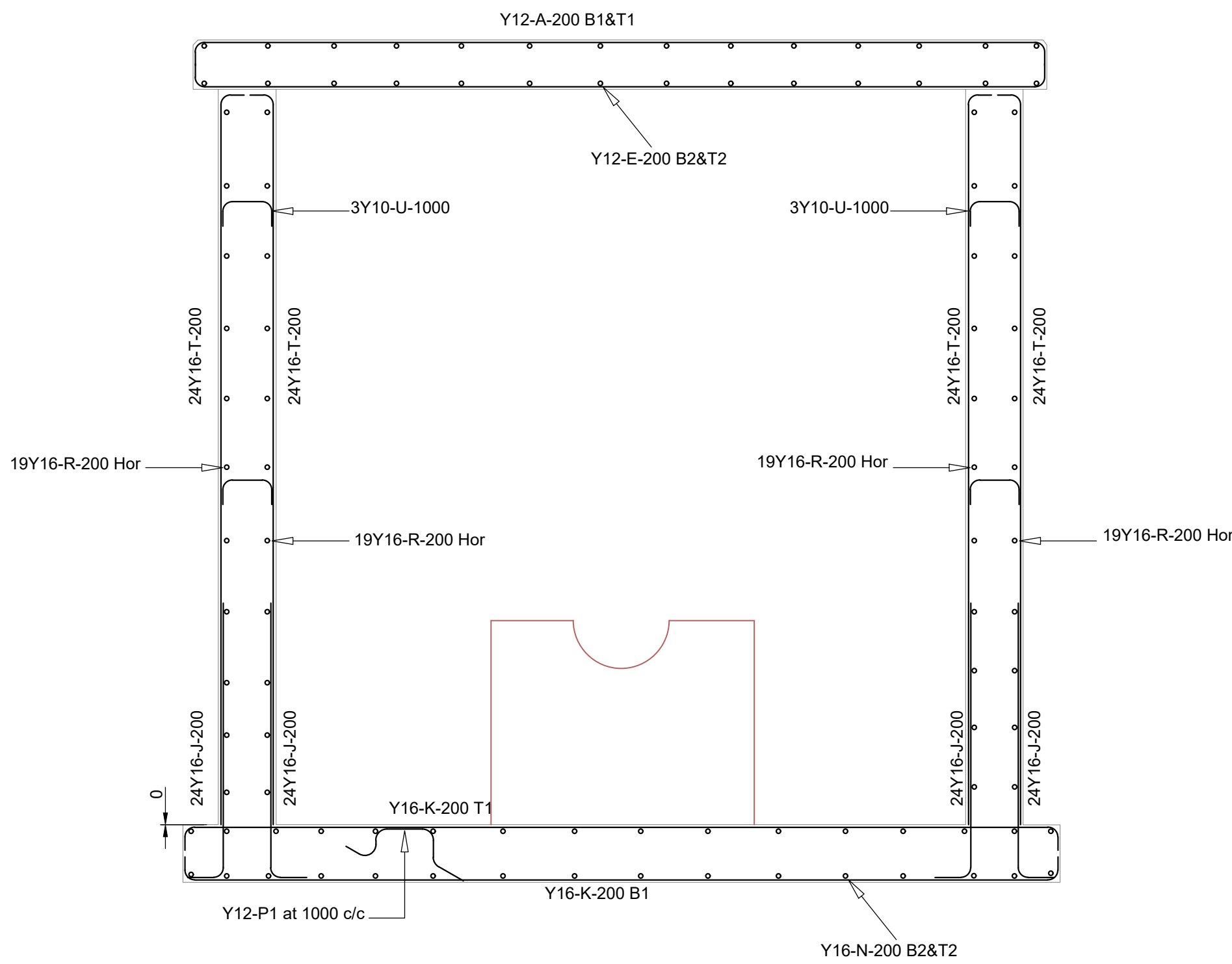
