

YW REF X-X-XXX-XXX

Inlet - 675mm Ø Pipe (Installed by Others) IL = 211.355
Inlet - 750mm Ø Pipe (Installed by Others) IL = 212.237

Estimated Storage Volume 4948m³
(provided tank reaches maximum capacity)

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GENERAL NOTES
Drawings and Specifications: This drawing to be read in conjunction with all relevant architects, engineers and specialist drawings together with the specification
All dimensions in millimeters
All levels in meters AOD Unless Noted Otherwise
Do not scale off drawings, use figured dimensions only.

All adoptable sewer works and material to be in accordance with Sewerage Sector Guidance "Design and Construction Guidance" (Code for Adoption), the Relevant British/ European Standards/ Requirements/ Addendum to the Mechanical and Electrical Specification and Kitemarked.

Safety Chain and Guardrail Required where Outfall Pipe is 600Ø or Greater

Curing of Base Slab:
Curing agent to be applied immediately upon disappearance of surface water.

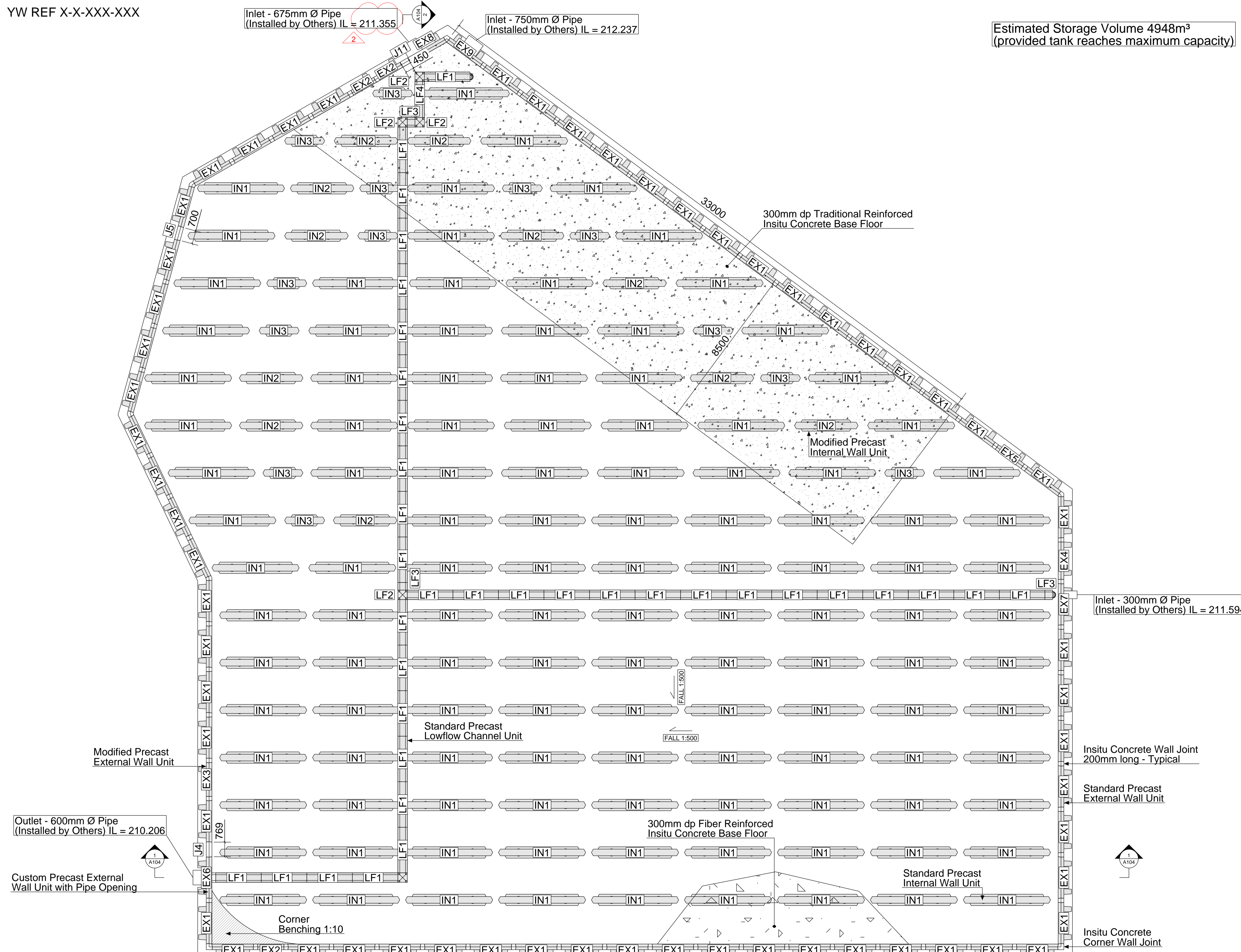
All Setting Out of Precast Units is by Centre to Centre.

Placement & Cast of Inlet / Outlet Pipes by Others

FOR APPROVAL

MINIMUM LIVE LOADING = 10kN/m²
Under Access Road: 38 Tonne, 5 axle articulated - designation 5A-H (Table NA5 from NA to BS EN 1991-2:2003)

Surface Finishes	
Internal	Fair
External	Fair
Base Slab Surface	Wood Float
Roof Screed Surface	Wood Float
All Surface Finish References Are to CESWI 7th Edition	



1 BASE PLAN
1:100

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FOR APPROVAL

⊗ Denotes Structural Slab Level
⊙ Denotes Lowflow Channel Level

PRECAST SCHEDULE

TYPE	QUANTITY	DESCRIPTION	VOLUME (m³)	TOTAL VOLUME (m³)	WEIGHT (T)	TOTAL WEIGHT (T)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
EX1	60	Standard Precast External Wall Unit	2.31	138.89	5.91	354.42	2200	1100	3550
EX2	3	Modified Precast External Wall Unit	1.47	4.41	3.75	11.25	1394	1100	3550
EX3	1	Modified Precast External Wall Unit	1.89	1.89	4.81	4.81	1800	1100	3550
EX4	1	Modified Precast External Wall Unit	2.11	2.11	5.38	5.38	1986	1100	3550
EX5	1	Modified Precast External Wall Unit	1.80	1.80	4.58	4.58	1711	1100	3550
EX6	1	Custom Precast External Wall Unit with Outlet	2.04	2.04	5.22	5.22	2200	1100	3550
EX7	1	Custom Precast External Wall Unit with Inlet	2.20	2.20	5.61	5.61	2200	1100	3550
EX8	1	Custom Precast External Wall Unit with Inlet	1.97	1.97	5.03	5.03	2200	1100	3550
EX9	1	Custom Precast External Wall Unit with Inlet	1.88	1.88	4.81	4.81	2200	1100	3550
IN1	120	Standard Precast Internal Wall Unit	1.94	232.92	4.95	593.96	4600	600	3000
IN2	11	Modified Precast Internal Wall Unit	1.38	15.23	3.53	38.84	3355	600	3000
IN3	13	Modified Precast Internal Wall Unit	0.84	10.94	2.15	27.89	2115	600	3000
LF1	35	Standard Lowflow Channel 400mm Unit	0.33	11.65	0.87	30.29	2400	500	400
LF2	5	Standard Lowflow Channel Junction Box	0.06	0.31	0.16	0.80	500	500	400
LF3	3	Modified Lowflow Channel 400mm Unit	0.05	0.16	0.14	0.41	400	500	400
LF4	1	Modified Lowflow Channel 400mm Unit	0.27	0.27	0.69	0.69	1900	500	400
TOTAL No. UNITS	258			VOLUME (m³): 428.66		WEIGHT (T): 1094.0			

IN-SITU SCHEDULE

TYPE	QUANTITY	DESCRIPTION	VOLUME (m³)	TOTAL VOLUME (m³)	WEIGHT (T)	TOTAL WEIGHT (T)
BS1	1	Base Slab	508.85	508.85	1323.01	1323.01
J1	54	Wall Joint	0.23	12.50	0.60	32.50
J2	2	Corner Joint	0.34	0.68	0.88	1.77
J3	6	Wall Joint	0.22	1.35	0.58	3.50
J4	1	Wall Joint	0.82	0.82	2.12	2.12
J5	1	Wall Joint	0.75	0.75	1.94	1.94
J6	1	Corner Joint	0.23	0.23	0.60	0.60
J7	1	Corner Joint	0.21	0.21	0.55	0.55
J8	1	Corner Joint	0.27	0.27	0.71	0.71
J9	1	Corner Joint	0.25	0.25	0.66	0.66
J10	1	Corner Joint	0.22	0.22	0.57	0.57
J11	1	Wall Joint	0.49	0.49	1.27	1.27
LP1	1	Setting Out Pad	19.80	19.80	51.49	51.49
LP2	1	Setting Out Pad	6.09	6.09	15.83	15.83
LP3	1	Setting Out Pad	3.69	3.69	9.60	9.60
PB1	1	Pipe Box Infill	0.08	0.08	0.20	0.20
PB2	1	Pipe Box Infill	0.15	0.15	0.38	0.38
PB3	1	Pipe Box Infill	0.20	0.20	0.53	0.53
PB5	1	Pipe Box Infill	0.23	0.23	0.59	0.59
RSC1	1	Roof Screenshot	234.12	234.12	608.71	608.71
TOTAL No. UNITS	79			VOLUME (m³): 790.97		WEIGHT (T): 2056.5

