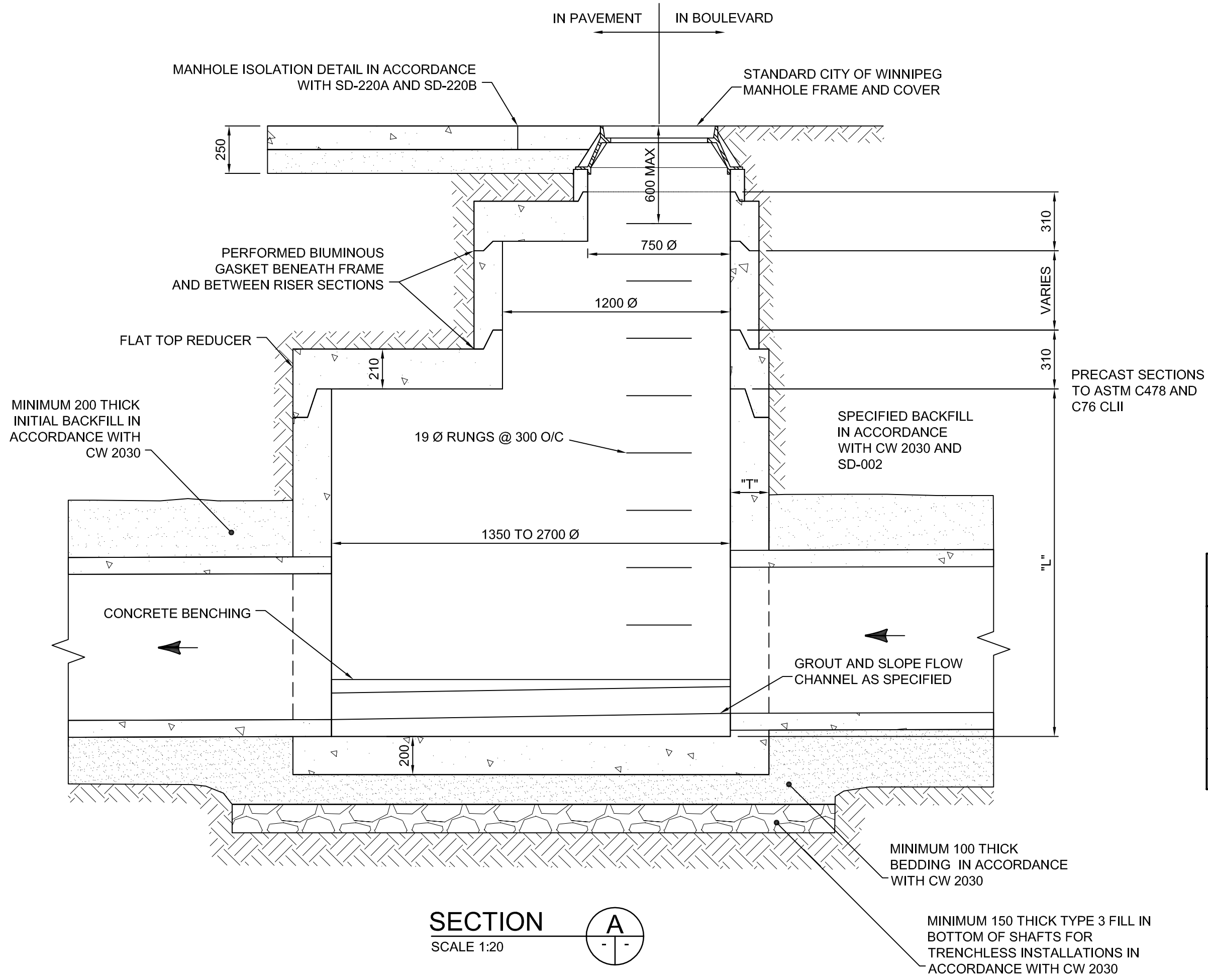


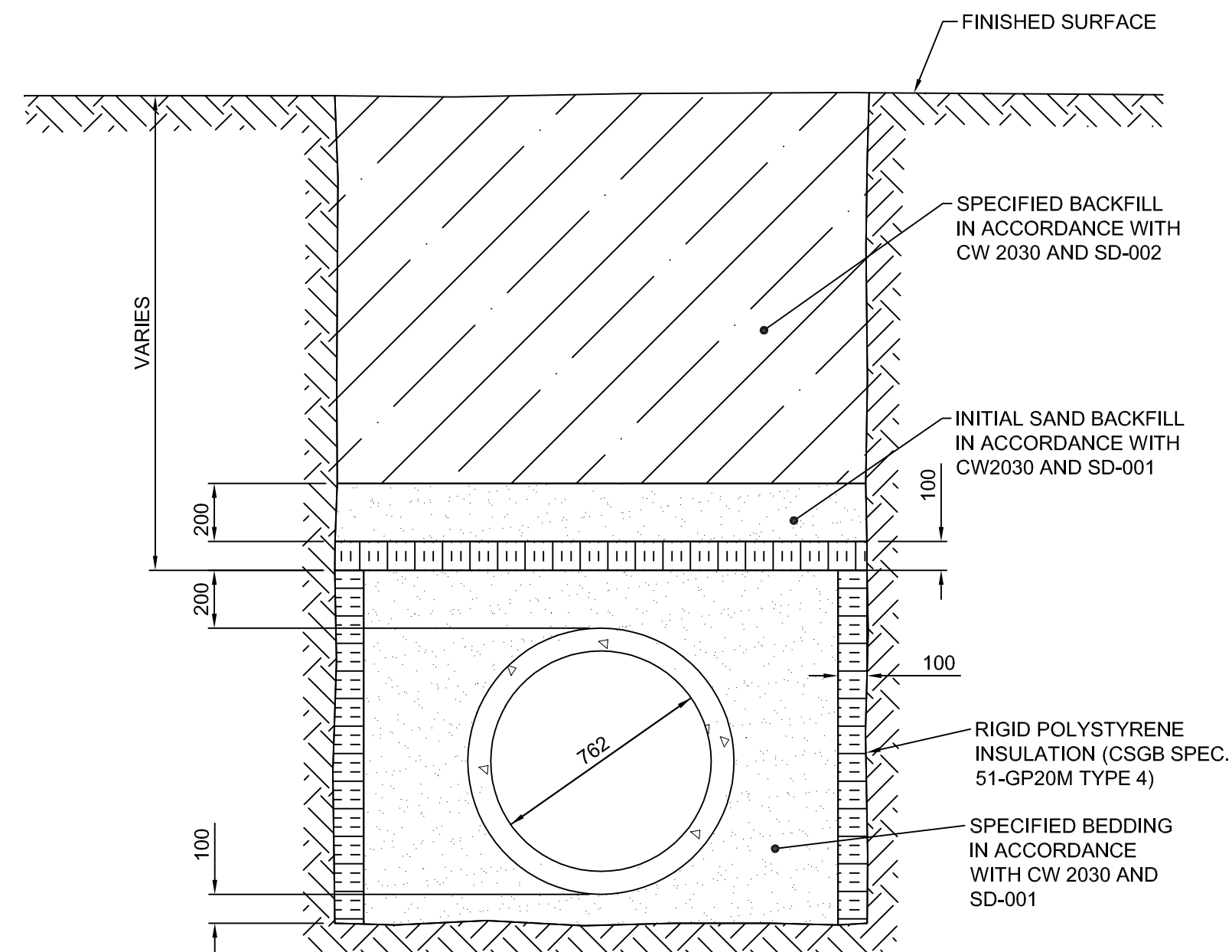
**DETAIL 1**  
SCALE 1:50

**PLAN LAYOUT FOR MH 25**



**SECTION A-A**  
SCALE 1:20  
**TYPICAL LARGE DIAMETER MANHOLE**

MH DIAMETER (mm)	WALL THICKNESS "T" (mm)	STANDARD BARREL HEIGHT "L" (m)
1350	140	1.83
1500	153	1.83
1800	197	1.83
2100	203	2.25
2400	229	2.25
2700	254	2.25



**DETAIL 2-2**  
SCALE 1:20

**TYPICAL INSULATION DETAIL FOR PIPE IN AN EXCAVATION**



LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.	DESIGNED BY	C.L.P.
ORIGINAL SIGNED BY DERRICK SAEDEL 23/02/09		DRAWN BY A.J.P.	
SUPV. U/G STRUCTURES COMMITTEE		CHECKED BY ORIGINAL SIGNED BY SHANE COOPER	
DATE		APPROVED BY ORIGINAL SIGNED BY DAVE KRAHN	
		HOR. SCALE SEE LABELS	
		VERTICAL	
		DATE 25-02-09	
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.			
2 ISSUED FOR TENDER	25/02/09	S.C.C.	
1 ISSUED FOR 95% REVIEW	02/02/09	C.L.P.	
NO. REVISIONS	DATE	BY	DATE


RELEASED FOR CONSTRUCTION  
 ORIGINAL SIGNED BY RANDY FINGAS  
 DATE

ENGINEER'S SEAL  
 PROVINCE OF MANITOBA  
 D.P. KRAHN  
 25/02/09  
 Member 4226  
 REGISTERED PROFESSIONAL ENGINEER  
 CONSULTANT PROJECT NO. 088813

**THE CITY OF WINNIPEG TRANSIT DEPARTMENT**  
 SOUTHWEST RAPID TRANSIT CORRIDOR - STAGE 1  
 LAND DRAINAGE CONSTRUCTION & ASSOCIATED WORKS  
 CATCH BASIN AND MANHOLE DETAILS  
 CITY DRAWING NUMBER LD-5292  
 SHEET 15 OF 15  
 CONSULTANT DRAWING NUMBER C1-U4011