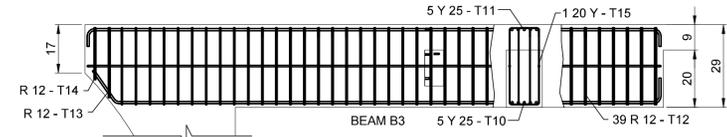
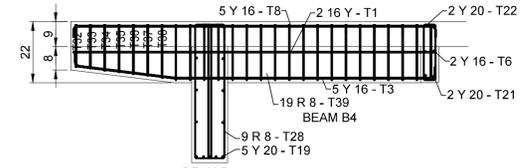


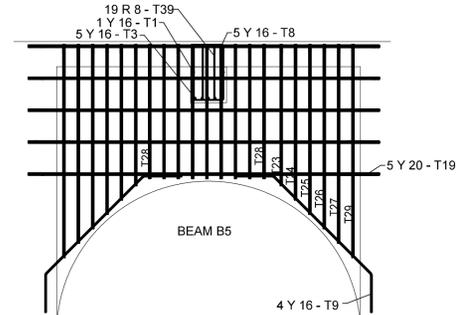
TANK FLOOR REINFORCING LAYOUT
SCALE 1:50



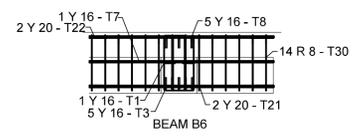
SECTION Q-Q
SCALE 1:50



SECTION R-R
SCALE 1:50



SECTION O-O
SCALE 1:50



SECTION P-P
SCALE 1:50

Y16-@300c/c
TOP & BOTTOM
REPEAT 6 x TIMES RADIALLY

Y16-STOOLS-TF5-1/2m²

Y16-TF2-@ APPROX.150c/c
TOP & BOTTOM
REPEAT 12 x TIMES RADIALLY

Y16-TF4-@ APPROX.150c/c
TOP & BOTTOM
REPEAT 12 x TIMES RADIALLY

Y16-TF3-@ APPROX.150c/c
TOP & BOTTOM
REPEAT 12 x TIMES RADIALLY

NOTE:
SAME BARS
TOP & BOTTOM
BAR MARK S1 TO S51

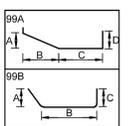
Reinforcing bending dimensions for shape codes (SANS 282)												
TANK FLOOR	Type	Mark	No	Length	Shape	A	B	C	D	E	r	Mass each
Y16	TF1	132	6820	20	6828							10.8
Y16	TF3	132	6820	20	6820							10.8
Y16	TF4	132	8850	20	8853							14.0
Y16	TF2	132	9650	20	9657							15.2
Y16	TF5	212	1390	83	359	239	369					2.2
Y16	TF49	12	1800	65	1151							2.8
Y16	TF22	12	1960	65	1290							3.1
Y16	TF48	12	2110	65	1458							3.3
Y16	TF21	12	2310	65	1583							3.6
Y16	TF58	12	2430	65	1740							3.8
Y16	TF20	12	2590	65	1890							4.1
Y16	TF47	12	2740	65	2040							4.3
Y16	TF19	12	2900	65	2190							4.6
Y16	TF46	12	3060	65	2340							4.8
Y16	TF18	12	3210	65	2490							5.1
Y16	TF45	12	3370	65	2640							5.3
Y16	TF17	12	3540	65	2798							5.6
Y16	TF44	12	3690	65	2940							5.8
Y16	TF16	12	3840	65	3091							6.1
Y16	TF43	12	4000	65	3240							6.3
Y16	TF15	12	4160	65	3378							6.6
Y16	TF42	12	4310	65	3540							6.8
Y16	TF14	12	4470	65	3680							7.1
Y16	TF41	12	4630	65	3840							7.3
Y16	TF13	12	4800	65	3998							7.6
Y16	TF40	12	4990	65	4190							7.9
Y16	TF12	12	5200	65	4375							8.2
Y16	TF39	12	5400	65	4585							8.5
Y16	TF11	12	5620	65	4778							8.9
Y16	TF38	12	5830	65	4990							9.2
Y16	TF10	12	6040	65	5174							9.5
Y16	TF37	12	6230	65	5383							9.8
Y16	TF9	12	6460	65	5574							10.2
Y16	TF36	12	6670	65	5790							10.5
Y16	TF8	12	6880	65	5990							10.9
Y16	TF35	12	7090	65	6190							11.2
Y16	TF7	12	7300	65	6390							11.5
Y16	TF34	12	7510	65	6590							11.9
Y16	TF6	12	7720	65	6790							12.2
Y16	TF33	12	7930	65	6990							12.5
Y16	TF57	12	8130	65	7177							12.8
Y16	TF32	12	8340	65	7390							13.2
Y16	TF56	12	8550	65	7573							13.5
Y16	TF31	12	8760	65	7790							13.8
Y16	TF55	12	8970	65	7990							14.2
Y16	TF30	12	9180	65	8190							14.5
Y16	TF54	12	9390	65	8390							14.8
Y16	TF29	12	9600	65	8590							15.2
Y16	TF53	12	9810	65	8790							15.5
Y16	TF28	12	10020	65	8990							15.8
Y16	TF52	12	10230	65	9113							16.2
Y16	TF27	12	10440	65	9390							16.5
Y16	TF51	12	10650	65	9590							16.8
Y16	TF26	12	10860	65	9790							17.1
Y16	TF50	12	11070	65	9990							17.5
Y16	TF25	12	11280	65	10190							17.8
Y16	TF23	12	11510	65	10203							18.2
Y16	TF24	12	11700	65	10590							18.5

