

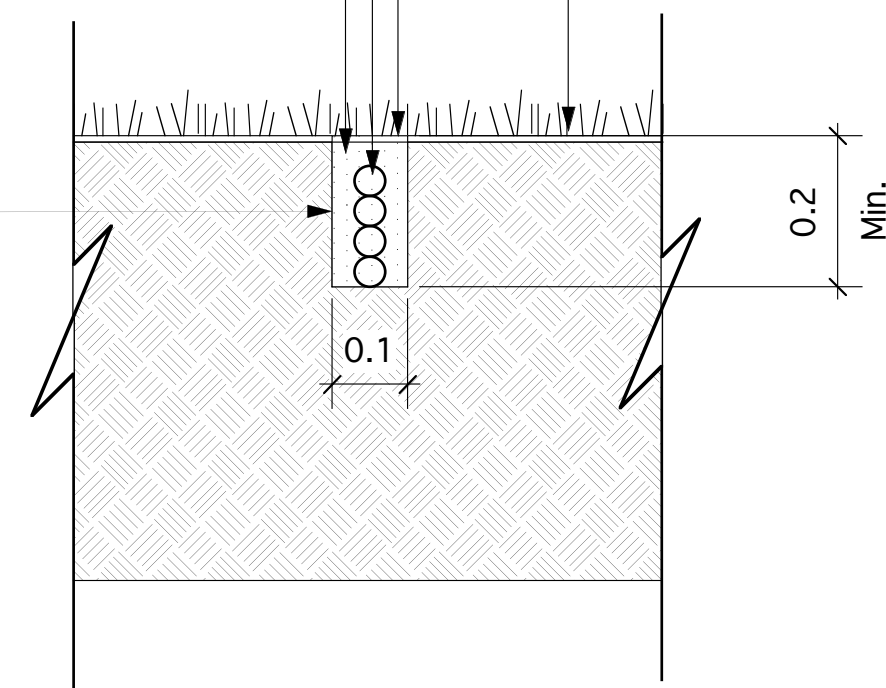
150mm Multi Flow Drain System c/w End caps And Connectors
Place in centre of trench.
Bottom of trench elevation and slope of drain to be as shown on plan.

Grass seed directly into coarse sand.

Existing Turf and Grade
Protect existing turf at edges of trench.

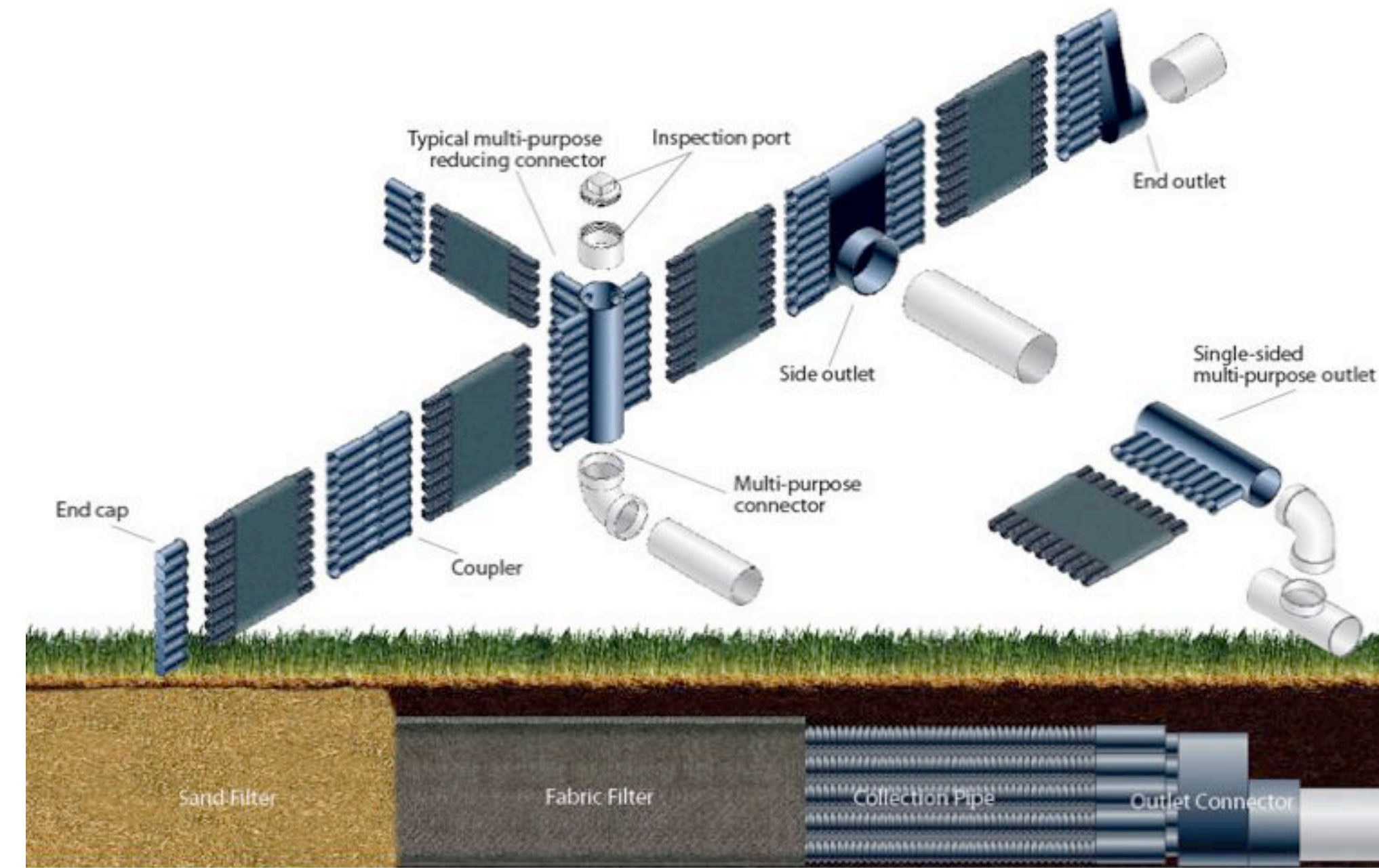
Trench backfill to be coarse sand w. min. particle size of 2mm

