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REINFORCEMENT							BENDING DIMENSIONS FOR SHAPE CODES SABS 82						
M em b e r	No. of Bars	No of bars in each	Type and size	Cutting length	TOTAL NUMBER	Bar mark	Shape Code	A mm	B mm	C mm	D mm	E / mm	
STRIP FOUNDATION 700x250 1 No.	1	60	Y10	1700	6 01	60	170	620					
		6	Y12	4450	6 02	20	(4450)						
		6	Y12	5000	6 03	20	(5000)						
		6	Y12	5050	6 04	20	(5050)						
		6	Y12	6800	6 05	20	(6800)						
Bar SABS R kg	8	10	12	16	20	25	32	40	TOTAL				
Y kg			69	113					183				
TOTAL			69	113					183				

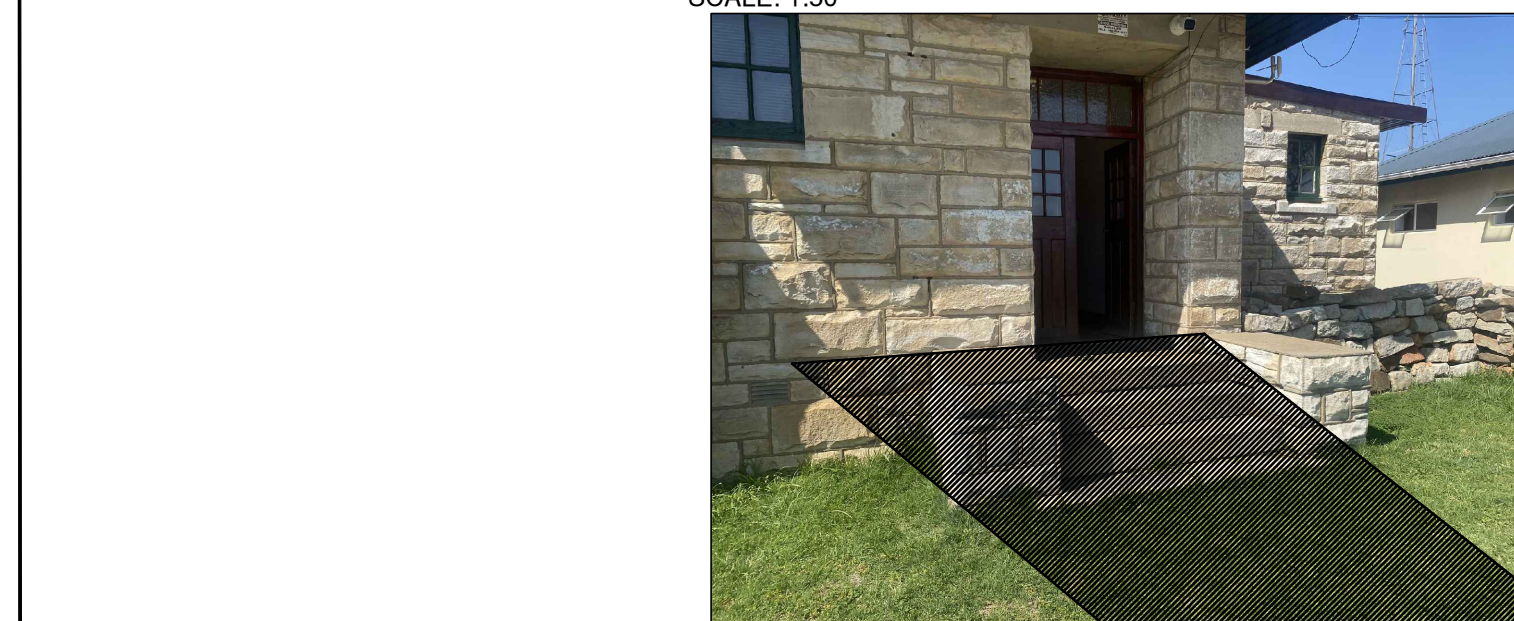
- A. GENERAL :**
1. THE CONTRACTOR SHALL ENSURE THAT WATER-PROOFING MATERIALS ARE NOT DAMAGED DURING BACKFILLING OPERATIONS AND FIXING OF STEEL.
