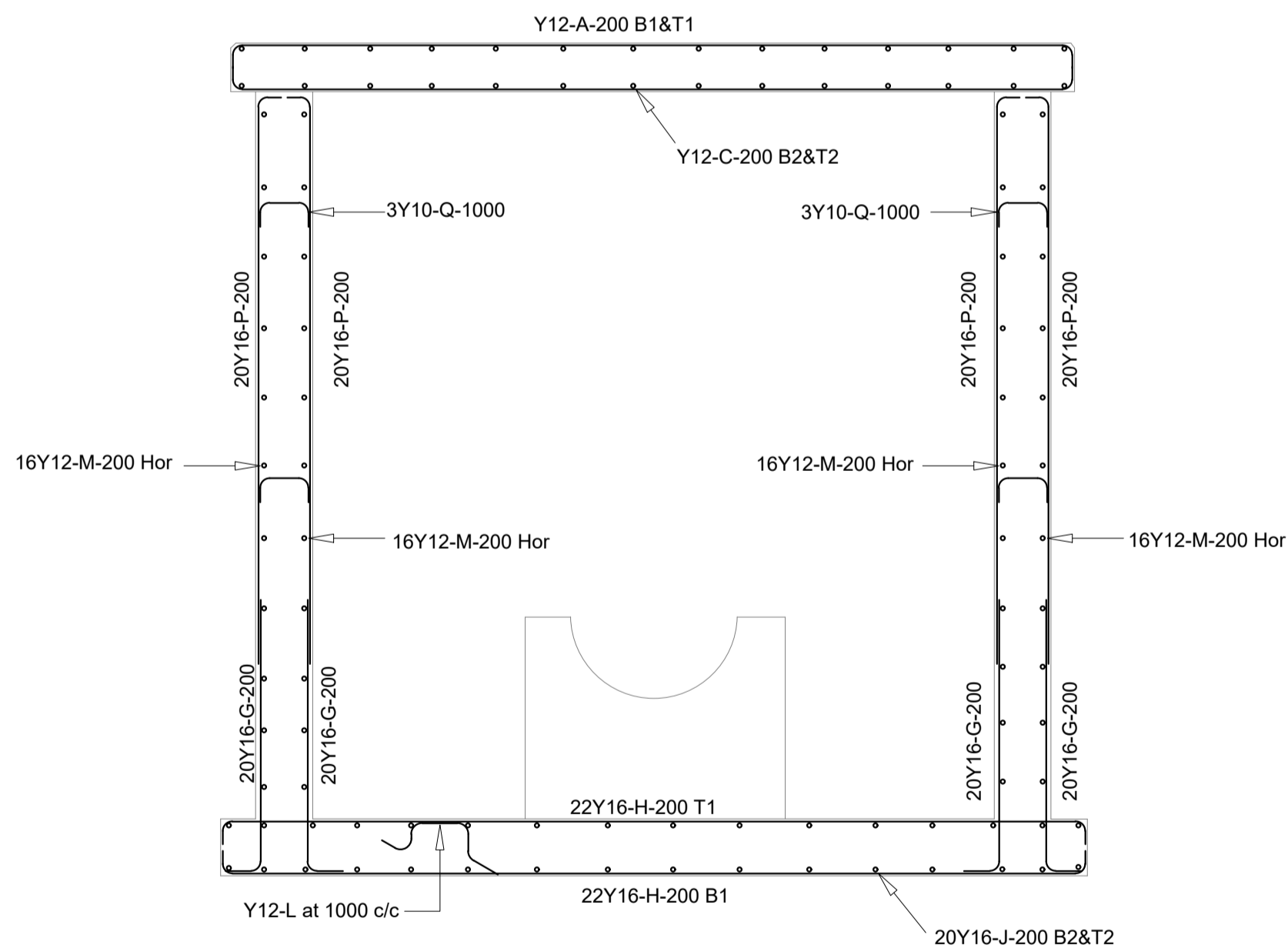