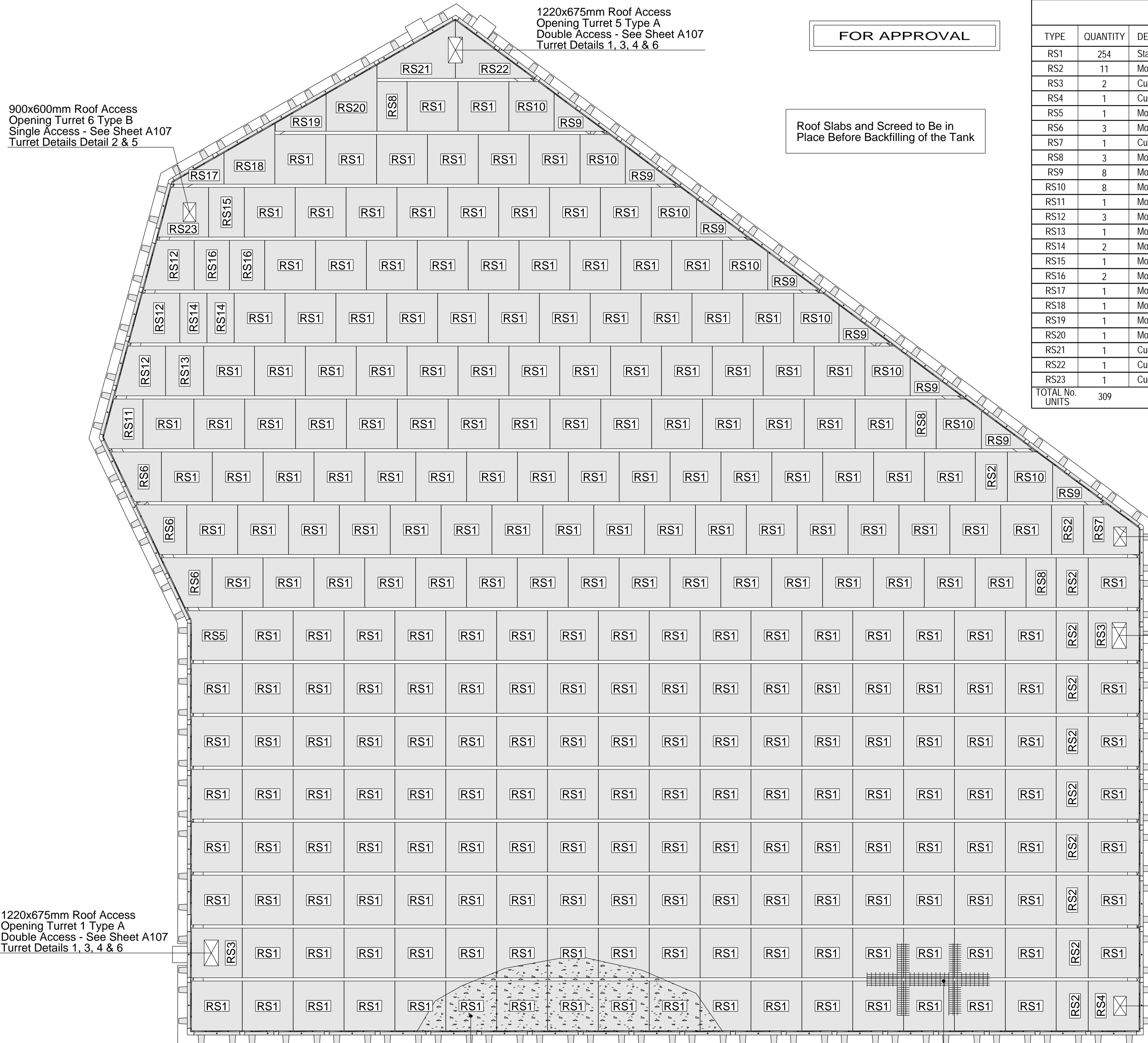
Design Assumptions

	Base Slab	Pads	Wall Joints / Roof Screenshot
Design Chemical Class	DC-1	DC-1	DC-1
Exposure Classification	XC4 /XD1	XC4/ XD1	XC3 /XD1
Design Life	50 Years	50 Years	50 Years
Concrete Grade	C32/40	C32/40	C32/40
Cement Type	CEM IIIA*	CEM IIIA*	CEM IIIA*
Min Cement Content	360kg/m³	360kg/m³	380kg/m³
Max W/C Ratio	0.45	0.45	0.45
Max Aggregate Size	20mm	20mm	10mm
Aggregate Type	Limestone	Limestone	Limestone
Required Slump	S4	S3	S4
Fibre Dosage	2kg/m³	N/A	N/A
Fibre Type	Fibrofor Diamond	N/A	N/A

Notes: * = Unless otherwise agreed with supplier

1 BASE PLAN
1:100

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1220x675mm Roof Access
Opening Turret 5 Type A
Double Access - See Sheet A107
Turret Details 1, 3, 4 & 6

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Roof Slabs and Screed to Be in
Place Before Backfilling of the Tank

900x600mm Roof Access
Opening Turret 6 Type B
Single Access - See Sheet A107
Turret Details Detail 2 & 5

900x600mm Roof Access
Opening Turret 4 Type B
Single Access - See Sheet A107
Turret Details Detail 2 & 5

1220x675mm Roof Access
Opening Turret 3 Type A
Double Access - See Sheet A107
Turret Details 1, 3, 4 & 6

1220x675mm Roof Access
Opening Turret 1 Type A
Double Access - See Sheet A107
Turret Details 1, 3, 4 & 6

900x600mm Roof Access
Opening Turret 2 Type B
Single Access - See Sheet A107
Turret Details Detail 2 & 5

ROOF 125mm Insitu Steel Mesh
Reinforced Structural Screed on
125mm deep Concrete Roof Slabs

1 ROOF PLAN
1:100

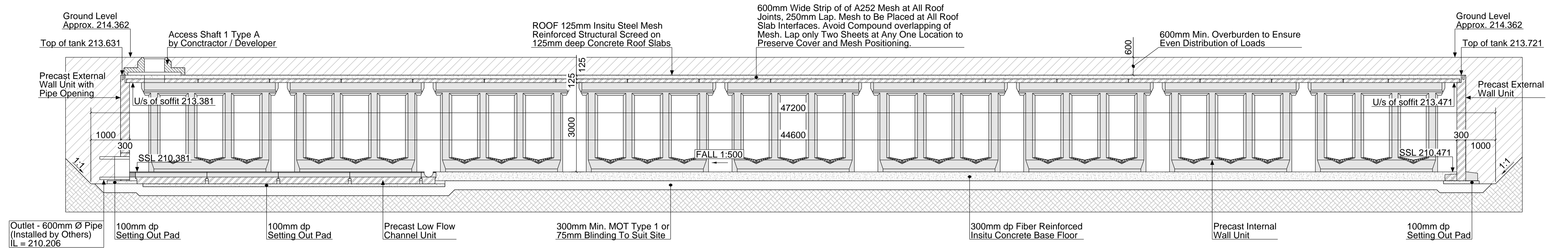
600mm Wide Strip of of A252 Mesh at All Roof Joints, 250mm Lap. Mesh to Be
Placed at All Roof Slab Interfaces. Avoid Compound overlapping of Mesh. Lap
only Two Sheets at Any One Location to Preserve Cover and Mesh Positioning.

ROOF SLAB SCHEDULE

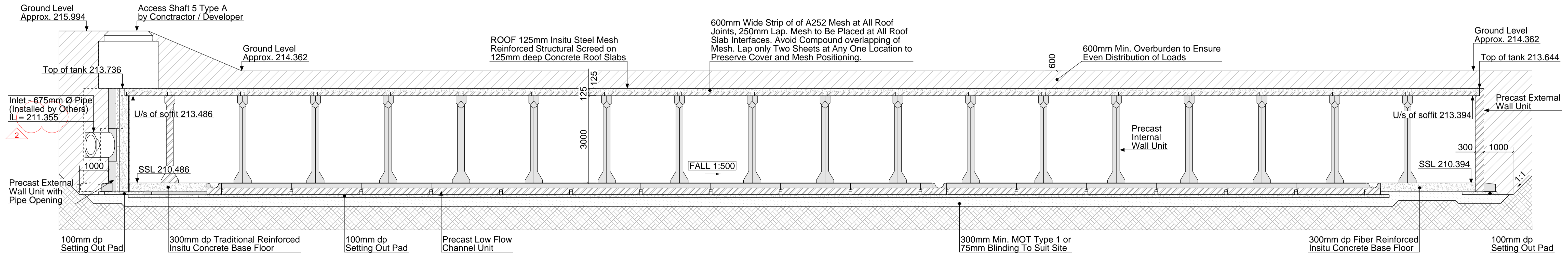
TYPE	QUANTITY	DESCRIPTION	VOLUME (m³)	TOTAL VOLUME (m³)	WEIGHT (T)	TOTAL WEIGHT (T)	DEPTH (mm)	WIDTH (mm)	LENGTH (mm)
RS1	254	Standard Precast Roof Slab Unit	0.71	179.15	1.83	465.58	166	2400	2350
RS2	11	Modified Precast Roof Slab Unit	0.44	4.88	1.15	12.69	166	1510	2350
RS3	2	Custom Precast Roof Slab Unit with Access Opening	0.60	1.20	1.57	3.13	166	2400	2350
RS4	1	Custom Precast Roof Slab Unit with Access Opening	0.64	0.64	1.66	1.66	166	2400	2350
RS5	1	Modified Precast Roof Slab Unit	0.71	0.71	1.85	1.85	166	2627	2350
RS6	3	Modified Precast Roof Slab Unit	0.54	1.62	1.40	4.21	125	2400	2350
RS7	1	Custom Precast Roof Slab Unit with Access Opening	0.60	0.60	1.56	1.56	125	2620	2350
RS8	3	Modified Precast Roof Slab Unit	0.42	1.25	1.08	3.25	125	1420	2350
RS9	8	Modified Precast Roof Slab Unit	0.27	2.14	0.69	5.56	125	2400	1782
RS10	8	Modified Precast Roof Slab Unit	0.60	4.80	1.56	12.49	125	2135	2350
RS11	1	Modified Precast Roof Slab Unit	0.48	0.48	1.26	1.26	125	1862	2350
RS12	3	Modified Precast Roof Slab Unit	0.61	1.84	1.59	4.77	125	2400	2350
RS13	1	Modified Precast Roof Slab Unit	0.53	0.53	1.37	1.37	125	1795	2350
RS14	2	Modified Precast Roof Slab Unit	0.38	0.75	0.98	1.96	125	1280	2350
RS15	1	Modified Precast Roof Slab Unit	0.49	0.49	1.29	1.29	125	1685	2350
RS16	2	Modified Precast Roof Slab Unit	0.49	0.98	1.27	2.54	125	1660	2350
RS17	1	Modified Precast Roof Slab Unit	0.24	0.24	0.62	0.62	125	2400	1479
RS18	1	Modified Precast Roof Slab Unit	0.65	0.65	1.69	1.69	125	2400	2857
RS19	1	Modified Precast Roof Slab Unit	0.32	0.32	0.82	0.82	125	2400	1744
RS20	1	Modified Precast Roof Slab Unit	0.73	0.73	1.90	1.90	125	2400	3122
RS21	1	Custom Precast Roof Slab Unit with Access Opening	0.73	0.73	1.90	1.90	125	3700	2747
RS22	1	Custom Precast Roof Slab Unit with Access Opening	0.58	0.58	1.52	1.52	125	3700	2747
RS23	1	Custom Precast Roof Slab Unit with Access Opening	0.54	0.54	1.42	1.42	125	2400	2350
TOTAL No. UNITS	309		VOLUME (m³):	205.86	WEIGHT (T):	535.0			

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Roof Slabs and Screed to Be in Place Before Backfilling of the Tank



