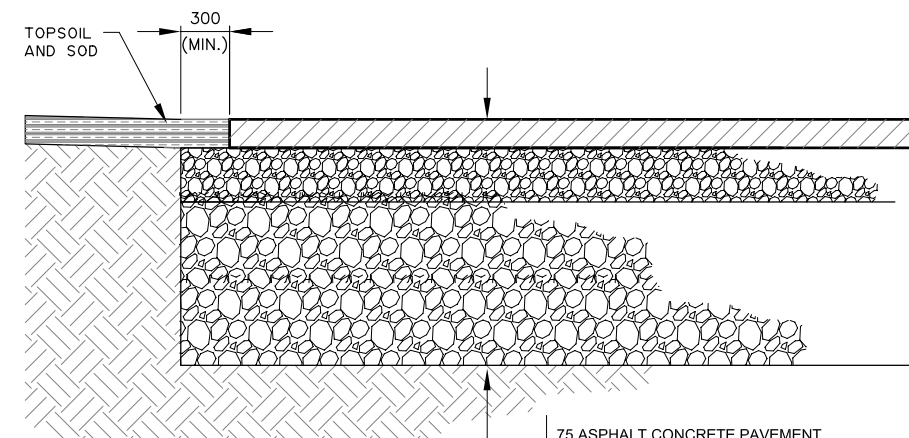
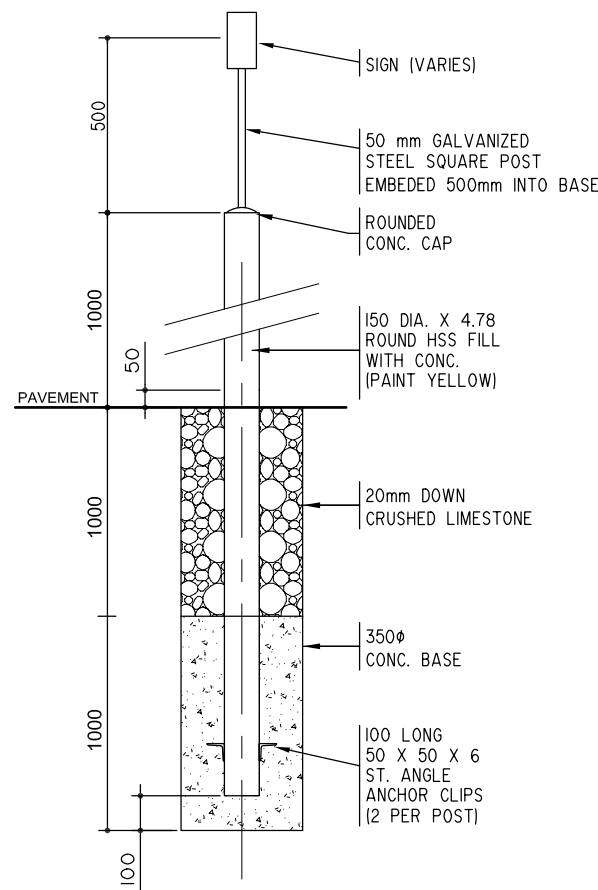


