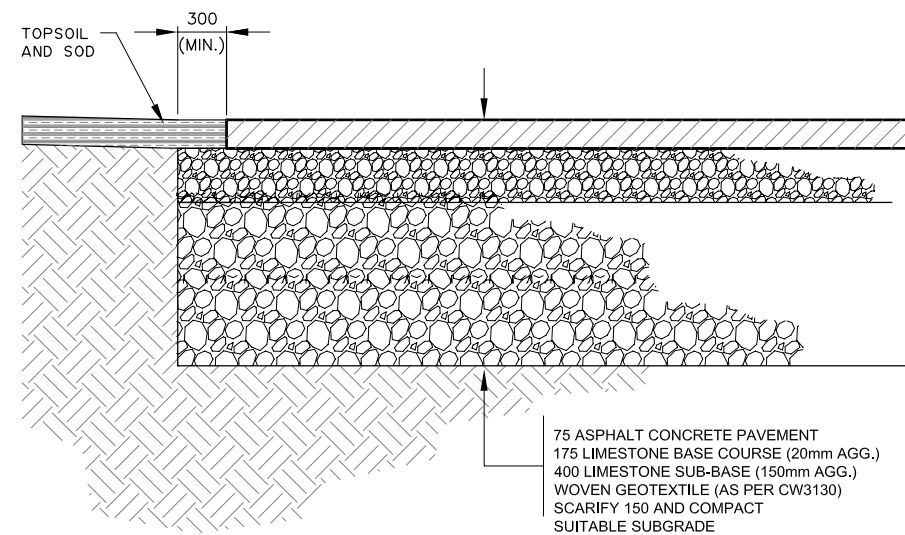
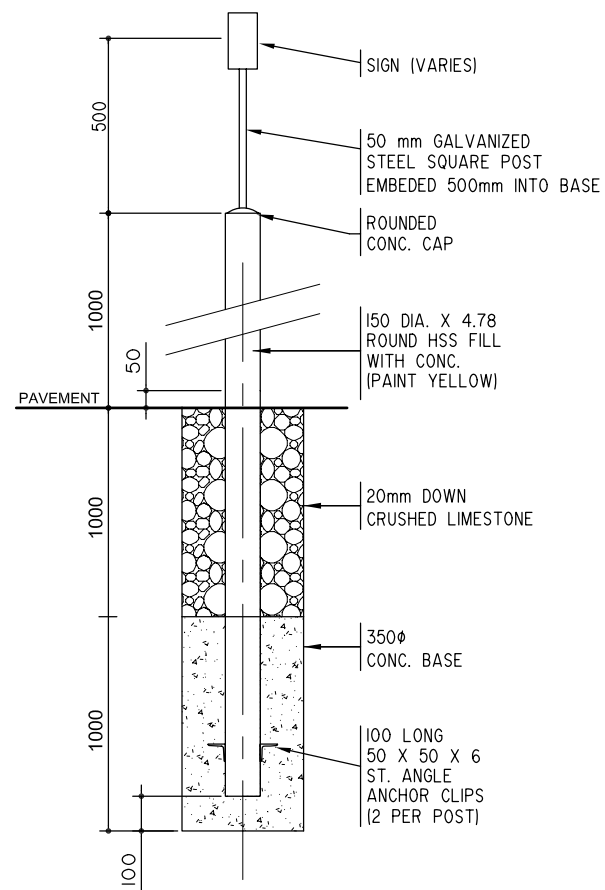


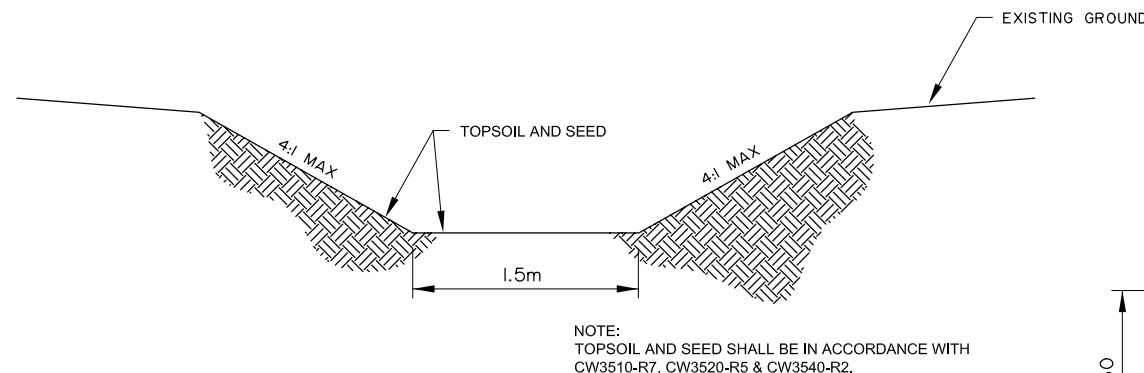
**LIGHT DUTY PAVEMENT STRUCTURE**  
N.T.S.



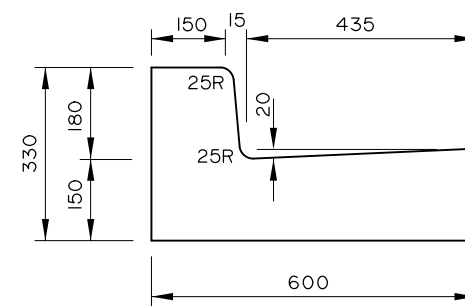
**HEAVY DUTY PAVEMENT STRUCTURE**  
N.T.S.



**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 LOS	SEWER
250 mm CS	COMBINED SEWER	250 mm CS	CURB RENEWAL		
○	MANHOLE	●	ASPHALT		
□	CATCH BASIN (CB)	■	ELEVATIONS	31.000	SOUTH/EAST R
△	CATCH PIT (CP)	▲	PROPERTY LINE		NORTH/WEST R
⊕	SIGN	⊕	SURVEY BAR		⊕ PROFILE
⊕	LAMP STANDARD	⊕	CURB STOP		SOUTH/EAST GUTTER
⊕	GAS	⊕	RAMP CURB		NORTH/WEST GUTTER
---	EXISTING	---	NEW	---	EXISTING
---	LEGEND - PLAN	---	LEGEND - PROFILE	---	NEW

**LOCATION APPROVED UNDERGROUND 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.

**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 - 5 DONALD STREET  
WINNIPEG, MANITOBA, R3L 2T4  
TEL: (204) 477-5850  
FAX: (204) 474-2864

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.

ISSUED FOR TENDER: 06/03/31 D.T.B.  
NO. REVISIONS DATE BY

DATE: AUGUST 12, 2005

ENGINEER'S SEAL  
D.T. BLACKBURN  
Member  
23146  
REGISTERED PROFESSIONAL ENGINEER

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT

MISCELLANEOUS DETAILS

CITY DRAWING NUMBER: 218-2006-C05  
SHEET 5 OF 6

REV. 5 0

CONSULTANT DRAWING NO. 05047C05

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

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