Dispose of all trenched material off site.



CROSS SECTION DRAIN SYSTEM

2 Multi-Flow Drain and Trench Detail



1 Typical Multi FLOW Installation

Drainage Design Notes.

1.	Rational Formula Used: Existing System				
	$Q = CIA$ for 5 Yewar Storm				
	$Q = CIA$				
	$C = .1$	Given			
	$I = 2.99$	$I = K / t + 8 \wedge .828$	$K = 47.2$	$t = 20 + 8 \text{ min.}$	$b = .828$
	$A = 1.25 \text{ Acres}$				
1.1	Design Flow	$CFS = I \times C \times A$.37 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 wwith 150mm Std. pipe.				

Notes:
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.

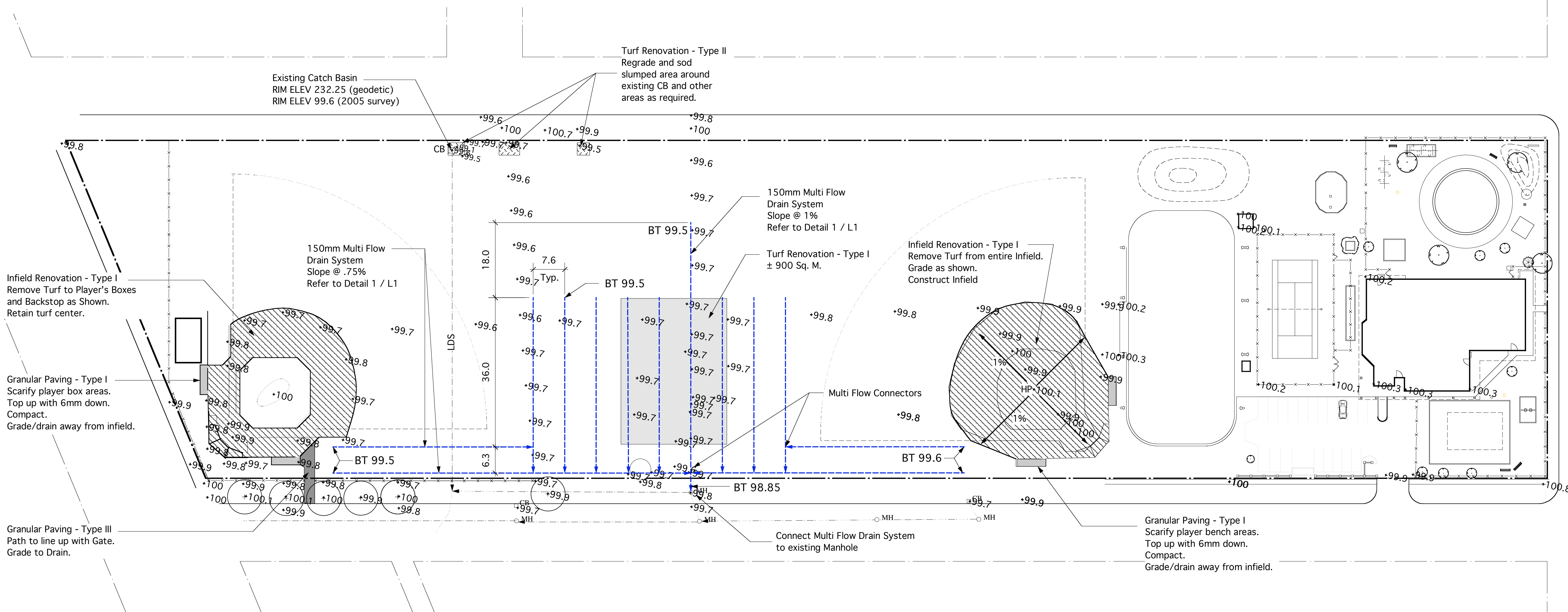
NOTE: DO NOT SCALE - DRAWING PLOT MAY NOT BE AT 100%

DATE ISSUED

August 1, 2006

LEGEND

- Existing Grades
- 99.9 SEG Engineering 2005
- BT 99.5 Proposed Grades- Bottom of Trench



Manager Parks and Open Space Division
Released For Construction Date

North	
Project	Park and Athletic Field Renovations
Sheet Title	Burton Cummings C.C. 900 Arlington St. Winnipeg, Mb. R3E 2E5
Drawn	LI.W/DW
Date	June 7, 2006
Scale	1:500 metric
Job No.	0512BC
Drawing No.	L1