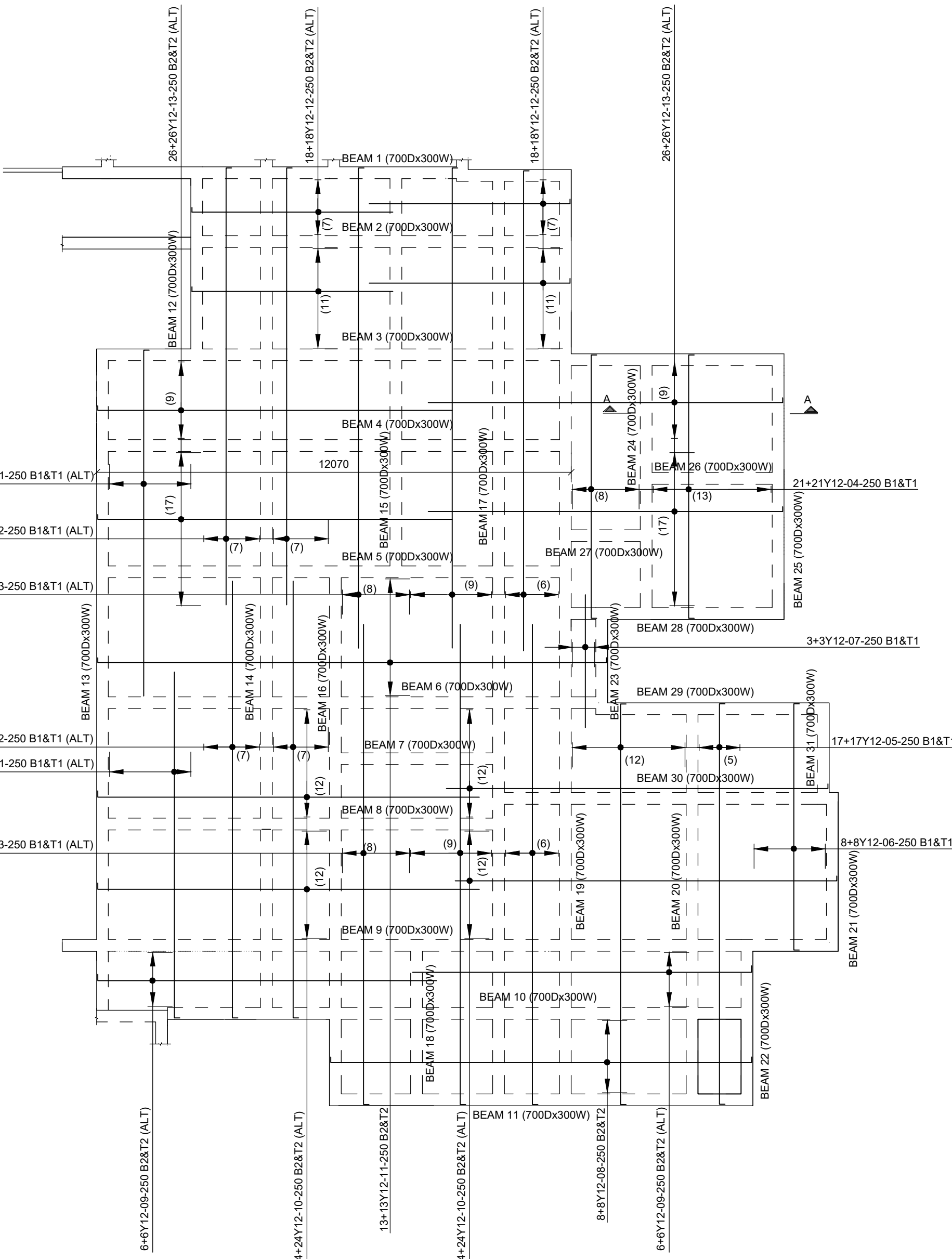
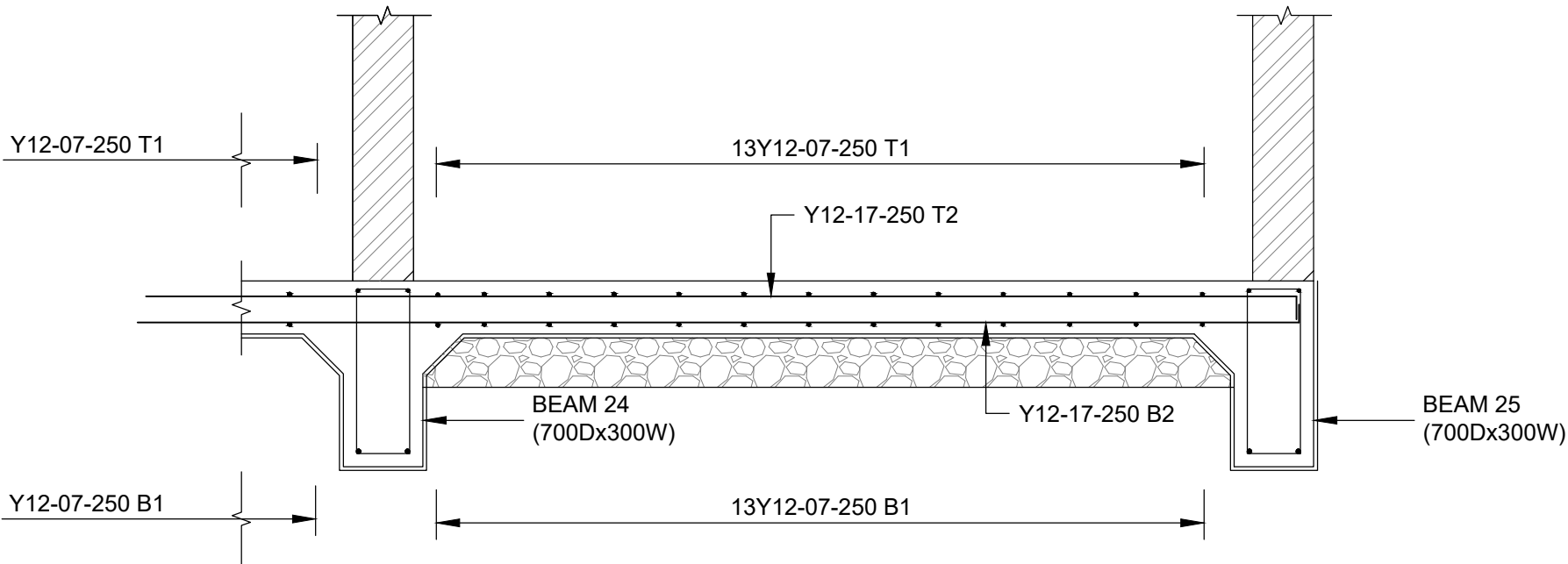