 2. SHOP FRONTS, PARTITIONS AND WINDOW FRAMES ARE TO ALLOW FOR LONG TERM DEFLECTION OF 12mm.
- B. SURFACE BED :**
1. PROVIDE 10 mm POLYSTYRENE JOINT WITH POLYSULPHIDE SEALER AROUND ALL COLUMNS (SIZE 12 x 12 WIDE).
 2. SURFACE BED TO BE CAST IN PANELS NOT EXCEEDING 12.0 m2 FOR 100mm SLAB WITH CONSTRUCTION AND SAW-CUT JOINTS, NO SIDE LENGTH TO EXCEED 3.5m. LENGTH TO WIDTH RATIO NOT TO EXCEED 1.5. POSITION OF CONSTRUCTION AND SAW-CUT JOINTS TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
 3. SAW-CUT JOINTS ARE TO BE DONE AS SOON AS THE CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE, USUALLY BETWEEN 6 TO 12 HOURS AFTER CASTING.
 4. JOINTS MUST BE REPEATED IN THE FINISH.
 5. SURFACE BED TO BE CAST ON 250 umd PLASTIC SHEETING.

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| C. CONCRETE | |
| 1. CONCRETE STRENGTH SHALL BE AT 28 DAYS AS FOLLOWS : | |
| BULNDING | 15 MPa / 19 mm |
| FOUNDATIONS | |
| STRIP FOOTING | 25 MPa / 19mm |
| PAD FOOTING | 30 MPa / 19mm |
| SURFACE BED | 25 MPa / 19 mm |
| BEAMS | 30 MPa / 19 mm |
| COLUMNS | 30 MPa / 19 mm |
| RETAINING WALL | 30 MPa / 19 mm |
| CAVITY WALLS | 20 MPa / 19 mm. |
| SUSPENDED SLAB | 30 MPa / 19mm |
| STAIRCASE | 30 MPa / 19mm |

2. STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
3. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SABS 1200 G.
4. NO BRICK WALLS SHALL BE BUILT ON SUSPENDED FLOOR SLABS UNTIL THE SLABS HAVE REACHED THEIR 14 DAY STRENGTH. AND PROPPING SHOULD BE LEFT IN PLACE FOR 28 DAYS
5. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SABS 1200 G.
6. STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SABS 1200 G.

2. **BRICKWORK :**
 1. THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa.
 2. WATER ABSORPTION LESS THAN 10% AND IRREVERSIBLE MOISTURE EXPANSION 0.05
 3. THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE 1 SABS 0164 PART 1 - 1980.
 4. ALL SHALL BE REINFORCED WITH AN APPROVED BRICK FORCE, EVERY LAYER FOR THE FIRST 3 LAYERS ABOVE ANY HORIZONTAL CONCRETE SURFACE, EVERY LAYER FOR 3 LAYERS BELOW ANY HORIZONTAL CONCRETE SURFACE AND EVERY 4TH LAYER IN BETWEEN MINIMUM OVERLAP 200mm
 5. ALL BRICKWORK SHOWN IS LOAD BEARING UNLESS OTHERWISE INDICATED.
 6. SEE ARCHITECT'S DRAWINGS FOR GENERAL LAYOUT OF BRICKWORK.
 7. ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT DIPPED GALVANIZED.
 8. V-JOINTS ARE TO BE MADE IN PLASTER WORK WHERE BRICKWORK AND CONCRETE JOIN, FILL WITH JOINTEX AND SEAL WITH AN APPROVED SEALANT ON ALL SIDES.
 9. NON - LOAD BEARING BRICKWORK MAY NOT BE BUILT CLOSER THAN 20 mm FROM THE SOFFITS & SIDES OF BEAMS.
 10. WALL TIES IN CAVITY WALLS AND BRICK RETAINING WALLS SHALL BE OF THE VERTICAL TWISTED TYPE AS IN SABS 0164 PART 1 - 1980 FIGURE 1 OR SIMILAR APPROVED TYPE, EVERY FOURTH LAYER VERTICALLY AND AT 500 c/c HORIZONTALLY.