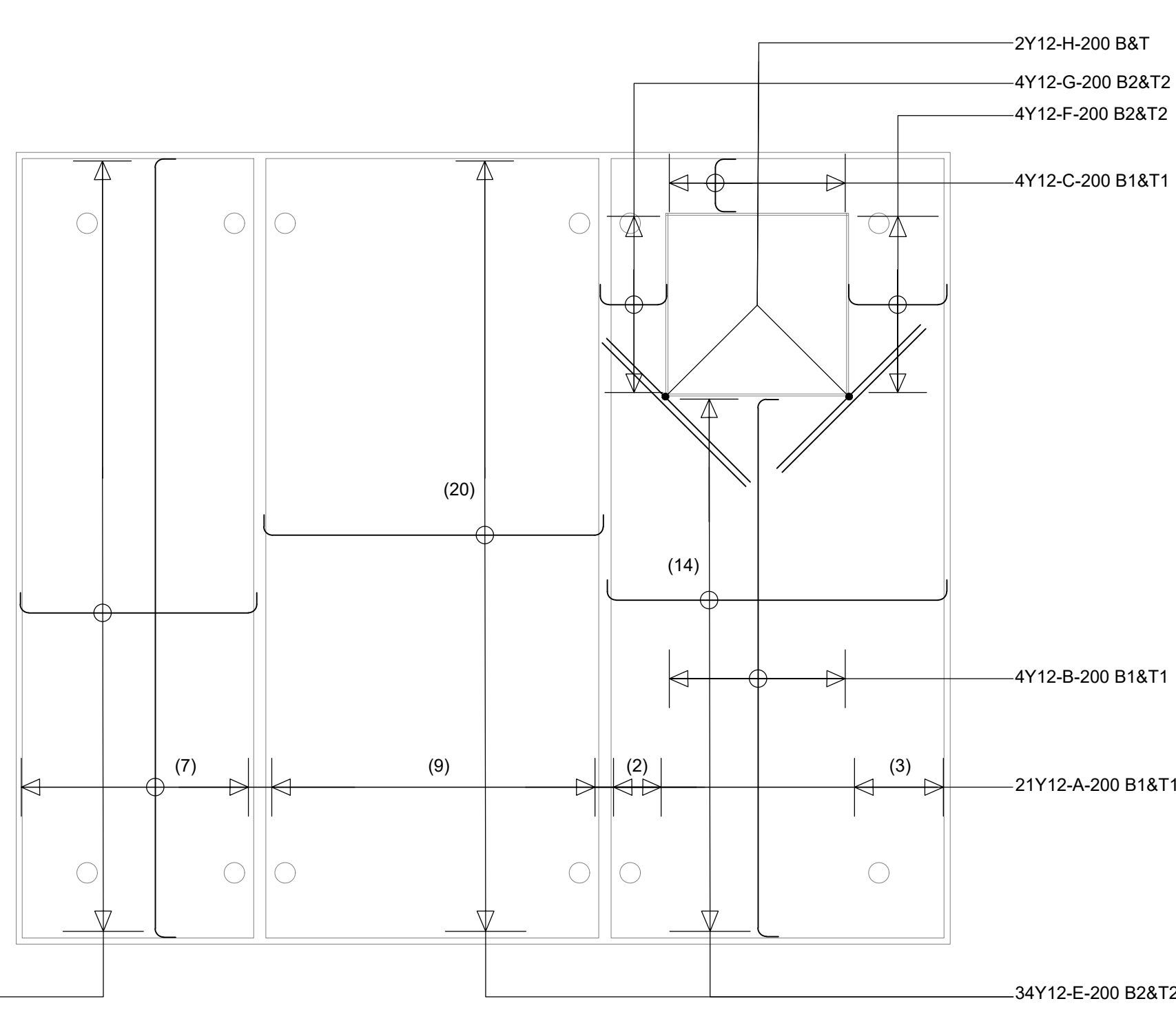


