

TRURO CREEK CULVERT SURVEY DATA

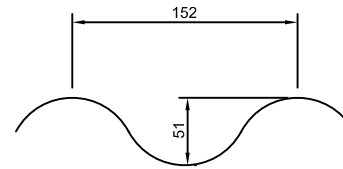
SURVEY CONDUCTED NOVEMBER 18, 2010

STATION	WIDTH	HEIGHT	ELEVATION	COMMENT
0+00	2.62	2.62	100.000	
0+05	2.57	2.57	100.127	INVERT CORRODED THROUGH
0+10	2.55	2.63	99.981	270 O.D. SERVICE PIPE AT 9.5 m
0+15	2.65	2.64	99.923	
0+20	2.70	2.57	99.987	
0+25	2.72	2.57	99.957	
0+30	2.69	2.54	99.947	
0+35	2.72	2.47	99.931	
0+40	2.74	2.47	99.847	
0+45	2.72	2.45	99.852	
0+49.3	2.64	2.59	99.747	

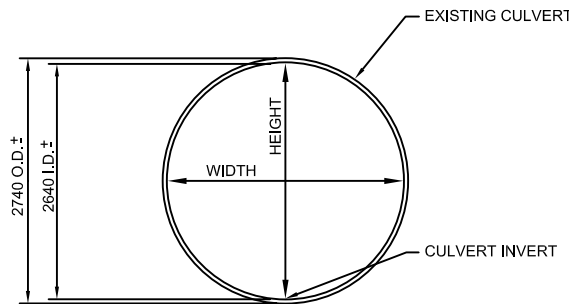
NOTE: - INVERT ELEVATION AT NORTH END OF CULVERT TAKEN AS 100.000.
-150 TO 400 mm OF DEBRIS PRESENT ALONG INVERT OF CULVERT.

NOTES:

1. WORK TO BE UNDERTAKEN IN WINTER WHEN TEMPERATURES ARE BELOW ZERO DEGREES CELCIUS AND CREEK FLOW IS MINIMAL.
2. CONTRACTOR RESPONSIBLE TO BY-PASS PUMP OR OTHERWISE PERMIT ANY FLOWS TO PASS THROUGH CULVERT IF AND WHEN IT IS NECESSARY.
3. CONTRACTOR MAY CLOSE OFF CURB LANES ON PORTAGE AVENUE FOR WORK STAGING / LAYDOWN AREAS.
4. CONTRACTOR MAY CONSTRUCT ACCESS WAYS TO NORTH AND SOUTH END WORK AREAS AND ACCESS WAYS TO BE RESTORED TO PRE-EXISTING CONDITIONS AT COMPLETION OF CONSTRUCTION.
5. CONTRACTOR TO SITE VERIFY AND PROTECT ALL UTILITIES.
6. CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS AND DIMENSIONS.
7. NEW LINER TO BE INSTALLED AND SHIMMED AS REQUIRED TO PROVIDE CONSISTENT GRADE.



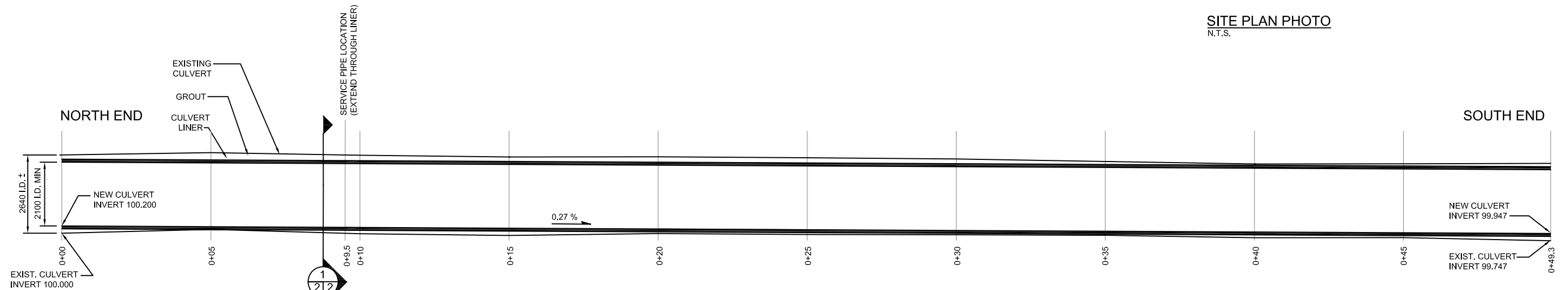
CULVERT CORRUGATIONS
N.T.S.



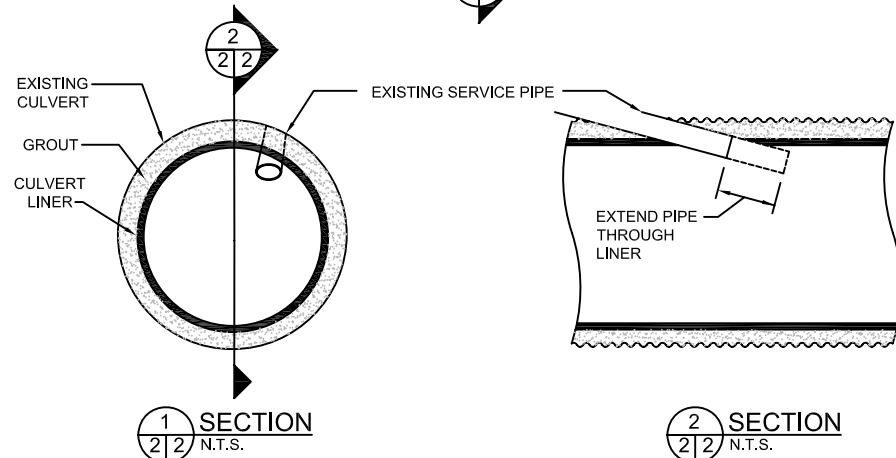
EXISTING CULVERT
N.T.S.



SITE PLAN PHOTO
N.T.S.



CULVERT PROFILE
N.T.S.



SECTION 1
N.T.S.

SECTION 2
N.T.S.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES DATE

NOTE:

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISION	DATE	BY	B.M. ELEV.
1	ISSUED FOR ADDENDUM	02/12/10	M.T.	
0	ISSUED FOR TENDER	25/11/10	M.T.	

DESIGNED BY: D.N.B.
DRAWN BY: M.R.T.
CHECKED BY: D.N.B.
APPROVED BY: D.N.B.
AUTHORIZED BY:
ORIGINAL SIGNED BY D.N. BURMEY
D.N. BURMEY
BRIDGE MAINTENANCE ENGINEER

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL SIGNED BY:
D.N. BURMEY
2010/11/25
REGISTERED PROFESSIONAL ENGINEER
BID OPPORTUNITY NO.:
882-2010

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PORTAGE AVENUE AT TRURO CREEK
CULVERT RELINING

SHEET 2 OF 2
HORIZONTAL: N.T.S.
VERTICAL: N.T.S.
CITY DRAWING NUMBER:
C307-10-02

SITE PLAN PHOTO, SURVEY DATA, PROFILE & NOTES