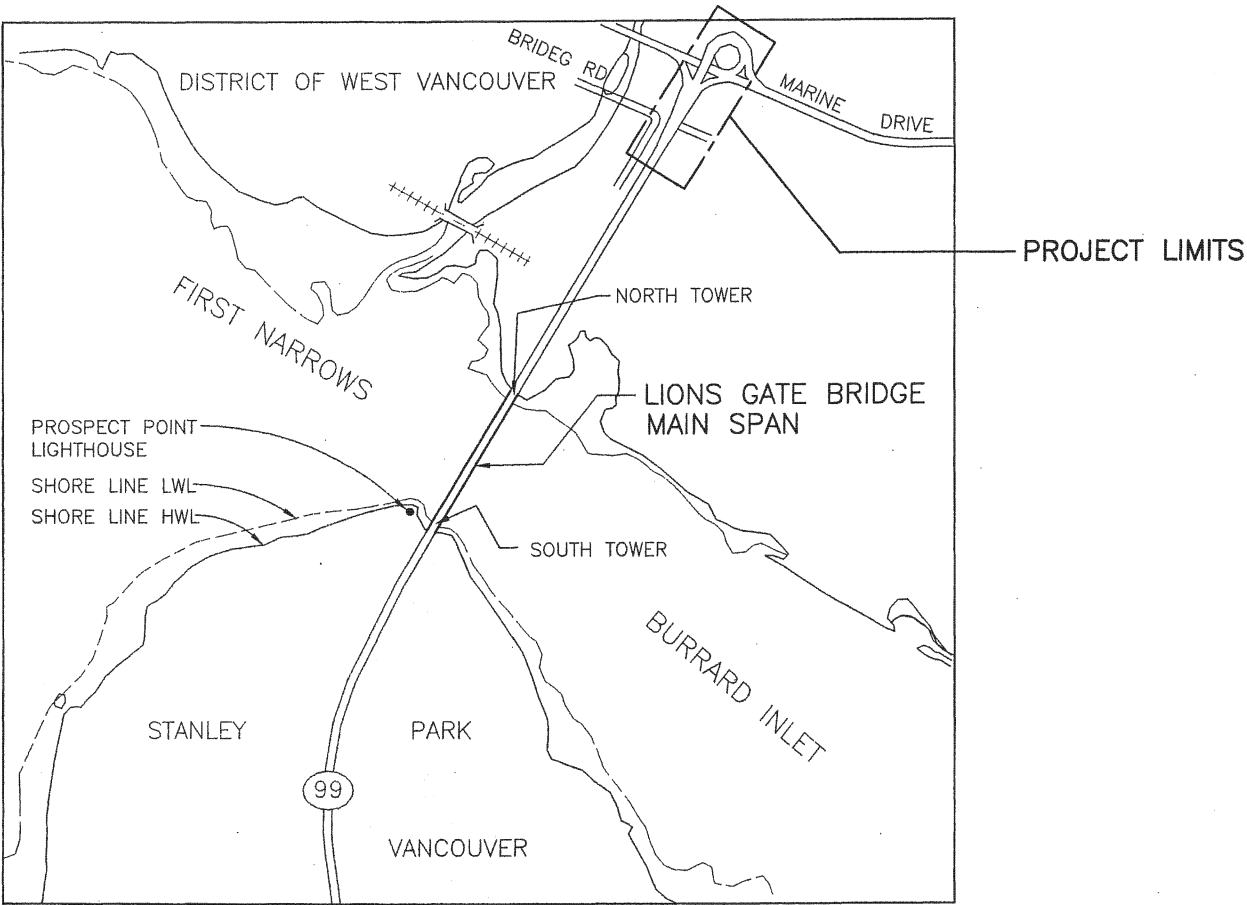


PROVINCE OF BRITISH COLUMBIA
MINISTRY OF TRANSPORTATION
PROJECT No. 11748

NORTH END OF LIONS GATE BRIDGE
WEST VANCOUVER

HWY 99 CYCLING IMPROVEMENTS



DRAWING INDEX

R1-492-001	KEY PLAN
R1-492-002	SIGNING & PAVEMENT MARKINGS
R1-492-003	BIKE PATH
R1-492-004	BIKE PATH PROFILE & DETAILS
R1-492-005	STAIRWAY AND DETAILS
R1-492-006	BIKE CROSS SECTIONS - REFERENCE ONLY
TE-03067-26 B	SITE PLAN - ELECTRICAL
TE-03067-72 D	SITE PLAN ENLARGEMENT - ELECTRICAL

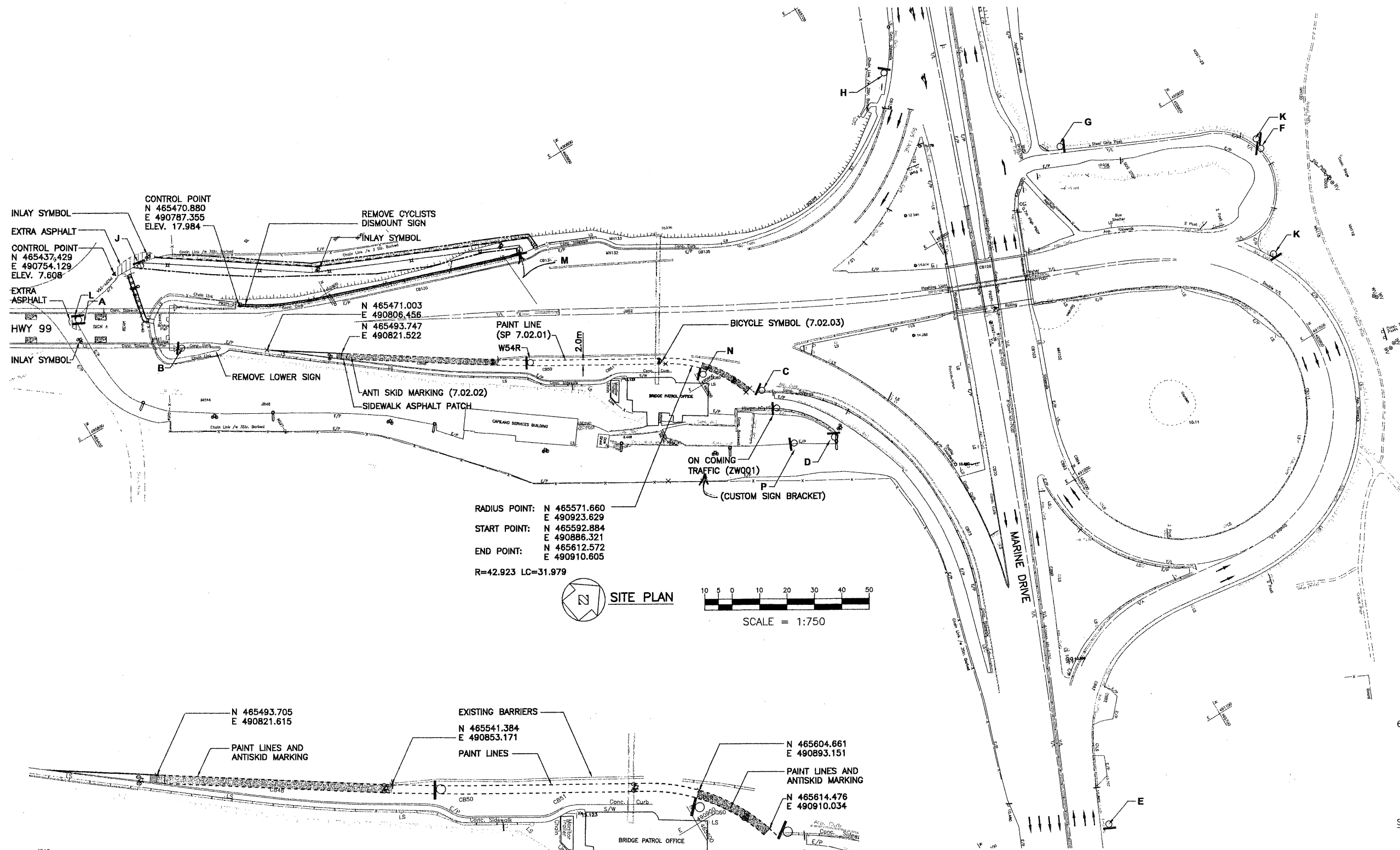
LEGEND

PWR-POLE	●	PROPOSED HIGHWAY R/W	---
LAMPSTND	○	FENCE LINE	---
XISTMHOL	●	GMP (GAS MAIN)	---
CB-MH	■	NO-POST	---
ROADSIGN	⬆	PWALL	---
TRAF-SIG	⬆	EMBANK	---
CONT-BOX	⬆	RPaint	---
GAS-VALV	⊗	SSE (STORM SEWER)	---
GUY-WIRE	→	UT (UNDERGROUND TELE.)	---
DETALHUB	▲	EXCAVATION LINE	---
JUNC-BOX	⬆		
DEC-TREE	⊗		
TREE	*		
REFPOINT	△		

LOCATION MAP
N.T.S.

