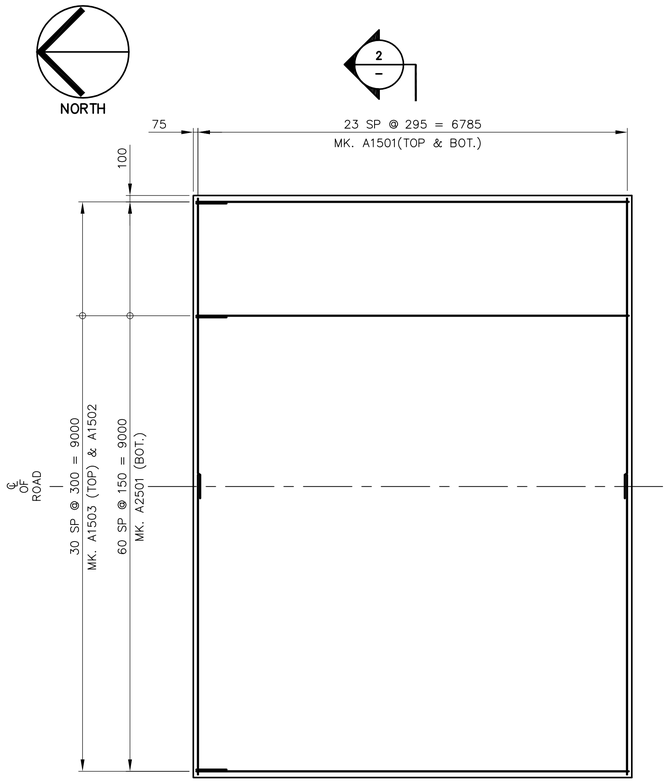
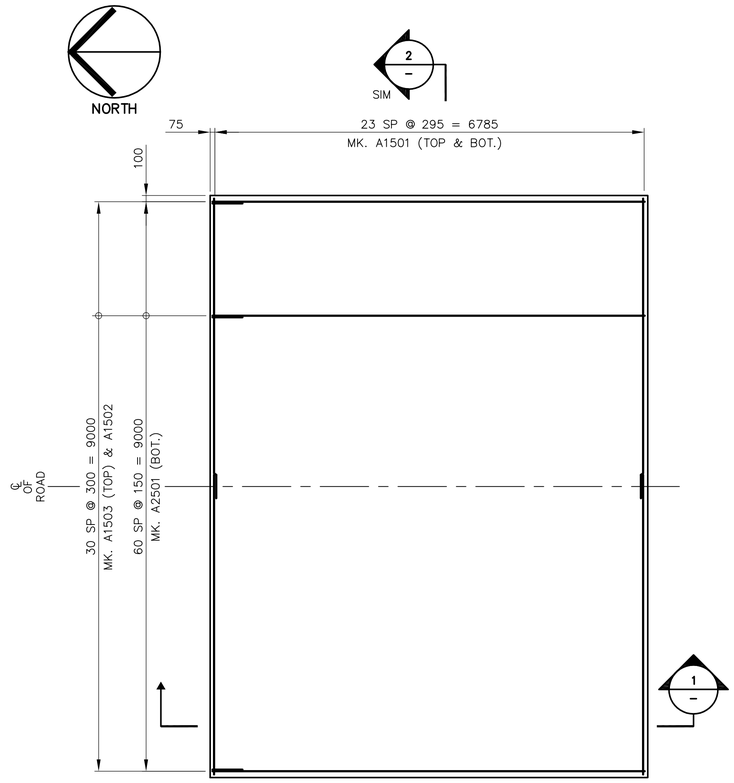
SHEET: COW-A1 (05/2005)



NORTH APPROACH
SCALE 1:50

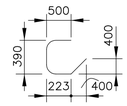


SOUTH APPROACH
SCALE 1:50

BILL OF REINFORCING STEEL
FOR BOTH APPROACH

STRAIGHT BARS				BENT BARS			
MK.	No.	LENGTH	MASS	MK.	No.	LENGTH	MASS
A1501	48	9100	1372	A1502	62	1675	163
A1503	62	6820	664				
A2501	122	6820	3266				
TOTAL MASS OF REINFORCING STEEL							5465 kg
TOTAL VOLUME OF STRUCTURAL CONCRETE (APPROACH SLABS)							33.75 m³

