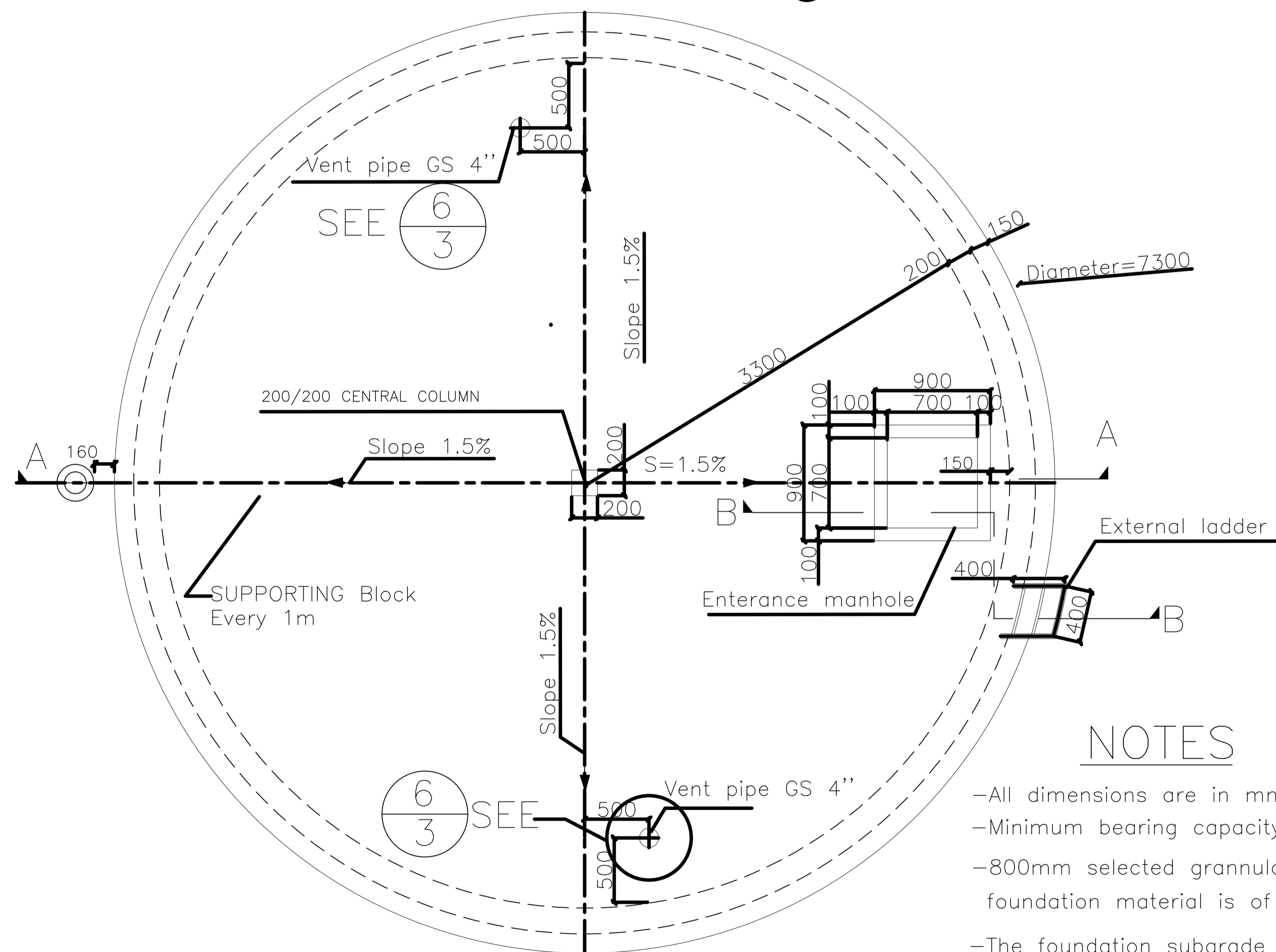
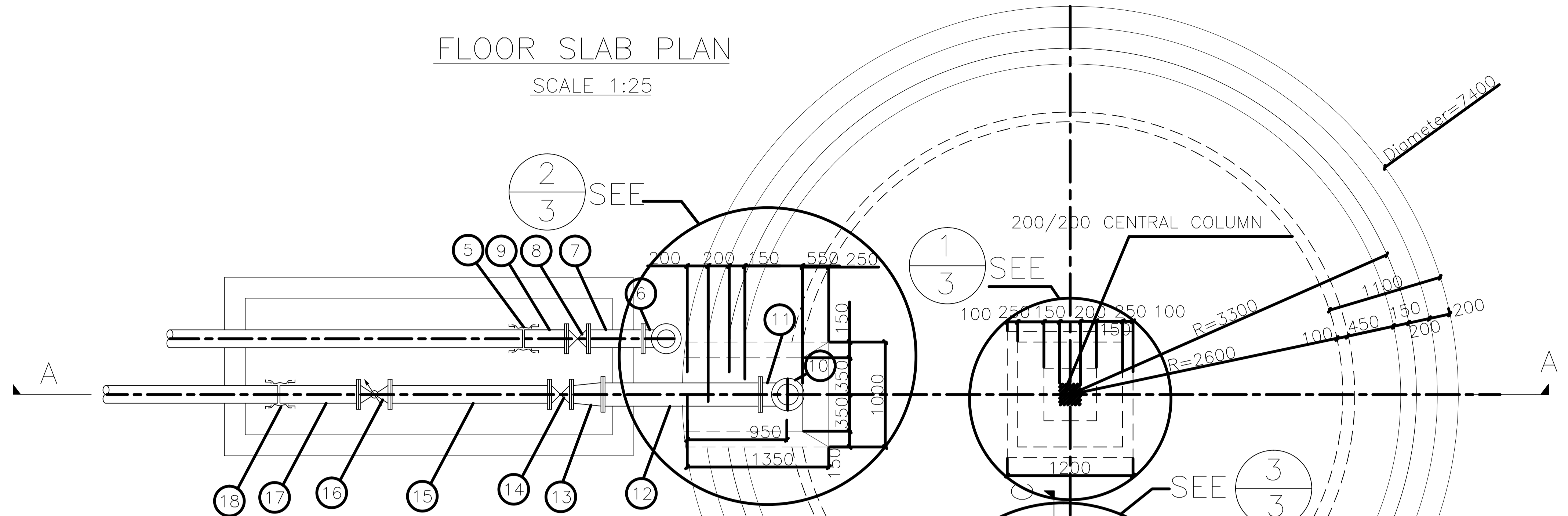


# FLOOR SLAB PLAN

SCALE 1:25



# ROOF SLAB PLAN

SCALE 1:25

### LEGEND

6 / 3 Detail No. Sheet No.

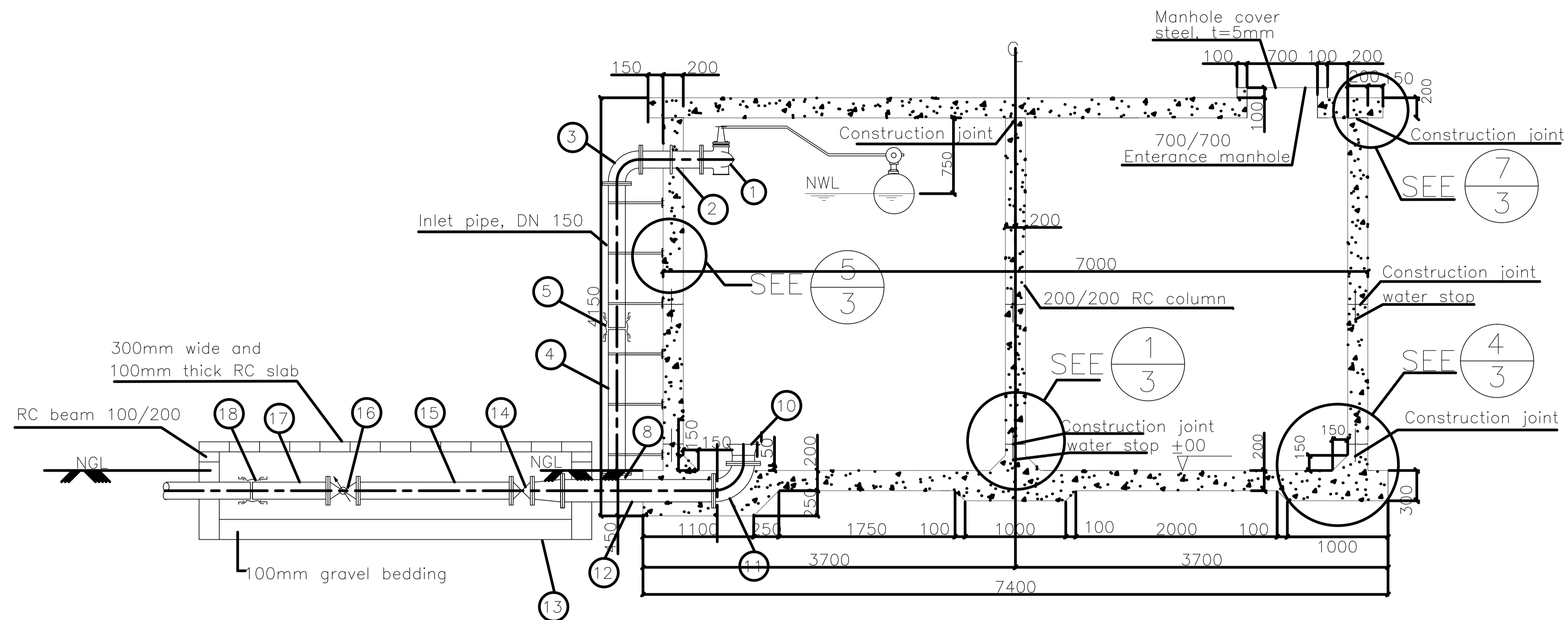
### NOTE

SECTION B-B GIVEN IN Dwg. TY-GLR100-3  
SECTION C-C GIVEN IN Dwg. TY-GLR100-3

### NOTES

- All dimensions are in mm
- Minimum bearing capacity for the foundation soil 100Kn/m<sup>2</sup>
- 800mm selected granular fill to be used when the foundation material is of poor bearing capacity as determined by the Engineer
- The foundation subgrade shall be compacted to 95% proctor and the granular material fill (if used) shall be compacted to 98% proctor
- Slope of the roof slab to be made by taping light weight cement screed
- All pipes, flanges, valves and fittings to PN10 unless specified otherwise
- Concrete class is C-30 (30Mpa) and deformed reinforcement bars S=300Mpa
- Minimum cover for the reinforcement bars 40mm

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CONSULTING ARCHITECTS AND ENGINEERS Pvt Ltd. Co P.O.Box 1405, Tel. 152475, FAX 533658 ADDIS ABABA, ETHIOPIA			
CLIENT AFRICAN UNION COMMISSION (AUC)			
PROJECT RENOVATION & FURNISHING OF BUILDING " A "			
LOCATION ADDIS ABABA			
DRAWING TITLE 60 m <sup>3</sup> CAPACITY RESERVOIR SECTIONS & DETAILS			SCALE 1:25 & 1:10
			DATE Jan. 2009
			DR NO.
DESIGNED BY	REG. NO	SIGN	DR NO.
			SN FIN
DRAWN BY			
CHECKED BY			01/05
APPROVED BY			