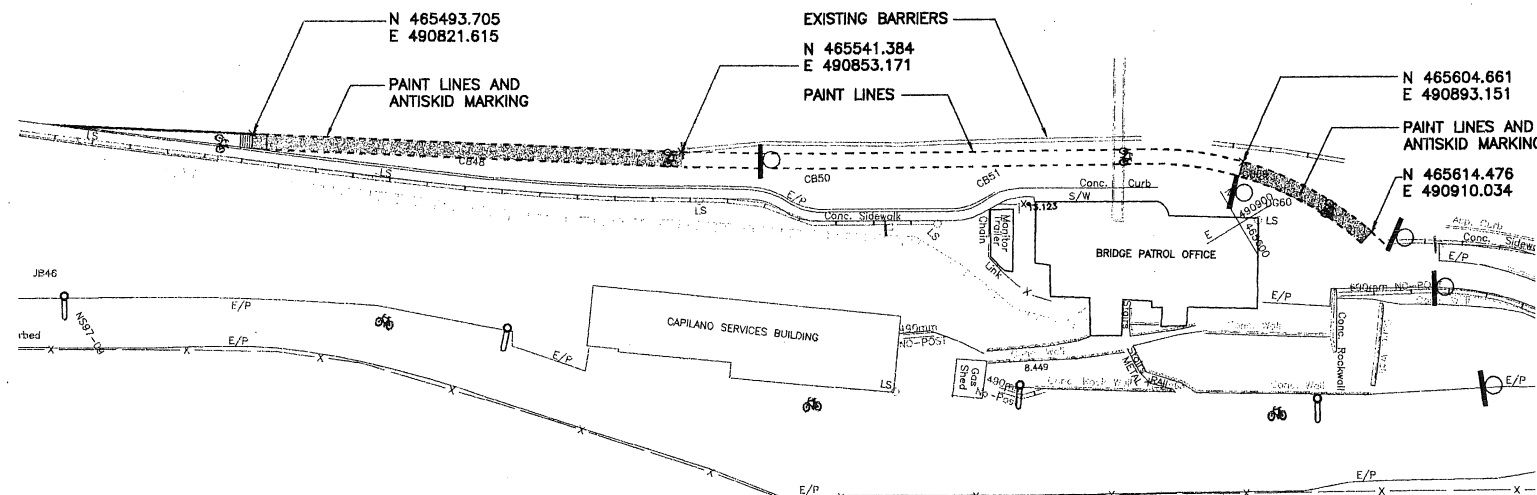
AS BUILT
CERTIFIED CORRECT: *[Signature]*
DATE: *Oct 18, 2004*
UDO SOMMER
PROJECT SUPERVISOR, M.O.T.

 MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION				
KEY PLAN HWY 99 CYCLING IMPROVEMENTS NORTH END OF LIONS GATE BRIDGE				
REGIONAL MANAGER, ENGINEERING: DATE		REGIONAL DIRECTOR: DATE		
FILE No.	PROJECT No. 11748	REG. TRA-2014-00224	DRAWING No. 92-001	A

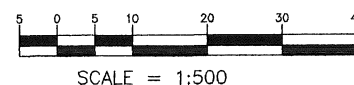


SIGN TYPE	TEXT		LOCATION
	1	2	
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B	NORTH VANCOUVER	WEST VANCOUVER	N: 465444.748 E: 490789.810
B NOT USED	[NEW ROUTE AHEAD]		
C	NORTH VANCOUVER	WEST VANCOUVER	N: 465617.885 E: 490912.986
D	NORTH VANCOUVER	WEST VANCOUVER	N: 465631.596 E: 490941.516
E	LIONS GATE BRIDGE	WEST VANCOUVER	N: 465644.677 E: 491113.571
F	NORTH VANCOUVER		N: 465818.801 E: 490931.827
G	WEST VANCOUVER LIONS GATE BRIDGE		N: 465756.652 E: 490893.137
H	LIONS GATE BRIDGE	NORTH VANCOUVER	N: 465715.677 E: 490836.813
J	LIONS GATE BRIDGE		N: 465447.261 E: 490756.401
K	LIONS GATE BRIDGE	WEST VANCOUVER	N: 465802.854 E: 490967.179
K	LIONS GATE BRIDGE	WEST VANCOUVER	N: 465818.014 E: 490928.238
L	NO ACCESS TO LIONS GATE BRIDGE		N: 465417.835 E: 490761.527
M	TEXT AS SHOWN BELOW		N: 465578.810 E: 490825.328
N	TEXT AS SHOWN BELOW		N: 465602.613 E: 490896.778

CONTRACTOR TO MARK LOCATION OF ALL SIGNS AND REVIEW WITH MOT REPRESENTATIVE PRIOR TO EXCAVATION



PARTIAL PLAN ENLARGEMENT
SCALE = 1:500



AS BUILT
CERTIFIED CORRECT: *[Signature]*
DATE: Oct 18, 2004
UDO SOMMER
PROJECT SUPERVISOR, M.O.T.

60cmx90cm G126-127	60cmx75cm R-153	90cmx120cm R-56	60cmx60cm W-129
SIGN A TO L	SIGN M	SIGN N	SIGN P