1 SECTION 1 - 1
1:65

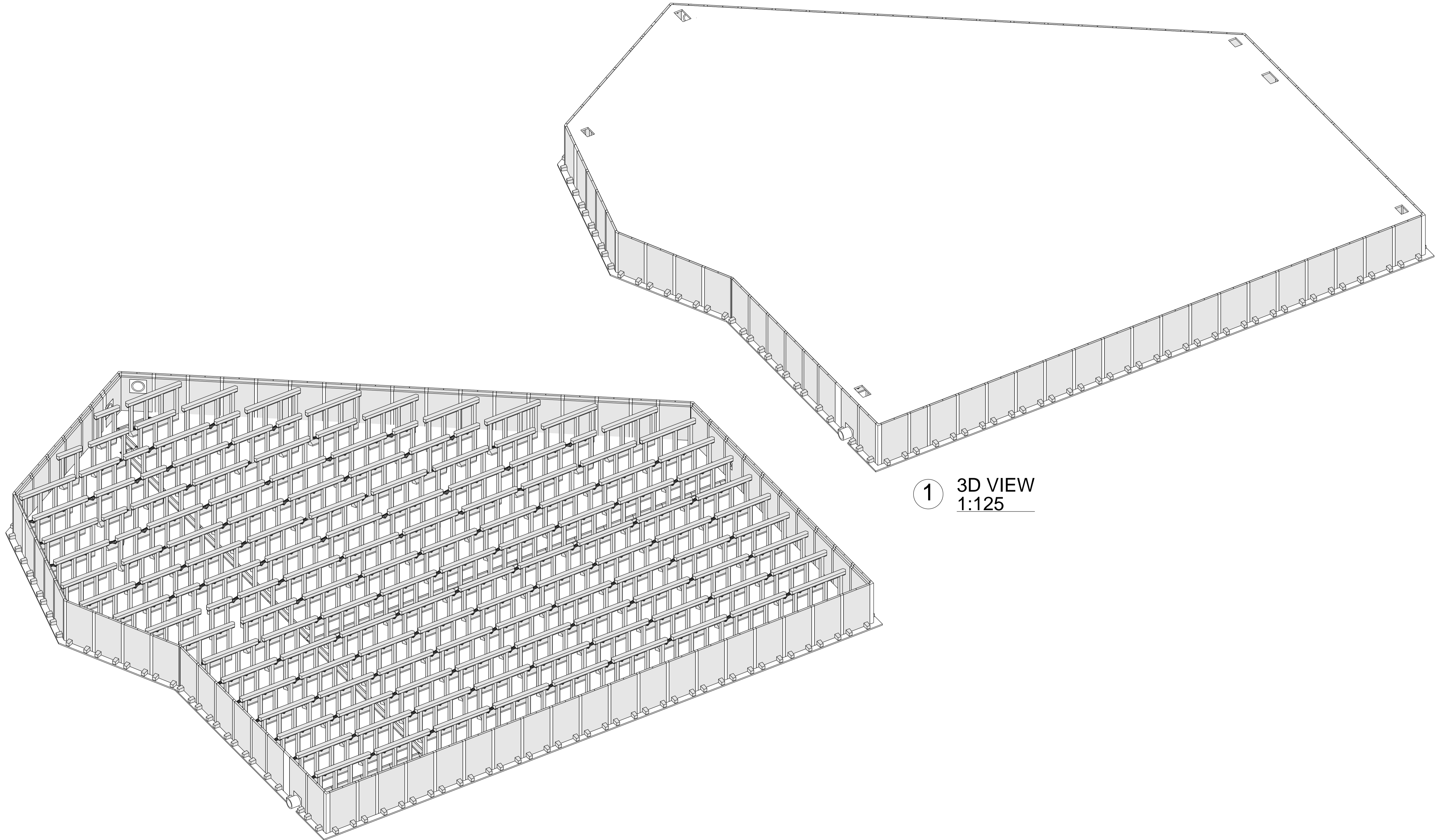


2 SECTION 2 - 2
1:65

FOR APPROVAL

Drawn By:	REV	DATE	DRAWN	CHKD	COMMENT	Scale @ A1: AS SHOWN
Date: 30.06.2025						
SEF No: SATUK29059	1	30.06.2025	RB	LOC	Issued For Approval	
Drg. No: A105	2	30.09.2025	RB	LOC	Inlet IL revised	

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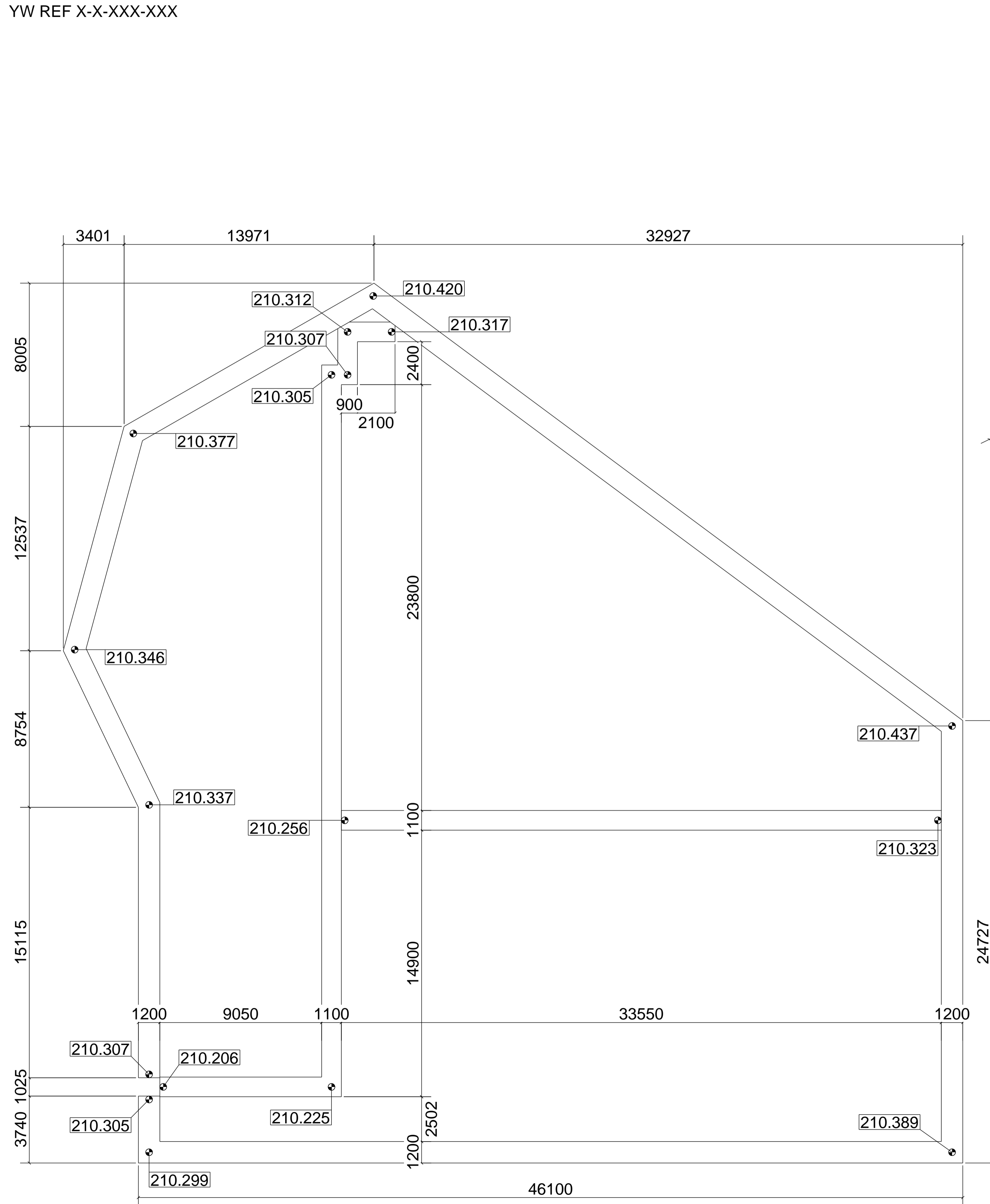
1 3D VIEW
1:125

2 3D VIEW
1:125

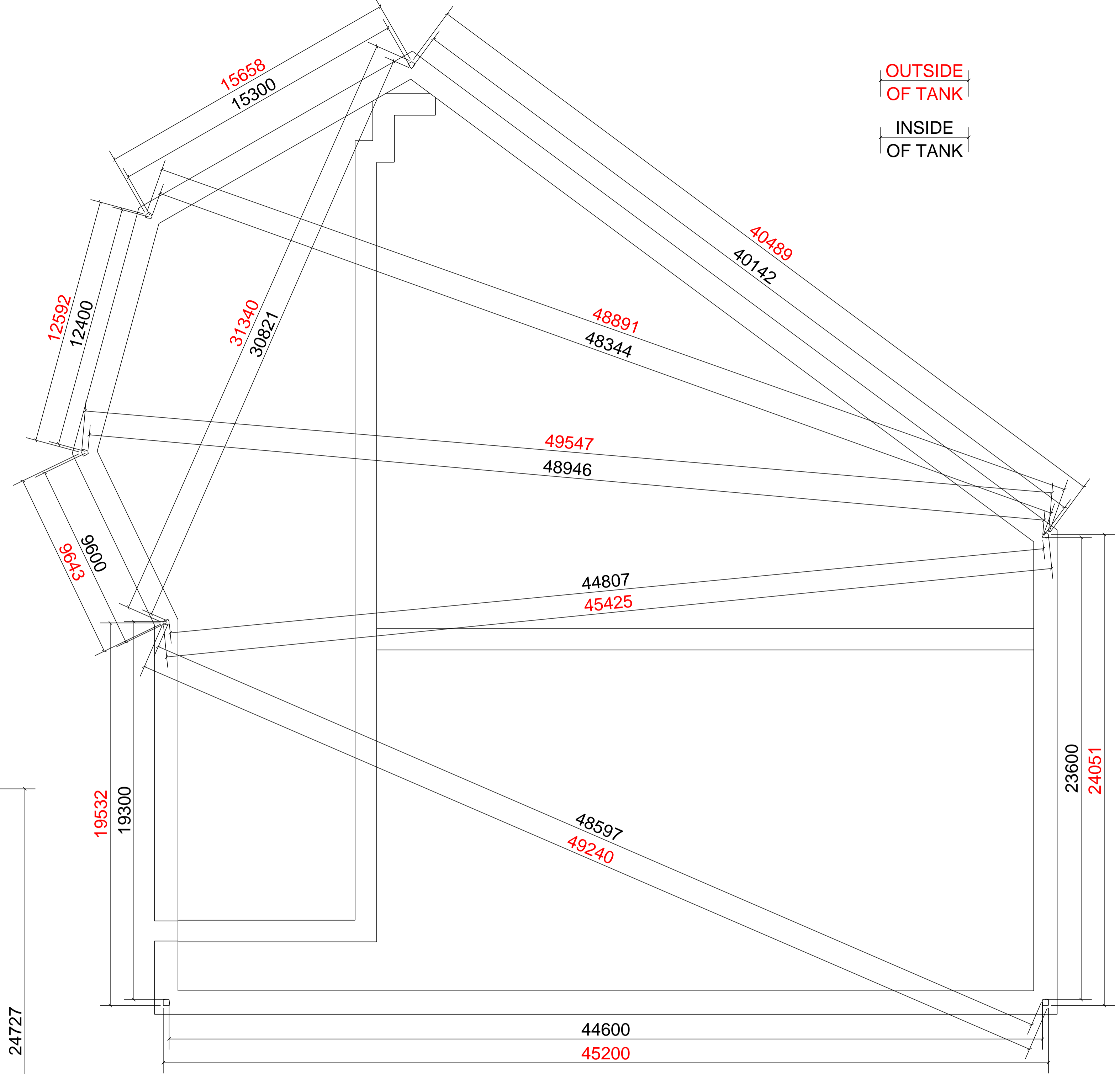
FOR APPROVAL

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Drg. No: A106	2	30.09.2025	RB	LOC	Inlet IL revised	