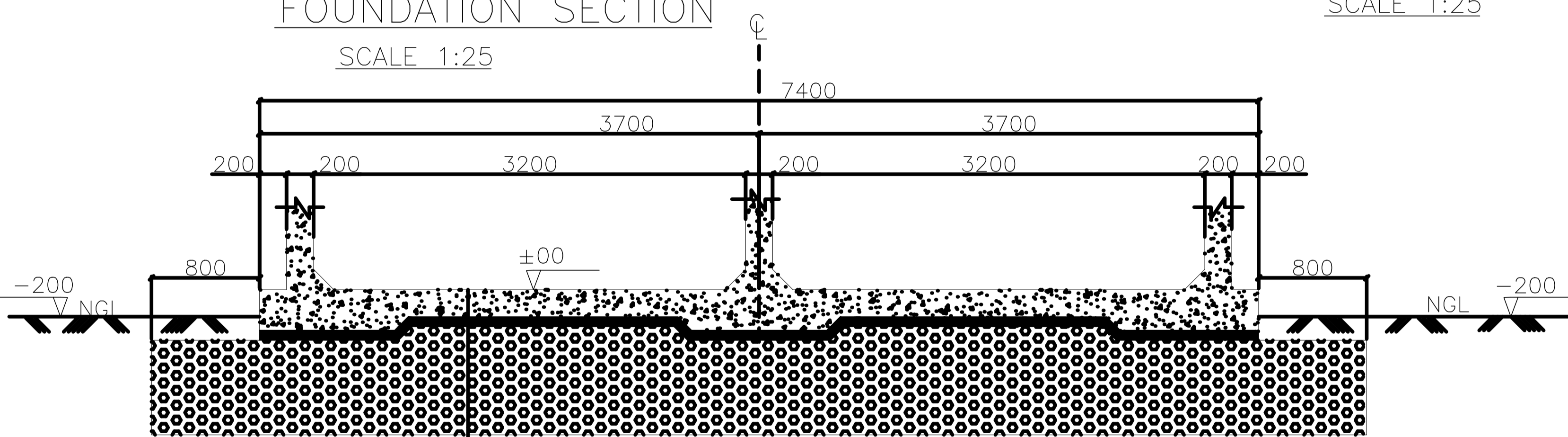


SECTION A-A  
SCALE 1:25

LEGEND

5 Detail No.  
3 Sheet No.

FOUNDATION SECTION  
SCALE 1:25



- 200mm RC slab
- 75mm cement screed C-10
- 300mm selected granular fill (optional) compacted to 95% proctor
- Sub-base compacted to 90% proctor

NOTES

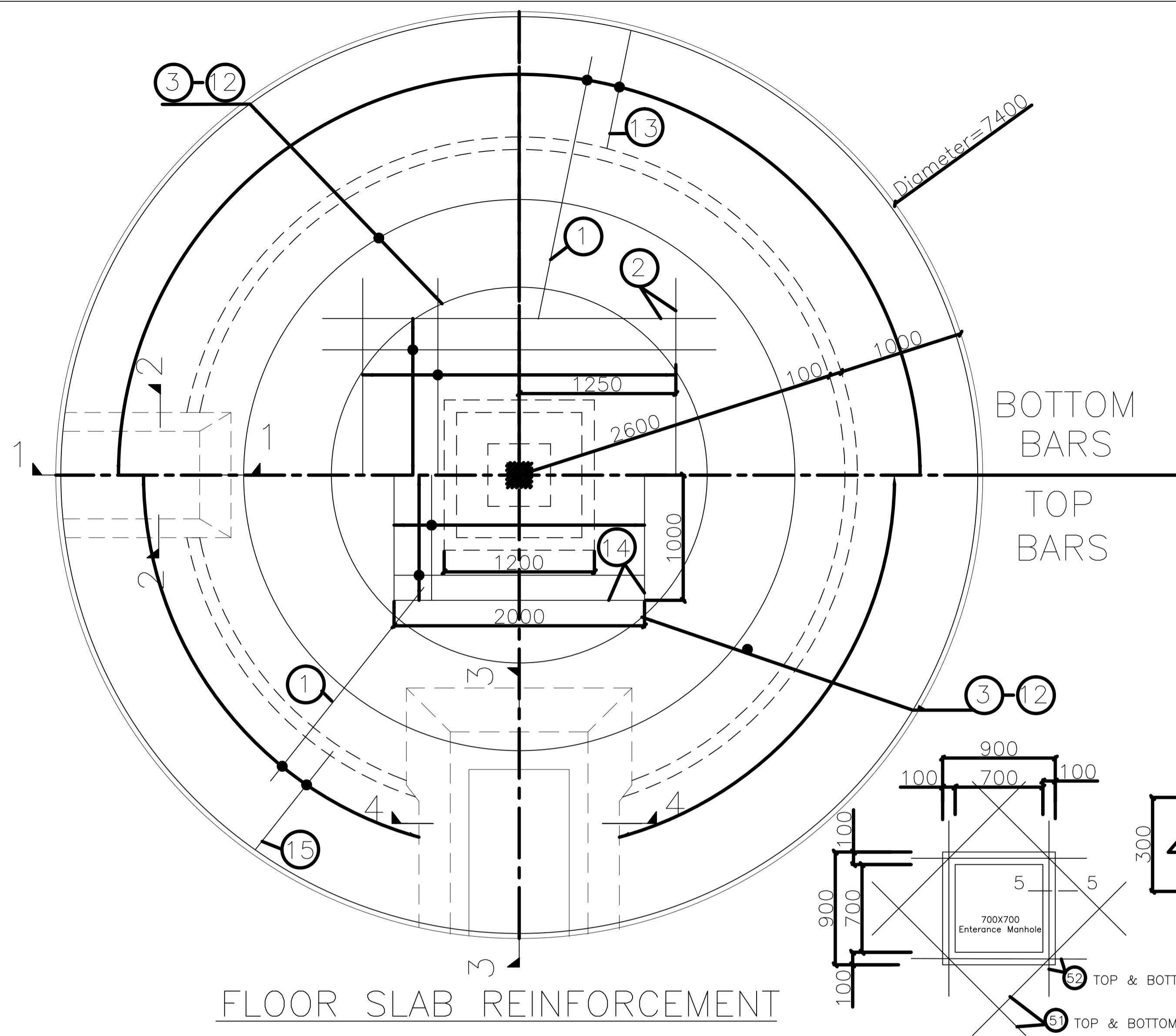
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- The foundation subgrade shall be compacted to 95% proctor and the granular material fill (if used) shall be compacted to 98% proctor
- Slope of the roof slab to be made by tapping light weight cement screed
- All pipes, flanges, valves and fittings to PN10 unless specified otherwise
- Concrete class is C-30 (30Mpa) and deformed reinforcement bars S=300Mpa
- Minimum cover for the reinforcement bars 40mm

LIST OF PIPES AND FITTINGS

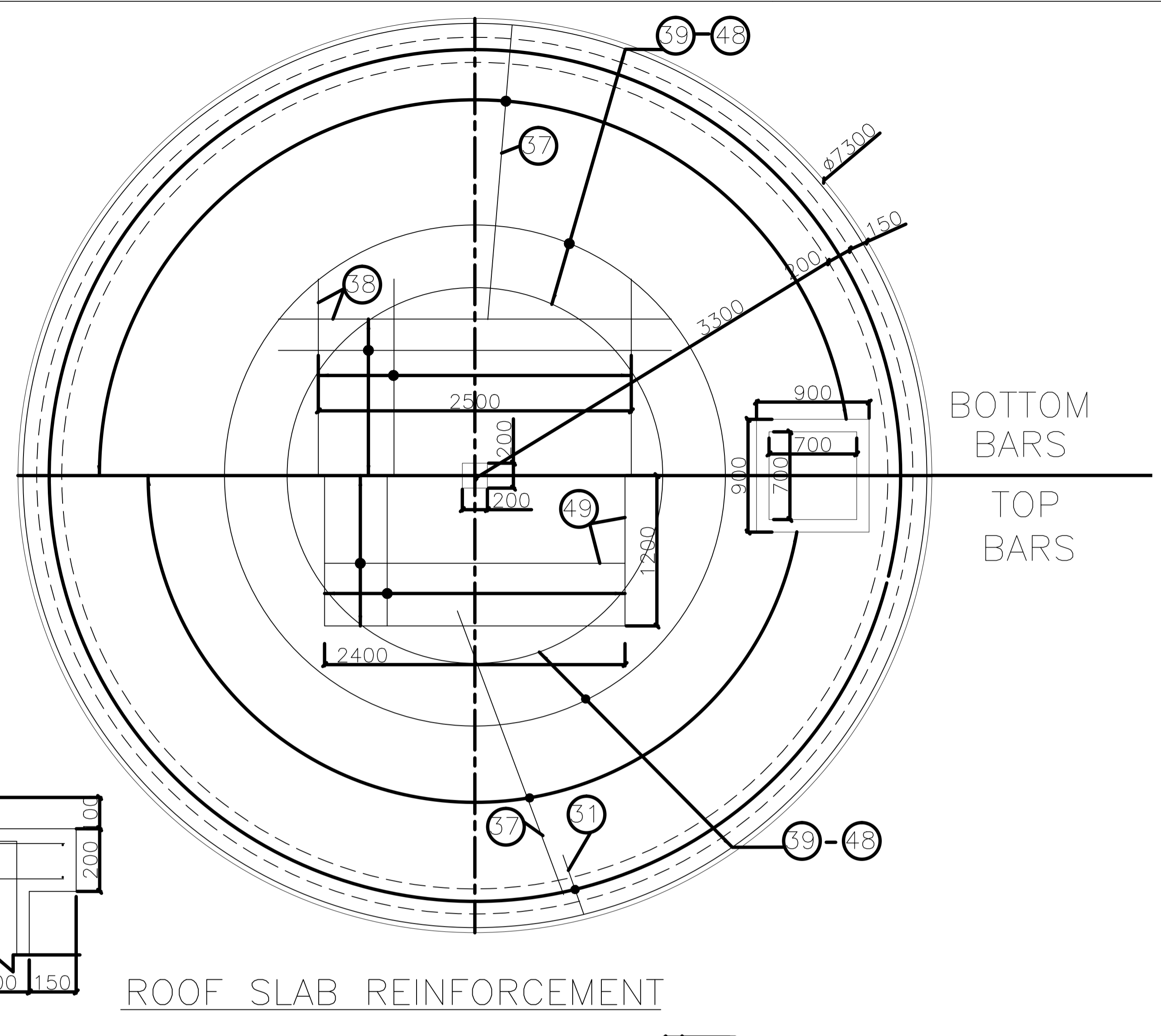
ITEM	DESCRIPTION	DIA.(mm)	UNIT	QUANTITY
<b>INLET PIPE</b>				
1	DCI Flanged float valve	150	No.	1
2	DCI double flanged pipe with puddle flange	150	No.	1
3	DCI bend 90°	150	No.	1
4	DCI double flanged pipe, L=6m*	150	No.	1
5	V/J coupling for DCI pipe	150	No.	2
6	DCI duck foot flanged bend 90°	150	No.	1
7	DCI double flanged pipe, L=0.5m	150	No.	1
8	Flanged gate valve	150	No.	1
9	DCI flanged spigot	150	No.	1
<b>OUTLET PIPE</b>				
10	DCI flanged Bellmouth	200	No.	1
11	DCI flanged bend 90°	200	No.	1
12	DCI double flanged pipe, L=1.5m	200	No.	1
13	DCI flanged reducer	200/150	No.	1
14	Flanged gate valve	150	No.	1
15	DCI double flanged pipe, L=1.5m	150	No.	1
16	Flanged water meter	150	No.	1
17	DCI single flanged pipe, L=0.75m	150	No.	1
18	V/J coupling for DCI pipes	150	No.	1
<b>OVERFLOW PIPE</b>				
19	DCI flanged Bellmouth	150	No.	1
20	DCI double flanged pipe, L=6m*	150	No.	1
21	V/J coupling for DCI pipe	150	No.	1
22	DCI duck foot flanged bend 90°	150	No.	1
23	DCI double flanged pipe, L=1.5m	150	No.	1
24	DCI all flanged reducing tee	150/100	No.	1
25	DCI flanged spigot	150	No.	2
26	V/J coupling from DCI to uPVC pipe	150	No.	1
27	uPVC pipe, L=specified on site	150	No.	1
28	DCI flanged flap check valve	150	No.	1
<b>DRAIN PIPE</b>				
29	DCI plain ended pipe, L=2.2m	100	No.	1
30	V/J coupling for DCI pipes	100	No.	1
31	Flanged gate valve	100	No.	1
32	DCI flanged bend 90°	100	No.	1
<b>AIR VENT</b>				
33	GS bend 90°	4"	No.	4
34	GS short piece, L=0.15m	4"	No.	4
35	GS short piece, L=0.5m	4"	No.	2