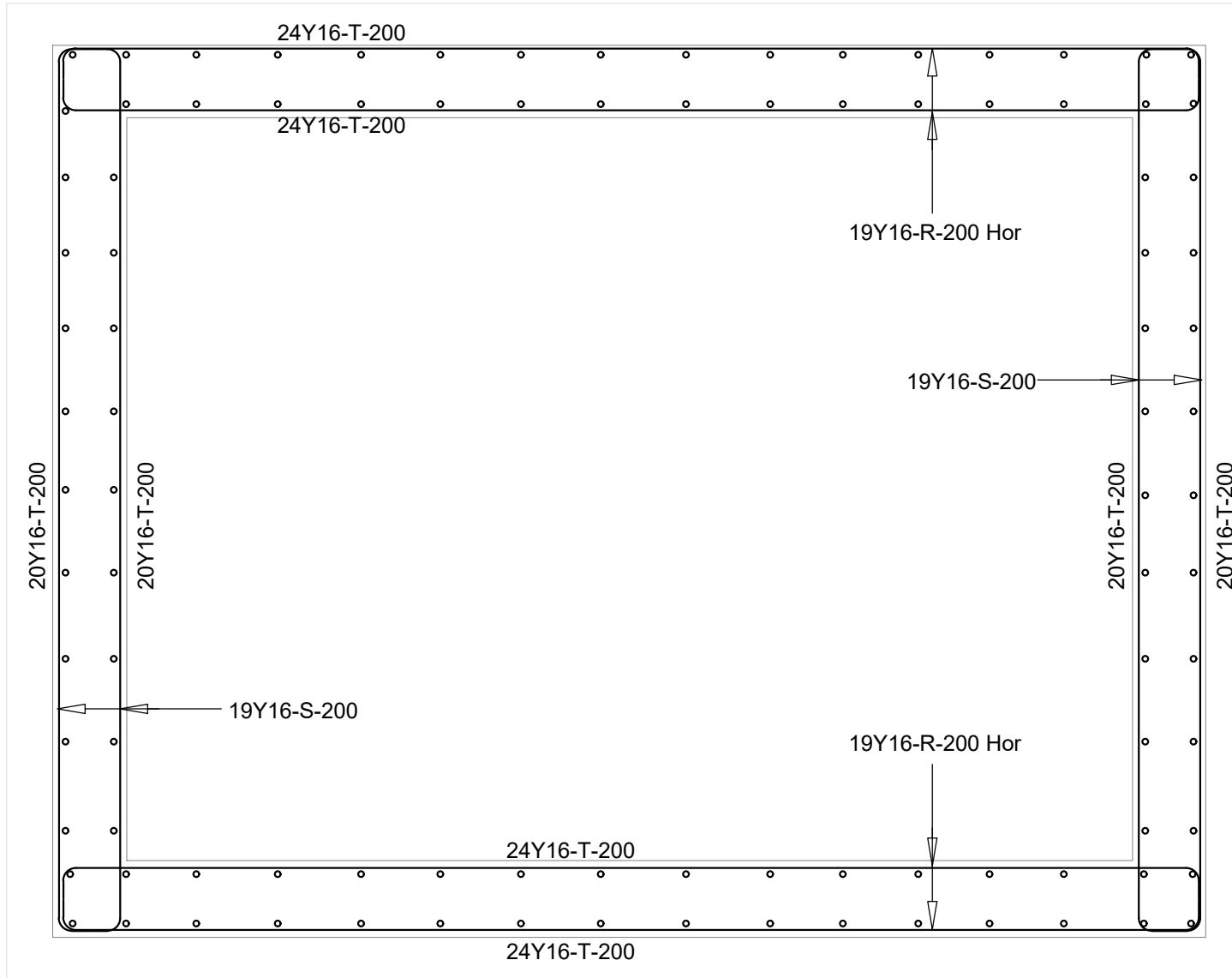
GROUND FLOOR SLAB REINFORCEMENT LAYOUT  
SCALE 1:25