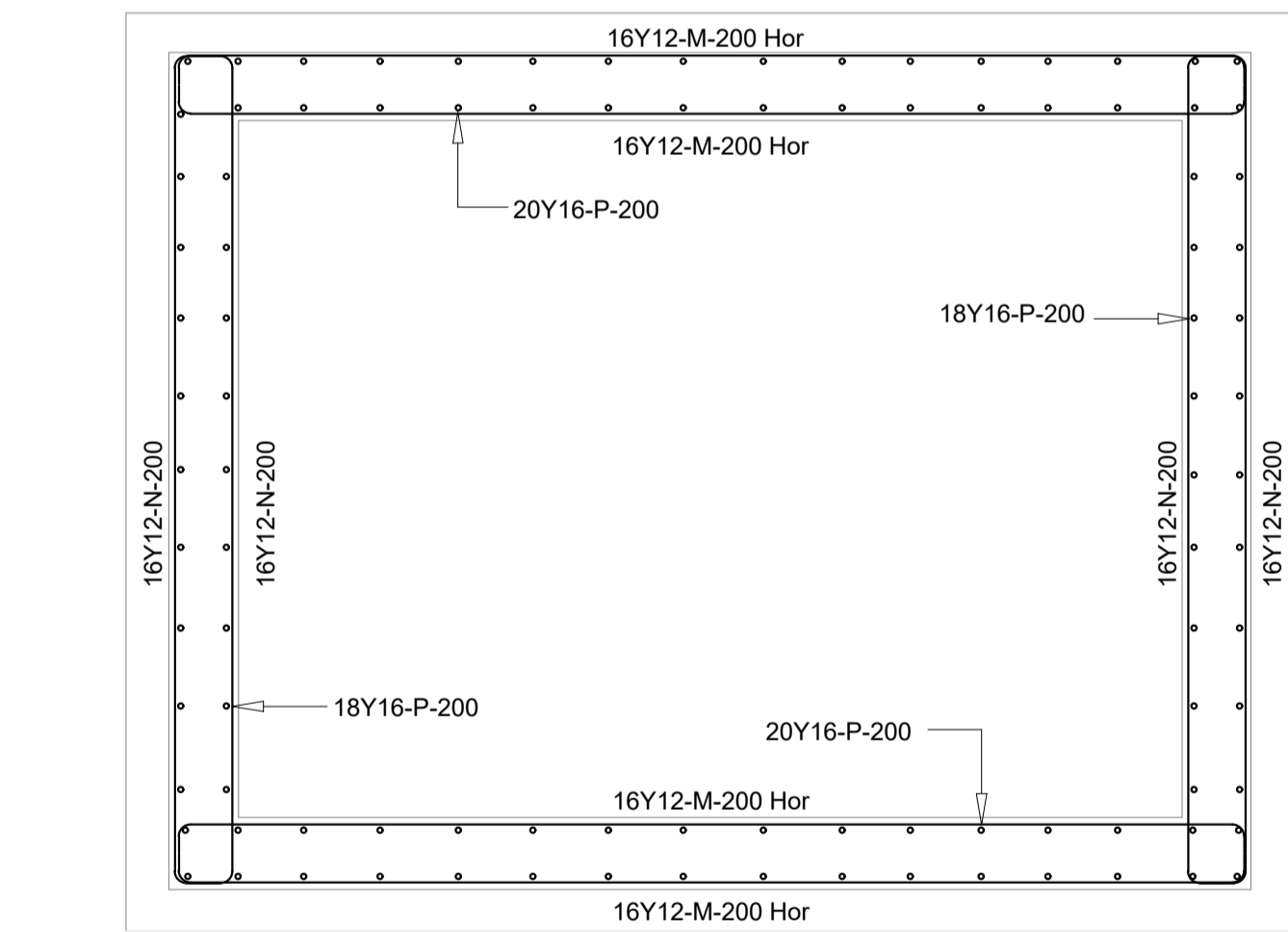