\* To be cut on site in two sections and joined by V/J coupling to fit actual dimensions

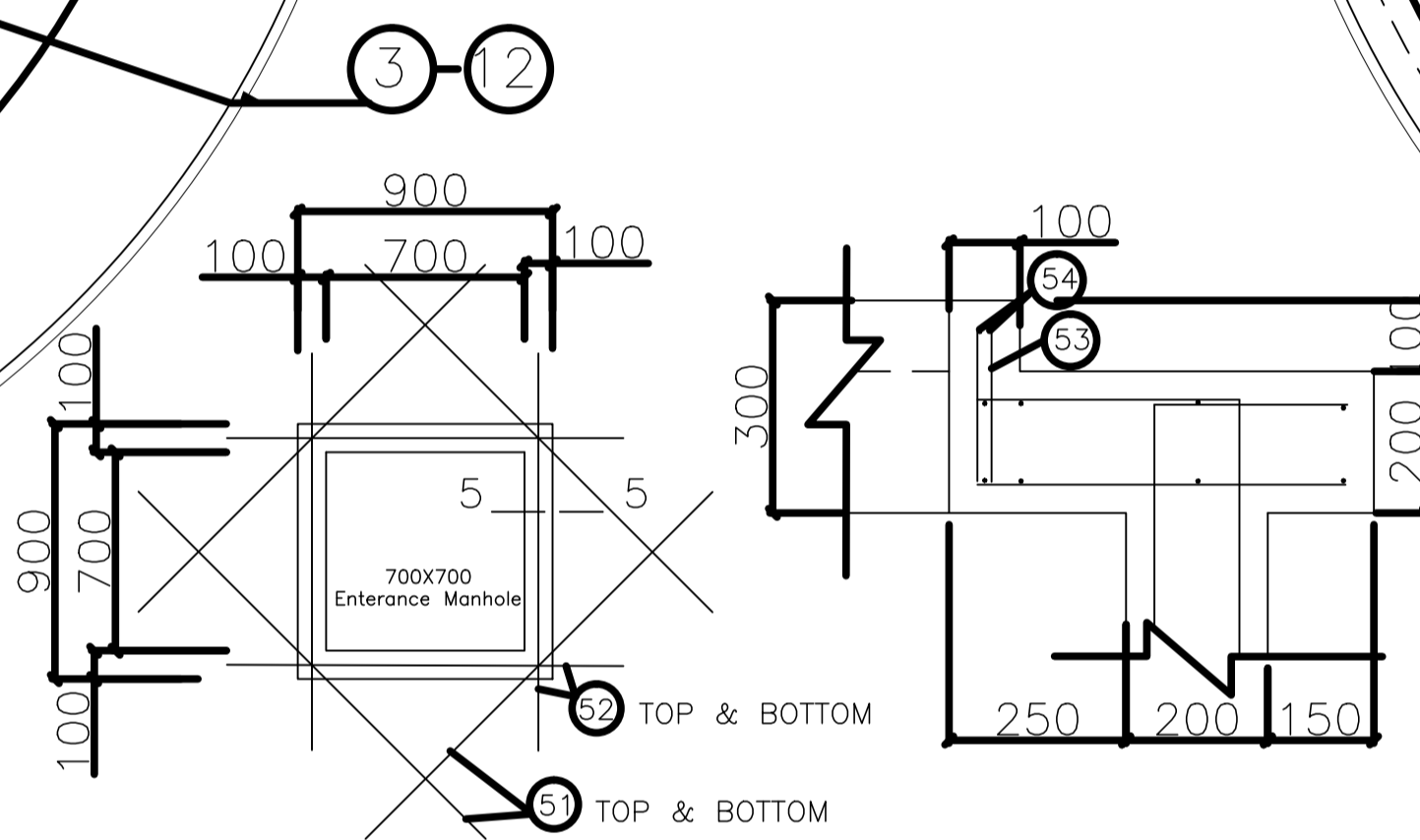
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LOCATION ADDIS ABABA			
DRAWING TITLE 60 m <sup>3</sup> CAPACITY RESERVOIR SECTIONS & DETAILS			SCALE 1:25 & 1:10
			DATE Jan. 2009
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DESIGNED BY			DR NO. SN FIN
DRAWN BY			
CHECKED BY			02/05
APPROVED BY			



FLOOR SLAB REINFORCEMENT  
SCALE 1:25

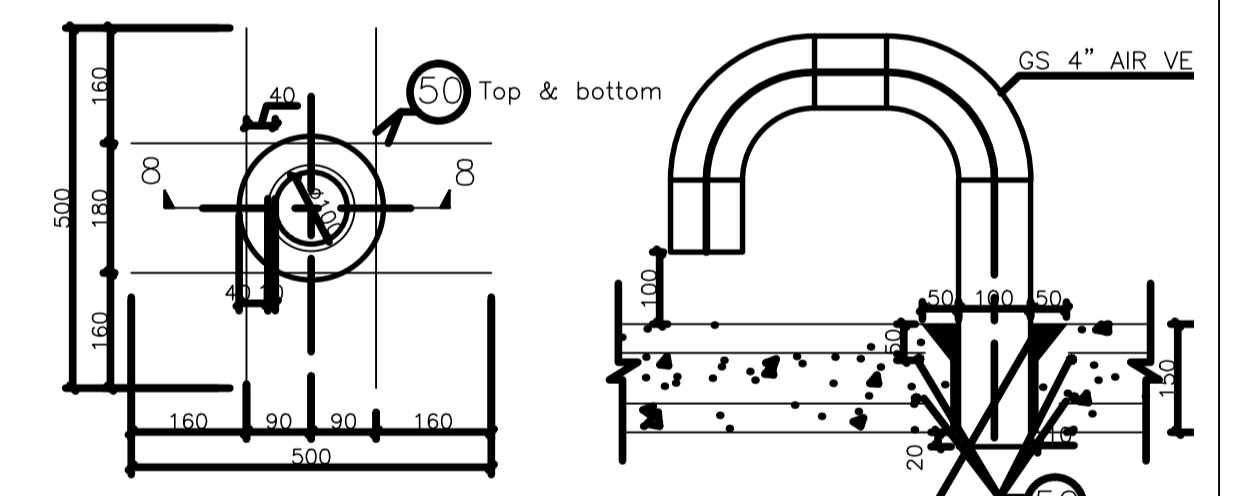


ROOF SLAB REINFORCEMENT  
SCALE 1:25



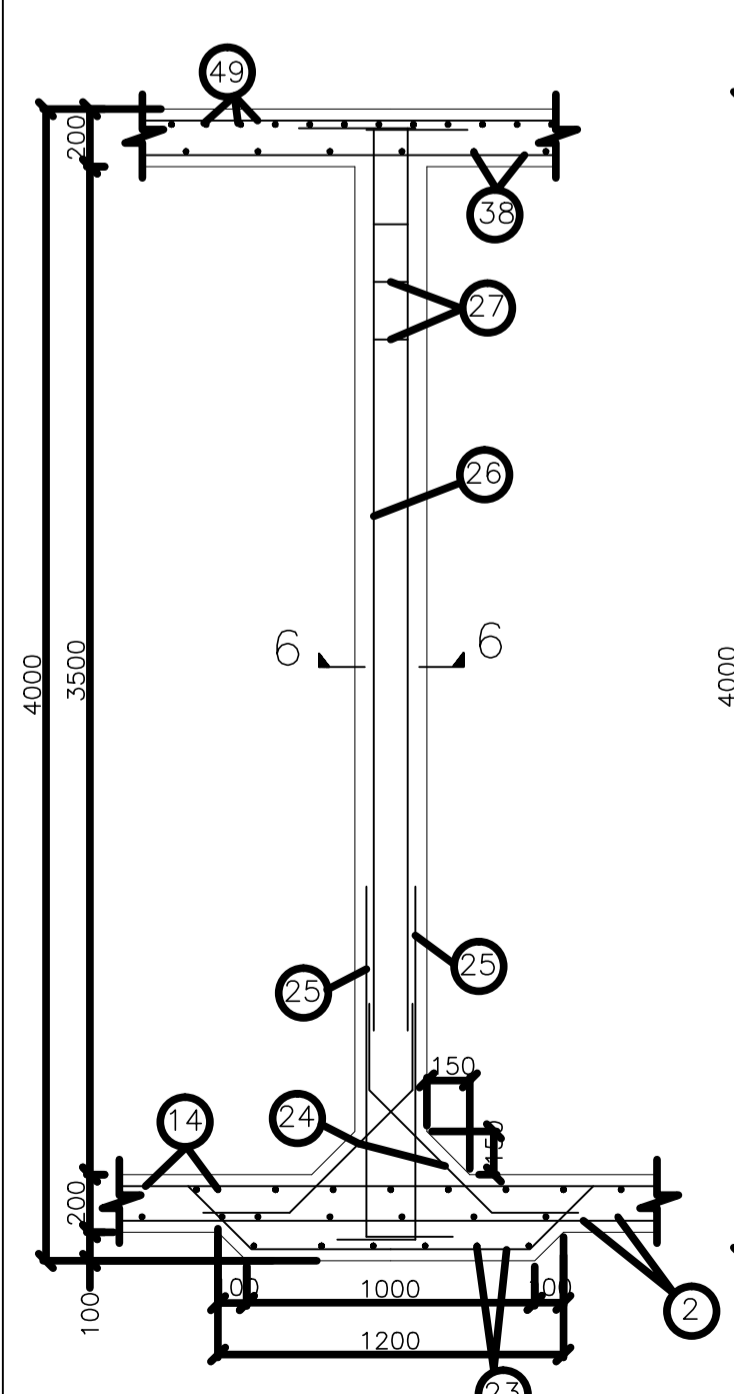
ADDITIONAL BARS AROUND ENTRANCE MANHOLE  
SCALE 1:25