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2 Pad Layout 1:135

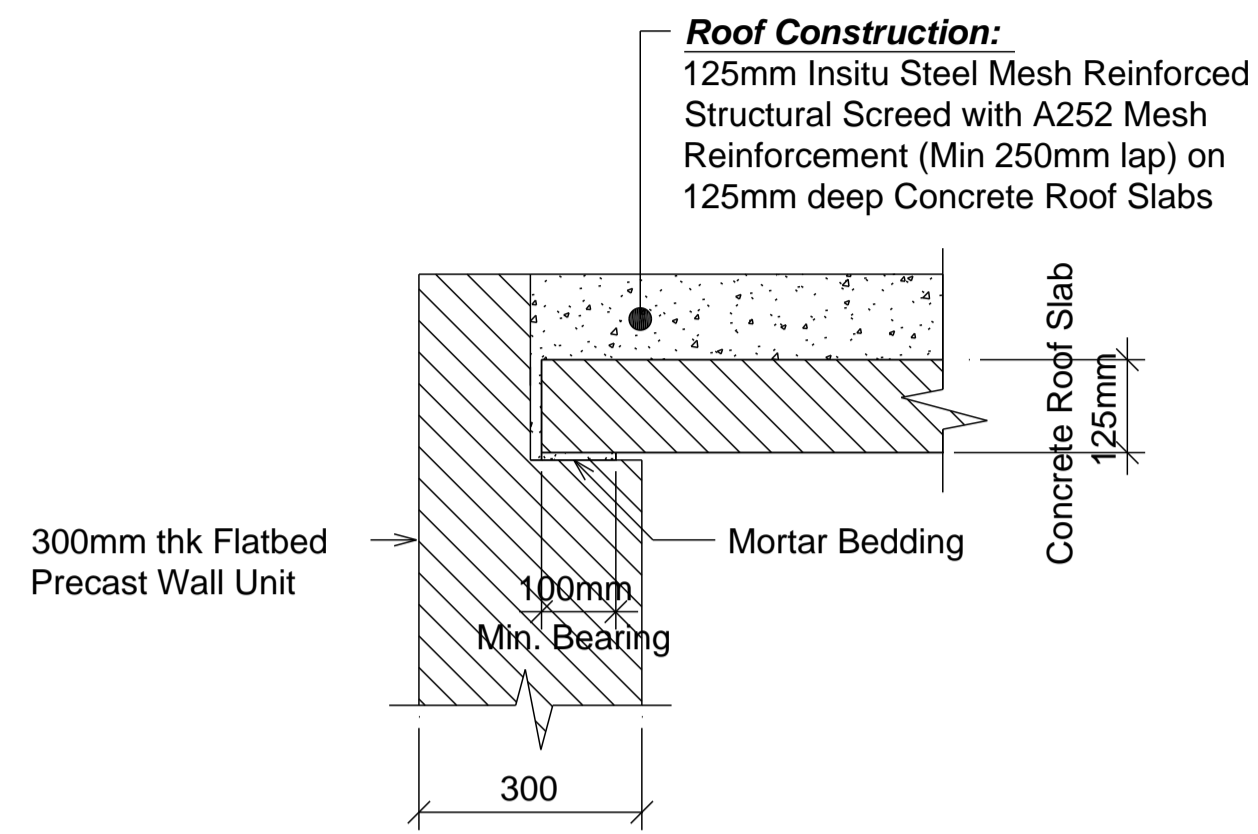


1 Setting Out Layout 1:135

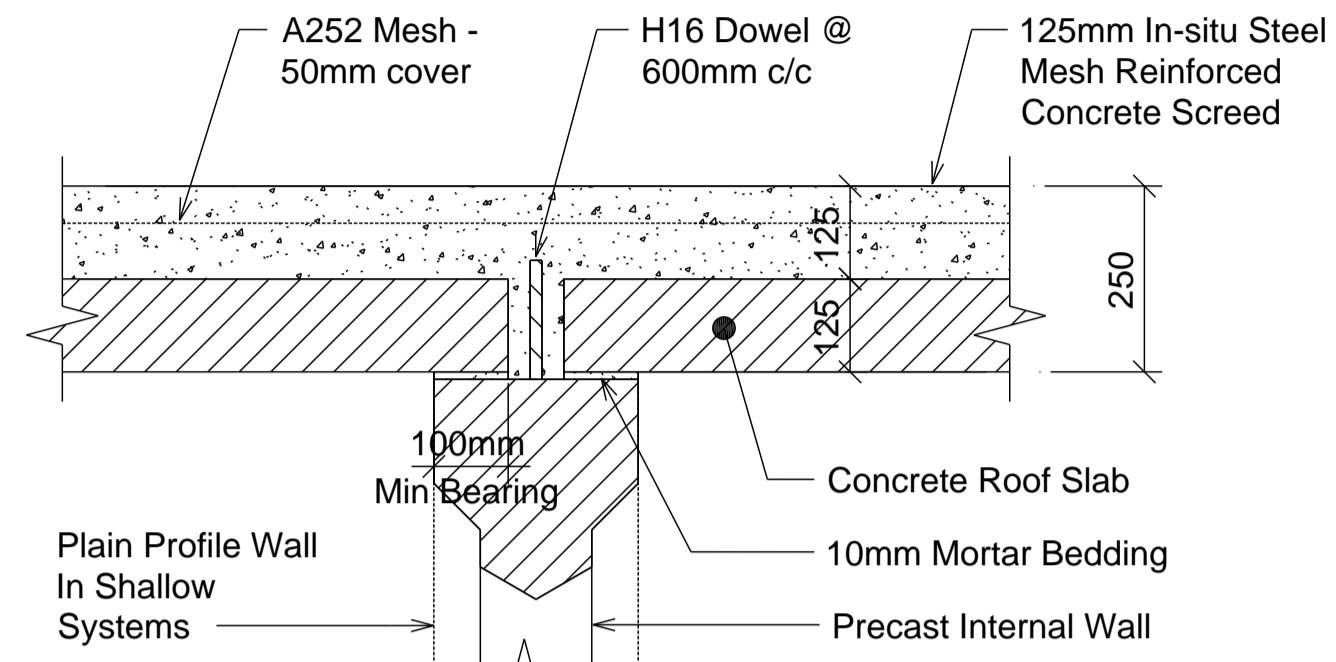
FOR APPROVAL

Drawn By: RB	REV	DATE	DRAWN	CHKD	COMMENT
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Drg. No: A107	2	30.09.2025	RB	LOC	Inlet IL revised