MAIN ENTRANCE BLOCK FOUNDATION REINFORCEMENT LAYOUT
SCALE 1:100



SECTION A-A
SCALE 1:25

MEMBER	No. Off	REINFORCEMENT					BENDING DIMENSIONS					
		Type & Dia	Mark	No in Each	Total No.	Length mm	Shape Code	A mm	B mm	C mm	D mm	E/R mm
200mm THICK RC FLOOR SLAB	1	Y12	01	36	36	8910	37	140	8800			
		Y12	02	56	56	11230	37	140	11115			
		Y12	03	92	92	12330	37	140	12215			
		Y12	04	42	42	6920	38	140	6700	140		
		Y12	05	34	34	10410	38	140	10190	140		
		Y12	06	16	16	6490	38	140	6265	140		
		Y12	07	6	6	3390	20	3390				
		Y12	08	16	16	10910	38	130	10710	130		
		Y12	09	24	24	8720	37	130	8620			
		Y12	10	96	96	9810	37	130	9705			
		Y12	11	26	26	13140	38	130	12940	130		
		Y12	12	72	72	5210	37	130	5110			
		Y12	13	104	104	9120	37	130	9015			
BEAMS 1 & 2 (700Dx 300W)	2	Y12	14	2	4	9820	38	150	9575	150		
		Y16	15	2	4	9900	38	200	9575	200		
		R10	SA1	38	76	1730	60	600	200			
BEAM 3 (700Dx 300W)	1	Y12	16	4	4	9120	37	150	9000			
		Y16	17	4	4	9260	37	200	9095			
		R10	SA1	69	69	1730	60	600	200			
BEAMS 4 & 5 (700Dx 300W)	2	Y12	18	2	4	12220	38	150	11975	150		
		Y16	19	2	4	12300	38	200	11975	200		
		R10	SA1	47	94	1730	60	600	200			
BEAM 6 (700Dx 300W)	1	Y12	20	2	2	13140	38	150	12900	150		
		Y16	21	2	2	13220	38	200	12900	200		
		R10	SA1	51	51	1730	60	600	200			
BEAM 7 (700Dx 300W)	1	Y12	22	2	2	4590	38	150	4350	150		
		Y16	23	2	2	4670	38	200	4350	200		
		R10	SA1	17	17	1730	60	600	200			
BEAM 8 (700Dx 300W)	1	Y12	24	2	2	10520	38	150	10275	150		
		Y16	25	2	2	10600	38	200	10275	200		
		R10	SA1	41	41	1730	60	600	200			
BEAM 9 (700Dx 300W)	1	Y12	26	4	4	10240	37	150	10120			
		Y16	27	4	4	10380	37	200	10220			
		R10	SA1	78	78	1730	60	600	200			
BEAM 10 (700Dx 300W)	1	Y12	28	4	4	8720	37	150	8600			
		Y16	29	4	4	8860	37	200	8700			
		R10	SA1	66	66	1730	60	600	200			
BEAM 11 (700Dx 300W)	1	Y12	30	2	2	10910	38	150	10670	150		
		Y16	31	2	2	10990	38	200	10670	200		
		R10	SA1	42	42	1730	60	600	200			
BEAM 12 (700Dx 300W)	1	Y12	32	2	2	5080	38	150	4835	150		
		Y16	33	2	2	5160	38	200	4835	200		
		R10	SA1	19	19	1730	60	600	200			
BEAM 13 (700Dx 300W)	1	Y12	34	4	4	8960	37	150	8835			
		Y16	35	4	4	9100	37	200	8935			