SECTION 5-5  
SCALE 1:25

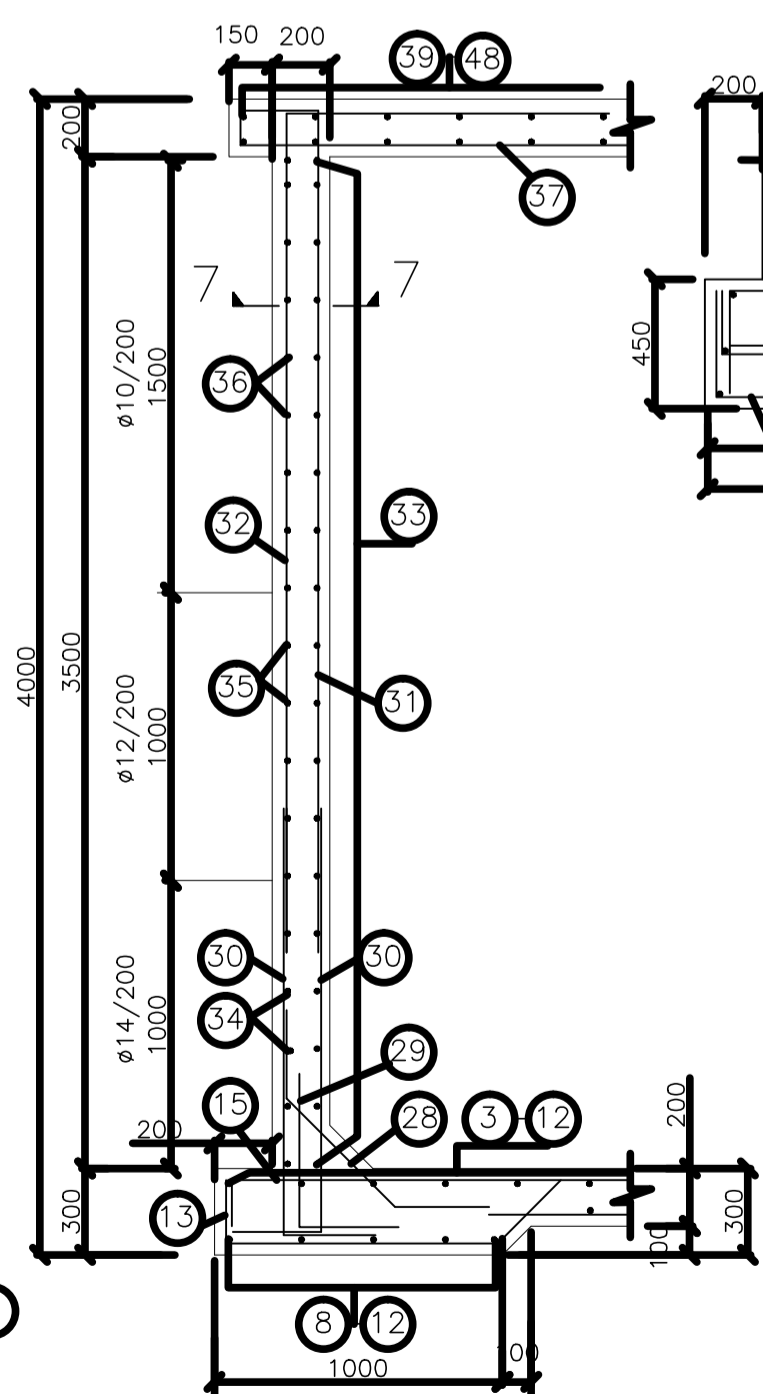


ADDITIONAL Ø8 BARS  
AROUND VENT PIPE HOLE  
SCALE 1:10

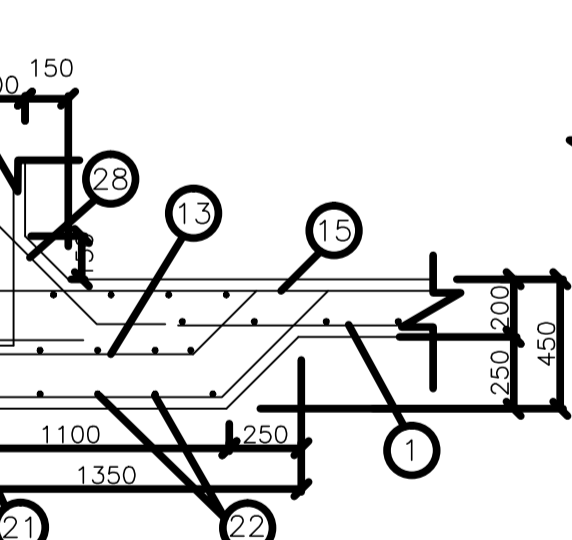
SECTION 8-8  
SCALE 1:10



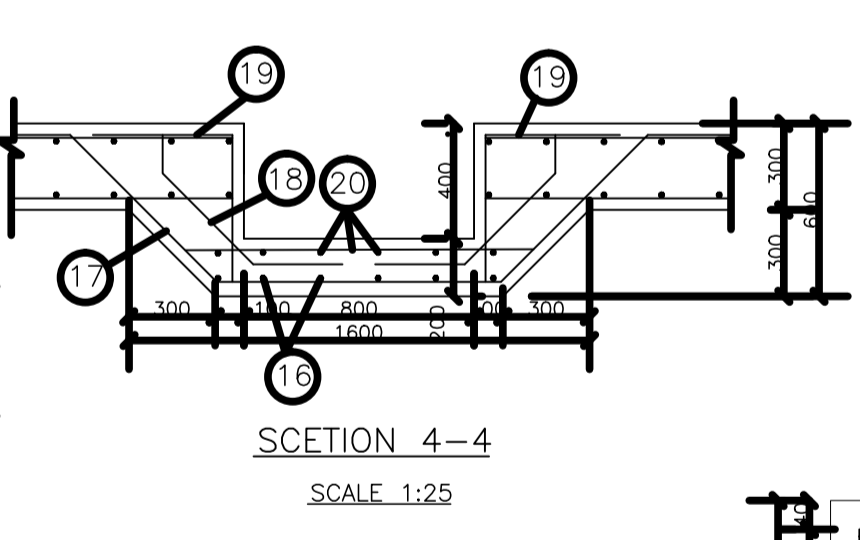
COLUMN REINFORCEMENT  
SCALE 1:25



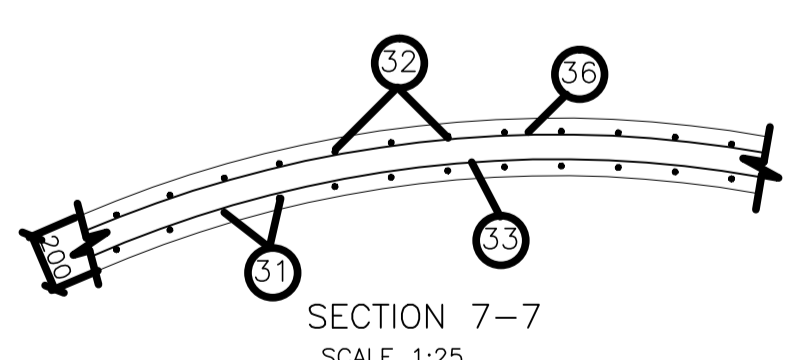
WALL REINFORCEMENT  
SCALE 1:25



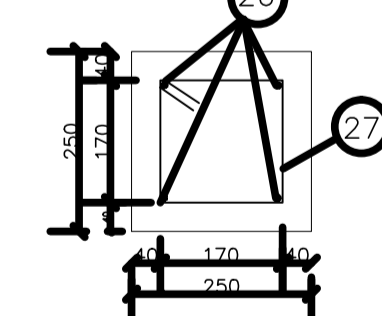
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SCALE 1:25



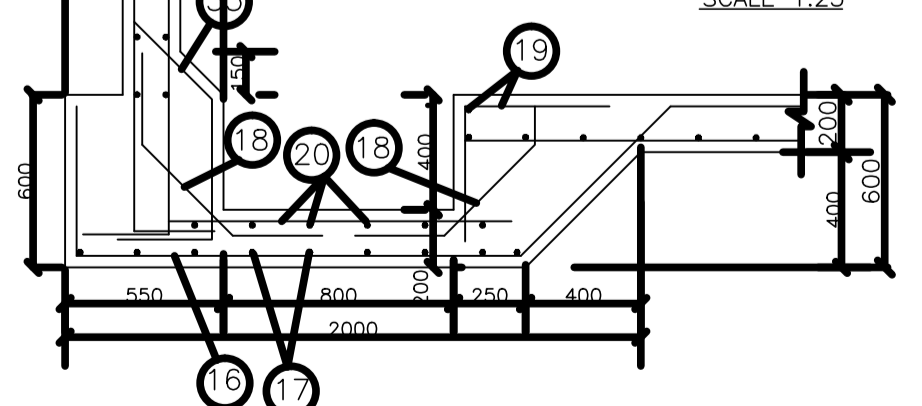
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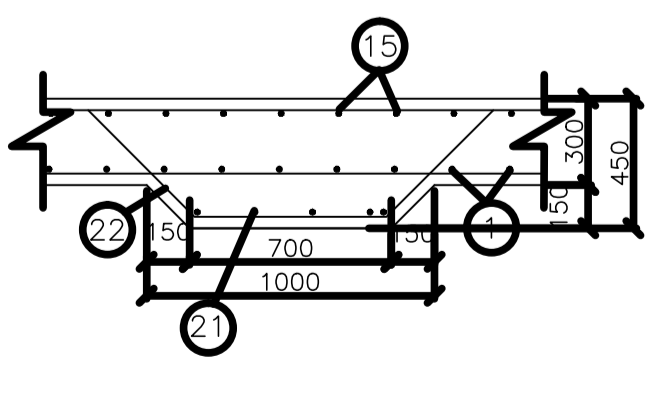
SECTION 7-7  
SCALE 1:25