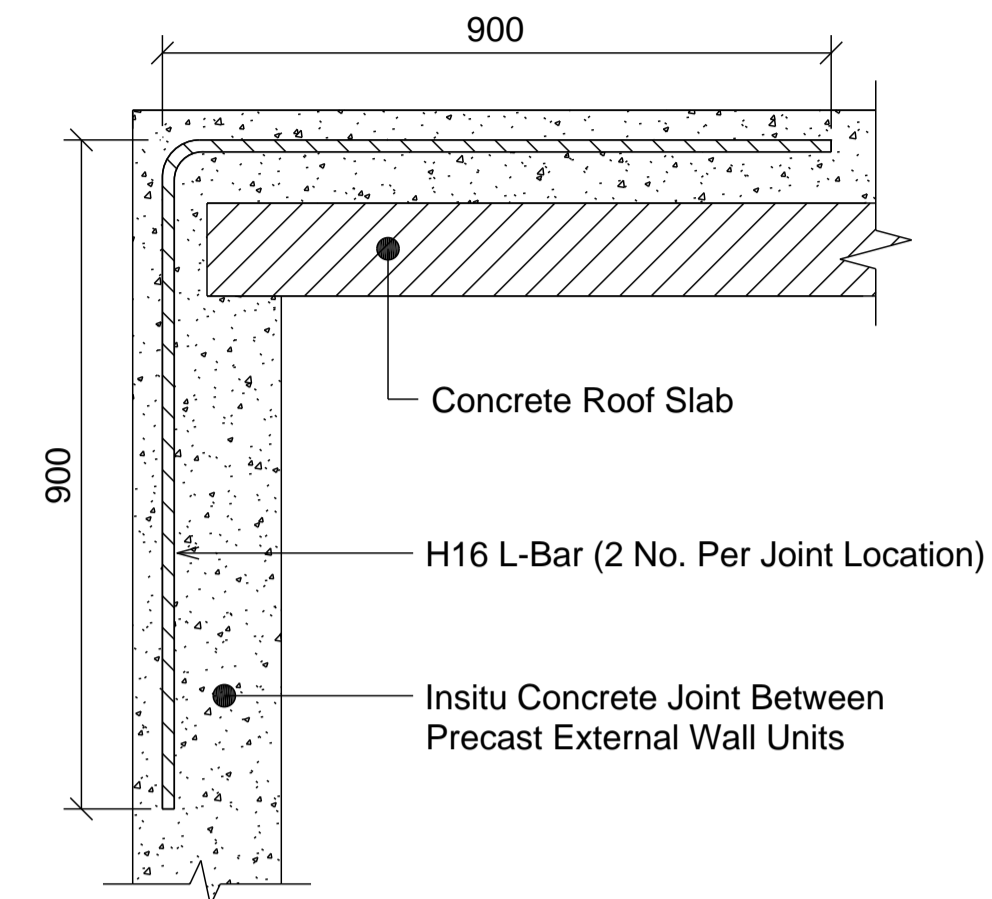
YW REF X-X-XXX-XXX



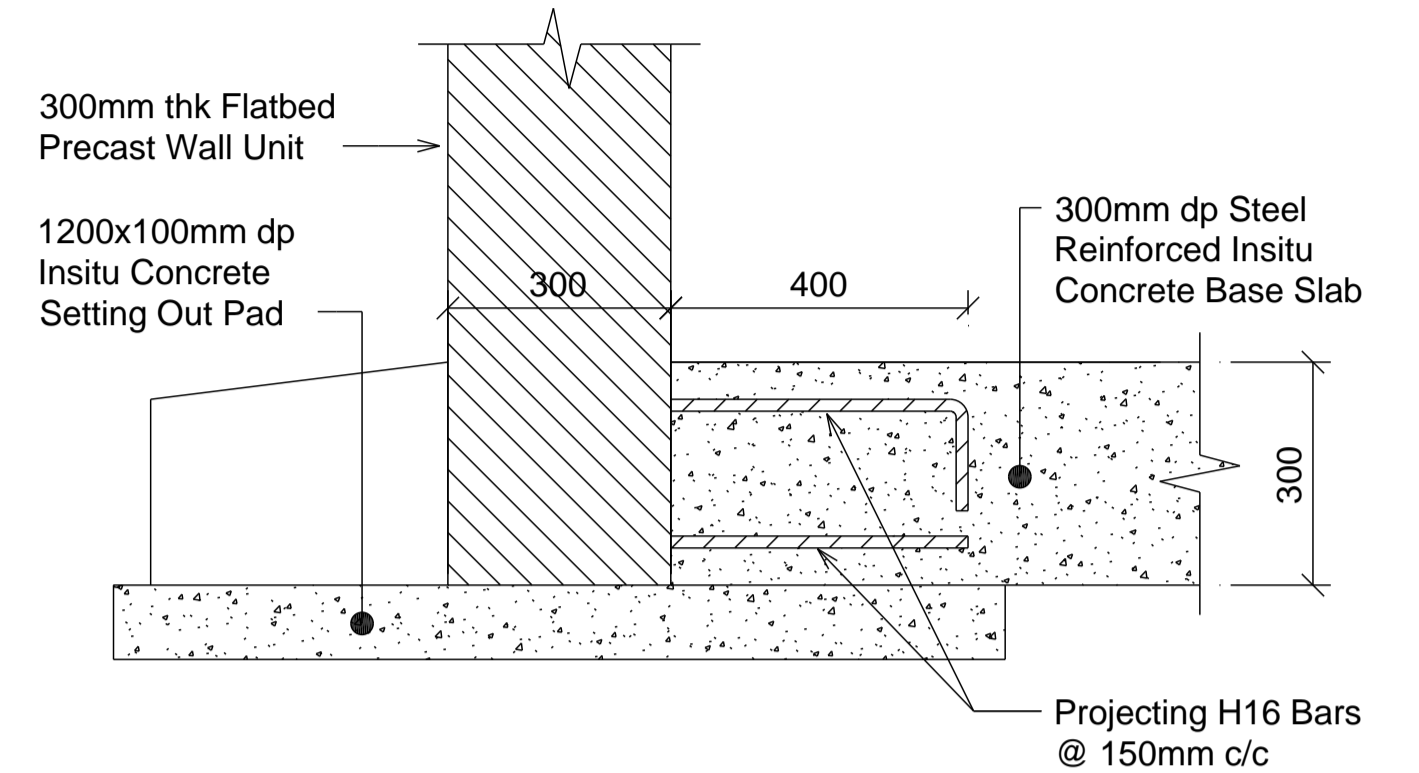
1 Typical Roof Slab Bearing Detail - External Wall
1:10



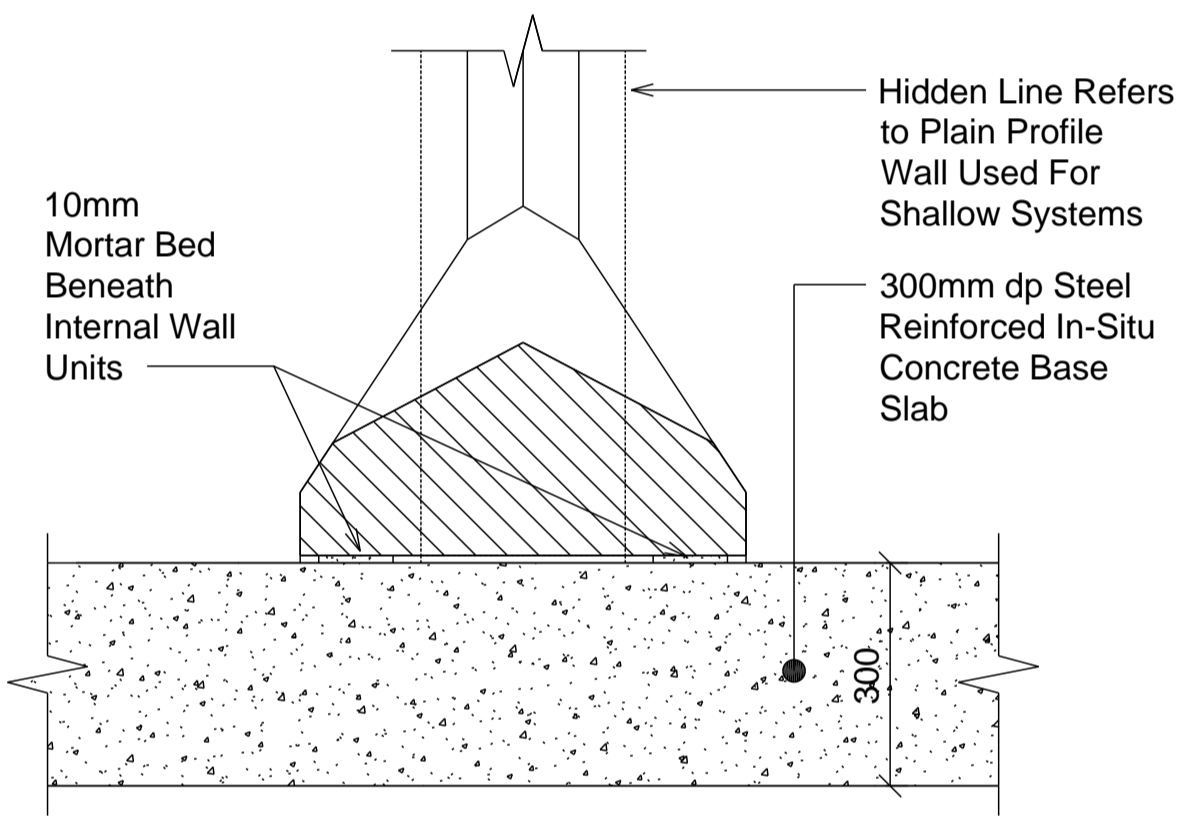
2 Typical Roof Slab Bearing Detail - Internal Wall
1:10



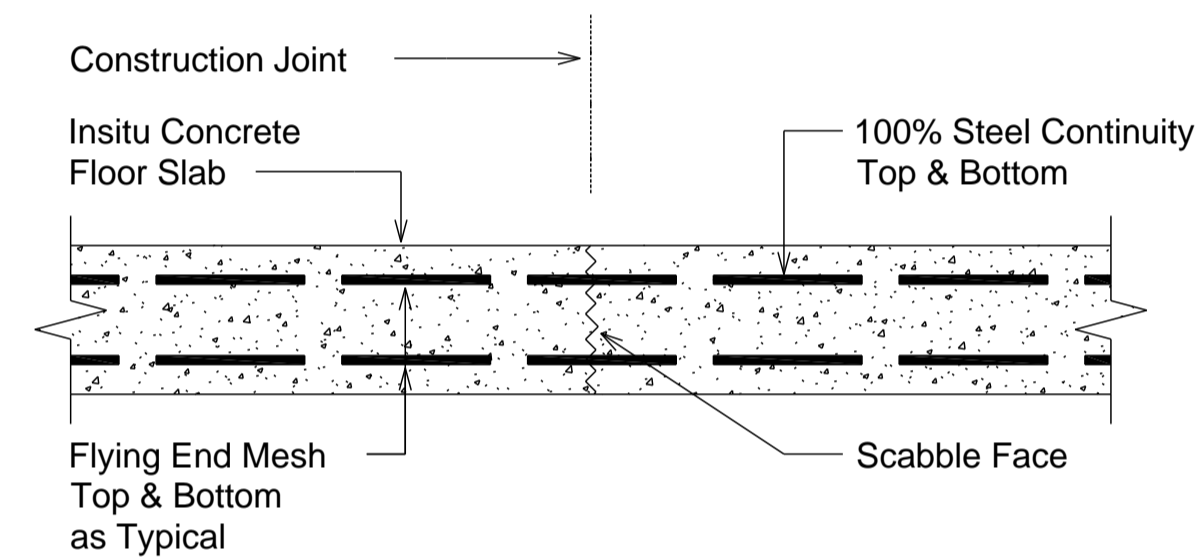
3 Typical Roof Tie Bar Detail
1:10



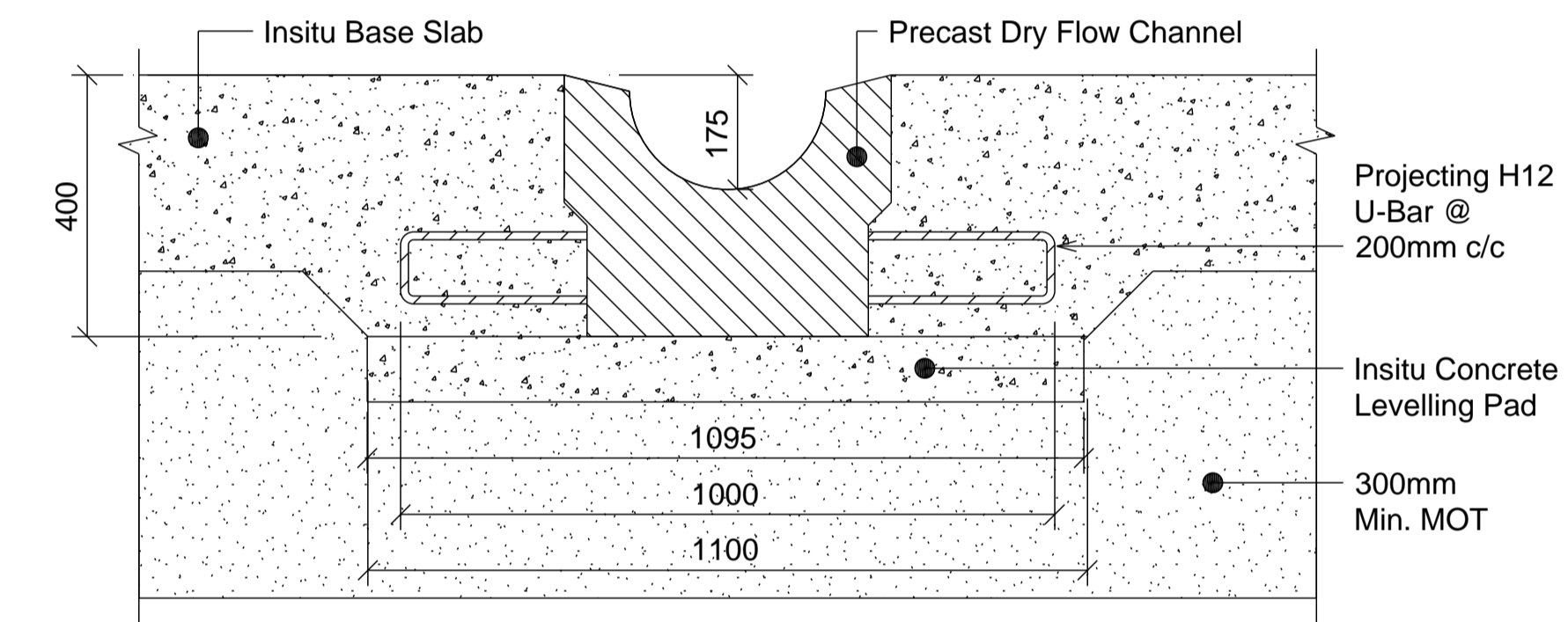
4 Typical Base Slab / Precast Wall Joint Detail
1:10