TRAFFIC SIGN

POMEROY
ENGINEERING
LIMITED
400-6450 ROBERTS STREET
BURNABY, B.C.
CANADA V5G 4E1
Tel: (604) 294-5800
Fax: (604) 294-0400

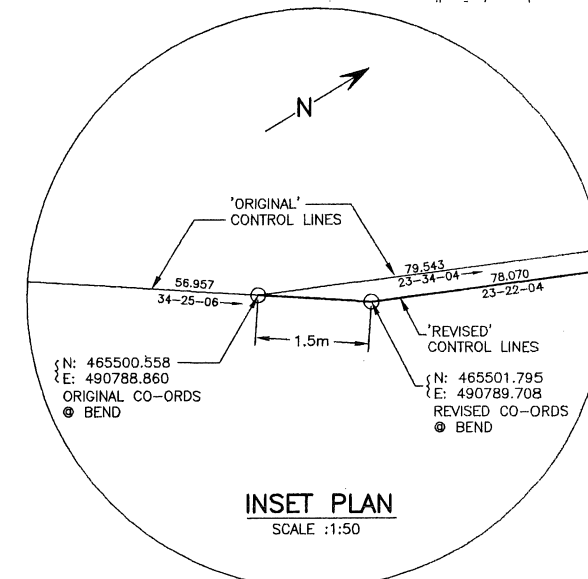
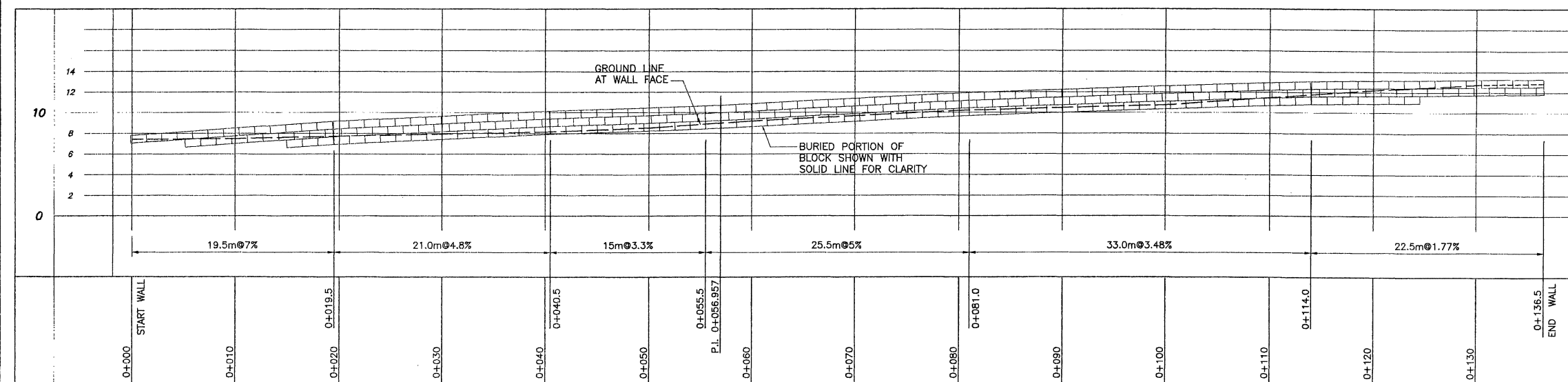
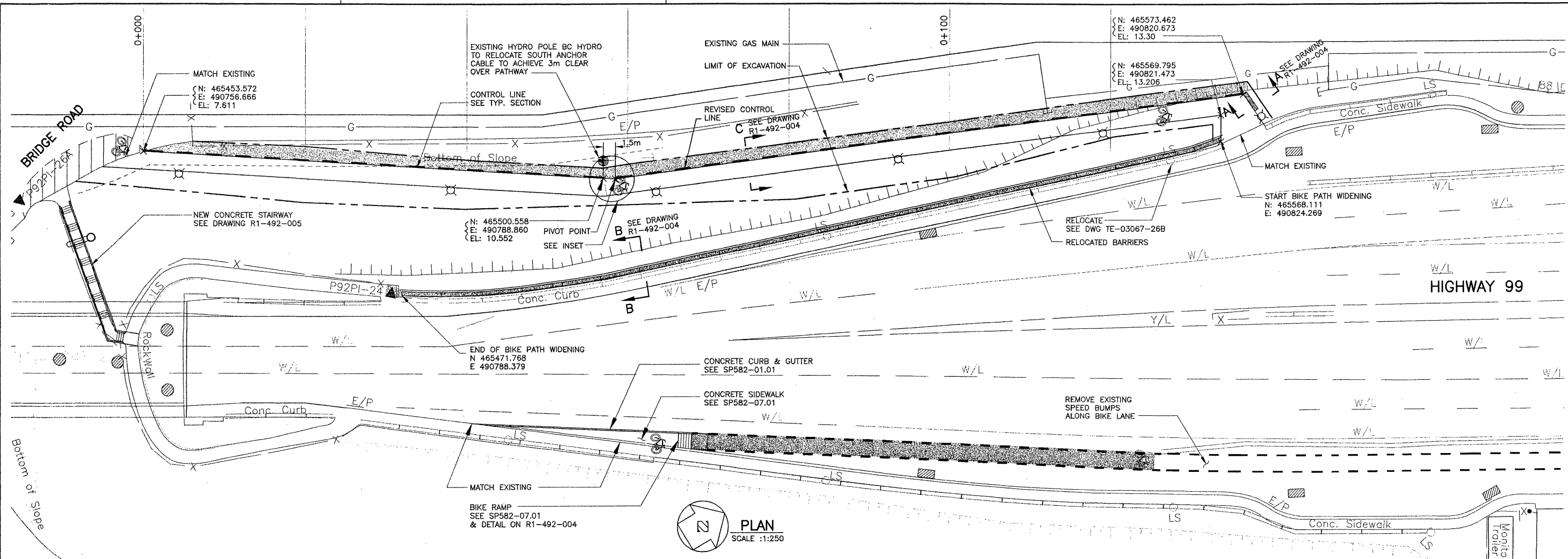
MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

SIGNING & PAVEMENT MARKINGS HWY 99 CYCLING IMPROVEMENTS NORTH END OF LIONS GATE BRIDGE

Rev	Date	Description	Signature
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REVISIONS			

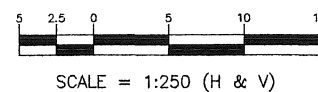
SENIOR DESIGNER	DATE
FILE No.	PROJECT No.
	REG.
	DRAWING No.

11748 TRA-2014-00224



WEST ELEVATION WALL FACE

NOTE:
AT GRADE CHANGES THERE WILL BE
A VERTICAL GAP BETWEEN BLOCKS
AT TOP OR BOTTOM OF WALL.
GAP DOES NOT EXCEED 60mm



AS BUILT
CERTIFIED CORRECT: *[Signature]*
DATE: Oct 18, 2004
UDO SOMMER
PROJECT SUPERVISOR, M.O.T.

POMEROY
ENGINEERING
LIMITED
400-8450 ROBERTS STREET
SURREY, B.C.
CANADA V5C 4E1
Tel: (604) 294-5800
Fax: (604) 294-0400

DESIGNED MF DATE 04.02.04
CHECKED DS DATE 04.02.05
DRAWN KL DATE 04.02.04
REVIEWED GA DATE 04.02.05

Rev	Date	Description	Signature
A	JUNE 2004	AS CONSTRUCTED	

REVISIONS

MINISTRY OF TRANSPORTATION
HIGHWAY DESIGN AND SURVEY ENGINEERING
SOUTH COAST REGION

BIKE PATH HWY 99 CYCLING IMPROVEMENTS NORTH END OF LIONS GATE BRIDGE

SENIOR DESIGNER DATE
FILE No. PROJECT No. 11748 REG. 2014-002242-003 DRAWING No. A
Page 3

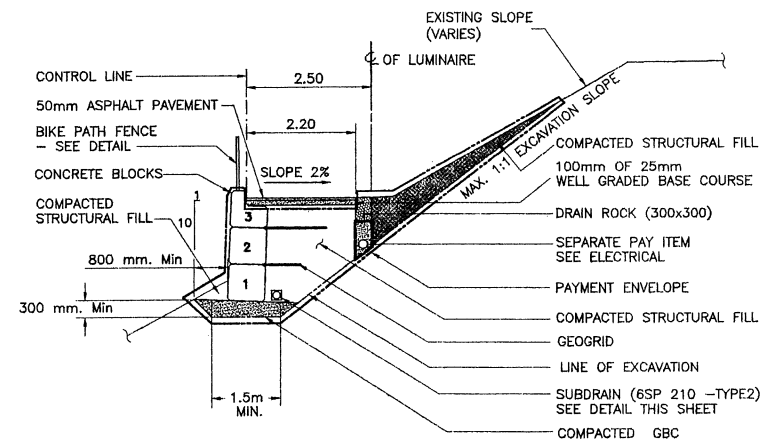
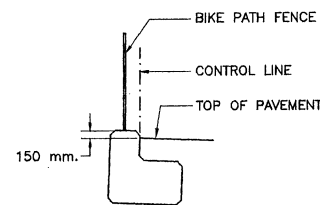
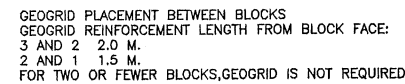
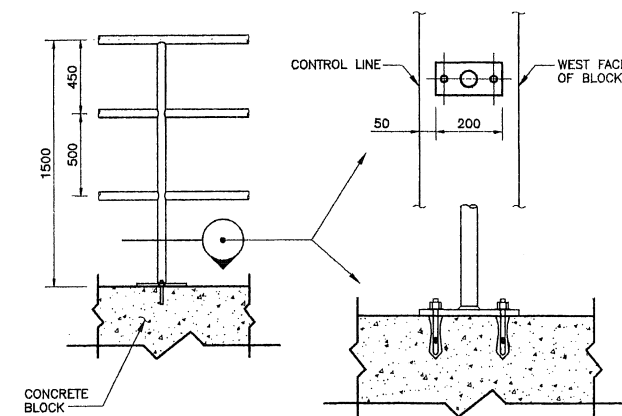
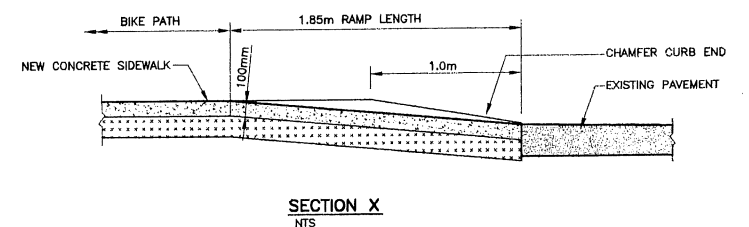
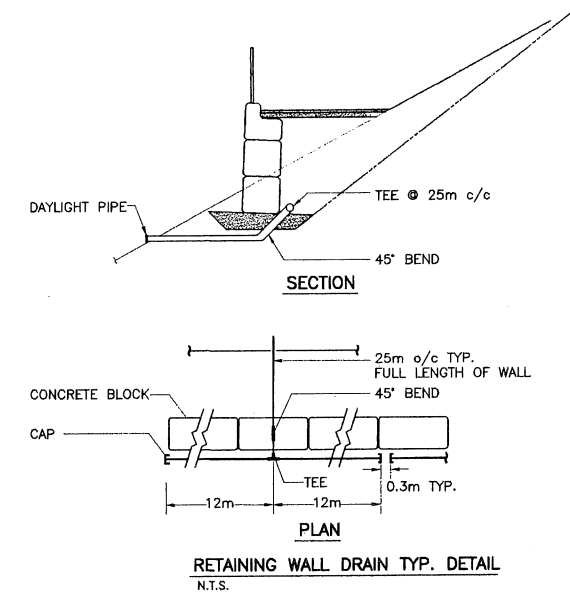


Diagram illustrating the plan view of the bike ramp. The ramp is shown with a width of 1.89m. The existing sidewalk is on the left, and the existing curb & gutter is on the right. A new concrete curb & gutter is indicated by a dashed line. The ramp surface is marked with vertical lines. The diagram is labeled "PLAN - BIKE RAMP" and "NTS" (Not To Scale).