SECTION 6-6  
SCALE 1:10



SECTION 3-3  
SCALE 1:25



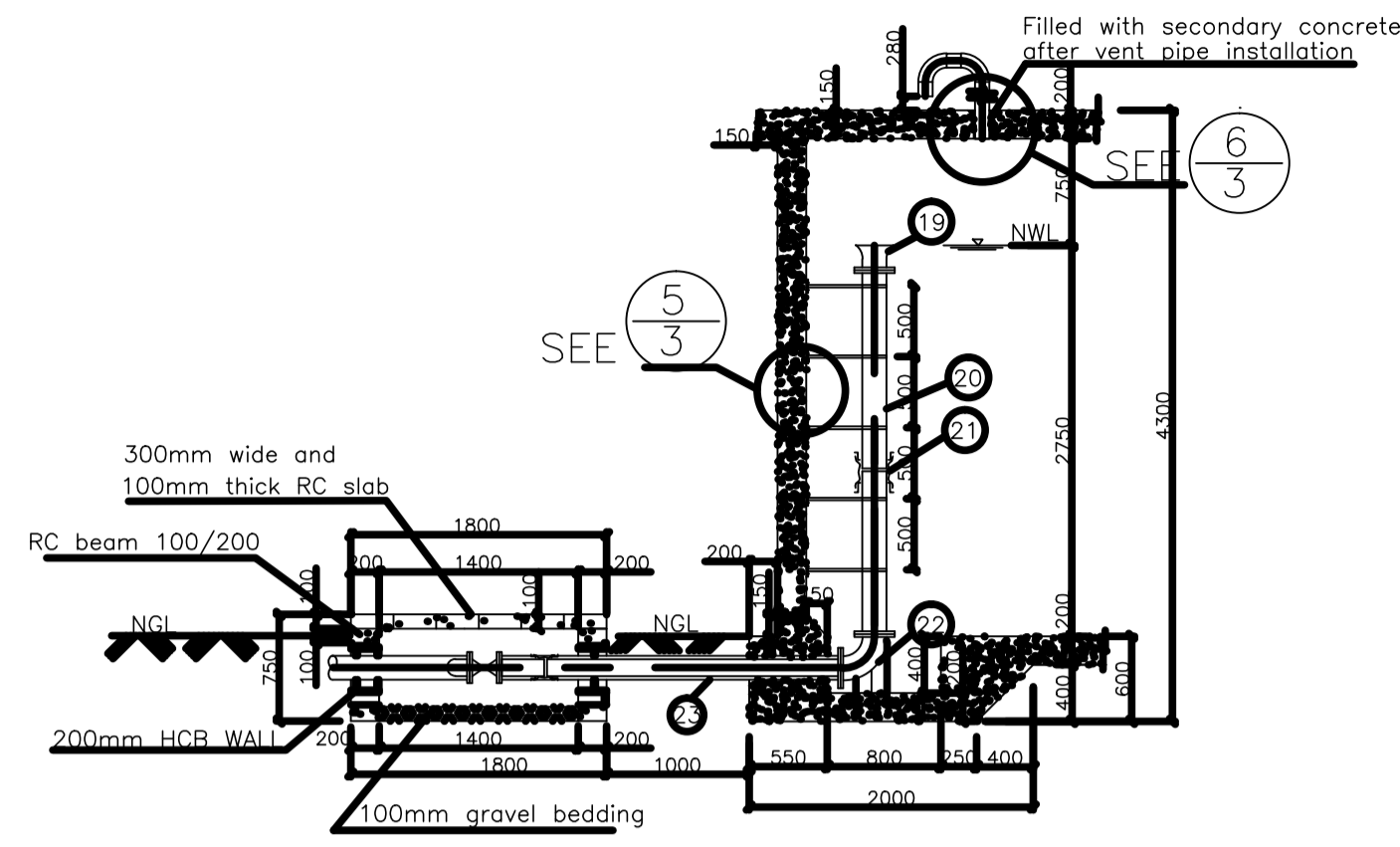
SECTION 2-2  
SCALE 1:25

NOTES:

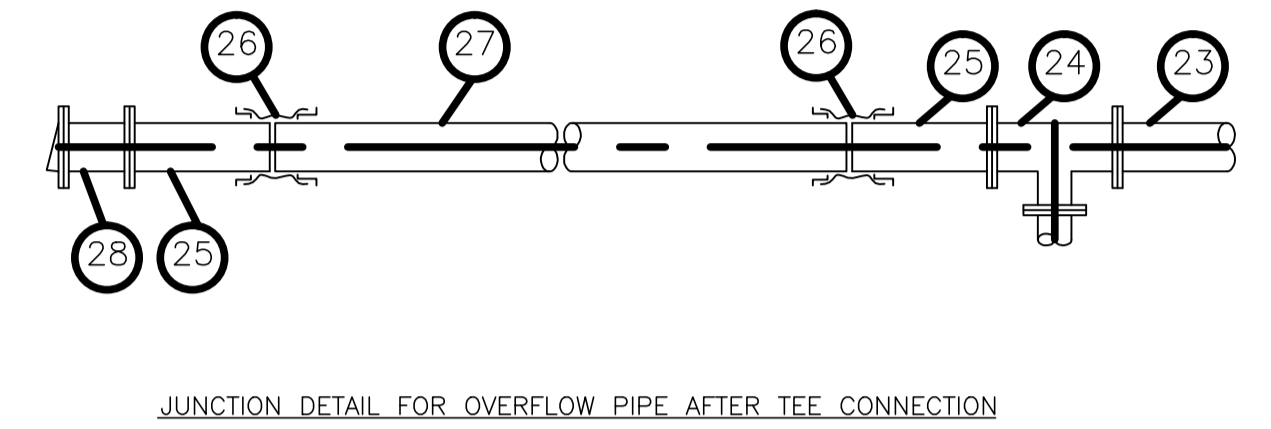
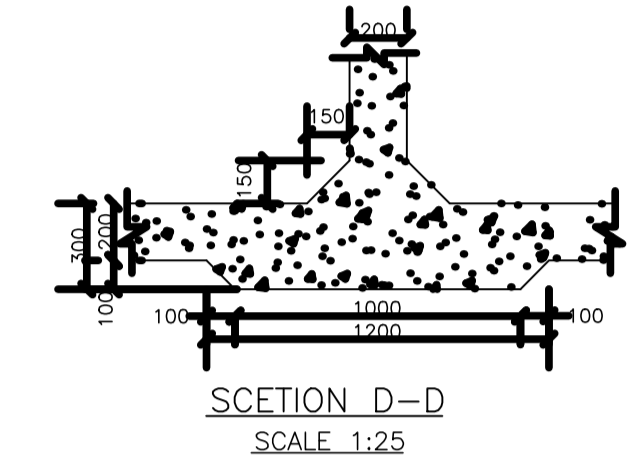
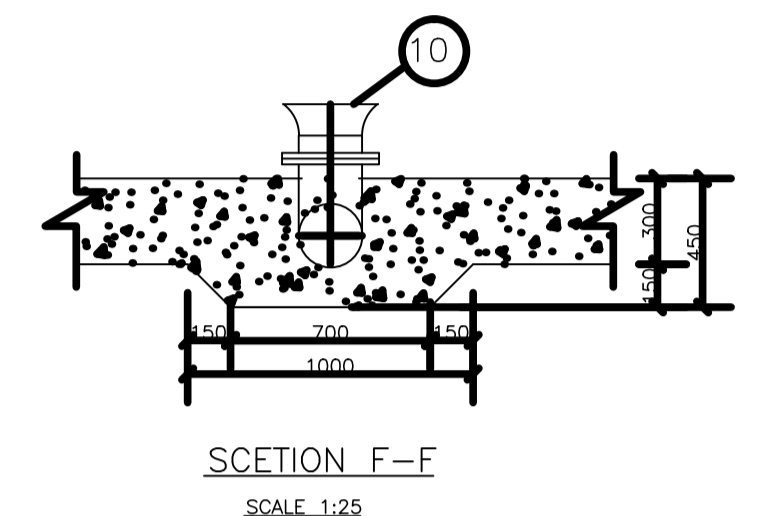
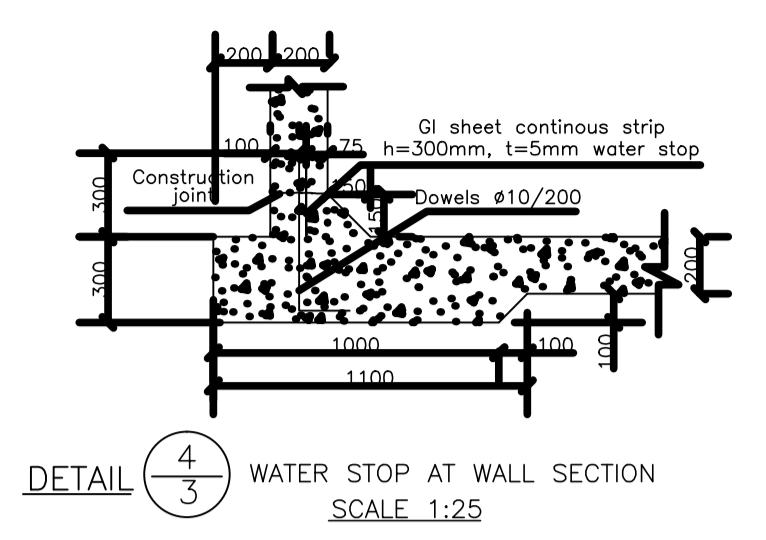
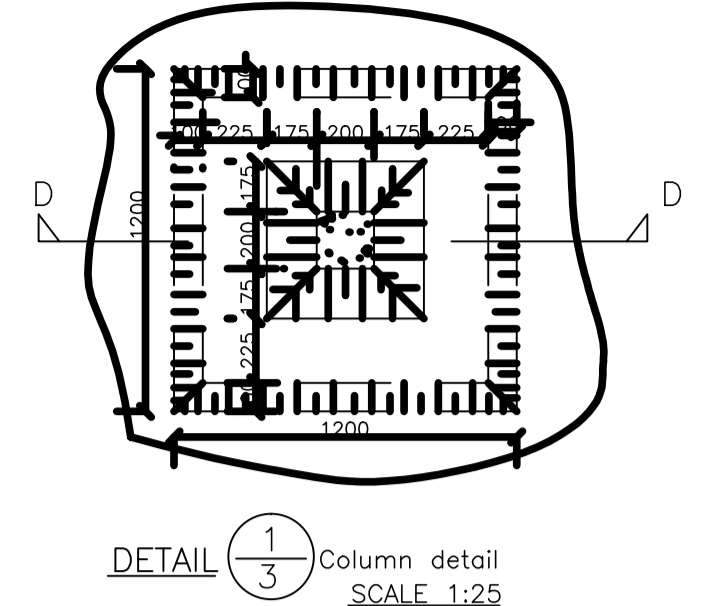
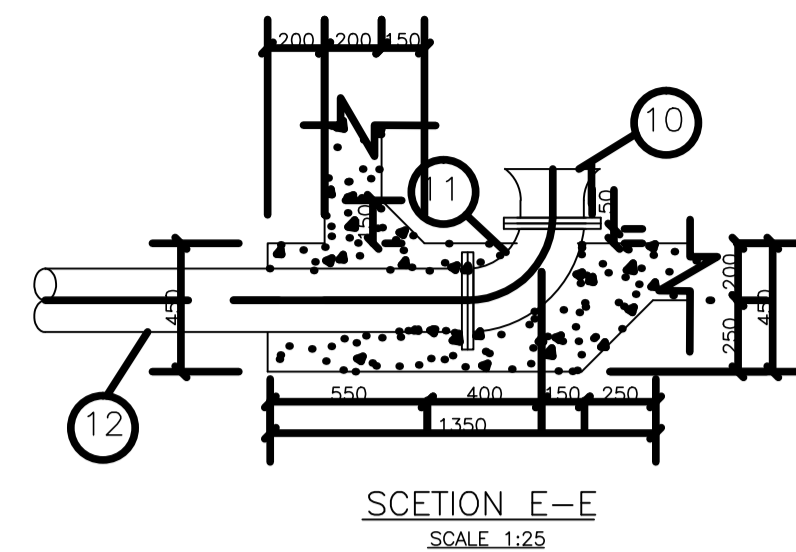
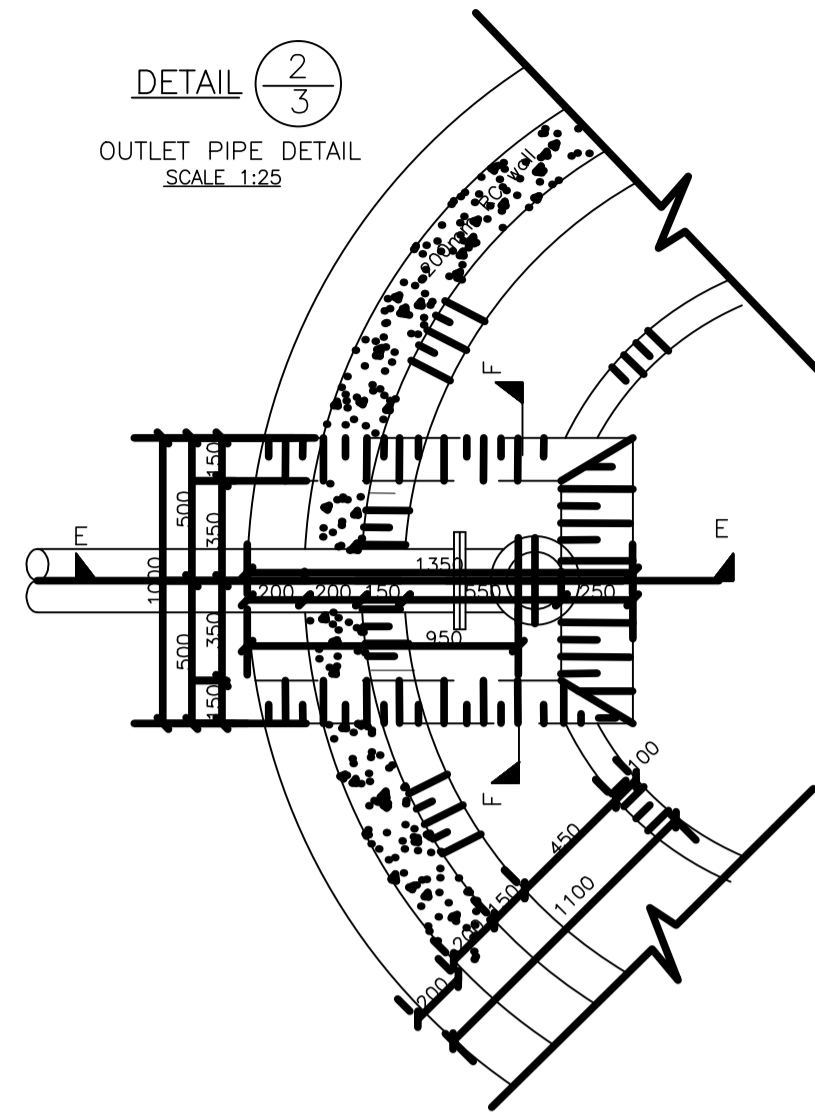
- ALL DIMENSIONS ARE IN mm
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- REINFORCEMENT BARS,  $f_y=300$  (300MPa)
- MINIMUM COVER FOR REINFORCEMENT BARS=40 mm
- BARS CROSSING OPENINGS SHALL BE CUT & ADJUSTED ON SITE OR AS SHOWN ON THE DRAWING
- OVERLAPPING OF REINFORCEMENT BARS:
  - . IN TENSION, MIN. 50\*DIAMETER
  - . IN COMPRESSION, MIN. 30\*DIAMETER
  - . OR AS SHOWN ON THE DRAWING