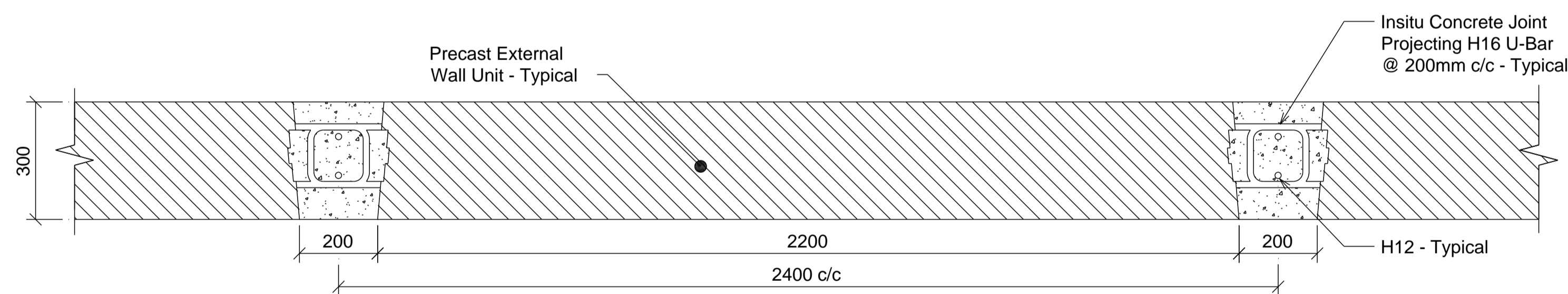
5 Typical Internal Wall Detail
1:10



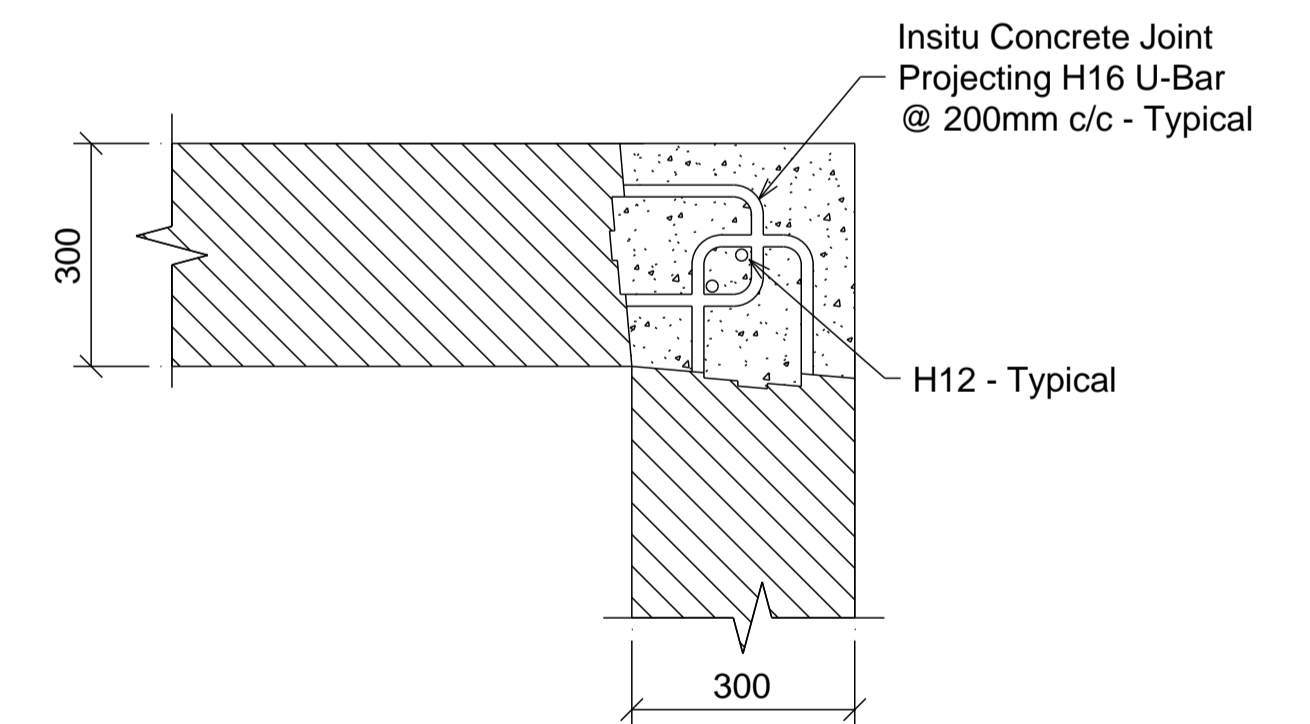
6 Typical Construction Joint Detail
1:10



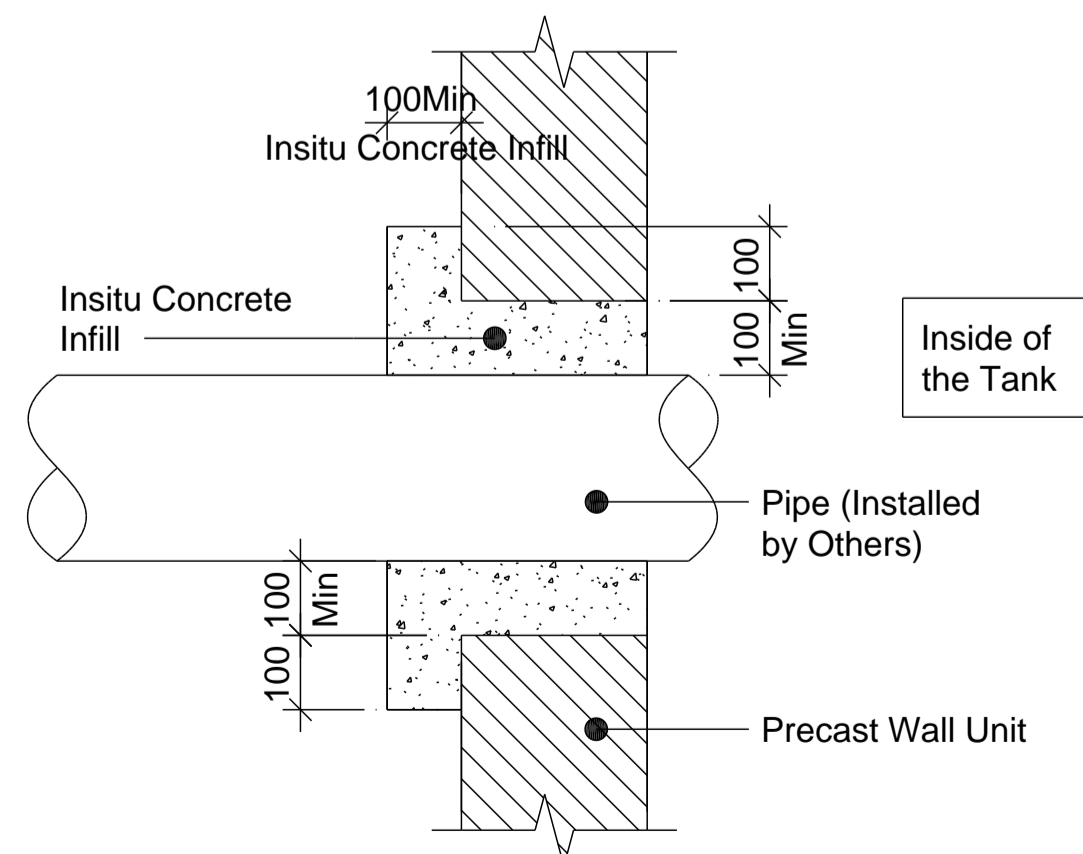
7 Detail at Low Flow Channel
1:10



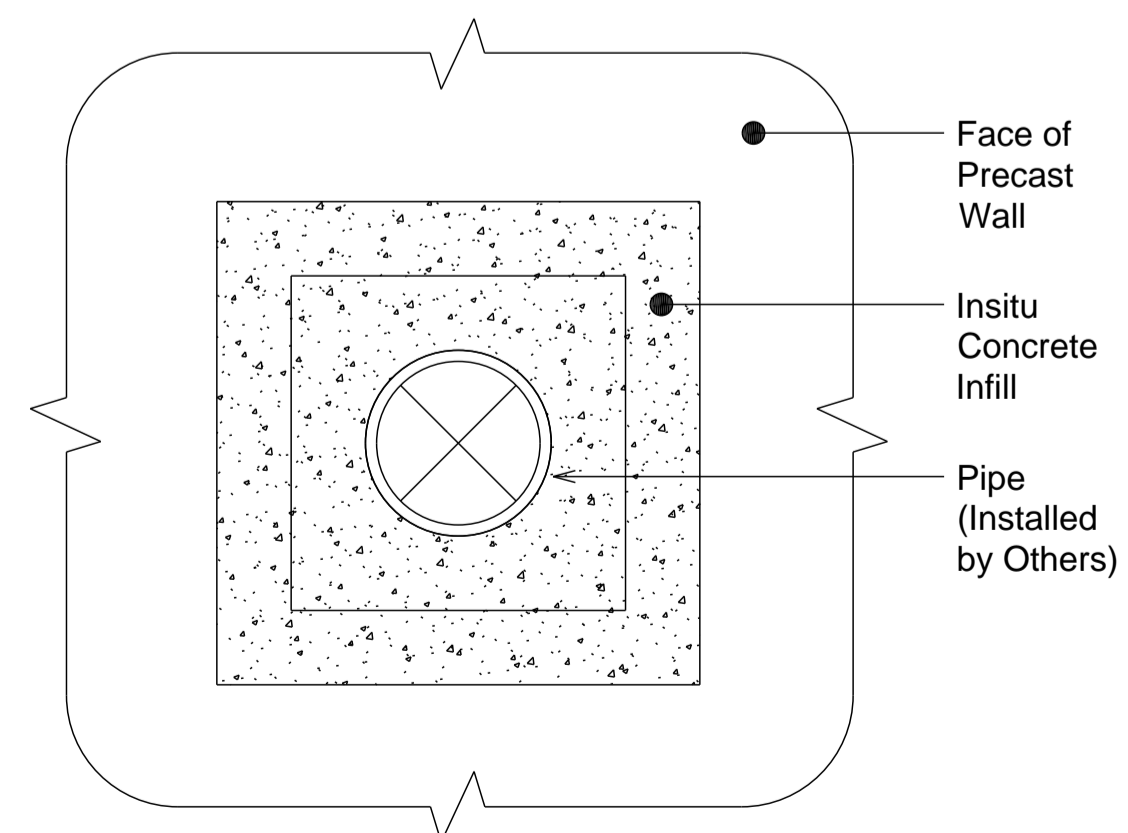
10 Insitu Vertical Joint Between Precast Wall Units - Typical
1:10



