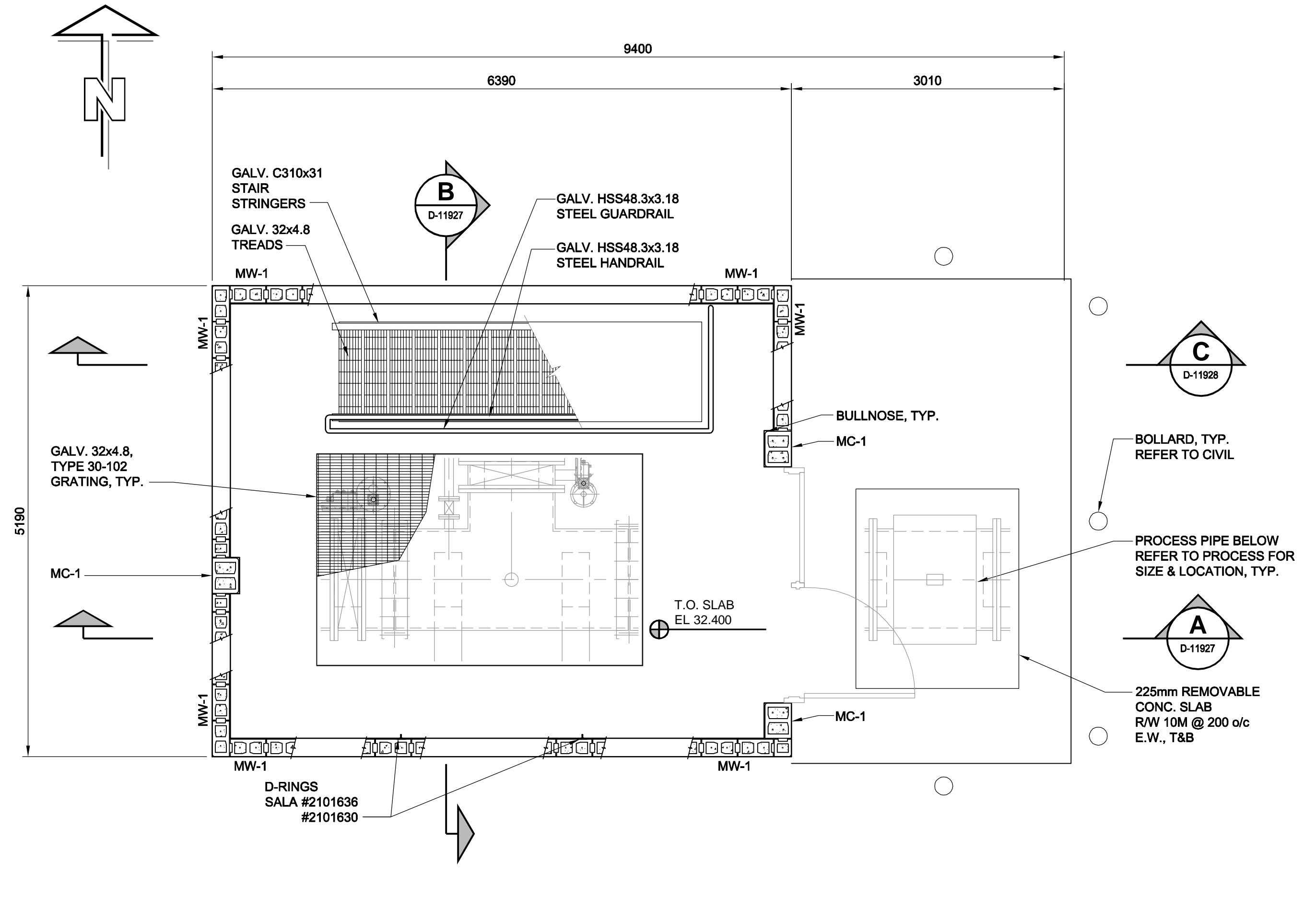


PLAN PLAN

SCALE 1:40
UPPER LEVEL
SLAB, BEAM, & CURBS



PLAN PLAN

SCALE 1:40
UPPER LEVEL
MASONRY WALLS

MASONRY WALL SCHEDULE				
MARK	SIZE	REINFORCING	TYPE	REMARKS
MW-1	190	15M @ 600 o/c	NORMAL	FULLY GROUT ALL CORES

- NOTES:
1. DOWEL TO CONCRETE SUPERSTRUCTURE c/w LAP LENGTH = 1000mm
2. LAP LENGTH WITHIN WALL = 1000mm
3. PROVIDE JOINT REINFORCING EVERY SECOND COURSE.