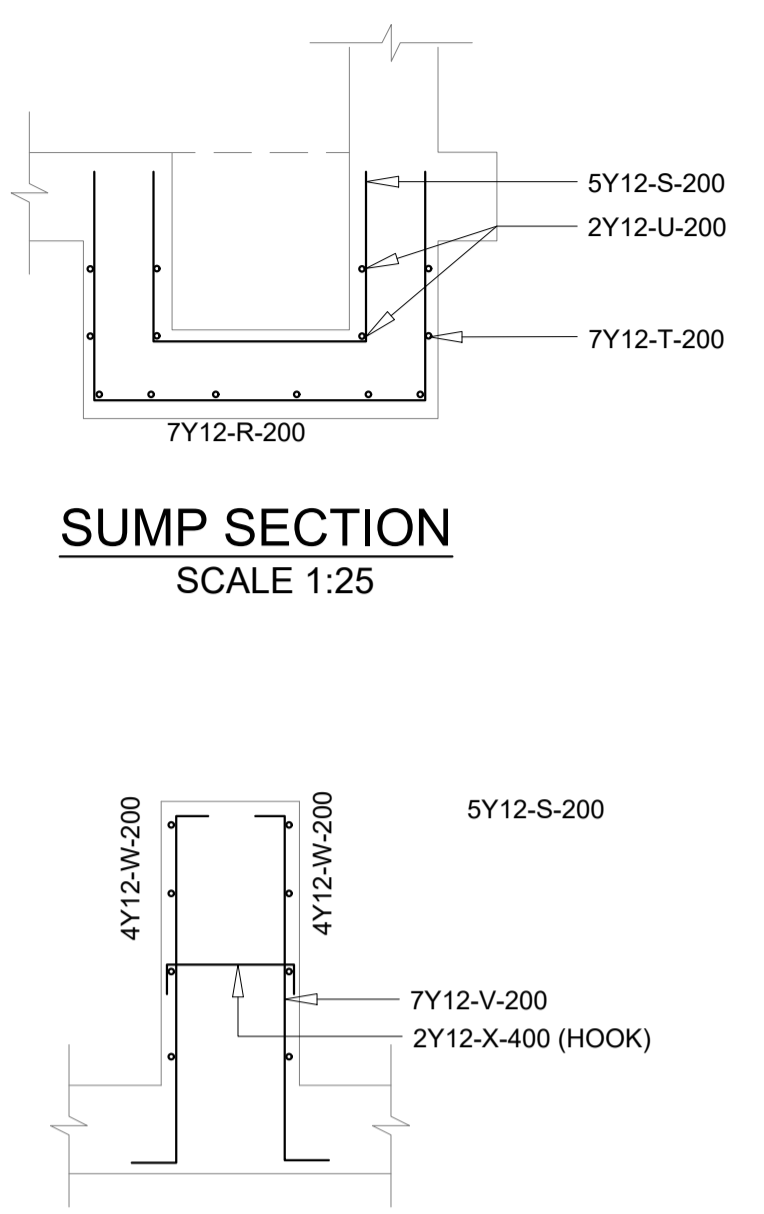
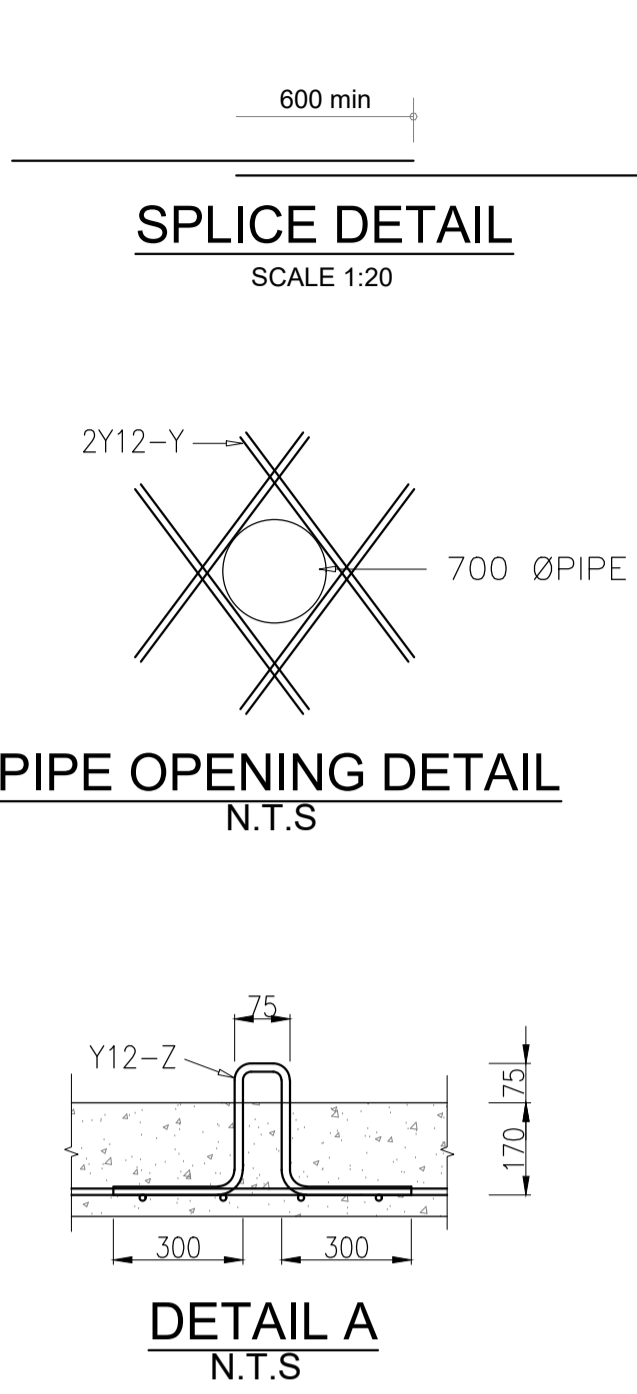
SURFACE BED REINFORCEMENT LAYOUT
SCALE 1:25



