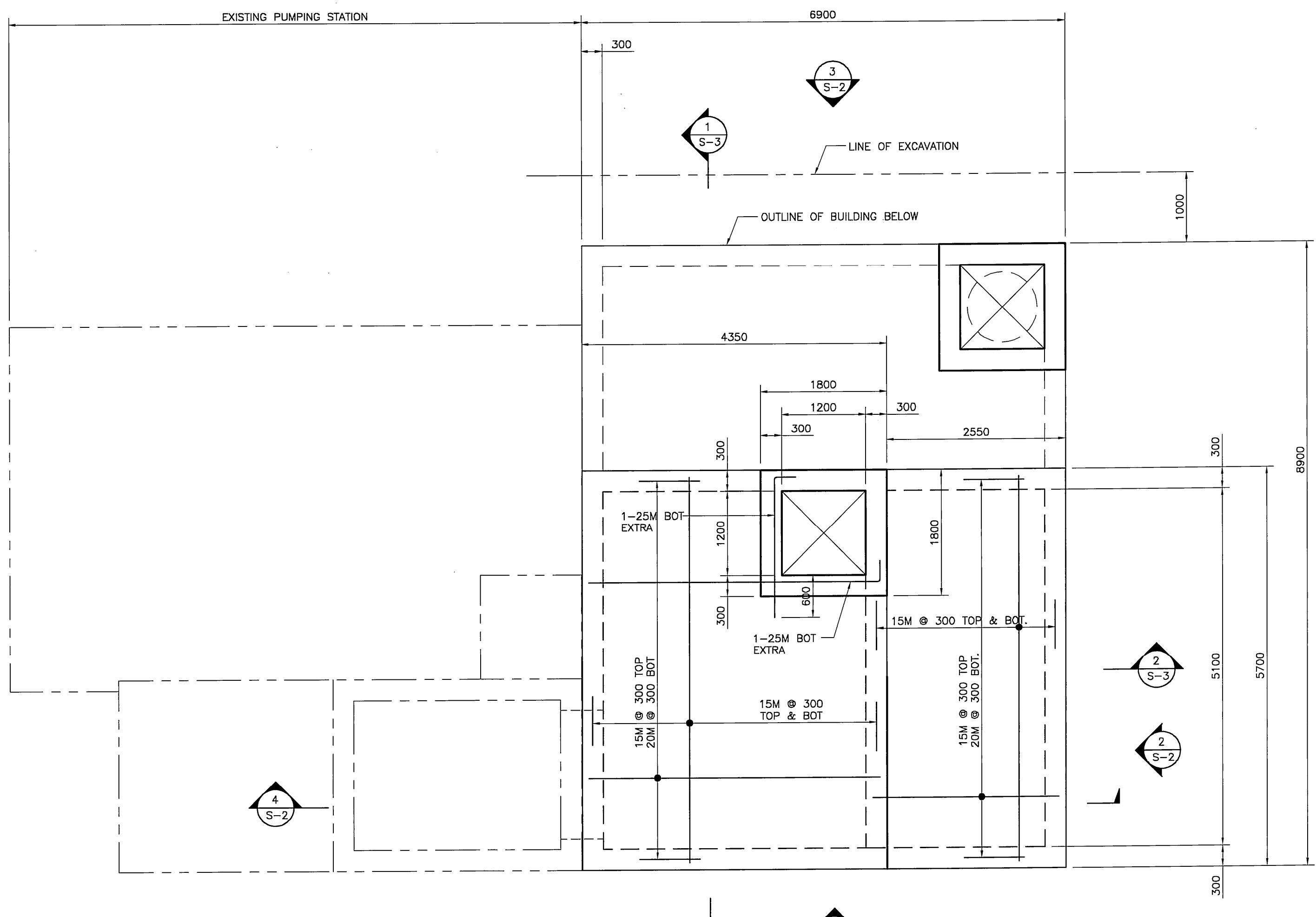
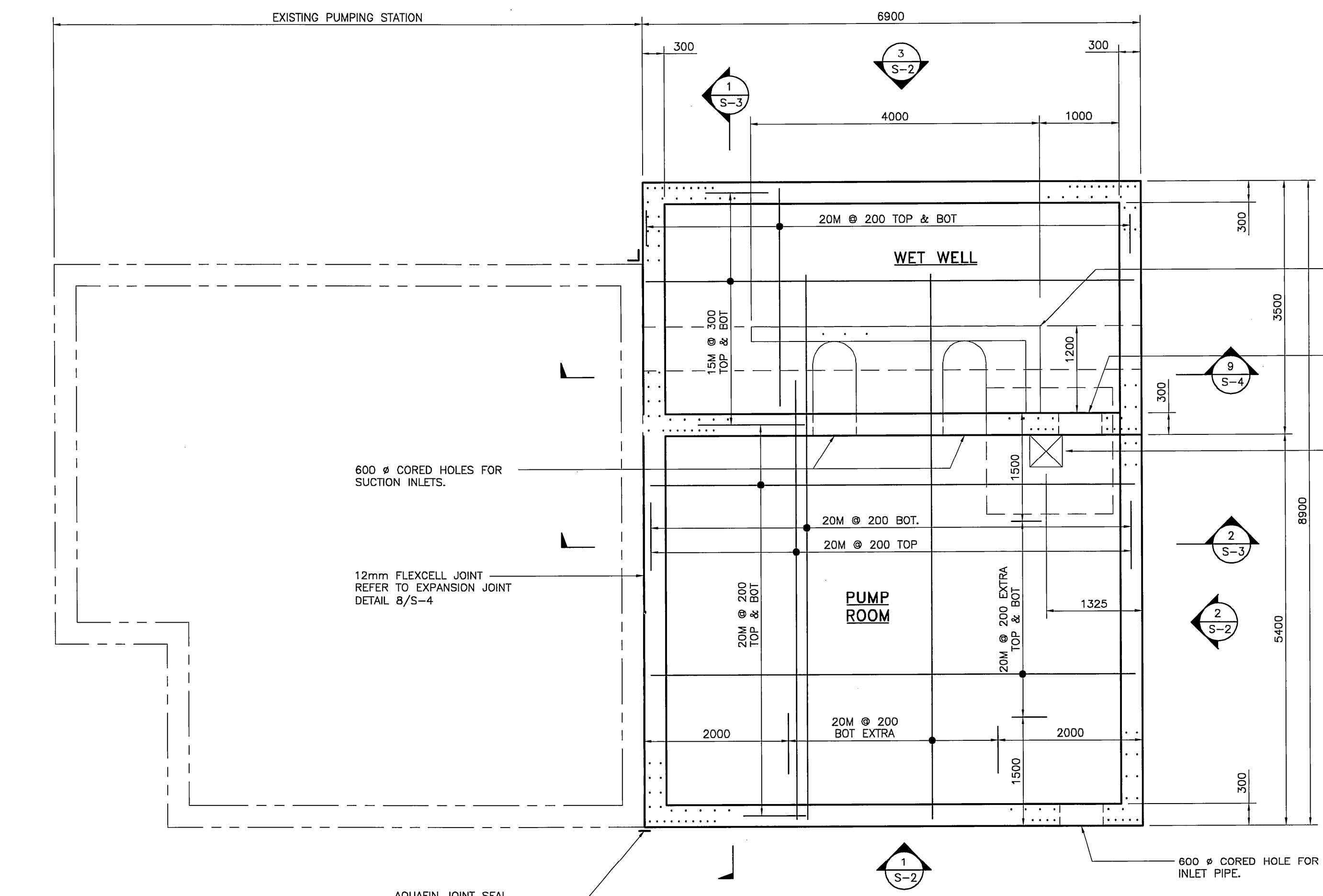


