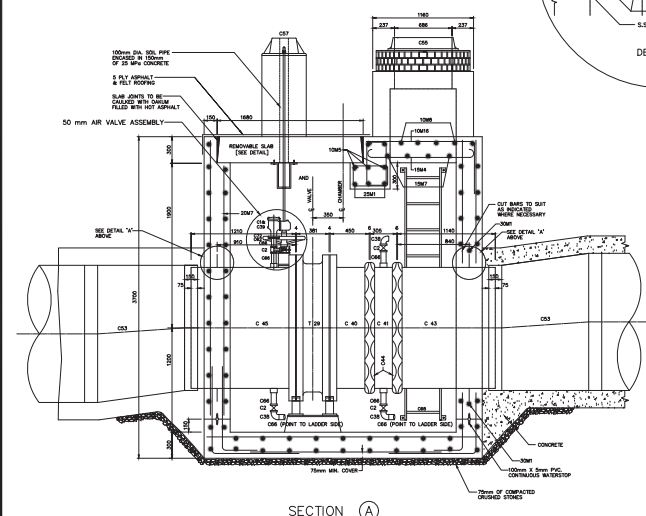
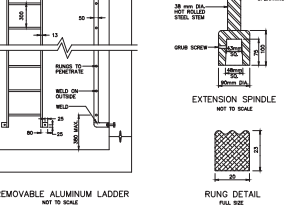
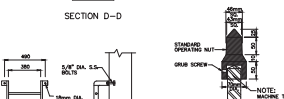
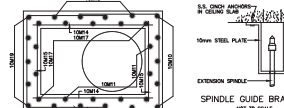
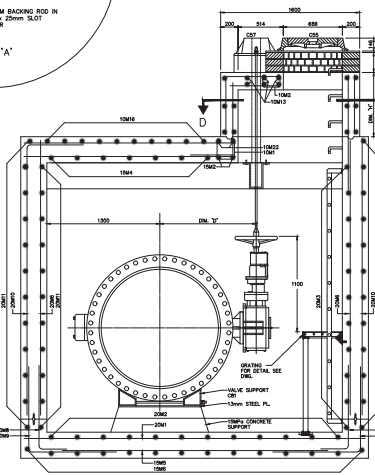
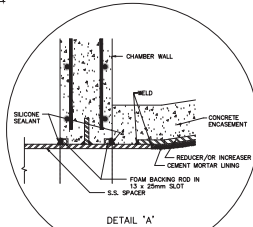
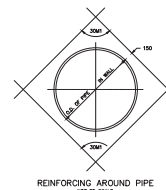
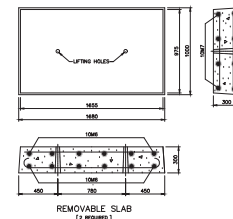
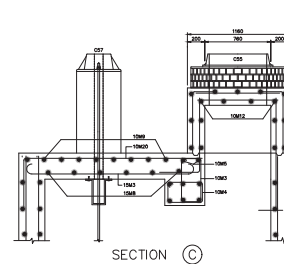
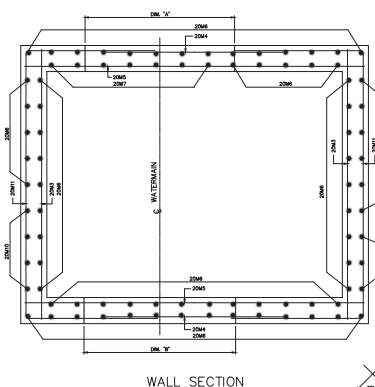
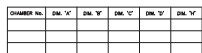




1. **25MPa** CONCRETE TO BE USED EXACTLY AS NOTED.
2. MAXIMUM SIZE OF COARSE AGGREGATE TO BE 20mm
3. COVER TO MAIN REINFORCING TO BE 50mm OR AS NOTED.
4. BAR CHANGING IS NOT ALLOWED.
5. BARS TO BE SET COROL. MINIMUM RADII TO 4 x DIAMETERS.
6. ALL CROSSING BARS TO BE WELL TIED.
7. ALL REINFORCING STEEL TO BE AT LEAST 300 GRADE S40.
8. FORMWORK TO COMPLY TO C.S.A. STANDARD 603.01M
9. ALL LAPS IN REINFORCING STEEL TO BE AT LEAST 30 DIAMETERS IN LENGTH OR 1.5m, WHATEVER IS THE LONGER.
10. ALL BROWWORK TO BE OF HIGH QUALITY HARD SERRIM BRICK, Laid IN FULL MORTAR BED.
11. WATERPROOFING TO BE TO STANDARD SPECIFICATION.
12. PARTITION (P.V.C.) TO BE PROVIDED AT ALL CONSTRUCTION JOINTS.
13. PROVIDE SUMPPIST ADJUST REINFORCING STEEL TO SUIT WATERPOOLS AND OPENINGS.
14. WHERE SUSP PIP WITH GRATING AND SLOPE FLOOR TO BE 100mm/10mmETRE.
15. WHERE SUSP PIP TO BE USED AT HIGHEST POINT TO EXPOSED ROOFING.
16. DRAIN CONNECTION TO SEWER TO BE MADE BY CONTRACTOR UNLESS OTHERWISE NOTED IN THE GENERAL SPECIFICATIONS.
17. LADDINGS AND RAILINGS TO BE ALUMINUM AND OF REMOVABLE TYPE WITH STAINLESS STEEL SURF.
18. TOP TWO STEPS AND ANY ADDITIONAL STEPS IN THE CHIMNEY TO BE OF THE SAME TYPE.
19. CHIMNEYS DEEPER THAN 1200mm FROM SURFACE LEVELATION TO TOP OF VALVE.
20. CHIMNEYS DEEPER THAN 1200mm TO BE CONCRETE TO TOP OF VALVE.
21. ALL ALUMINUM SURFACES CONTACTING CONCRETE TO RECEIVE ONE COAT OF BITUMINOUS PAINT.
22. CHIMNEYS ON ROOF OF CHIMNEY (CH/S) AND BARS SHALL BE COATED TO ENSURE THAT THE BOTTOM BAR IS LESS THAN 150mm above the CHAMBER ROOF.