SECTION B-B
SCALE 1:25



PLAN VIEW
SCALE 1:25



MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S C	B E N D I N G				
								A	B	C	D	E/r
ROOF SLAB	2	17	Y12	3750	34	A	35	3550	(100)	(100)		
		5	Y12	2700	10	B	35	2500	(100)	(100)		
		33	Y12	2100	66	C	35	1900	(100)	(100)		
		5	Y12	750	10	D	35	550	(100)	(100)		
		5	Y12	600	10	E	35	400	(100)	(100)		
		8	Y12	1000	8	F	20	1000				
STARTER BARS		152	Y16	1200	152	G	37	150	1050			
GROUND SLAB	2	19	Y16	4100	38	H	35	3900	(100)	(100)		
		17	Y16	3700	34	J	35	4220	(100)	(100)		
		3	Y16	3350	6	K	35	3150	(100)	(100)		
		3	Y16	3000	6	H1	35	2800	(100)	(100)		
		3	Y16	600	6	J1	35	400	(100)	(100)		
		3	Y16	600	6	K1	35	400	(100)	(100)		
CHAMBER WALL	4	17	Y12	900	17	L	83	250	150			
		8	Y12	1000	16	F	20	1000				
		16	Y12	4000	64	M	35	3800	(100)	(100)		
		16	Y12	3700	64	N	35	3500	(100)	(100)		
		38	Y16	2900	152	P	37	2750	(100)	(100)		
		48	Y10	700	48	Q	35	200	(250)	(250)		
CHAMBER SUMP	2	7	Y12	2650	14	R	38	800	1100	800		
		5	Y12	1850	10	S	38	600	700	600		
		2	Y12	1550	8	T	38	100	1400	100		
		2	Y12	850	8	U	38	100	700	100		
		7	Y12	1500	14	V	54	250	1200	(100)		
		4	Y12	2200	8	W	55	150	300	1400	300	150
PIPE OPENING	2	2	Y12	450	2	X	38	100	320	(100)		
LIFTING HOOK	2	8	Y12	1400	16	Y	20	1400				
	8	10	12	16	20	25	32	40	TOT	BENDING SCHEDULE		
R										AIR VALVE CHAMBER		
Y	21	873	1545						2439			
TOT	21	873	1545						2439			

Engineer:

KEON

CONSULTING ENGINEERS

TECHNO

DESIGNS

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JOHANNESBURG WATER

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Newtown, Johannesburg

THESE NOTES SERVE AS AN ADDENDUM TO THE SPECIFICATION IN THE BILL OF QUANTITIES (BOQ). IN THOSE CASES WHERE THE BOQ SPECIFICATIONS DIFFER FROM THESE NOTES, THESE NOTES SHALL TAKE PRECEDENCE.

ON ORIGINAL

Engineer:

T.Chikwata Pr Eng (20140009)

Drawn By:

M.Mulumba

Designed By:

T.Magumo

Checked By:

T.Chikwata

Signature:

Signature:

Signature:

Date:

September 2022

Date:

September 2023

Date:

September 2023

CONCRETE NOTES:

1.0 SETTING OUT AND GENERAL:

1.1 THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.

1.2 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.

1.3 REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.

1.4 THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.

1.5 FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.

1.6 STRUCTURAL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S SPECIFICATIONS. ALL CONCRETE WORK IS TO BE DONE IN ACCORDANCE WITH S.A.N.S 1200G AND EARTHWORKS IN ACCORDANCE WITH S.A.N.S 1200G.