11 Insitu Vertical Corner Joint - Typical
1:10

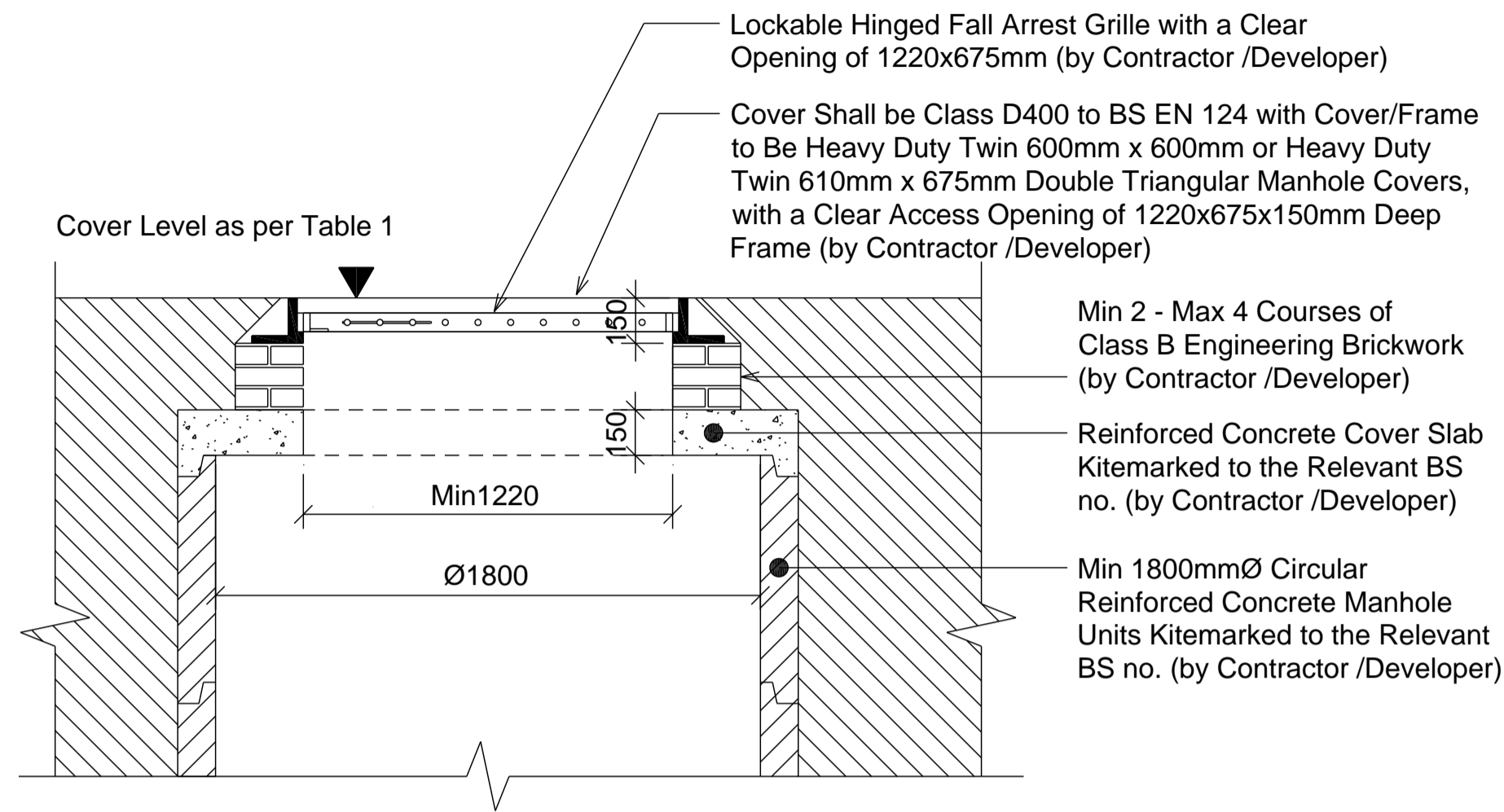


8 Pipe Connection Detail - Section
1:10



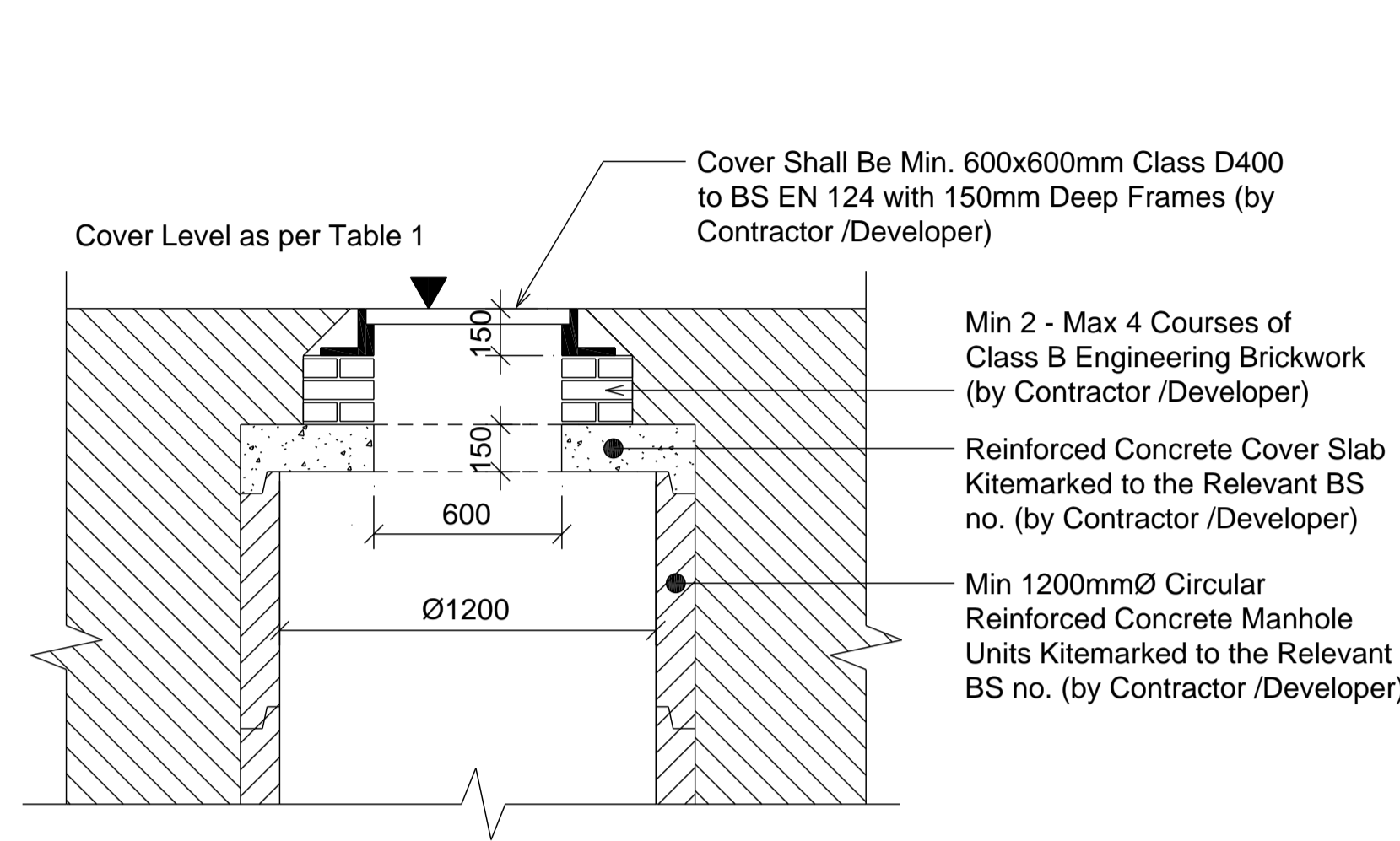
9 Pipe Connection Detail - Elevation
1:10

