



CROSS SECTION AA FRENCH DRAIN

CROSS SECTION BB DRAIN SYSTEM

1 Drainage Details
L2

Drainage Design Notes.

1.	Rational Formula Used: Existing System				
	Q = CIA for 5 Yewar Strom				
	Q = CIA				
	C = .1	Given			
	l = 2.99	$l = K/t + 8^A \cdot 828$	$K = 47.2$	$t = 20 + 8 \text{ min.}$	$b = .828$
	A = 1.68 Acres				
1.1	Design Flow	CFS = $l \times C \times A$.50 CFS		
2	Proposed System				
2.1	Given no change to grades, and given that storm water drains to an existing system, event load to the existing system is insignificant.				
2.2	Direct connect to existing CB with 150mm Std. pipe.				

Approx. Location of CB (1991)
RIM ELEV: 31.87
INVERT: 30.52

Survey Grades may be related to Geodetic Grades at this location.
31.87 Geodetic = 99.71 Survey

250 LDS 30.5 AT 2.0%

MH (not visible on site)

LEGEND

- MH Existing Utilities City of Winnipeg 1991
- 99.6 Existing Grades 2005 Survey SEG Engineering
- +BT 99.7 Proposed Grade Bottom of Trench
- +BFD 99.7 Proposed Grade Bottom of French Drain Trench

NOTE: DO NOT SCALE - DRAWING PLOT MAY NOT BE AT 100%
DATE ISSUED August 1, 2006



School Property
Parks Property

