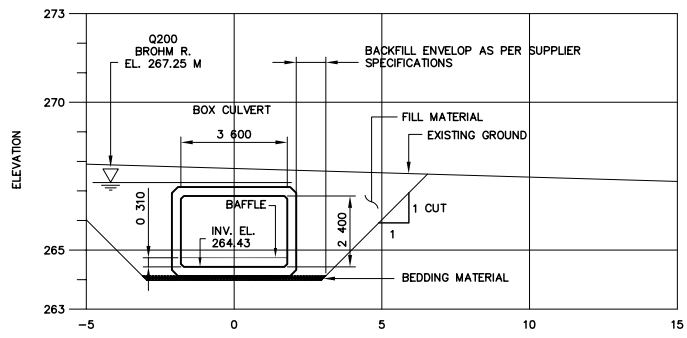
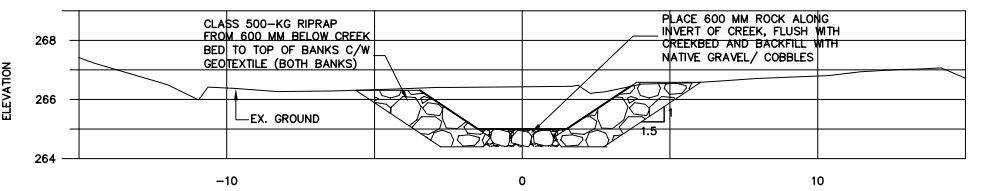


SECTION 1
SCALE 1:100

SECTION 2
SCALE 1:100



SECTION 3
SCALE 1:100



SECTION 4
SCALE 1:100

STRUCTURE #9583
29 280 M CONCRETE BOX CULVERT
(12 PCS @ 2.440)
3 600 (SPAN) X 2 400 (RISE)
310 CONCRETE BAFFLES AT 2 440 CENTRES
SKEW NO. 76 FROM L-100

STRUCTURE NUMBER (SEE DETAIL)
WILL BE SHOPCAST INTO BOX SECTION
OR SITE CAST INTO CONCRETE NIB ON
TOP OF BOX SECTION

PULL BACK BANK TO GUIDE
FLOW THROUGH CULVERT;
PROTECT WITH 100-KG RIPRAP

FENCES (SEE NOTE 12)

PLACE 1 M DIAMETER
BOULDERS AGAINST THE
BANK HERE.

DIVERT BROHM RIVER TO
THIS SIDE CHANNEL DURING
CONSTRUCTION.

EXISTING LOG IN BANK

600 MM ROCK KEYED INTO
BED AT TIE-IN WITH RIVER

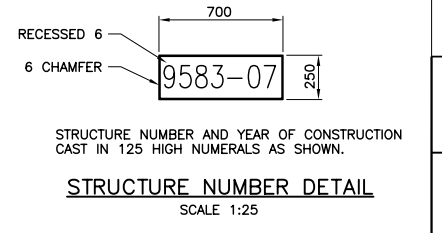
MOT RIPRAP CLASS

BROHM RIVER

EXISTING CULVERT TO BE
REMOVED

SITE PLAN
SCALE 1:250

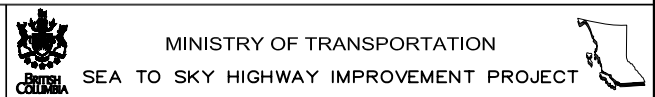
WORK POINTS	COORDINATES			DESCRIPTION
	NORTHING	EASTING	ELEVATION	
W.P. 1	5820325.26	891345.45	264.96	TIE-IN WITH BROHM RIVER
W.P. 2	5820327.93	891335.88	265.19	RIFFLE CREST
W.P. 3	5820328.95	891333.15	263.72	POOL INVERT
W.P. 4	5820328.79	891327.81	263.72	POOL INVERT
W.P. 5	5820328.23	891326.59	264.10	UNDERSIDE OF BOX CULVERT
W.P. 6	5820309.68	891303.94	264.13	UNDERSIDE OF BOX CULVERT



- NOTES:**
- THE BATT CREEK BOX CULVERT WILL BE INSTALLED 0.3 M BELOW GRADE. THE CONCRETE BAFFLES WILL BE BACKFILLED WITH INSITU GRAVEL AND COBBLES.
 - BEDDING AND BACKFILL SPECIFICATIONS FOR THE BOX CULVERT TO BE PROVIDED BY THURBER ENGINEERING LTD.
 - BATT CREEK SHALL BE TEMPORARILY DAMMED UPSTREAM OF THE WORKSITE TO AVOID IMPACTS TO BROHM LAKE LEVELS DURING CONSTRUCTION.
 - THE EXISTING BATT CREEK CULVERT WILL REMAIN IN SERVICE DURING CONSTRUCTION; IT WILL BE REMOVED FOLLOWING CONSTRUCTION.
 - THE BATT CREEK CHANNEL WILL BE PLUGGED AT BOTH ENDS DURING CONSTRUCTION SEDIMENTATION OF ADJACENT RECEIVING WATERS.
 - BEDDING MATERIAL FOR THE BATT CREEK CHANNEL WILL CONSIST OF INSITU GRAVEL AND COBBLE MATERIAL, SCREENED AND PLACED AT A MIN. THICKNESS OF 0.3 M.
 - FOR DETAILS REGARDING RIPARIAN PLANTING FOLLOWING CONSTRUCTION, SEE DWG. PREPARED BY HATFIELD CONSULTANTS LTD.
 - RIPRAP WILL CONFORM TO SECTION 205 OF THE MINISTRY STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 - AMOCO 4512 NON-WOVEN GEOTEXTILE (OR EQUIVALENT) IS TO BE PROVIDED BENEATH ALL RIPRAP.
 - PRECAST CONCRETE BOX CULVERT TO BE CONSTRUCTED TO CSA A23.4-05 WITH REINF. CONCRETE COVER TO TABLE 1 - C1 EXPOSURE.
 - BOX CULVERT DESIGN TO BE TO CSA S6-00, CL 625 LOADING.
 - FENCES TO BE INSTALLED TO SP 741-07.01

- LEGEND**
- Water Sample Locations
 - BIOPHYSICAL HABITAT
 - FISH PRESENT

DWG. No.	Description	Rev	Date	Description	Signature
		1	07/04/04	STR. DIM. REVISED/DWGS RENUM./ISSUED FOR 100% / IFC	BWW
		0	06/08/31	ISSUED FOR 90% / IFC	BWW



DESIGNED DJG DATE 06/06/01
CHECKED BMC DATE 07/04/04
DRAWN AL/JO DATE 07/03/29
APPROVED BWW DATE 07/04/04

SCALE AS SHOWN

**HWY 99 - HORSESHOE BAY TO WHISTLER
DB9
BATT CREEK CULVERT NO. 9583
GENERAL ARRANGEMENT**

Rev	Date	Description	Signature
1	07/04/04	STR. DIM. REVISED/DWGS RENUM./ISSUED FOR 100% / IFC	BWW
0	06/08/31	ISSUED FOR 90% / IFC	BWW

Project Managers Hatch Mott MacDonald	Design Consultant nhc northwest hydraulic consultants	PREPARED UNDER THE DIRECTION OF B. WALSH SENIOR DESIGN ENGINEER DATE 07/04/04
FILE No. 220593-ENIO-H	PROJECT No. 09901	REGION 1
DRAWING No. 9583-102		01