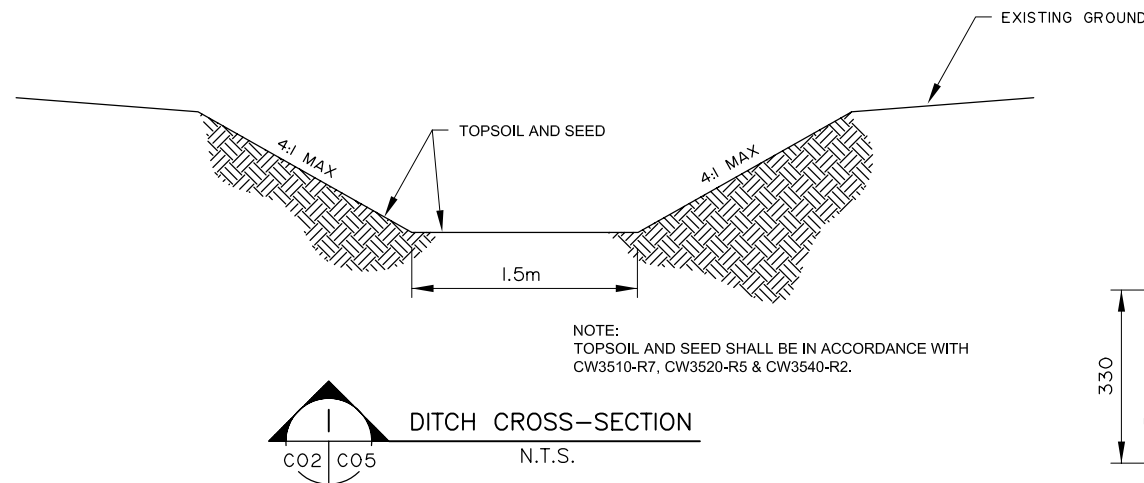
**LIGHT DUTY PAVEMENT STRUCTURE**  
N.T.S.



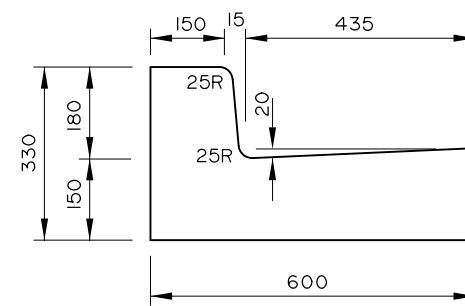
**HEAVY DUTY PAVEMENT STRUCTURE**  
N.T.S.



**3 SIGN POST BASE/MOUNTING DETAIL**  
N.T.S.



**DITCH CROSS-SECTION**  
N.T.S.



**2 BARRIER CURB & GUTTER DETAIL**  
N.T.S.

150 mm WM	WATERMAIN	150 mm WM	HYDRO	150 mm WM	WATERMAIN
⊕	HYDRANT	⊕	MTS	⊕	HYDRANT
⊙	VALVE	⊙	CONCRETE	⊙	VALVE
300 mm LDS	LAND DRAINAGE SEWER	300 mm LDS	LIMIT OF ASPHALT	300 mm LDS	SEWER
250 mm CS	COMBINED SEWER	250 mm CS	CURB RENEWAL	300 mm LDS	
□	MANHOLE	●	ASPHALT		
▣	CATCH BASIN (CB)	■	ELEVATIONS		SOUTH/EAST R
△	CATCH PIT (CP)	▲	PROPERTY LINE		NORTH/WEST R
⊕	SIGN	⊕	SURVEY BAR		Q PROFILE
⊕	LAMP STANDARD	⊕	CURB STOP		SOUTH/EAST GUTTER
⊕	GAS	⊕	RAMP CURB		NORTH/WEST GUTTER
EXISTING	LEGEND - PLAN	NEW	EXISTING	NEW	EXISTING

**LOCATION APPROVED UNDERGROUND STRUCTURES**

NO. REVISIONS      DATE      BY

B.M. (38-037) 235.778m  
W. SIDE OF WOODLAWN ST. N. OF NESS AVE., TBLT IN E. CONC. FOUNDATION OF ST. JAMES CIVIC CENTRE, 18m N. OF S.E. CORNER OF BLDG & 0.3m BELOW CONC. BLOCK.

**COCHRANE ENGINEERING LTD.**  
#600 - 9 DONALD STREET  
WINNIPEG, MANITOBA, R3L 2T4  
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DESIGNED BY: D.T.B.      CHECKED BY: B.D.E.  
DRAWN BY: D.T.B.      APPROVED BY: D.T.B.

HOR. SCALE: N.T.S.

DATE: AUGUST 12, 2005

ENGINEER'S SEAL  
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**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT

MISCELLANEOUS DETAILS

CITY DRAWING NUMBER 485-2005-C05  
SHEET 5 OF 6  
REV. 5 0

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**APEGM**  
Certificate of Authorization  
Cochrane Engineering Ltd.  
No. 227 Expiry: April 30, 2008