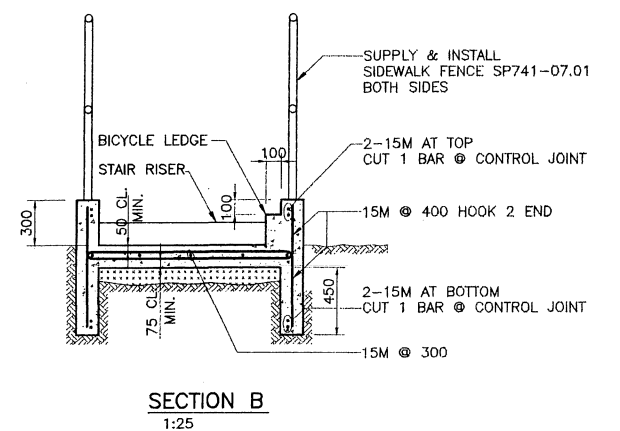
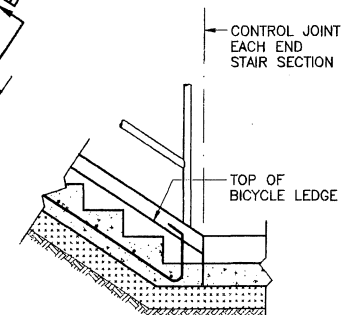
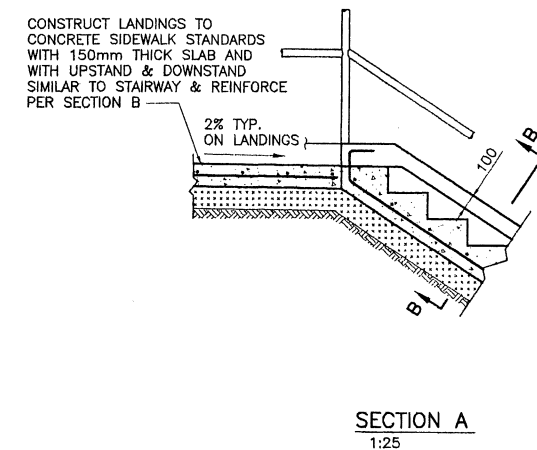
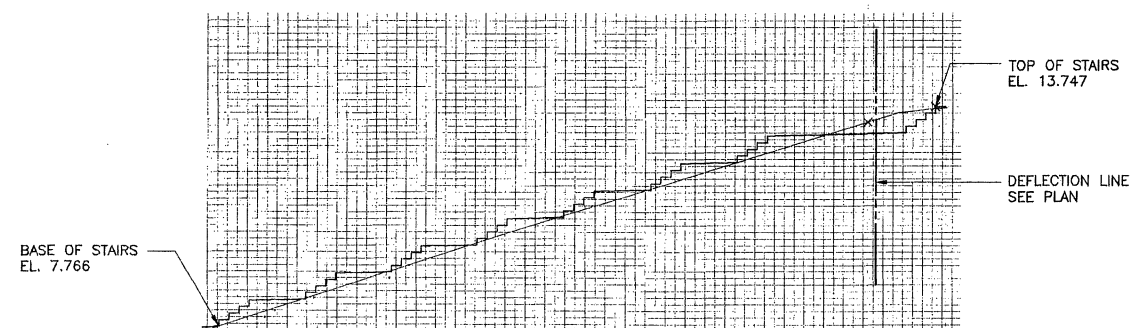
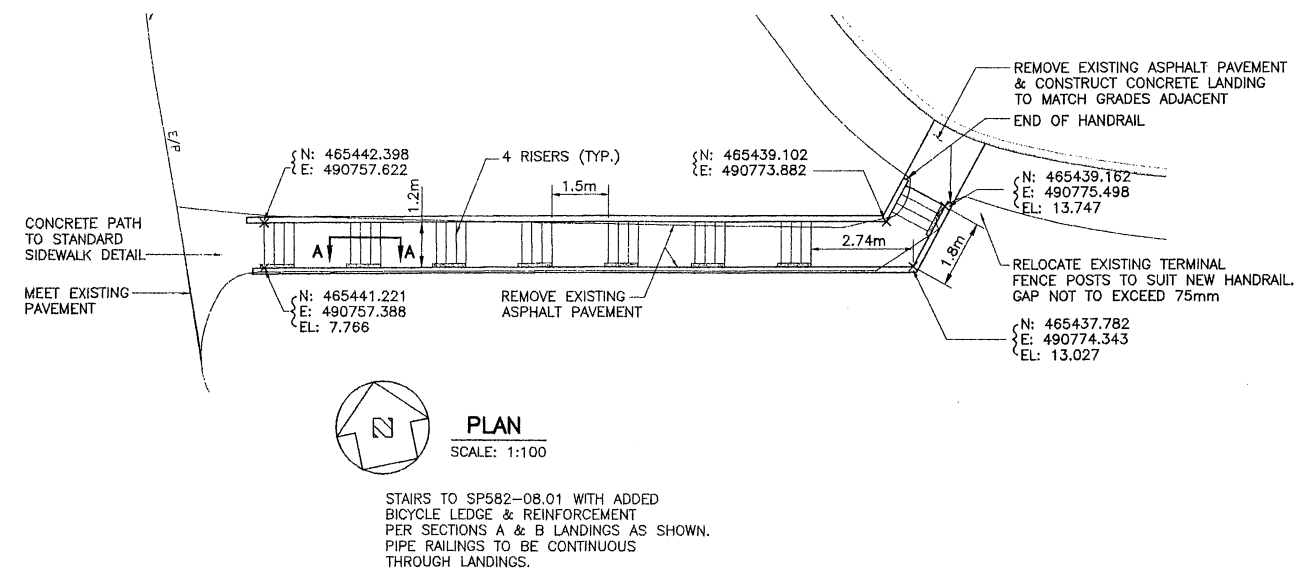


BIKE PATH FENCE

NTS BIKE PATH FENCE PER
SP741-07.01 (WELDED)
EXCEPT AS AMENDED &
DIMENSIONED HEREON



POMEROY ENGINEERING LIMITED	400-8450 ROBERTS STREET BURNABY, B.C. CANADA V5G 4E1 Tel: (604) 294-5800 Fax: (604) 294-0400	 BRITISH COLUMBIA	MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGNED</td> <td style="width: 20%;">MF</td> <td style="width: 20%;">DATE</td> <td style="width: 30%;">04 02 04</td> </tr> <tr> <td>CHECKED</td> <td>DS</td> <td>DATE</td> <td>04 02 05</td> </tr> <tr> <td>DRAWN</td> <td>KL</td> <td>DATE</td> <td>04 02 04</td> </tr> <tr> <td>REVIEWED</td> <td>GA</td> <td>DATE</td> <td>04 02 05</td> </tr> </table>		DESIGNED	MF	DATE	04 02 04	CHECKED	DS	DATE	04 02 05	DRAWN	KL	DATE	04 02 04	REVIEWED	GA	DATE	04 02 05	BIKE PATH PROFILE & DETAILS HWY 99 CYCLING IMPROVEMENTS NORTH END OF LIONS GATE BRIDGE																										
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Rev	Date	Description	Signature																																									
A	JUNE 2004	AS CONSTRUCTED																																										
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Page 4																																												
REVISIONS		A																																										



