



MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM- BER	MARK	S	B E N D I N G				
								A	B	C	D	E/r
DECANTING TOWER	1	18	Y12	2650	18	01	38	1810	210	(700)		
		18	Y12	2650	18	02	38	1810	185	(700)		
		5	R10	1800	5	03	83	500	175		(500)	
		40	Y12	1850	40	04	37	400	1450	500		
		20	Y12	3700	20	05	38	1790	160	(1790)		
		4	Y12	1850	4	06	37	100	(1790)			
		600	Y12	600	40	07	37	100	(500)			
		20	Y12	1950	20	08*	37	990	(990)			
		20	Y12	1900	20	09*	37	360	(1150)			
		20	Y12	1800	20	10*	37	850	(990)			
		20	Y12	1650	20	11*	38	700	135		(840)	
		20	Y12	1150	20	12*	37	115	(1050)			
		20	Y12	650	20	13*	37	115	(550)			
		2	Y12	900	2	14	38	400	135	(400)		
		2	Y12	1000	2	15	38	160	750	(160)		
	2	Y12	950	2	16	60	160	250				
	8	Y12	1550	17	65	1550						
	15	R10	400	15	18	85	150	160	60	(70)	290	

	8	10	12	16	20	25	32	40	TOT	Date	
R		9								Del. by	
Y			415						415	Ref Dwg	
TOT		9	415						424	Job No	

* = NUMBER OF BARS TO BE RE-CALCULATED ACCORDING TO HEIGHT OF DECANTING TOWER

Revision	
Schedule No	

GENERAL NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWINGS
2. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH SANS SPECIFICATIONS AND RAND WATER SPECIFICATIONS.
3. ALL CONCRETE MIX DESIGNS (EXTENDERS: MAXIMUM FLY ASH= 30%; MAXIMUM GBBS= 50%) AND METHOI STATEMENTS TO BE APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION
4. FOUNDATION EXCAVATIONS TO BE APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR TO CASTING OF THE BLINDING LAYER
5. ALL LEVELS AND DIMENSIONS WILL BE CHECKED ON SITE PRIOR TO CONSTRUCTION

REINFORCEMENT NOTES:

1. REINFORCEMENT CHARACTERISTICS:
REINFORCED CONCRETE CLASS AS SPECIFIED ON
GENERAL ARRANGEMENT
2. CONCRETE COVER: 45mm
3. MINIMUM LAP LENGTH TO BE 50 x DIAMETER OF
THE SMALLER BAR.
4. ALL REINFORCEMENT TO BE CHECKED AND
APPROVED BY THE CIVIL DESIGN ENGINEER PRIOR
TO CASTING OF ANY CONCRETE
5. REINFORCEMENT ABBREVIATIONS:
BW = BOTH WAYS
EF = EACH FACE
NF = NEAR FACE
TF = TOP FACE
IF = INSIDE FACE
OF = OUTSIDE FACE
CO = OUTSIDE LAYER
IL = INSIDE LAYER
EW = EACH WAY
= TOP
T1 = FIRST LAYER FROM TOP
T2 = SECOND LAYER FROM TOP
T3 = THIRD LAYER FROM TOP
B = BOTTOM LAYER
B1 = FIRST LAYER FROM BOTTOM
B2 = SECOND LAYER FROM BOTTOM
B3 = THIRD LAYER FROM BOTTOM
AL = ALTERNATE
ABR = ALTERNATE BAR REVERSED
6. ONLY CONCRETE COVER BLOCKS ALLOWED OF THE
SAME STRENGTH OF CONCRETE
7. REINFORCEMENT DETAILING TO COMPLY WITH SANS
10144
8. BENDING OF REINFORCEMENT SHALL BE IN
ACCORDANCE WITH SANS 282
9. REINFORCEMENT SHALL BE FIXED TO COMPLY WITH
TOLERANCES AS SPECIFIED IN SANS 12006

REVISIONS

[illegible]

REFERENCE DRAWINGS

[illegible]

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SAP No.	P.04733	CHECKED BY	
CONTRACT No.	RW01289/16	D.O.M. c. TUMBARE	
DESIGNED BY	K.SUKKHU	APPROVED Pr Eng REG. No. 20150256 DATE 15/10/2021	
DRAWN BY	K.SUKKHU		
DATE	2017-12-12		

PANFONTEIN WWTW
DECANTING TOWER
REINFORCEMENT DETAILS &
BENDING SCHEDULE

STATION			WKS										DOC. TYPE			S
															A	
SCALE 1:10																

DRG No. R027538/06