Total of 1376 bars with a mass of 13630.8 kg per cast unit.

TANK FLOOR BEAMS	Type	Mark	No	Length	Shape	A	B	C	D	E	r	Mass each
Y16	T1	24	5290	35	5059							8.4
Y16	T8	60	5290	35	5059							8.4
Y20	T15	24	8270	35	7996							20.4
Y25	T11	60	8350	35	7997							32.2
Y16	T9	96	2680	48	534	1639	1159					4.2
Y16	T6	12	4070	49	519	519		276	276			6.4
Y16	T7	12	4070	49	485	485		259	259			6.4
Y20	T22	24	4070	49	485	485		262	262			10.0
Y20	T21	24	4080	49	520	520		280	280			10.1
Y20	T19	60	5650	49	520	520		280	280			13.9
Y20	T17	24	5670	49	503	503		271	271			14.0
Y20	T20	24	5720	49	503	503		271	271			14.1
Y20	T18	24	5760	49	503	503		271	271			14.2
Y20	T16	60	5780	49	485	485		262	262			14.3
R 8	T32	24	1930	60	595	295						0.8
R 8	T33	24	1970	60	615	295						0.8
R 8	T34	24	2030	60	645	295						0.8
R 8	T30	24	2040	60	775	170						0.8
R 8	T35	24	2070	60	665	295						0.8
R 8	T36	24	2130	60	695	295						0.8
R 8	T37	24	2170	60	715	295						0.9
R 8	T38	24	2230	60	745	295						0.9
R 8	T39	456	2290	60	775	295						0.9
R 8	T28	216	4340	60	1865	230						1.7
R 8	T23	48	4540	60	1965	230						1.8
R 8	T24	48	4940	60	2165	230						2.0
R 8	T25	48	5340	60	2365	230						2.1
R 8	T26	48	5740	60	2565	230						2.3
R 8	T27	48	6140	60	2765	230						2.4
R 8	T29	48	6540	60	2965	230						2.6
R12	T14	24	2160	60	725	295						1.9
R12	T13	24	2660	60	975	295						2.4
R12	T12	936	2860	60	1075	295						2.5
Y16	T3	60	5320	99A	170	1390	3625	150				8.4
Y25	T10	60	8420	99B	450	7588	340					32.5

Total of 2928 bars with a mass of 13488.4 kg per cast unit.

FOR TENDER ONLY



CONSULTING ENGINEERS TRI-M CONSULTING ENGINEERS LEGNUM PARK BUILDING WATER MELON STREET POLOKWANE	DESIGNED: K.K. 10-06-2017 DRAWN: J.P. 10-06-2017 CHECKED: K.K. 10-06-2017 APPROVED BY: ECSA REG. No. CHECKED:	SIGNATURE DATE
CLIENT JOBURG WATER 17 HARRISON STREET		

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MARSHALLTOWN
2107

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FOREST HILL WATER SUPPLY
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TANK FLOOR SLAB & BEAMS
REINFORCING LAYOUT

SURVEY INFORMATION		APPROVAL BY JW DEPOT		SCALE	AMENDMENTS	
PROJECT SURVEYOR:	CHECKED	APPROVED BY:	SIGNATURE	DATE	DESCRIPTION	DATE:
DATE:						
CCTV INFORMATION		APPROVAL BY JW PLANNING				
CCTV COMPANY:	CHECKED	APPROVED BY:	SIGNATURE	DATE		
DATE:						

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