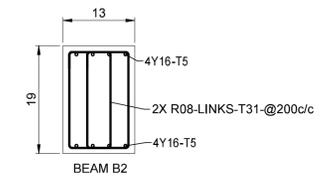
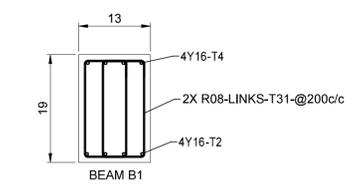


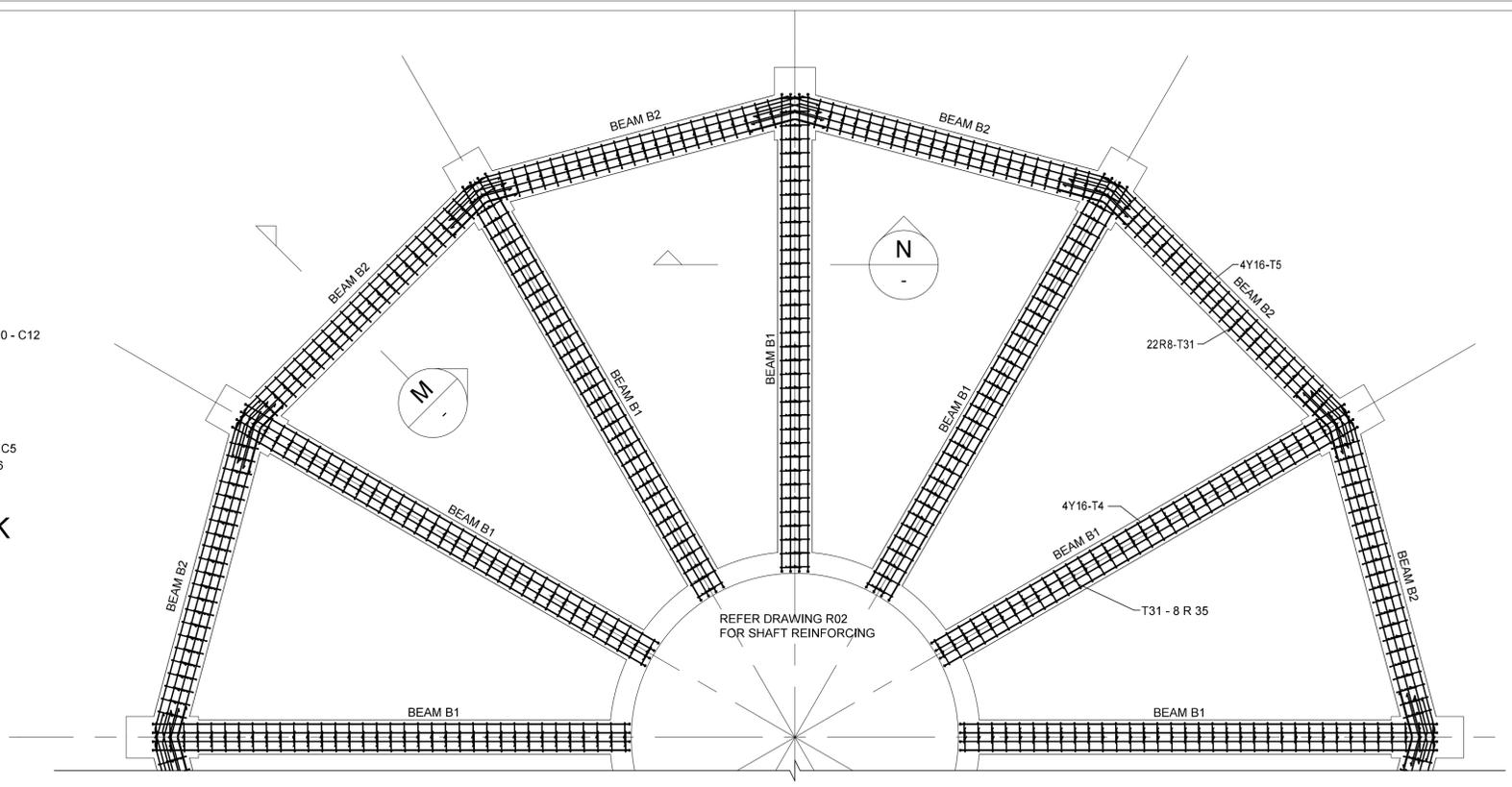
SECTION K-K
SCALE 1:25



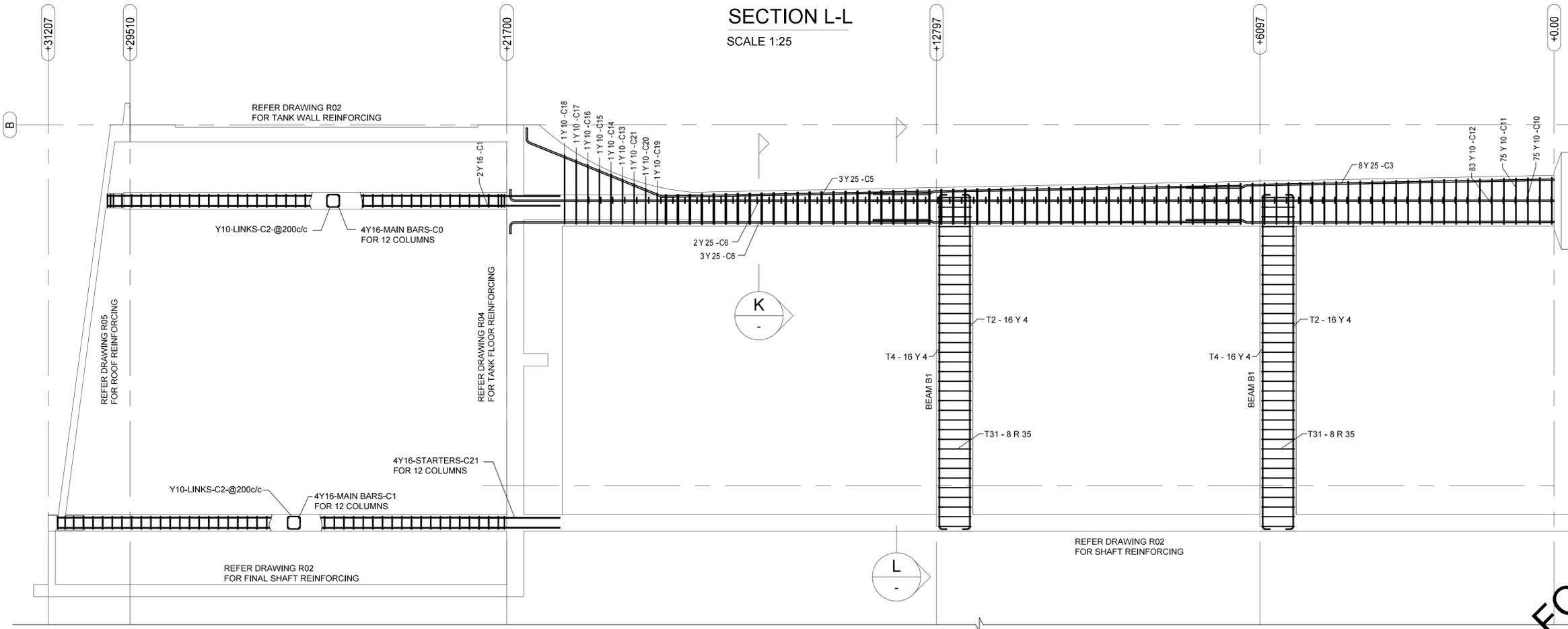
SECTION M-M
SCALE 1:25



SECTION N-N
SCALE 1:25



SECTION L-L
SCALE 1:25

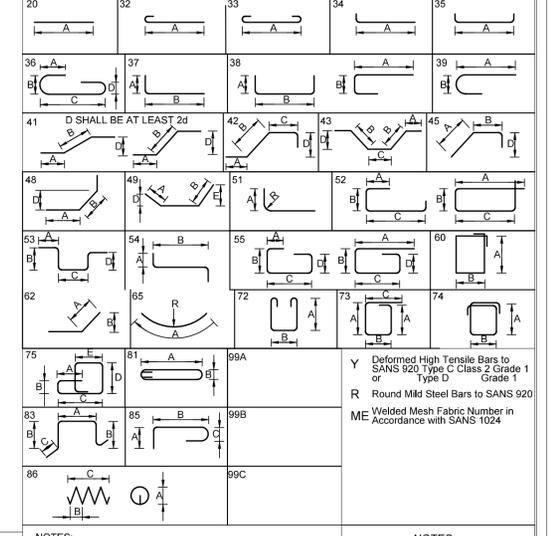


SECTION K-K
SCALE 1:25

SECTION L-L
SCALE 1:25

Type	Mark	No	Length	Shape	A	B	C	D	E	r	Mass each	All
Y16	C0	48	8220	20	8226						13.0	623.0
Y16	C1	48	9250	20	9256						14.6	701.1
Y25	C6	60	8860	34	247						34.1	2048.8
Y10	C12	996	710	35	520						0.4	435.3
Y10	C11	900	1160	35	969						0.7	643.5
Y16	C22	96	2110	41	998	116					3.3	319.9
Y25	C2	48	7630	41	1147	118		69	79		29.4	1411.5
Y25	C4	72	7630	41	1147	118		79	79		29.4	2117.2
Y25	C3	72	7630	49	6381	1147		2777	539		29.4	2117.2
Y25	C5	36	8840	49	5545	299		2205	288		34.1	1226.5
Y10	C2	1152	1190	60	270	270					0.7	844.4
Y10	C10	900	2360	60	608	520					1.5	1308.6
Y10	C19	12	2430	60	640	520					1.5	18.0
Y10	C20	12	2630	60	739	520					1.6	19.4
Y10	C21	12	2820	60	838	520					1.7	20.8
Y10	C13	12	3020	60	937	520					1.9	22.3
Y10	C14	12	3220	60	1036	520					2.0	23.8