		R10	SA1	68	68	1730	60	600	200			

MEMBER	No. Off	REINFORCEMENT					BENDING DIMENSIONS					
		Type & Dia	Mark	No in Each	Total No.	Length mm	Shape Code	A mm	B mm	C mm	D mm	E/R mm
BEAM 14 (700Dx 300W)	1	Y12	36	4	4	11215	37	150	11095			
		Y16	37	4	4	11355	37	200	11195			
		R10	SA1	86	86	1730	60	600	200			
BEAM 15 (700Dx 300W)	1	Y12	38	2	2	10600	38	150	10355	150		
		Y16	39	2	2	10680	38	200	10355	200		
		R10	SA1	41	41	1730	60	600	200			
BEAM 16 (700Dx 300W)	1	Y12	40	4	4	7240	37	150	7120			
		Y16	41	4	4	7380	37	200	7220			
		R10	SA1	54	54	1730	60	600	200			
BEAMS 17 & 19 (700Dx 300W)	2	Y12	42	4	8	12280	37	150	12160			
		Y16	43	4	8	12420	37	200	12260			
		R10	SA1	95	190	1730	60	600	200			
BEAMS 18 & 22 (700Dx 300W)	2	Y12	44	2	4	4370	38	150	4130	150		
		Y16	45	2	4	4450	38	200	4130	200		
		R10	SA1	16	32	1730	60	600	200			
BEAM 20 (700Dx 300W)	1	Y12	46	2	2	10390	38	150	10150	150		
		Y16	47	2	2	10470	38	200	10150	200		
		R10	SA1	40	40	1730	60	600	200			
BEAM 21 (700Dx 300W)	1	Y12	48	2	2	4180	38	150	3940	150		
		Y16	49	2	2	4260	38	200	3940	200		
		R10	SA1	24	24	1730	60	600	200			
BEAM 23 (700Dx 300W)	1	Y12	50	2	2	2860	38	150	2620	150		
		Y16	51	2	2	2940	38	200	2620	200		
		R10	SA1	10	10	1730	60	600	200			
BEAMS 24 & 25 (700Dx 300W)	2	Y12	52	2	4	6900	38	150	6660	150		
		Y16	53	2	4	6980	38	200	6660	200		
		R10	SA1	26	52	1730	60	600	200			
BEAM 26 (700Dx 300W)	1	Y12	54	2	2	3800	38	150	3560	150		
		Y16	55	2	2	3880	38	200	3560	200		
		R10	SA1	14	14	1730	60	600	200			
BEAM 27 (700Dx 300W)	1	Y12	56	2	2	2500	38	150	2255	150		
		Y16	57	2	2	2580	38	200	2255	200		
		R10	SA1	9	9	1730	60	600	200			
BEAM 28 (700Dx 300W)	1	Y12	58	2	2	5860	38	150	5615	150		
		Y16	59	2	2	5940	38	200	5615	200		
		R10	SA1	22	22	1730	60	600	200			
BEAM 29 (700Dx 300W)	1	Y12	60	2	2	6080	38	150	5835	150		
		Y16	61	2	2	6160	38	200	5835	200		
		R10	SA1	23	23	1730	60	600	200			
BEAM 30 (700Dx 300W)	1	Y12	62	2	2	8930	38	150	8690	150		
		Y16	63	2	2	9010	38	200	8690	200		
		R10	SA1	34	34	1730	60	600	200			
BEAM 31 (700Dx 300W)	1	Y12	64	2	2	2720	38	150	2480	150		
		Y16	65	2	2	2800	38	200	2480	200		
		R10	SA1	34	34	1730	60	600	200			