2 PLAN - SLAB EL. 225.346  
SCALE: 1:50



3 PLAN - TOP SLAB AT EL. 229.184 & EL. 228.084  
SCALE: 1:50



1 PLAN - BOTTOM SLAB EL. 222.850 / 222.246  
SCALE: 1:50

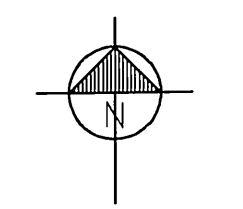
**GENERAL NOTES**  
ALL WORK TO BE DONE IN ACCORDANCE WITH THE MANITOBA BUILDING CODE AND ALL STANDARDS REFERENCED THEREIN.  
CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, SLOPES AND CONDITIONS ON SITE PRIOR TO STARTING CONSTRUCTION.  
IF ANY UNSOUND STRUCTURAL CONDITIONS ARE CREATED OR OBSERVED DURING CONSTRUCTION, REPORT THEM IMMEDIATELY TO THE CONTRACT ADMINISTRATOR.

**CONCRETE**  
ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH CW2160 AND THE LATEST EDITION OF CAN3-A23.1 FOR "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".  
CALCIUM CHLORIDE IS NOT PERMITTED.  
CEMENT SHALL BE TYPE 50 SULPHATE RESISTANT CEMENT  
CONCRETE:  
MINIMUM CONCRETE STRENGTH @ 28 DAYS TO BE 25 MPa  
MAXIMUM AGGREGATE SIZE TO BE 20mm.  
MAXIMUM SLUMP TO BE 75mm (± 25mm).  
AIR ENTRAINMENT TO BE 4% - 7%.

NOTIFY CONTRACT ADMINISTRATOR AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE FOR INSPECTION.

**REINFORCING STEEL**  
ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH CSA 30.18 GRADE 400.  
ALL REINFORCING STEEL TO BE FREE FROM RUST, OIL, MUD OR OTHER COATINGS WHICH WOULD REDUCE BOND.

**BACKFILL**  
ALL BACKFILL TO BE IN ACCORDANCE WITH CW 2030 CL 2.



B.M. ELEV.	FIELD BOOK #:	<b>D.H. ROBBINS ENGINEERING</b> CONSULTING STRUCTURAL ENGINEERS 114 Ruttan Bay, Winnipeg, Manitoba, R3T 0H6		ORIGINAL SIGNED BY D.H. ROBBINS 05/02/09
POSTED TO LBIS		DESIGNED BY: DHR	CHECKED BY: TW	
		DRAWN BY: DLL	APPROVED BY: K. ZUREK	2005 MAGER DRIVE WASTEWATER PUMPING STATION EXPANSION STRUCTURAL REINFORCING PLANS, GENERAL NOTES
3 GENERAL REVISIONS	05/01/17	HOR. SCALE AS NOTED	RELEASED FOR CONSTRUCTION: K. ZUREK	
2 GENERAL REVISIONS	04/12/13	VERTICAL AS NOTED	DATE: 2005 02 10	
1 GENERAL REVISIONS	04/11/02	DATE: 2004 03 04	DATE: 2005 02 10	BID OPPORTUNITY: 52-2005 FILENAME: PLOT DATE:

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

2005 MAGER DRIVE WASTEWATER  
PUMPING STATION EXPANSION  
STRUCTURAL REINFORCING  
PLANS, GENERAL NOTES

SHEET 2 of 12  
CONSULTANT DRAWING NUMBER 04401-05-S1  
CITY DRAWING NUMBER 05550