AS BUILT

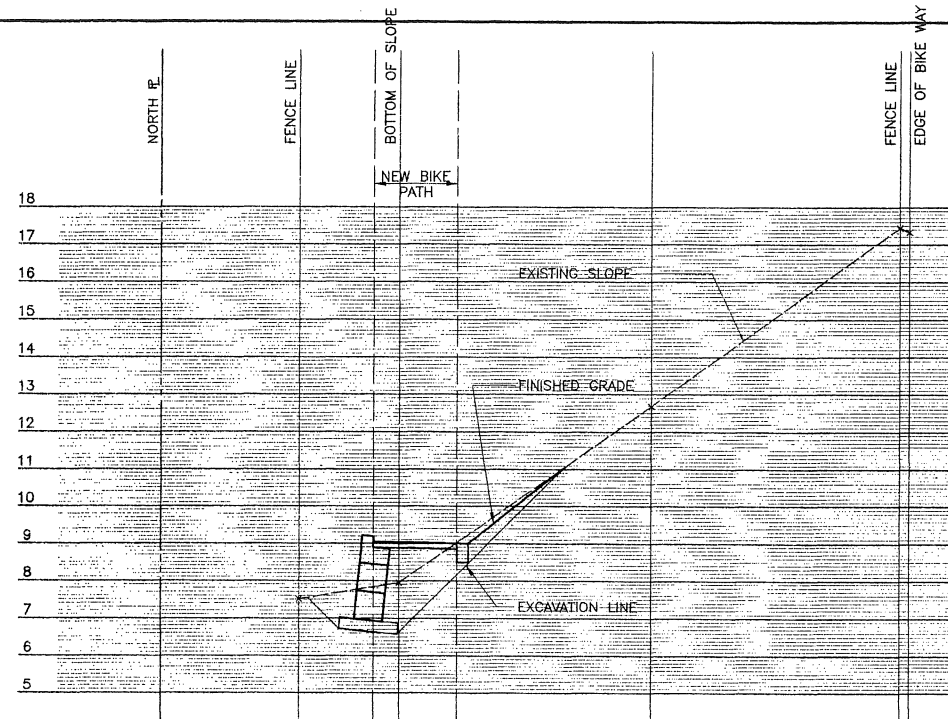
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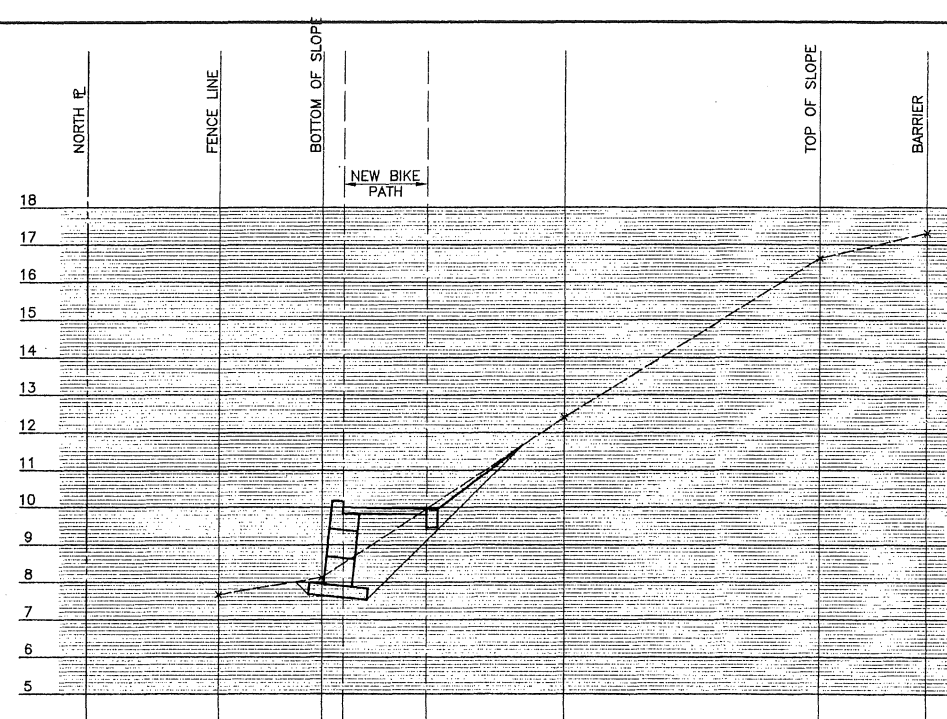
UDO SOMMER

PROJECT SUPERVISOR, M.O.T.

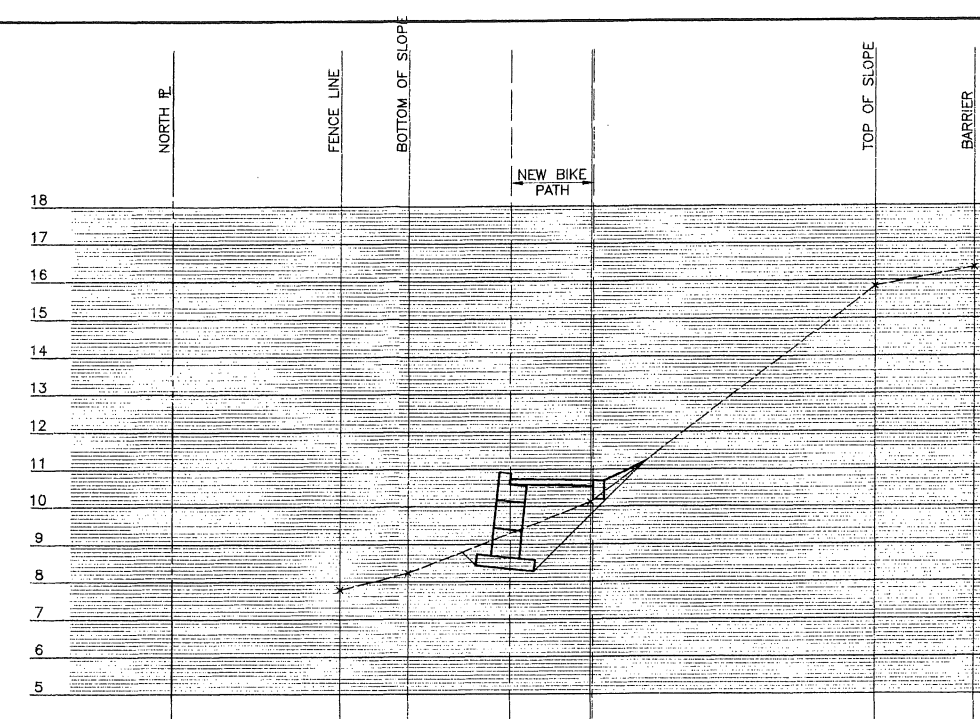
POMEROY ENGINEERING LIMITED 400-6450 ROBERTS STREET BURNABY, B.C. CANADA V5G 4E1 Tel: (604) 294-5800 Fax: (604) 294-0400		MINISTRY OF TRANSPORTATION HIGHWAY DESIGN AND SURVEY ENGINEERING SOUTH COAST REGION	
DESIGNED MF DATE 04.02.04 CHECKED DS DATE 04.02.05 DRAWN KL DATE 04.02.04 REVIEWED GA DATE 04.02.05		STAIRWAY AND DETAILS HWY 99 CYCLING IMPROVEMENTS NORTH END OF LIONS GATE BRIDGE	
Rev	Date	Description	Signature
A	JUNE 2004	AS CONSTRUCTED	
REVISIONS			
SENIOR DESIGNER		DATE	
FILE No.	PROJECT No.	REG.	DRAWING No.
	11748	TRA-2014-00224	R1-492-005
		Page 5	