 11. BRICKS TO BE WETTED BEFORE USE .
 12. WALL JOINTS MUST BE REPEATED IN ALL TILED FINISHES.
 13. BALUSTRADES ON ROOF TO HAVE JOINTS AT 6 M c/c .
 14. ALL PLANTERS BUILT IN BRICKWORK ARE TO BE PROVIDED WITH 25mm dia WEEP HOLES ABOVE FINISHED PAVING LEVELS AND AT @ 1000 c/c.
 15. BRICK WALLS ARE TO BE TIED TO THE CONCRETE COLUMNS WITH 30x3 GALV. HOOP IRON TIES AT EVERY 4TH COURSE . FIX THE TIES TO THE COLUMNS WITH 2 HILT STITCH STUDS EACH. MIN. HOOR. LENGTH 300mm.
 16. PROVIDE HORIZONTAL SLIP SHEETS BETWEEN ALL CONCRETE AND NON-LOADBEARING BRICKWORK SURFACES.

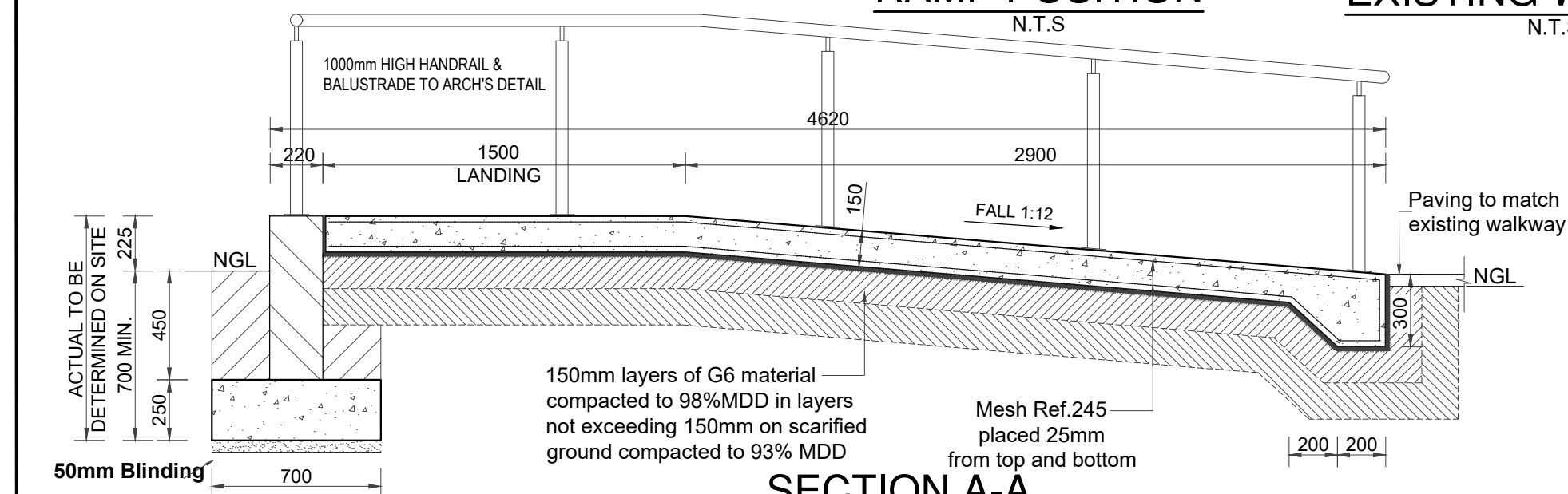
- E. REINFORCEMENT :**
1. THE CONTRACTOR SHALL INSPECT AND APPROVE THE FIXED REINFORCEMENT BEFORE THE ENGINEER IS NOTIFIED ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CASTING OF CONCRETE MAY COMMENCE.
2. BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH SABS 82.
3. REINFORCEMENT SHALL BE FIXED TO COMPLY WITH THE TOLERANCES AS SPECIFIED IN SABS 1200 G AND/OR THE PROJECT SPECIFICATION.