MASONRY COLUMN SCHEDULE					
MARK	SIZE	TYPE	REINFORCING BAR DETAILS		REMARKS
			VERTICALS	TIES	
MC-1	390x290	NORMAL	4-20 M (2ea CORE)	6M @ 200	FULLY GROUTED CORES

- NOTES:
1. DOWEL TO CONCRETE SUPERSTRUCTURE c/w LAP LENGTH = 1000mm
2. LAP LENGTH WITHIN COLUMN = 1000mm

CONCRETE SLAB SCHEDULE					
MARK	DEPTH	REINFORCING BAR DETAILS			REMARKS
		TOP	BOTTOM	ADD'L	
CS-1	500	25M @ 300 o/c E.W.	25M @ 300 o/c E.W.		
CS-2	300	20M @ 300 o/c E.W.	20M @ 300 o/c E.W.		
CS-3	150		15M @ 300 o/c E.W.		c/w PENETRATING SEALER

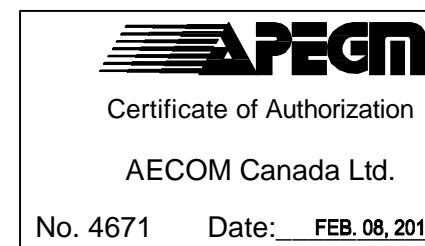
CONCRETE WALL SCHEDULE					
MARK	DEPTH	REINFORCING BAR DETAILS			REMARKS
		VERTICAL	HORIZONTAL	ADD'L	
CW-1	400	20M @ 300 o/c E.W.	20M @ 300 o/c E.W.	20M @ 300 o/c E.W.	ADDITIONAL REINFORCING AS NOTED ON DRAWINGS

CONCRETE BEAM SCHEDULE						
MARK	WIDTH	DEPTH	REINFORCING BAR DETAILS			REMARKS
			TOP	MID.	BOT.	
CB-1	400	600	4-20M	1-10M	4-20M	10M @ 250 o/c

DESIGN LOADS (UNFACTORED)		
DEAD LOADS	STRUCTURE SELF WEIGHT PLUS PROCESS PIPES AND VALVES, AND STEEL PLATFORMS	
LIVE LOADS	LOWER LEVEL BASE SLAB	9.6 kPa
	PLATFORMS & GRATING	9.6 kPa
	STAIRCASE	4.8 kPa
	UPPER LEVEL FLOOR SLAB	9.6 kPa
	PIPE THRUST FORCE ON WEST WALL	370 kN
EARTH LOAD	PIPE THRUST FORCE ON SOUTH WALL	270 kN
SNOW LOAD	SOIL UNIT WEIGHT	Ko 0.6
	HEIGHT OF SOIL	20 kN/m ²
WIND LOAD	SOIL UNIT WEIGHT	4.4m
	HEIGHT OF SOIL	4.4m
WIND LOAD	BASED ON NBC OF CANADA 2005, POST-DISASTER IMPORTANCE CATEGORY, Is=1.25	Ss=1.9 kPa S=0.2 kPa
	BASED ON NBC OF CANADA 2005, POST-DISASTER IMPORTANCE CATEGORY, Iw=1.25	q(1/50) =0.45 kPa

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES DATE COMMITTEE
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.



DESIGNED BY KK/GGP		CHECKED BY GGP	
DRAWN BY KK		APPROVED BY Bryan Weber	
HOR. SCALE 1:40		RELEASED FOR CONSTRUCTION KZ	
VERT. SCALE -		DATE FEB. 9/10	

PROFESSIONAL'S SEAL
ORIGINAL SIGNED BY
B.F. ABDUL WAHID
2010/02/08
CONSULTANT DRAWING NO.
D265-250-00_01-S-1002_RX.dwg

BID OPPORTUNITY NO. 16-2010

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

BRANCH I AQUEDUCT VALVE CHAMBER AT McPHILLIPS STREET PUMPING STATION
STRUCTURAL
UPPER LEVEL SLABS, CURBS, & UPPER LEVEL WALLS

SHEET 14 OF 28
CITY DRAWING NUMBER
D-11924
REV 0