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			SN FIN
DRAWN BY			03/05
CHECKED BY			
APPROVED BY			

SECTION C-C Drain and overflow details  
SCALE 1:50



DETAIL 2/3  
OUTLET PIPE DETAIL  
SCALE 1:25



SEE 8/3

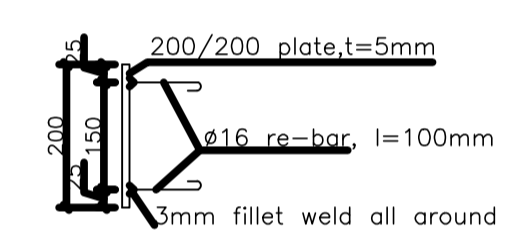
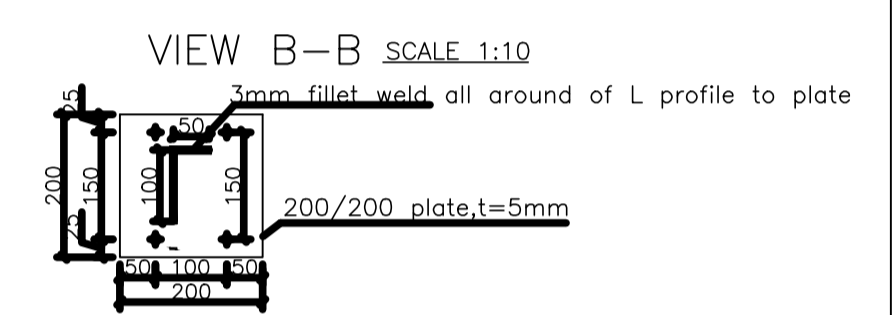
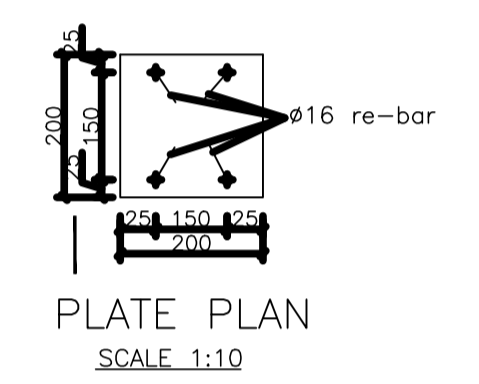
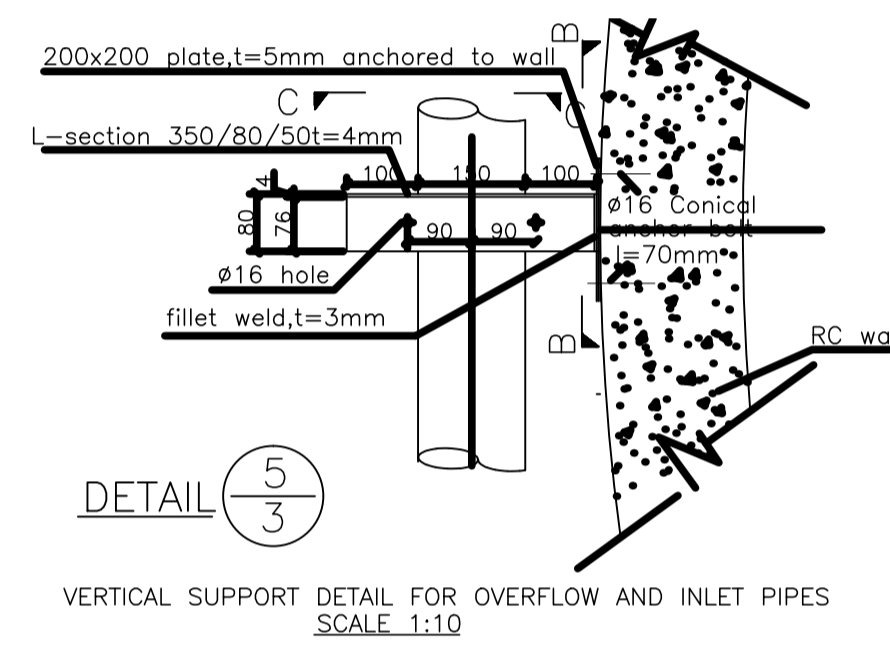
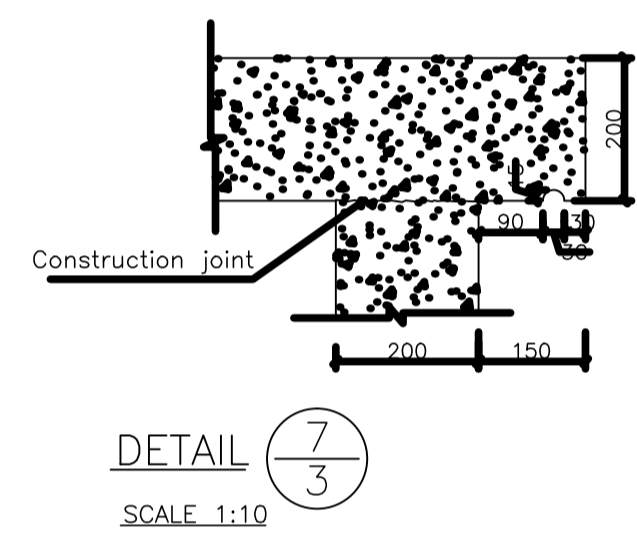
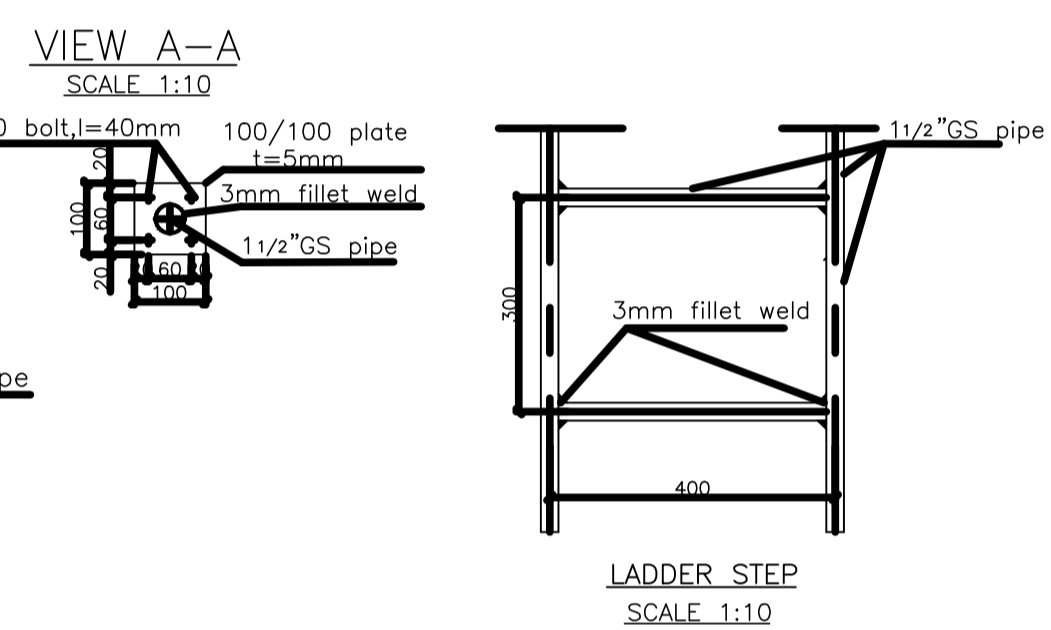
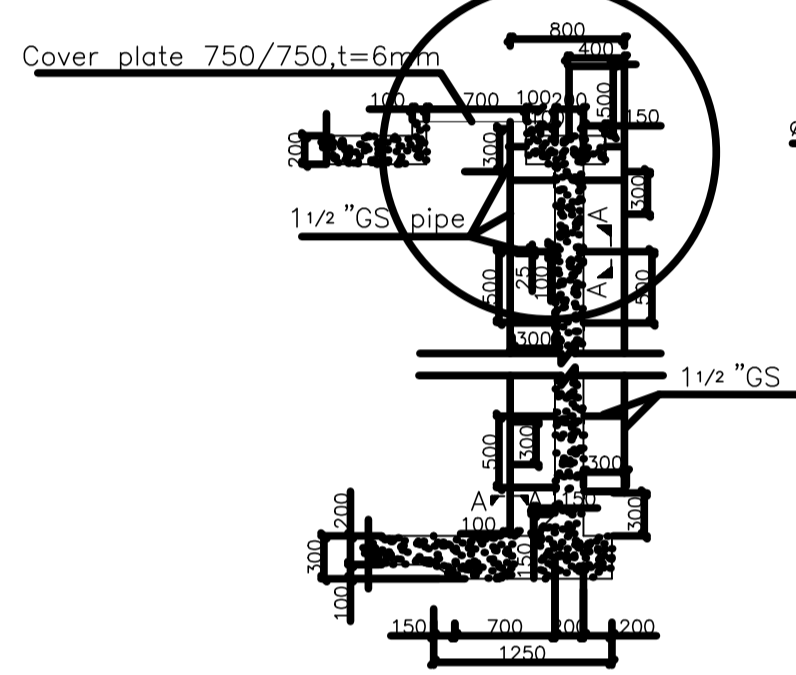
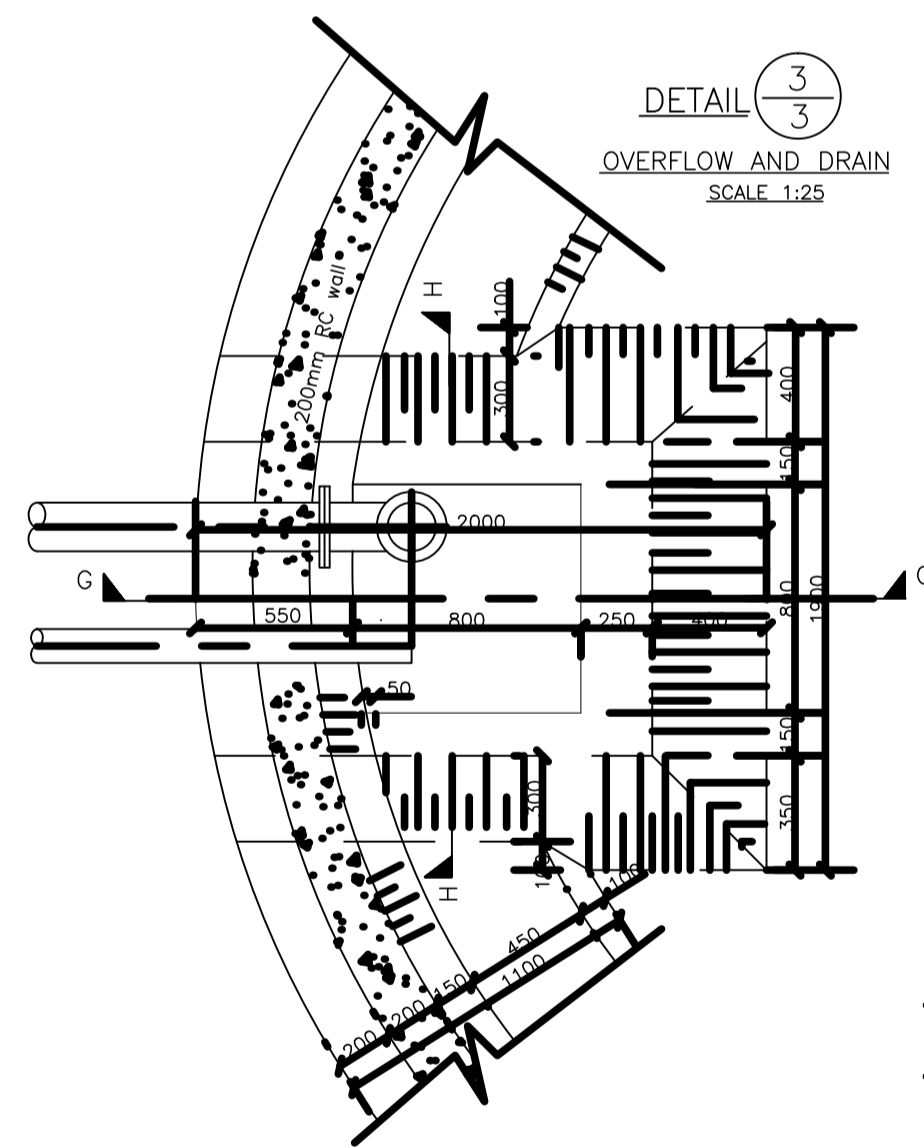