Y10	C15	12	3420	60	1136	520					2.1	25.3
Y10	C16	12	3620	60	1235	520					2.2	26.8
Y10	C17	12	3820	60	1334	520					2.4	28.2
Y10	C18	12	4010	60	1433	520					2.5	29.6

Total of 4536 bars with a mass of 14011.2 kg per cast unit.												
Y16	T2	96	7160	35	6931						11.3	1085.4
Y16	T4	96	7160	35	6931						11.3	1085.4
Y16	T5	192	5780	49	484	708		258	370		9.1	1752.4
R	T31	2736	2090	60	675	295					0.8	2259.9
Total of 3120 bars with a mass of 6183.1 kg per cast unit.												



NOTES:
 1. Use shape code 99 for all other shapes and a dimensioned sketch of the shape shall be given in the bar schedule.
 2. Radii of all bends are standard unless R is given in Bar Schedule.
 3. Dimensions are all external (outside dimensions).
 4. All shapes are based on SANS 282 shape codes.
 5. All Splices must not be less than 40d.

LEGEND:
 B1 Lowest of bottom layers
 B2 Second lowest of bottom layers
 T1 Highest of top layers
 T2 Second highest of top layers
 NF Near Face
 FF Far Face
 AT Alternate

NOTES:
 1) ALL CONCRETE TO BE 35MPa
 2) MIN COVER TO REINFORCING = 40mm; UNLESS NOTED OTHERWISE
 3) DRAWING TO BE READ IN CONJUNCTION WITH CONCRETE LAYOUTS