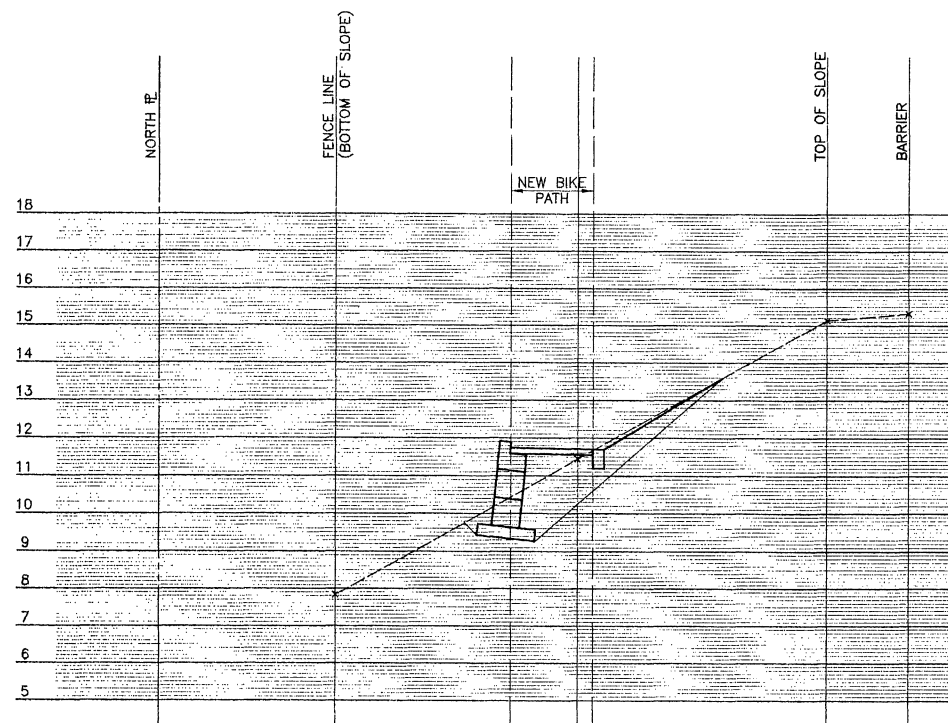
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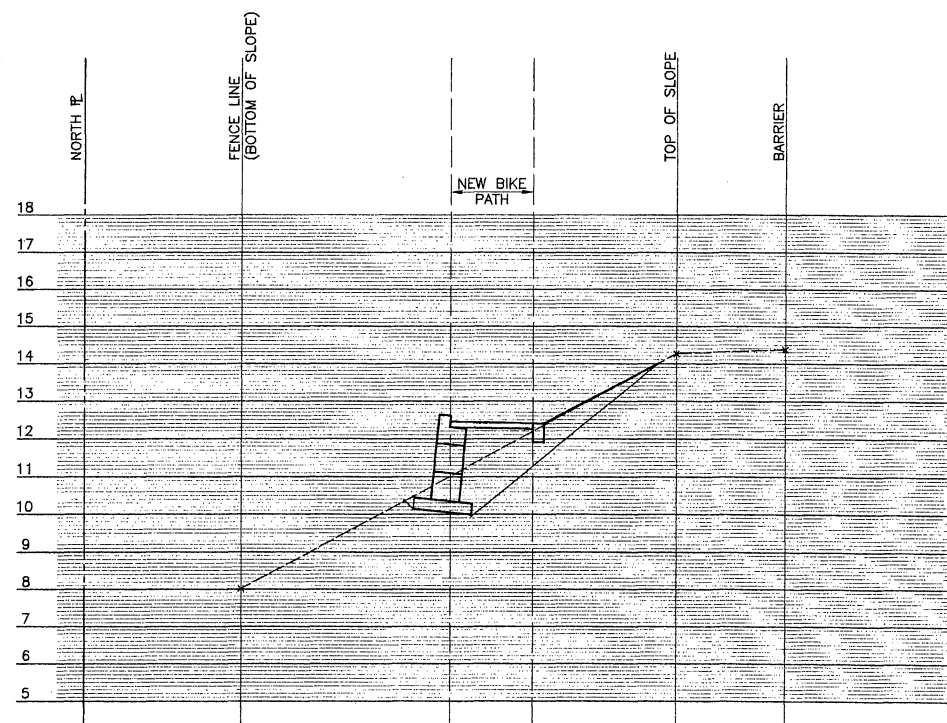
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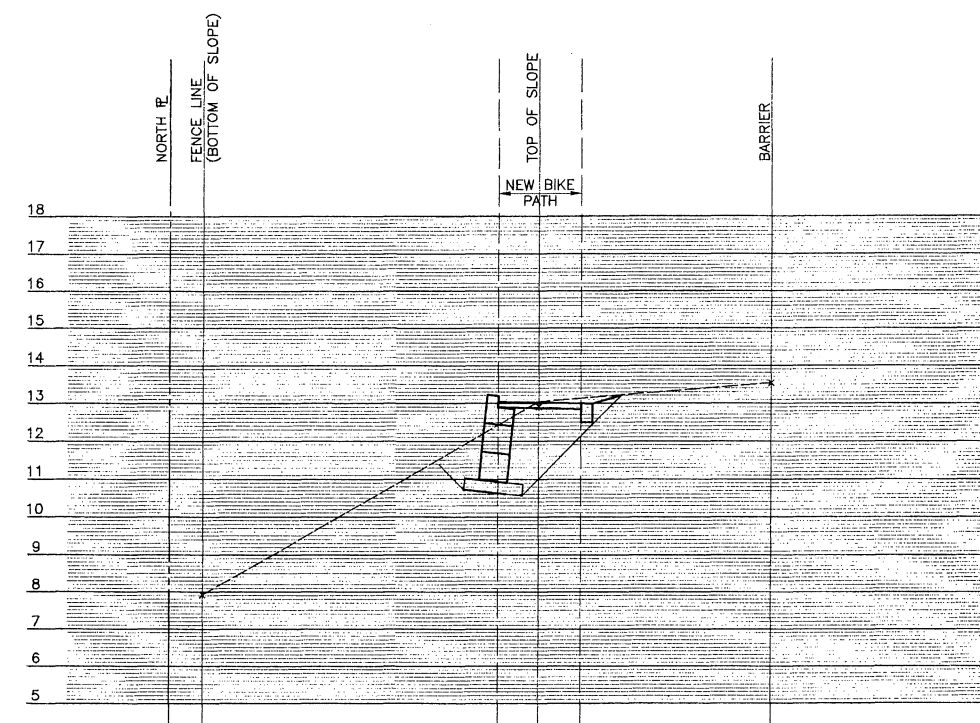
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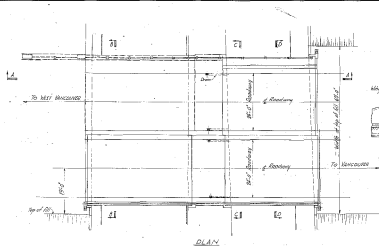


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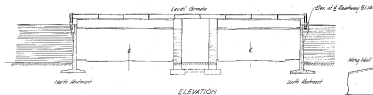
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CERTIFIED CORRECT: *[Signature]*
DATE: Oct 18, 2005
UDO SOMMER
PROJECT SUPERVISOR, M.O.T.

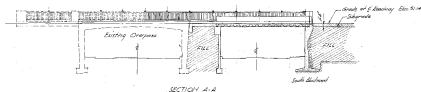
POMEROY ENGINEERING LIMITED 400-6450 ROBERTS STREET BURNABY, B.C. CANADA V5G 4E1 Tel: (604) 294-5800 Fax: (604) 294-0400		MINISTRY OF TRANSPORTATION SOUTH COAST REGION	
DESIGNED MF DATE 04.02.04 CHECKED DS DATE 04.02.05 DRAWN KL DATE 04.02.04 REVIEWED GA DATE 04.02.05		BIKE PATH CROSS SECTIONS HWY 99 CYCLING IMPROVEMENTS NORTH END OF LIONS GATE BRIDGE	
Rev	Date	Description	Signature
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REVISIONS			
SENIOR DESIGNER		DATE	
FILE No.	PROJECT No.	REG.	DRAWING No.
11748	TRA-2014-00224	Page 6	192-006



PLAN



ELEVATION



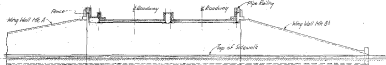
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D



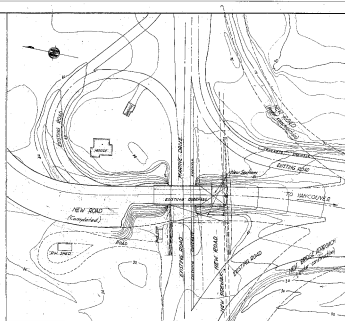
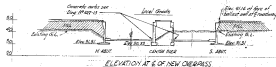
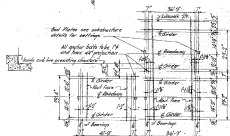
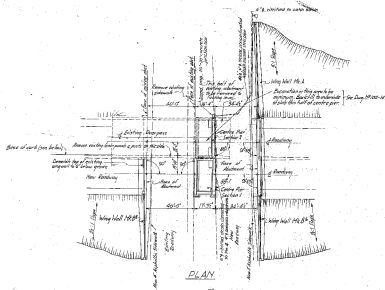
KEY MAP
SCALE 1:10,000

LIST OF DRAWINGS	
NO. 101	PLAN
NO. 102	ELEVATION
NO. 103	SECTION A-A
NO. 104	SECTION B-B
NO. 105	SECTION C-C
NO. 106	SECTION D-D
NO. 107	KEY MAP
NO. 108	LIST OF DRAWINGS
NO. 109	NOTES
NO. 110	NOTES
NO. 111	NOTES
NO. 112	NOTES
NO. 113	NOTES
NO. 114	NOTES
NO. 115	NOTES
NO. 116	NOTES
NO. 117	NOTES
NO. 118	NOTES
NO. 119	NOTES
NO. 120	NOTES

NORTH VANCOUVER DISTRICT
LONG GATE BRIDGE APPROACH
MARINE DRIVE OVERPASS
LAYOUT AND KEY MAP
SCALE: PLAN 1:10,000
SECTION 1:10,000

REVISIONS		DATE	BY	CHKD.
1	Issued for construction	1964	J. H. H. H.	J. H. H. H.
2	Issued for construction	1964	J. H. H. H.	J. H. H. H.
3	Issued for construction	1964	J. H. H. H.	J. H. H. H.
4	Issued for construction	1964	J. H. H. H.	J. H. H. H.
5	Issued for construction	1964	J. H. H. H.	J. H. H. H.
6	Issued for construction	1964	J. H. H. H.	J. H. H. H.
7	Issued for construction	1964	J. H. H. H.	J. H. H. H.
8	Issued for construction	1964	J. H. H. H.	J. H. H. H.
9	Issued for construction	1964	J. H. H. H.	J. H. H. H.
10	Issued for construction	1964	J. H. H. H.	J. H. H. H.