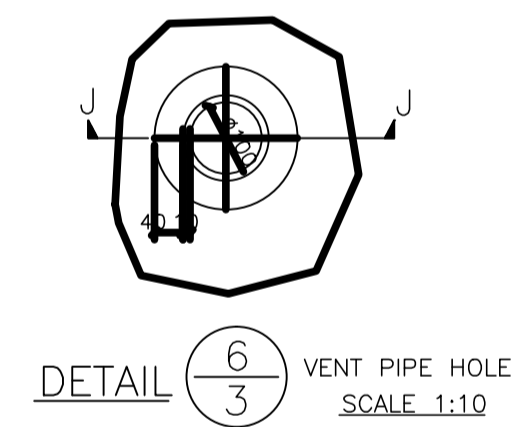
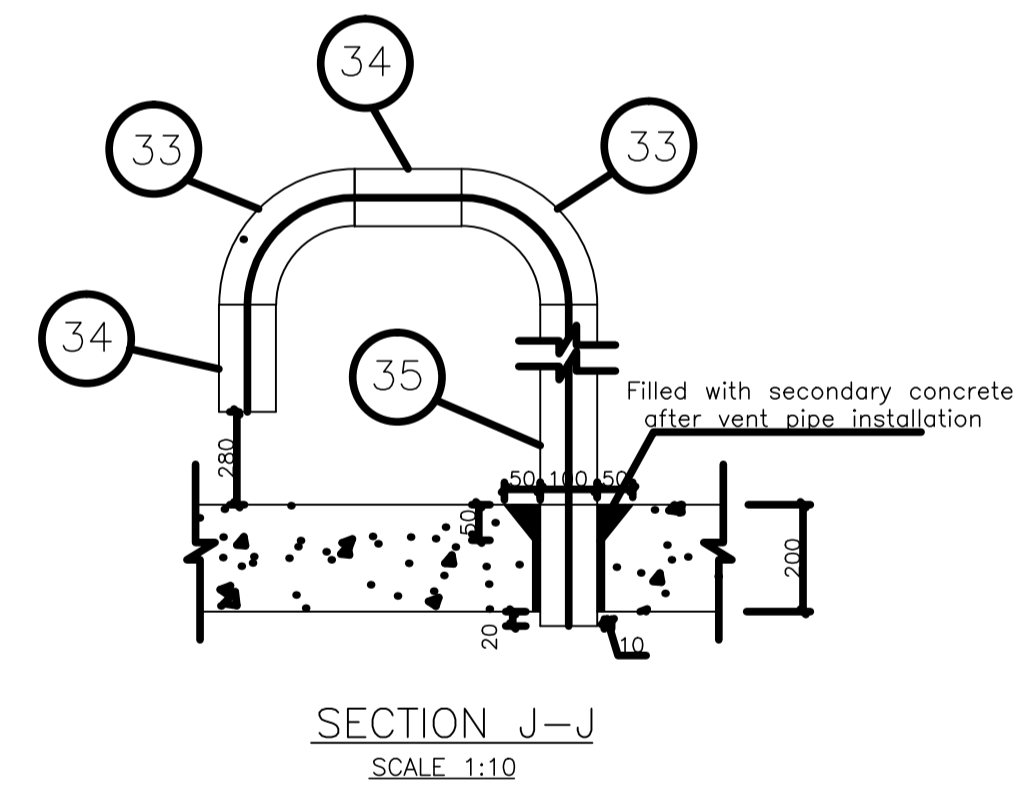
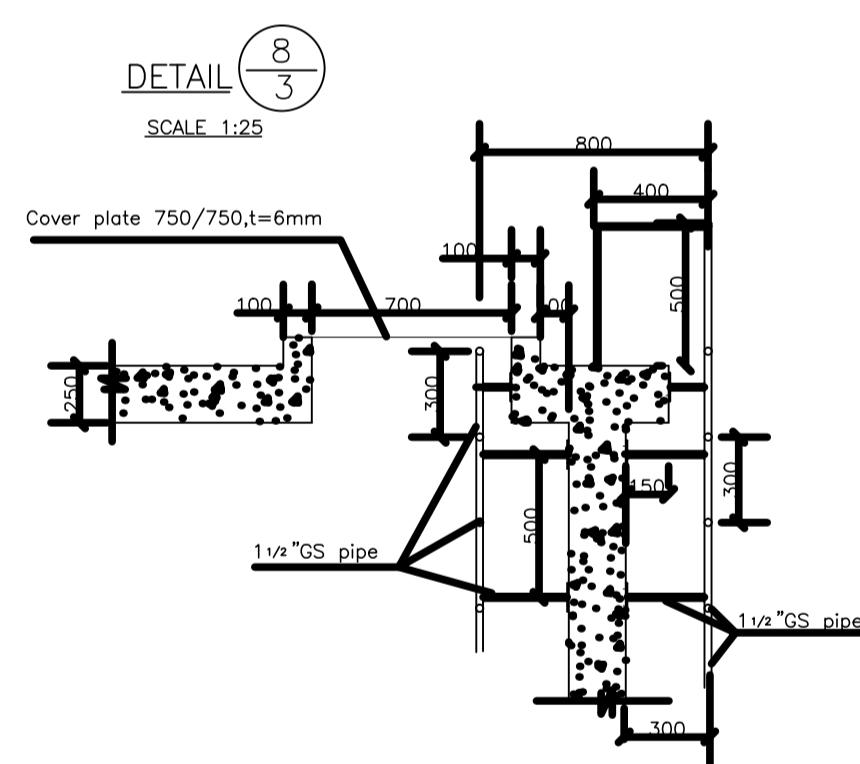
PLATE SECTION  
SCALE 1:10