 4) LONGITUDINAL BARS TO HAVE LAP LENGTHS NOT LESS THAN 40D
 5) ALL STEEL TO BE FIXED ON SITE
 6) NO CONCRETE TO BE POURED UNTIL APPROVED BY THE ENGINEER
 7) BACKFILLING TO BE COMPACTED 150mm MAX. PER LAYER

FOR TENDER ONLY

TYPICAL PARTIAL SECTION THROUGH TANK WALL & SHAFTS

CONSULTING ENGINEERS TRAM 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: _____	17 HARRISON STREET MARSHALLTOWN 2107 TEL: (011) 688-1400 FAX: (011) 688-1529
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FOREST HILL WATER SUPPLY NEW WATER TOWER & PUMP STATION COLUMNS & GENERAL REINFORCING DETAILS
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SURVEY INFORMATION	APPROVAL BY JW DEPOT	SCALE	AMENDMENTS
PROJECT SURVEYOR: _____ DATE: _____	CHECKED: _____ APPROVED BY: _____ SIGNATURE: _____ DATE: _____	1:50: 1:25 REV: _____	DESCRIPTION: _____ DATE: _____
CCTV INFORMATION	APPROVAL BY JW PLANNING		
CCTV COMPANY: _____ DATE: _____	CHECKED: _____ APPROVED BY: _____ SIGNATURE: _____ DATE: _____		

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CONTRACT No. A1	DRAWING No. 3 OF 5
ORIGINAL PAGE SIZE	FILE No.