- 4) MINIMUM CONCRETE COVER TO REINFORCING, EXCEPT WHERE NOTED OTHERWISE ON BENDING SCHEDULES, IS AS FOLLOWS:
- | | |
|-----------------|------|
| FOUNDATIONS | 40mm |
| GROUND BEAMS | 40mm |
| COLUMNS | |
| BELOW GROUND | 40mm |
| ABOVE GROUND | 25mm |
| SUSPENDED BEAMS | 25mm |
| SLABS | 25mm |



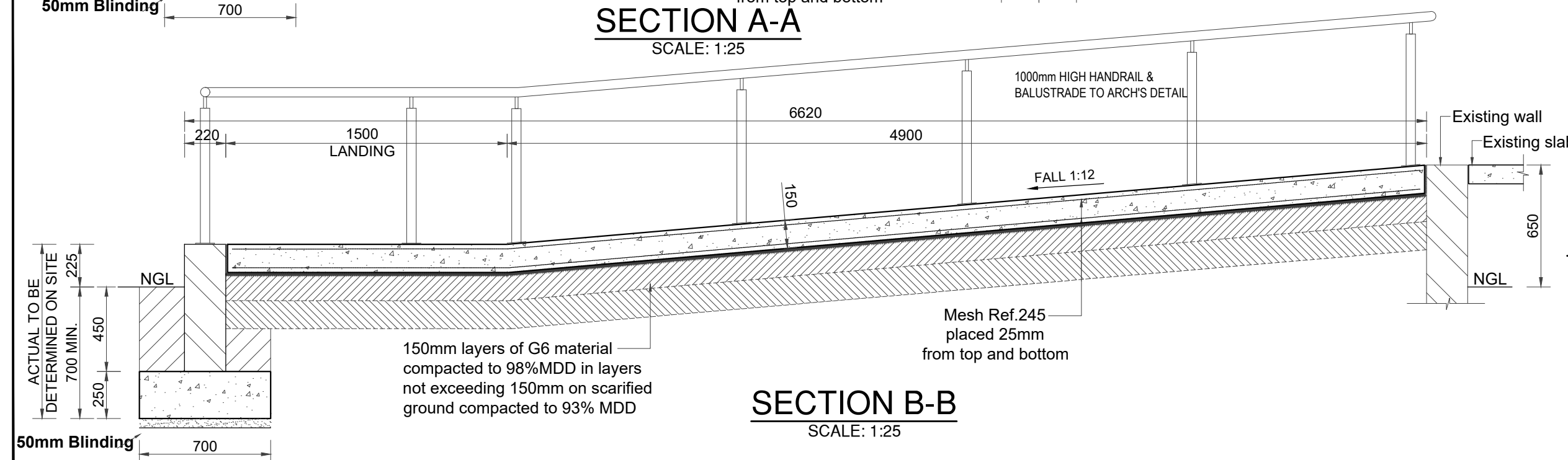
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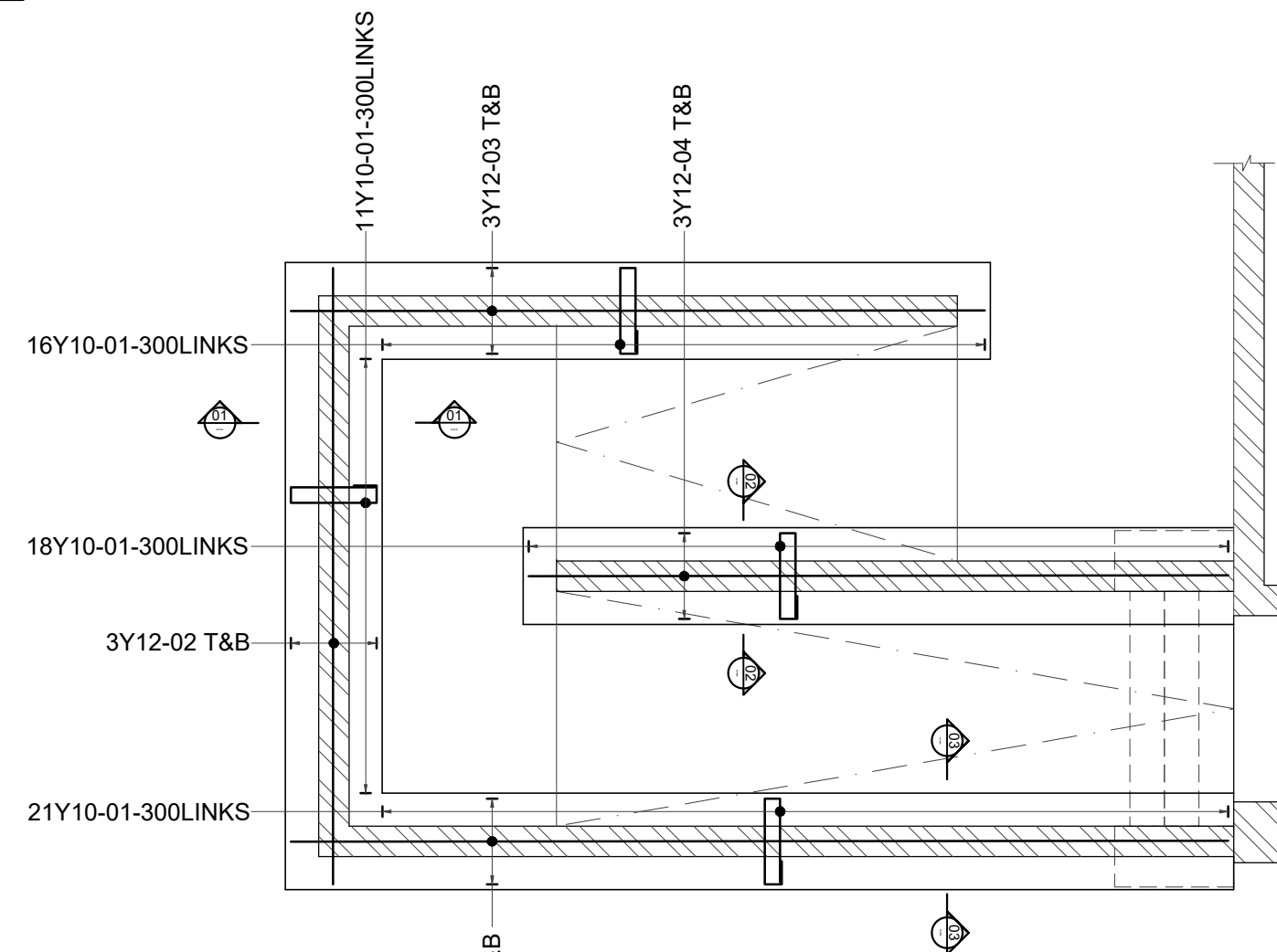
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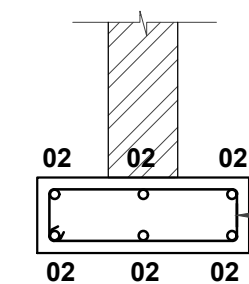
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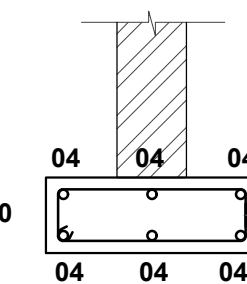
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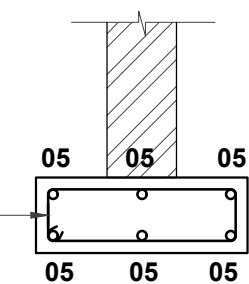
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R			PLOT 8 DAWN ROAD KEMAMAN ROAD OFF 3619 Cdg. 721 482 3805 Tel: 2711 442 5104 E-mail: technical@tehi.co.za	Drawing No. 2522-SR-01
	Pr. Eng. Approved <i>R. J. J. J. J.</i>	ESCA PR 20150167	Date 23.05.15	
Project Description STRUCTURAL REPAIRS & UPGRADES TO THE GARDEN MANAGER'S HOUSE AND NEW DISABLED RAMP FOR THE ADMIN BUILDING AT HANTAM NBS, NEUWOUDDVILLE				
Title RAMP FOUNDATION LAYOUT AND REBAR DETAILS				
RAMP FOUNDATIONS & REBAR		Title No. 2522-SR-01	A2	Rev