SECTION B-B LADDER DETAIL SCALE 1:50

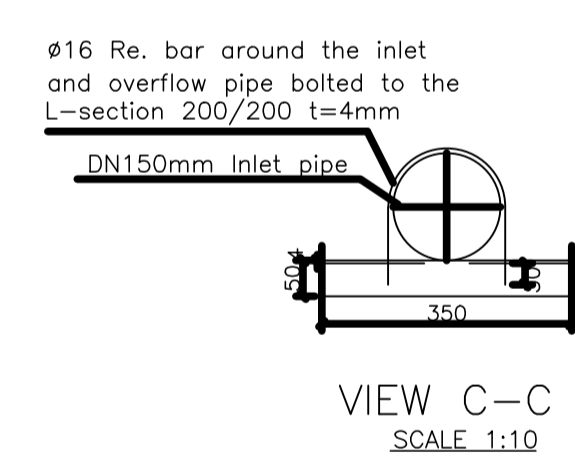
DETAIL 3/3  
OVERFLOW AND DRAIN  
SCALE 1:25



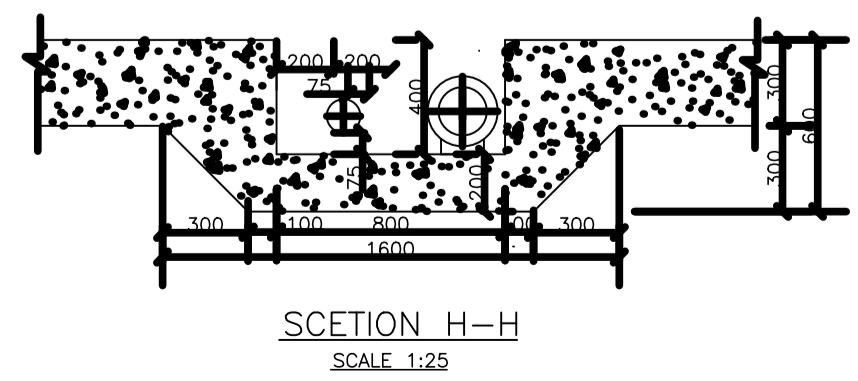
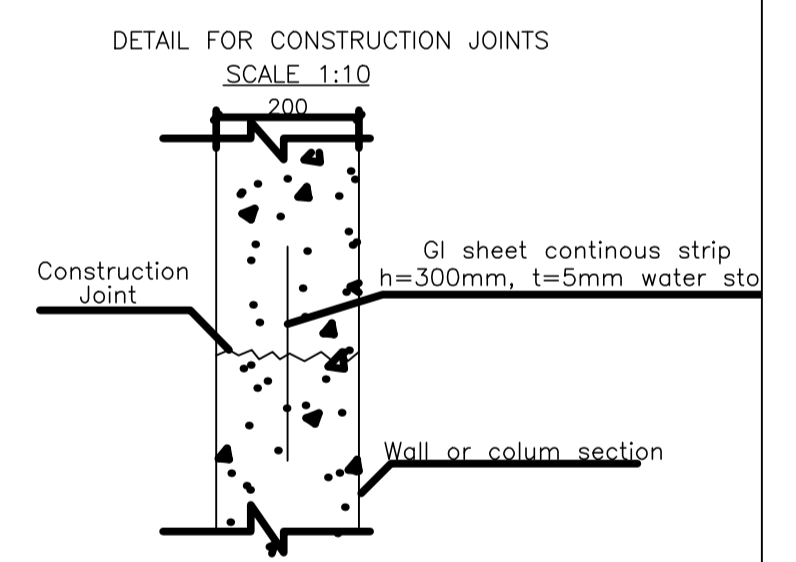
DETAIL 8/3  
SCALE 1:25



SECTION J-J  
SCALE 1:10

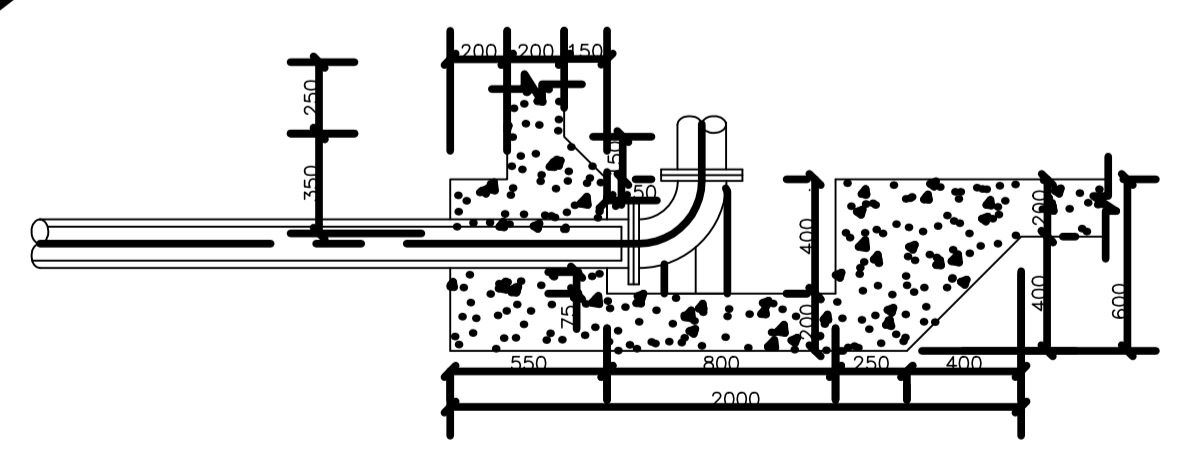


VIEW C-C  
SCALE 1:10



SECTION H-H  
SCALE 1:25

SECTION G-G  
SCALE 1:25



NOTES

- All dimensions are in mm
- Minimum bearing capacity for the foundation soil 100Kn/m2
- 800mm selected granular fill to be used when the foundation material is of poor bearing capacity as determined by the Engineer
- The foundation subgrade shall be compacted to 95% proctor and the granular material fill (if used) shall be compacted to 98% proctor
- Slope of the roof slab to be made by tapping light weight cement screed
- All pipes, flanges, valves and fittings to PN10 unless specified otherwise
- Concrete class is C-30 (30Mpa) and deformed reinforcement bars S=300Mpa
- Minimum cover for the reinforcement bars 40mm

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DESIGNED BY	REG. NO	SIGN	DR NO.
			SN FIN
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APPROVED BY			

BAR SCHEDULE

MEMBER	POSITION No.	SHAPE	DIA. (mm)	RADIUS (mm)	LAP (P) (mm)	LENGTH (mm)	SPACING (mm)	No. OF BARS	TOTAL LEN.(m)
FLOOR SLAB	1	2140	8	-	-	2140	300	156	333.84
	2	3140	8	-	-	3140	250	22	69.08
	3		8	1500	700	12230	250	2	24.46
	4		8	1750	700	13800	250	2	27.60
	5		8	2000	700	15370	250	2	30.74
	6		8	2250	700	16940	250	2	33.88
	7		8	2500	700	18510	250	2	37.02
	8		8	2750	700	20080	250	2	40.16
	9		8	3000	700	21650	250	2	43.30
	10		8	3250	700	23220	250	2	46.44
	11		8	3500	700	24800	250	2	49.60
	12		8	3660	700	25800	250	2	51.60
COLUMN	13		12	-	-	1470	200	116	170.52
	14	2000	8	-	-	2000	200	22	44.00
	15		10	-	-	1700	250	93	158.10
	16		8	-	-	3280	200	7	22.96
	17		8	-	-	3420	200	9	30.78
	18		8	-	-	1100	200	20	22.00
	19		8	-	-	1000	200	15	15.00
	20	1200	8	-	-	1200	200	12	14.40
	21		10	-	-	1930	200	5	9.65
	22		10	-	-	1700	200	7	11.90
	23		12	-	-	1580	200	12	18.96
	55		8	-	-	1400	200	6	8.40
WALL	24		8	-	-	1400	250	4	5.60
	25		14	-	-	1500	-	4	6.00
	26		14	-	-	4000	-	4	16.00
	27		8	-	-	880	200	21	18.48
WALL	28		8	-	-	1400	250	88	123.20
	29		10	-	-	1000	200	108	108.00
	30		12	-	-	1800	200	216	388.80
	31		10	-	-	3270	200	106	346.62
	32		10	-	-	3300	200	110	363.00
	33		10	3340	400	23000	200	19	437.00
	34		14	3460	560	23760	200	6	142.56
	35		12	3460	480	23760	200	5	118.80
	36		10	3460	400	23760	200	8	190.08

MEMBER	POSITION No.	SHAPE	DIA. (mm)	RADIUS (mm)	LAP (P) (mm)	LENGTH (mm)	SPACING (mm)	No. OF BARS	TOTAL LEN.(m)
ROOF SLAB	37		8	-	-	2480	300	154	381.92
	38	3140	8	-	-	3140	250	22	69.08
	39		10	1500	1000	13430	250	2	26.86
	40		10	1750	1000	15000	250	2	30.00
	41		10	2000	1000	16570	250	2	33.14
	42		10	2250	1000	18140	250	2	36.28
	43		10	2500	1000	19710	250	2	39.42
	44		10	2750	1000	21280	250	2	42.56
	45		10	3000	1000	22850	250	2	45.70
	46		10	3250	1000	24420	250	2	48.84
	47		10	3500	1000	26000	250	2	52.00
	48		10	3610	1000	26690	250	2	53.38
	49	2400	10	-	-	2400	150	34	81.60
	50	500	8	-	-	500	-	2*4	4.00
	51	1750	16	-	-	1750	-	2*4	14.00
	52	1400	16	-	-	1400	-	2*4	11.20
	53		16	-	-	500	250	16	8.00
	54	780	16	-	-	780	-	8	6.24

SUMMARY OF BAR SCHEDULE FOR 150M3 RESERVOIR  
(INCLUDES ADDITIONAL 5% CONTINGENCY)

DIAMETER (mm)	ø8	ø10	ø12	ø14	ø16
TOTAL LENGTH (m)	1632	2220	732	180	48
TOTAL WEIGHT (Kg)	643	1370	650	218	76

NOTES:

- ALL DIMENSIONS ARE IN mm
- CONCRETE CLASS C-30 (30MPA)
- REINFORCEMENT BARS,  $f_y=300$  (300MPA)
- MINIMUM COVER FOR REINFORCEMENT BARS=40 mm
- BARS CROSSING OPENINGS SHALL BE CUT & ADJUSTED ON SITE OR AS SHOWN ON THE DRAWING
- OVERLAPPING OF REINFORCEMENT BARS:
  - . IN TENSION, MIN. 50\*DIAMETER
  - . IN COMPRESSION, MIN. 30\*DIAMETER
  - . OR AS SHOWN ON THE DRAWING

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CHECKED BY			
APPROVED BY			