TRA-2014-00224
Page 7



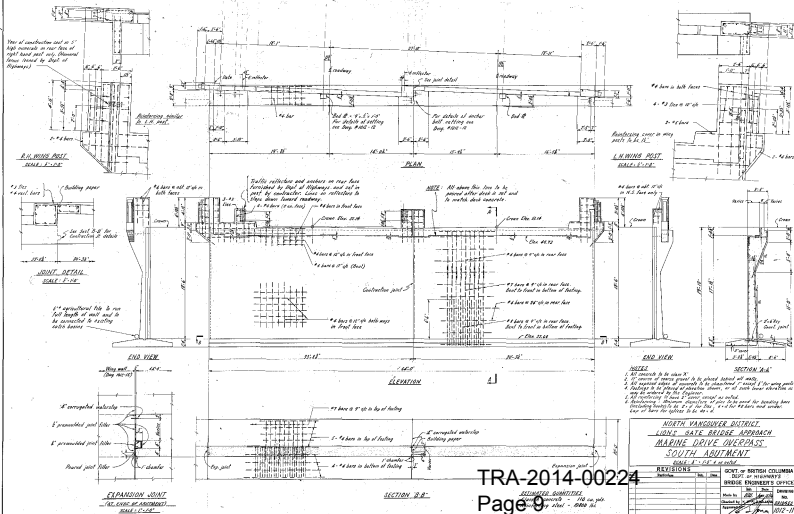
NOTE 5
1. Anchor bolt pipes to be filled with sand-cement grout by steelwork contractor when placing steelwork.

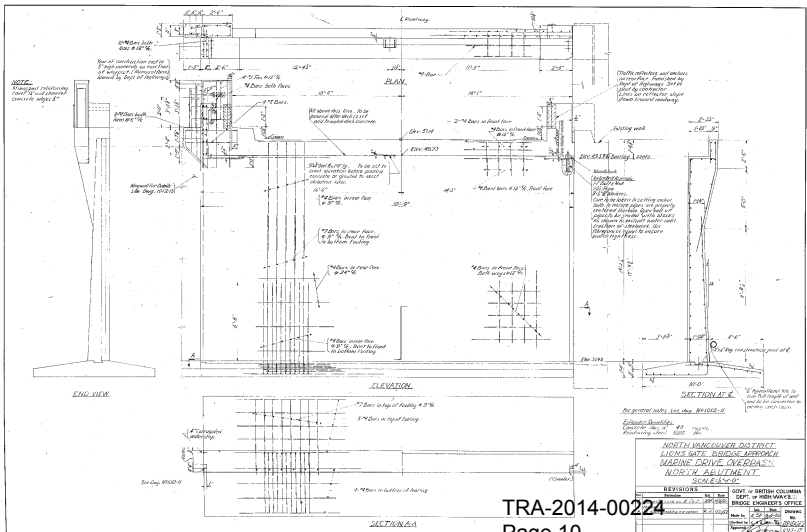
NORTH VANCOUVER DISTRICT
LIGHTS GATE BRIDGE APPROACH
MARINE DRIVE OVERPASS
SUBSTRUCTURE LAYOUT PLAN & ANCHOR BOLT PLAN
SCALE: 1/4" = 1'-0" AS NOTED

REVISIONS			
No.	Description	Date	By
1	Revised to show 1/2" x 1/2" x 1/2" anchor bolts	10/1/81	WJH
2	Added to show 1/2" x 1/2" x 1/2" anchor bolts	10/1/81	WJH
3	Added to show 1/2" x 1/2" x 1/2" anchor bolts	10/1/81	WJH

GOVT. OF BRITISH COLUMBIA
DEPT. OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

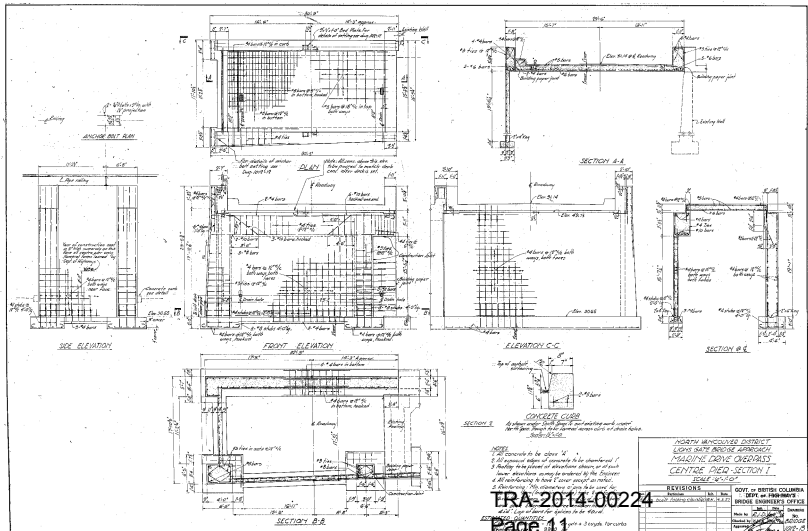
Drawn by: [Signature] Date: 10/1/81
Checked by: [Signature] Date: 10/1/81
Reviewed by: [Signature] Date: 10/1/81
Approved by: [Signature] Date: 10/1/81