1.8 CONSULT RELEVANT ARCHITECTS, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLETS, RWOPS AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL.

2.0 FOUNDATIONS

2.1 ALL FOUNDATION EXCAVATIONS TO BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CONCRETE IS CAST.

2.2 CAST:

NO FOUNDATIONS ARE TO BE CAST IN FILL MATERIAL. A 50mm THICK LAYER OF 10MPa / 19mm BLINDING CONCRETE IS TO BE CAST UNDER ALL REINFORCED BASES, REINFORCED STRIP FOOTINGS AND GROUND BEAMS.

2.3 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 19mm CONCRETE AT THE CONTRACTOR'S EXPENSE.

2.4 BACKFILLING OVER COLUMN BASES SHALL BE DONE WITH AN APPROVED MATERIAL COMPACTED IN LAYERS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

2.5 ALLOWABLE BEARING PRESSURE UNDER:

CONCRETE BASES = 150kPa

STRIP FOOTINGS = 100kPa

CONCRETE

3.0 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:

BASES: 25MPa / 19mm

STRIP FOOTINGS: 20MPa / 19mm

SURFACE BEDS: 30MPa / 19mm

COLUMNS: 30MPa / 19mm

3.2 CONCRETE MIX DESIGNS FOR ALL GRADES OF CONCRETE TO BE GIVEN TO ENGINEER FOR PERUSAL AND COMMENT. CONCRETE MIX DESIGNS FOR SURFACE BEDS TO HAVE MINIMUM BLEED CHARACTERISTICS.

3.3 ALL CONCRETE TO BE ADEQUATELY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.

3.4 ALL CONCRETE TO BE CONSTRUCTED TO THE S.A.N.S 1200G PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS SPECIFIED OTHERWISE.

3.5 CONCRETE CUBE TEST RESULTS TO BE SUBMITTED TIMEOUSLY TO ENGINEER FOR PERUSAL, RECORDS, COMMENT AND APPROVAL.

4.0 REINFORCEMENT

4.1 CHARACTERISTIC STRENGTH:

MILD STEEL: 250N/mm2

HIGH YIELD STEEL: 450N/mm2

4.2 ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY ENGINEER BEFORE ANY CONCRETE IS CAST. 48 HOURS WRITTEN NOTICE TO BE GIVEN TO ENGINEER BEFORE TIME OF INSPECTION.

4.3 LAP LENGTH TO REINFORCING TO BE MINIMUM 50 x SMALLER BAR DIAMETER, UNLESS OTHERWISE NOTED.

4.4 MESH REINFORCEMENT REFERENCE 245 TO BE PLACED IN SLAB (TOP) MINIMUM LAPS = 300mm UNLESS OTHERWISE NOTED.

4.5 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE FOR INSPECTION OF THE REINFORCEMENT.

4.6 COVER TO REINFORCEMENT:

STRIP FOOTINGS: 50mm

COLUMNS: 50mm

COLUMNS AND WALLS: 30mm

SUSPENDED SLABS: 30mm

5.0 REINFORCEMENT AND PROPPING

5.1 STRIPPING TIMES FOR:

SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER

CHAMBER AND WALL: 12 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER

CHAMBER SUMP: 12 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER

5.2 PROPPING TIMES FOR:

SLABS AND BEAMS: 14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER

CHAMBER AND WALL: 12 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER

CHAMBER SUMP: 12 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER

5.3 CONCRETE FINISHES: UNLESS NOTED OTHERWISE CONCRETE FINISHES: OFF SHUTTER BEAMS AND SLAB SOFFIT: OFF SHUTTER TOP OF SUSPENDED SLABS: STEEL FLOAT SURFACE BEDS: POWER FLOAT

5.4 SIDES OF GROUND BEAMS TO BE SHUTTERED.

Refer To Drawing No:

Key Plan:

No Date Details Chd Appt Revisions

Project:

JW14406-LINBRO PARK TOWER (WITH ASSOCIATED WORKS)

Description:

AIR VALVE CHAMBER REBAR LAYOUT, SECTIONS & DETAILS

Issued For:

TENDER

Size Scale: Sheet No: Original Date:

A1 As Shown 2 OF 2 Sept 2023

Project No: Drawing No: Revision:

C01486 CP-19 T0