GENERAL NOTES

- All work to be in accordance with the NATIONAL BUILDING REGULATIONS and STANDARDS ACT No. 103 of 1977
- All drawings to be read in conjunction with the Architect's relevant drawings.
- All dimensions to be checked on site and any discrepancies to be reported before construction commences.
- No concrete to be poured without the Engineer's consent.
- No structural alterations to be made without amended drawings
- TD = To detail, INV = Inverted, TAD = To arch. detail
- Sleeves and ducts must be provided for all pipes and services.

NOTES ON FOUNDATION CONSTRUCTION

- Foundations are subject to alterations as excavations proceed.
- No foundations are to be cast until excavations have been approved.
- A 50mm thick blinding layer of 1:3:6 conc. to be cast in all foundations excavated. This 50mm thick layer is not included in the thickness of foundations shown on drawing.

NOTES ON R.C. CONSTRUCTION

- The Contractor is to maintain the reinforcing steel in the correct position.
- Minimum cover to steel reinforcing: Slabs: 30mm Beams: 30mm Columns: 40mm Foundations: 50mm
- Concrete or Tile spacer blocks to be used to maintain adequate cover.
- The contractor is to arrange for cube crushing tests to be as and when requested by the engineer.
- Breaks in concrete are only to be made where approved by the engineer.

6. Beam depth given first and includes slab thickness.
7. Concrete works cube strength is at 28 days to be as follows: Foundations, Beams & Slabs, Pile Caps, Columns: 30 MPa, unless stated otherwise on the R.C. drawing.
8. All concrete to be machine mixed, vibrated and damp cured.
9. Reinforcement is listed elsewhere on bending schedules.
10. All reinforcement must be inspected by the engineer prior to pouring concrete.

ISSUED FOR TENDER

DRAWING REFERENCE

TITLE

NOTES

REVISIONS

CLIENT
**SOUTH AFRICAN
POLICE SERVICE**



Thekwini Geocivils cc T/A
TGC Engineers
Geotechnical & Civil Engineers
Waste Disposal Consultants • Project Managers

Suite 6
4 The Crescent
Westway Office Park
Westville
3611
Telephone 265-1777



P.O. Box 446
PAVILION
3611
Telefax 265-2727
E-mail: tgc@tgcengineers.co.za

PROJECT

**NEW SAPS
IKAGENG POLICE STATION:
NORTH WEST**

TITLE
**MAIN ENTRANCE BLOCK
FOUNDATION REINFORCEMENT
LAYOUT AND DETAILS**

CONSULTING ENGINEER	DESIGNED : M.S.M	
SIGNATURE:.....	DRAWN : R.M.Y	
PR. NO.:.....	CHECKED : M.S.M	
DATE:.....	SCALE : AS SHOWN	
	DATE : MAY 2024	
REFERENCE NO. 51660	FIGURE NO. 141	REVISION A
CAD FILE: S/.....		