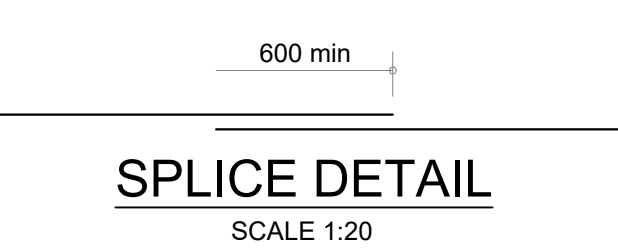
SECTION B-B REINFORCEMENT LAYOUT  
SCALE 1:25



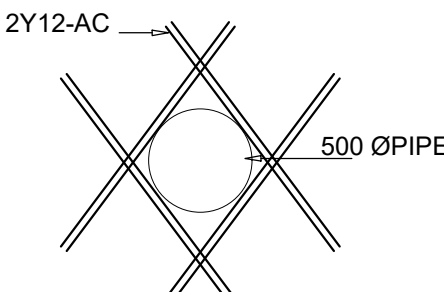
ROOF SLAB REINFORCEMENT LAYOUT  
SCALE 1:25



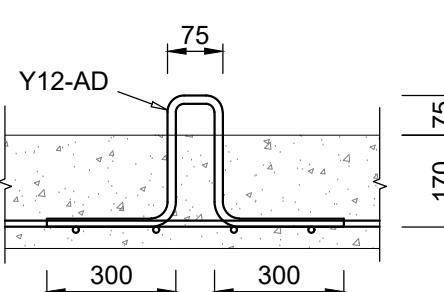
PLAN VIEW REINFORCEMENT LAYOUT  
SCALE 1:25



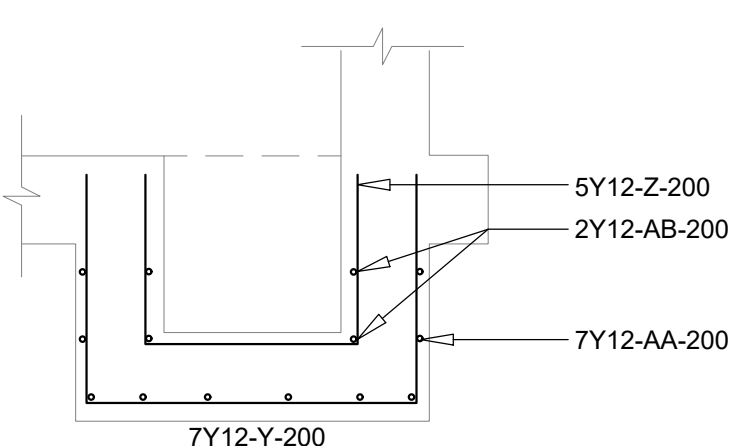
SPLICE DETAIL  
SCALE 1:20



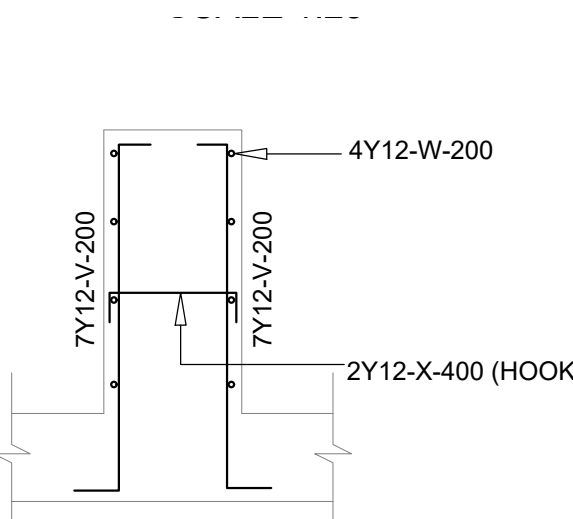
PIPE OPENING DETAIL  
N.T.S



DETAIL A  
N.T.S



SUMP SECTION  
SCALE 1:25



PLINTH SECTION  
SCALE 1:25

MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S C	BENDING				
								A	B	C	D	E/r
ROOF SLAB	2	21	Y12	4050	42	A	35	3850	(100)	(100)		
		4	Y12	2850	8	B	35	2650	(100)	(100)		
		4	Y12	450	8	C	35	250	(100)	(100)		
		20	Y12	1350	40	D	35	1150	(100)	(100)		
		34	Y12	1850	68	E	35	1650	(100)	(100)		
		4	Y12	650	8	F	35	450	(100)	(100)		
		4	Y12	450	8	G	35	250	(100)	(100)		
		4	Y12	1000	8	H	20	1000				
STARTER BARS	1	176	Y16	1600	176	J	37	250	1350			
GROUND SLAB	2	24	Y16	4600	48	K	35	4400	(100)	(100)		
		3	Y16	3400	6	L	35	3200	(100)	(100)		
		3	Y16	700	6	M	35	500	(100)	(100)		
		20	Y16	5300	40	N	35	5100	(100)	(100)		
		3	Y16	4100	6	N1	35	3900	(100)	(100)		
		3	Y16	700	6	P	35	500	(100)	(100)		
		23	Y12	900	23	P1	83	250	150	200		
		8	Y12	1000	16	Q	20	1000				
CHAMBER WALL	4	19	Y16	4700	76	R	35	4500	(100)	(100)		
		19	Y16	4000	76	S	35	3800	(100)	(100)		
		44	Y16	3800	176	T	37	3750	(100)	(100)		
		54	Y10	700	54	U	38	200	(250)	(250)		
PLINTH	2	7	Y12	1600	14	V	54	250	1300	(100)		
		4	Y12	2200	8	W	55	150	300	1400	300	150
		2	Y12	450	2	X	38	100	320	(100)		
CHAMBER SUMP	2	7	Y12	2650	14	Y	38	800	1100	800		
		5	Y12	1850	10	Z	38	600	700	600		
		2	Y12	1550	8	AA	38	100	1400	100		
		2	Y12	850	8	AB	38	100	700	100		
PIPE OPENING	2	8	Y12	1200	16	AC	20	1200				
LIFTING HOOK	3	4	Y12	1100	12	AD	53	300	245	75	245	(300)
R	8	10	12	16	20	25	32	40	TOT	BENDING SCHEDULE		
Y									3848	PROPOSED CHAMBER #10		
TOT		22	512	3314					3848			