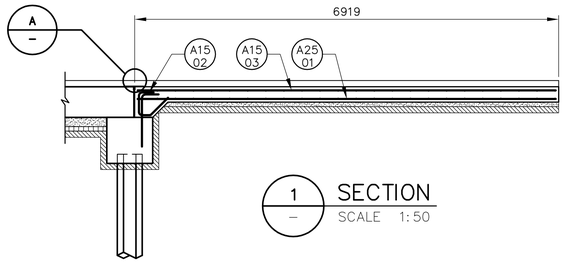
BENDING DIAGRAM



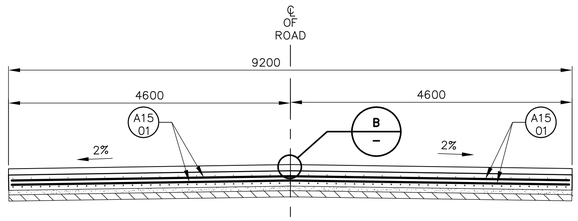
A1502

NOTES:

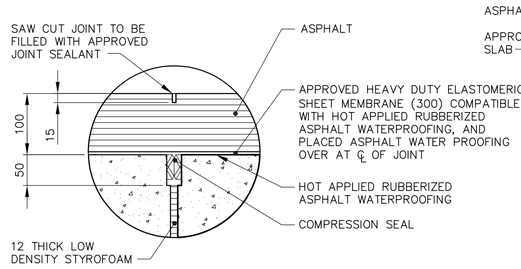
1. ALL DIMENSIONS GIVEN ARE OUT TO OUT, EXCEPT RADII ARE INSIDE DIMENSIONS.
2. ALL REINFORCING STEEL SHALL BE DEFORMED REINFORCING, UNLESS NOTED OTHERWISE IN THE ABOVE BILL OF REINFORCING STEEL.
3. ALL REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.16-M92 GRADE 400W UNLESS NOTED OTHERWISE IN THE ABOVE BILL OF REINFORCING STEEL.
4. LIKE BARS SHALL BE BUNDLED, SECURELY TIED AND IDENTIFIED AS TO MARK AND SITE No. BY APPROPRIATE MEANS. ALL OTHER ITEMS SHALL BE IDENTIFIED IN A SIMILAR FASHION.



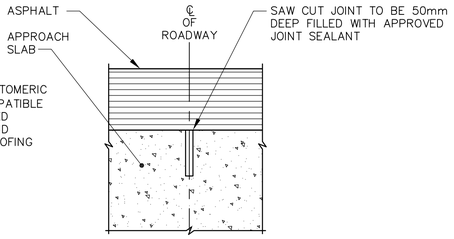
1 SECTION
SCALE 1:50



2 SECTION
SCALE 1:50



A DETAIL
SCALE 1:5



B DETAIL
SCALE 1:5

Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2006

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
00	ISSUED FOR TENDER	06/02/03	KC

CH2MHILL
Fredericksen Cooper ARCHITECTS
EarthTech A Tyco International Ltd. Company

DESIGNED BY	AP	CHECKED BY	EBL
DRAWN BY	KC	APPROVED BY	D.J. TANIGUCHI
SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
DATE		DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL SIGNED BY
E.B. LOEWEN
Member 8325
06/02/06
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
WN-S0493

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT
AQUEDUCT BRIDGES
FOUNDATIONS & CONCRETE STRUCTURES

STRUCTURAL
EASTERN BRIDGE
APPROACH SLAB DETAILS

CITY FILE NUMBER

SHEET 6 OF 8

CITY DRAWING NUMBER
1-060IN-A-S0493-001-00D

Last Save: 2006-02-07 2:31 PM

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