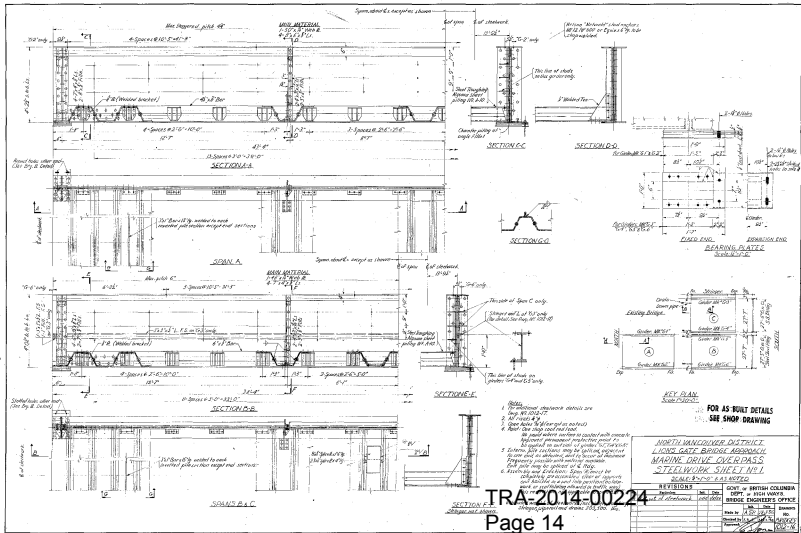


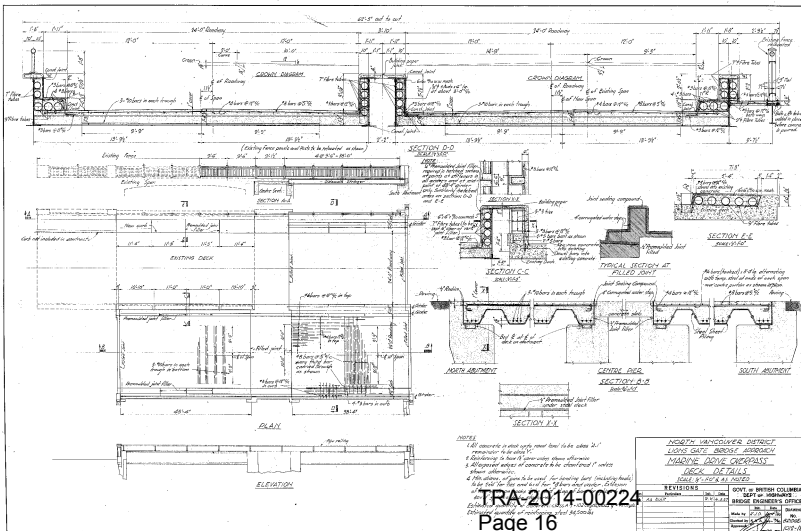


TRA-2014-00224
 Page 10

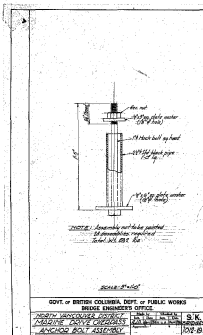
NORTH VANCOUVER DISTRICT LION'S GATE BRIDGE APPROACH MARINE DRIVE OVERPASS NORTH ABUTMENT SCALE 1"=10'			
REVISIONS			
No.	Description	By	Date
1	Revised as per R.C.D. APPROVAL	E. J. J.	APR 1968
2	Revised as per R.C.D. APPROVAL	E. J. J.	MAY 1968
GOVT. OF BRITISH COLUMBIA DEPT. OF HIGHWAYS BRIDGE ENGINEER'S OFFICE			
Made by		Checked by	DRAWN BY
E. J. J.		G. L. J.	NO
Approved by		Checked by	DATE
E. J. J.		G. L. J.	APR 1968





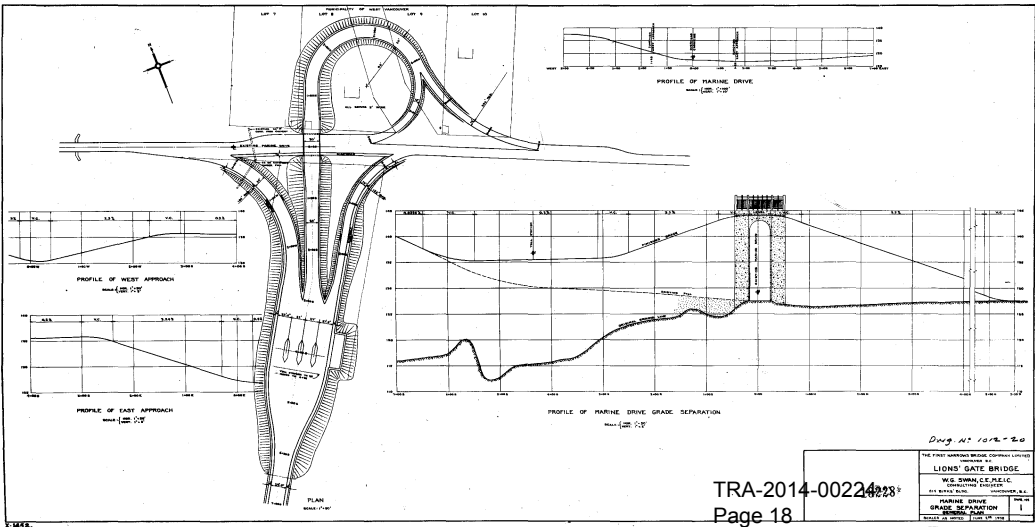


DEPARTMENT OF HIGHWAYS BRIDGE ENGINEERS' OFFICE					
SCHEDULE OF MATERIAL					
MARINE DRIVE OVERPASS					
NORTH VANCOUVER BRIDGE					
TONGUE POINT BRIDGE APPROACH					
ITEM	QUANTITY	DESCRIPTION	UNIT	REMARKS	PRICE
SUBSTRUCTURE					
1	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
2	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
3	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
4	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
5	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
6	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
7	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
8	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
9	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
10	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
11	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
12	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
13	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
14	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
15	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
16	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
17	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
SUBSTRUCTURE					
18	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
19	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
20	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
21	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
22	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
23	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
24	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
25	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
DECK					
26	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
27	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
28	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
29	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
30	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
31	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
32	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00
33	1.00	1.00 cu. yd. concrete	cu. yd.	100.00	100.00



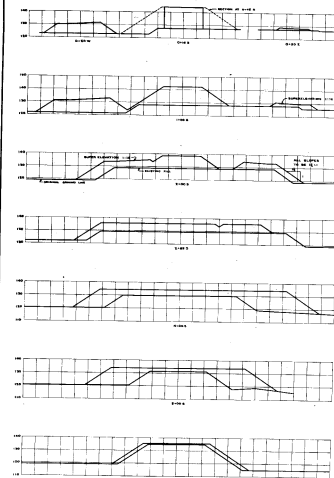
TRA-2014-00224

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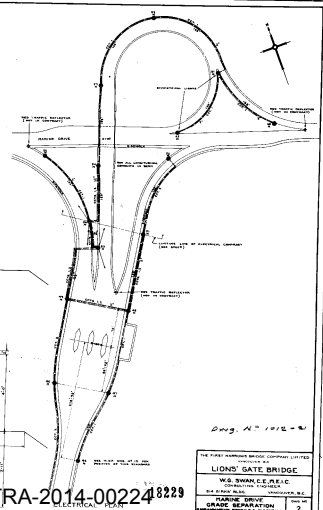
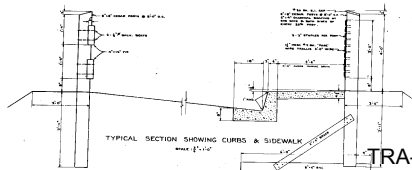
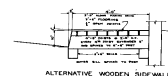
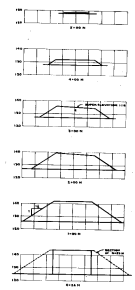


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THE FIRST HARRISON BRIDGE COMPANY LIMITED	
LIONS' GATE BRIDGE	
W.G. SWAN, C.E., P.E., C.	
CONSULTING ENGINEER	
611 BROAD BLVD.	VANCOUVER, B.C.
MARINE DRIVE	
GRADE SEPARATION	SECTION PLAN
SHOWN AS SHOWN	PLAN 1/4" = 10'

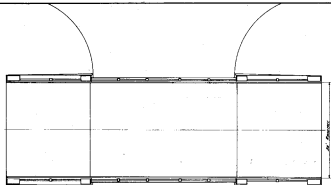


CROSS-SECTIONS THRU FILL
SCALE: 1"=10'

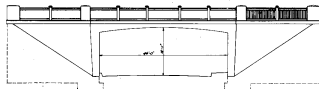


DWG. NO. 1012-2

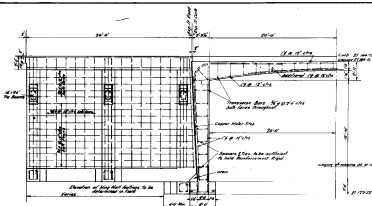
THE FIRST HARRISON BRIDGE COMPANY LIMITED	
LIONS' GATE BRIDGE	
W.S. SWANICE, R.E.C.	
CONSULTING ENGINEER	
214 BRIDGE ROAD,	WINDSOR, N.E.
MARINE DRIVE	
GRADE SEPARATION	
EQUIPMENT DETAILS & ELECTRICAL	
SCALE AS SHOWN	DATE: 10-1-58



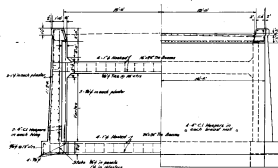
PLAN
SCALE: 1"=10'



ELEVATION
SCALE: 1"=10'

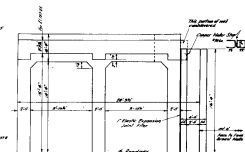


HALF LONGITUDINAL SECTION ON C-C
SCALE: 1"=10'

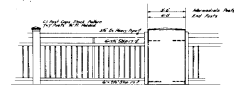


CROSS SECTION THRU WING WALLS
SCALE: 1"=10'

CROSS SECTION ON D-D
SCALE: 1"=10'



PART FOOTING PLAN
SCALE: 1"=10'



FENCE DETAILS

Dwg. No. 1412-22

THE FIRST HARRIS BRIDGE COMPANY LIMITED	
LIONS' GATE BRIDGE	
W.G. SWAN, C.E., E.C.	
CONSULTING ENGINEER	
W.G. SWAN, C.E., E.C.	
MARINE DRIVE	
GRADE SEPARATION	
OVERHEAD CROSSING	
BOULEVARD 101	3

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PROFILE LIONS GATE BRIDGE LANCASTER

Scale — 1" = 1'
 1" = 20'
 Date — November 9, 1960.
 Survey By — J. M. Berry
 Drawn — Assisted Estimated 100.00 @ 5 mm. 1183