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Engineer:  
T.Chikwata Pr Eng (20140009)  
Drawn By:  
T. Mangono  
Designed By:  
T.Chikwata  
Checked By:  
T.Chikwata  
Signature:  
Date:  
SEPT 2023

Signature:  
Date:  
SEPT 2023

Signature:  
Date:  
SEPT 2023

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

**CONCRETE NOTES:**  
1.0 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.  
1.1 ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.  
1.2 ANY OVER EXCAVATIONS ARE TO BE MADE GOOD WITH 10MPa / 19mm CONCRETE AT THE CONTRACTOR'S EXPENSE.  
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, RWPS 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  
CONCRETE CHARACTERISTIC 28 DAY STRENGTH:  
BASES 25MPa / 19mm  
STRIP FOOTINGS: 25MPa / 19mm  
SURFACE BEDS: 30MPa / 19mm  
COLUMNS: 30MPa / 19mm  
SUSPENDED SLABS & BEAMS: 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.  
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/mm<sup>2</sup>  
HIGH YIELD STEEL 460N/mm<sup>2</sup>  
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  
BASES: 50mm  
COLUMNS AND WALLS: 30mm  
SUSPENDED SLABS: 30mm  
4.7 SUSPENDED BEAMS: 30mm  
CONTRACTOR IS TO CONDUCT HIS OWN INSPECTION OF REINFORCEMENT BEFORE CALLING THE ENGINEER FOR INSPECTION.  
5.0 FORMWORK AND PROPPING  
5.1 STRIPPING TIMES FOR:  
COLUMN AND WALL SHUTTERING: 7 DAYS IN HOT WEATHER, 12 DAYS IN COLD WEATHER.  
BEAM SHUTTERING: 7 DAYS IN HOT WEATHER, 14 DAYS IN COLD WEATHER.  
FLAT SLABS:  
5.2 PROPPING TIMES FOR:  
SLABS AND BEAMS: 21 DAYS  
14 DAYS IN HOT WEATHER, 21 DAYS IN COLD WEATHER.  
CANTILEVER SLABS AND BEAMS: 21 DAYS  
(SUBJECT TO CUBE TEST RESULTS BEING SUBMITTED TIMEOUSLY TO ENGINEER FOR APPROVAL).  
NO DE PROPPING OF SUSPENDED ELEMENTS UNTIL INSTRUCTED BY ENGINEER.  
5.3 CONCRETE FINISHES: UNLESS NOTED OTHERWISE COLUMNS AND WALLS: OFF SHUTTER  
BEAMS AND SLAB SOFFIT: OFF SHUTTER  
TOP OF SUSPENDED SLABS: STEEL FLOAT  
SURFACE BEDS: POWER FLOAT  
SIDES OF GROUND BEAMS TO BE SHUTTERED.  
5.4

Refer to Drawing No:

Key Plan:

No	Date	Details	Chd	Appl
		Revisions		

Project:  
JW14406 - LINBRO PARK (WITH ASSOCIATED WORKS)

Description:  
PROPOSED VALVE CHAMBER #10 REBAR LAYOUT

Issued For:  
TENDER

Size:	Scale:	Sheet No:	Original Date:
A1	As Shown	3 OF 3	SEPT 2022

Project No:	Drawing No:	Revision:
C01486	PS-05	T0