BENDING SCHEDULE									
BAR NO.	END	SECTION	DIMENSIONS				SHAPE	O.C.	No. REIN.
			B	A	A	A			
106H	10	300	200	200	200	200			10
106I		200	70	120	230	120			
106J		120	120	120	120	120			
106K		120	120	120	120	120			
106L		1340	360	220	260	220			10
106M		360							
106N		360							
106O		360							
106P		1600							10
106Q		1600							
106R		1600							
106S		1600							
106T		614							10
106U		614							
106V		614							
106W		614							
106X		1300							10
106Y		1300							
106Z		1300							
106A		1300							
106B		1270							10
106C		1270							
106D		1270							
106E		1270							
106F		+1430							10
106G		+1430							
106H		+1430							
106I		+1430							
106J		+194							10
106K		+194							
106L		+194							
106M		+194							
106N		2000							10
106O		2000							
106P		2000							
106Q		2000							
106R		600							10
106S		600							
106T		600							
106U		600							
106V		4360							10
106W		4360							
106X		4360							
106Y		4360							
106Z		3460							10
106A		3460							
106B		3460							
106C		3460							
106D		2040							10
106E		2040							
106F		2040							
106G		2040							
106H		1630							10
106I		1630							
106J		1630							
106K		1630							
106L		2200							10
106M		2200							
106N		2200							
106O		2200							
106P		2400							10
106Q		2400							
106R		2400							
106S		2400							
106T		1600							10
106U		1600							
106V		1600							
106W		1600							
106X		3100							10
106Y		3100							
106Z		3100							
106A		3100							
106B		2850							10
106C		2850							
106D		2850							
106E		2850							
106F		1050							10
106G		1050							
106H		1050							
106I		1050							
106J		1550							10
106K		1550							
106L		1550							
106M		1550							
106N		4420							10
106O		4420							
106P		4420							
106Q		4420							
106R		500							10
106S		500							
106T		500							
106U		500							

FOR REINFORCING AT DRAIN REFER TO SUMP AND DRAIN DETAIL DWG.

MATERIAL LIST

MARK	SUPPLIED BY CITY OF TORONTO
TOD	1-1000mm MODIFIED/TAI BUTTERFLY VALVE

MARK	SUPPLIED BY CONTRACTOR
CAD	1-13M ^{max} FABRICATED S.S. EL-JECT CONNECTION

MARK	SUPPLIED BY CONTRACTOR
C1	1-60 mm AIR VALVE (BOSCH) OR 1-1/2" x 1/2" -NPT (B&B)
C6	4-50mm BALL VALVES SW 45° BALL TYPICAL
C6	1-100mm BACKWATER CHECK VALVE
C17	1-1/2" SMALL ROUND TYP
C39	3-40mm SS304, SCH40 STREET ELBOW
C39	1-1/2" 3mm INLET SILET SHUT VALVE, ROUGH FINISH WITH GASKET (ENCL. DATED NOV. 37/00 OR EQUIVALENT)
C61	4-#16 x 1/6mm SS BOLLTS & NUTS
C61	50mm GASKET [FLAT FACE, ONE PIECE]
C66	50mm SS304, SCH40 HUNPLE
C66	4-1/2" INCH BOTH ENDS
C66	1-50mm LONG FOR DRAIN VALVE ASSEMBLIES
C66	50mm SS304, SCH40 HUNPLE
C66	4-1/2" INCH BOTH ENDS
C66	1-125 mm LONG AND 1-175 mm LONG FOR AIR VALVE ASSEMBLY
C72	1-50mm PREPARED PLASTIC, GLASS 125, PLAT FLAT AND DRILLED

C44	2-1mm DIA. STEEL COUPLERS, TYPE W7P DNM N96R1	
O	C45	1-1200mm FABRICATED S.S. FLANGE ASSEMBLY
	C53	2-Square frame to 1200mm ECONOMIC REDUCER
	C58	1-CAST IRON, SQUARE FRAME WITH CIRCULAR COVER AND PLUG FOR VALVE CHAMBERS FOR PRESSURE LOSS
	D6I	ONE -CHOCK ANCHORS WITH MNR S.S. BOLTS & NUTS
	E6	80-M45 x 20mm U.S. BOLTS AND NUTS
	F6	8-M45 x 200mm U.S. STUDS EACH WITH 1 NUT [6 UNITS]
	G6	2-1200mm DIA. N96R SHORTPROOF RUBBER GASKETS [1 IN. FACE ONE PIECE 1
	H6	1-CLL RUNNING TRAP WITH CLEANOUT AND COVER
	I6	1-100mm DIA. PVC PIPING
	J6	1-RAMP FORM AND GRATING
	K6	1-STANDARD ALUMINUM LADDER AND STEPS
	L6	1-STEEL PLATE, 240mm x 940mm x 6mm
	M6	2-STANDARD BUTTERFLY VALVE SUPPORTS

○ FOR DRAIN TYPE "A" AND "C" ONLY
● FOR DRAIN TYPE "B" ONLY

FOR DETAILS OF C40, C41, C43, C45 AND C81 SEE DW