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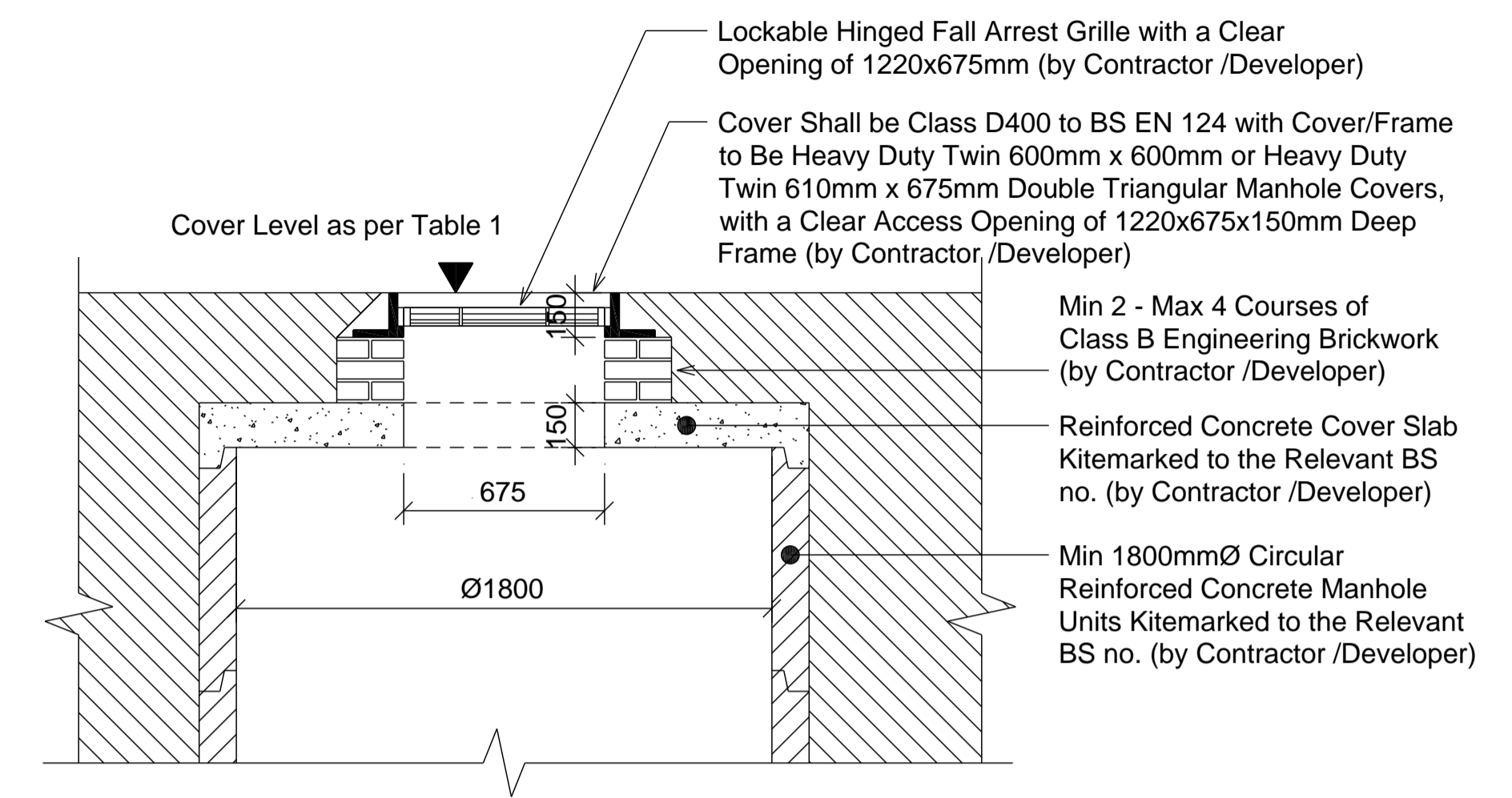
1 Turret Type A Section 1
1 : 20

Min 1800mmØ Turret with Heavy Duty Twin 600mm x 600mm or Heavy Duty Twin 610mm x 675mm Covers



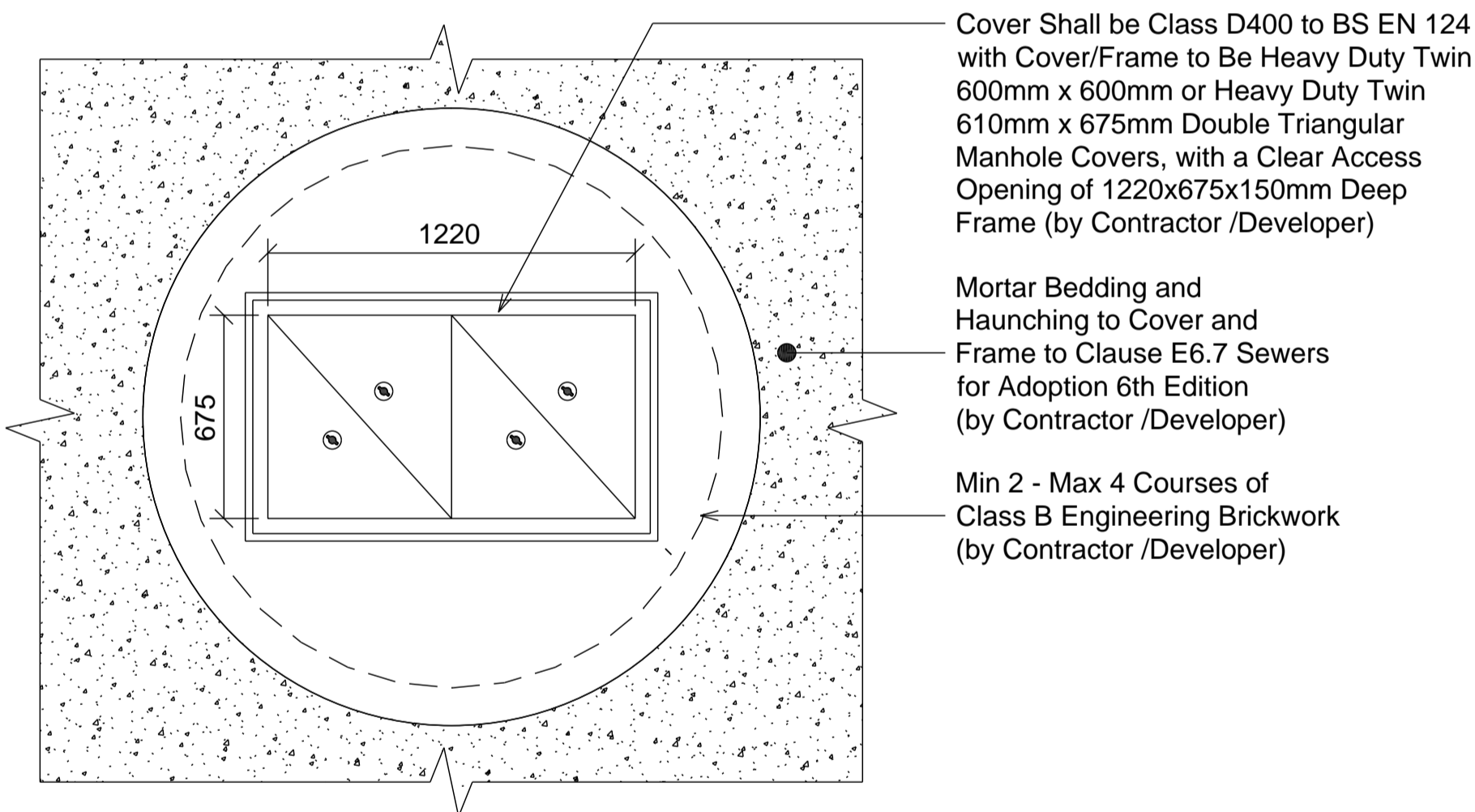
2 Turret Type B Section 1
1 : 20

Min 1200mmØ Turret with Min. 600 x 600mm Cover



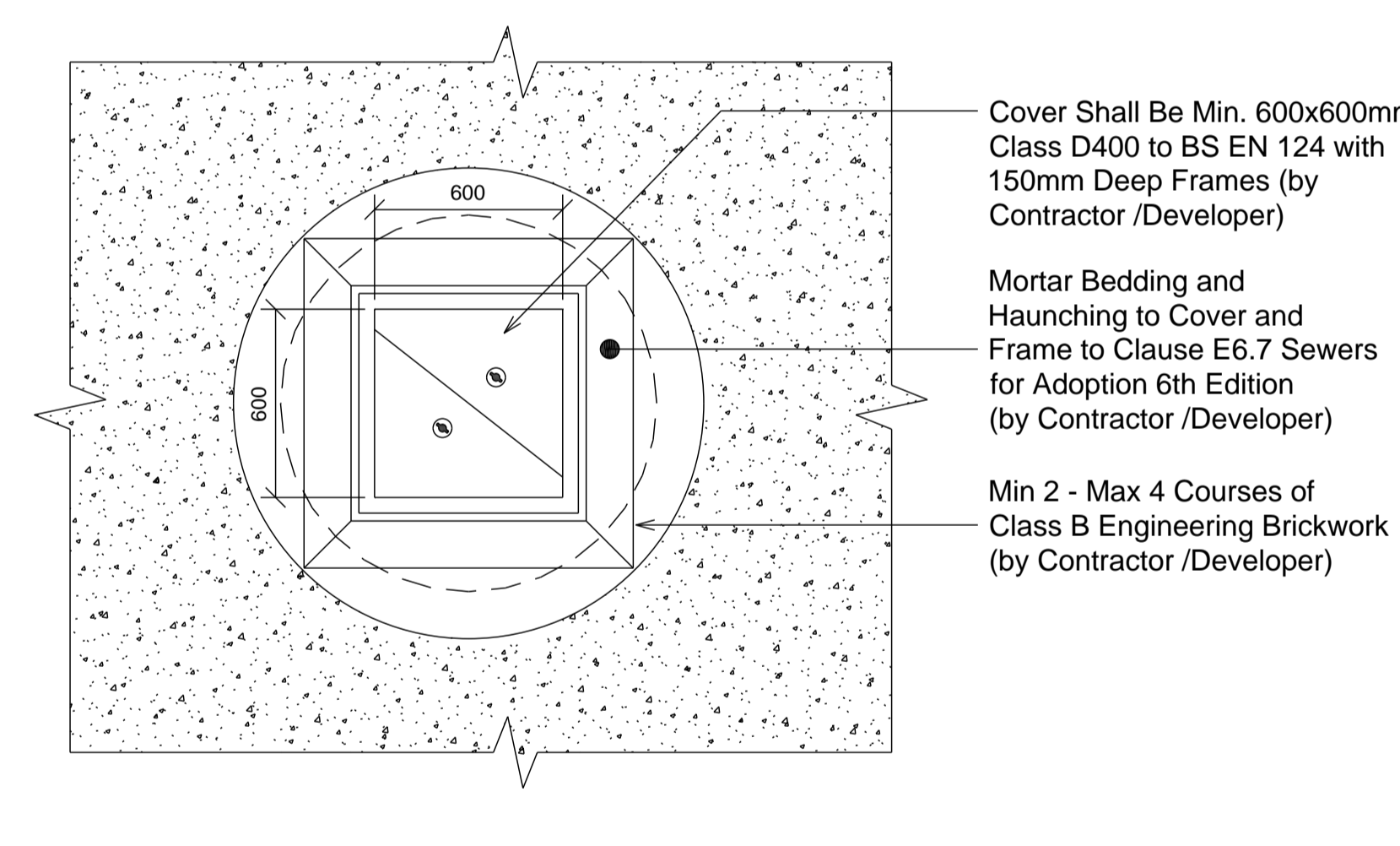
3 Turret Type A Section 2
1 : 20

Min 1800mmØ Turret with Heavy Duty Twin 600mm x 600mm or Heavy Duty Twin 610mm x 675mm Covers



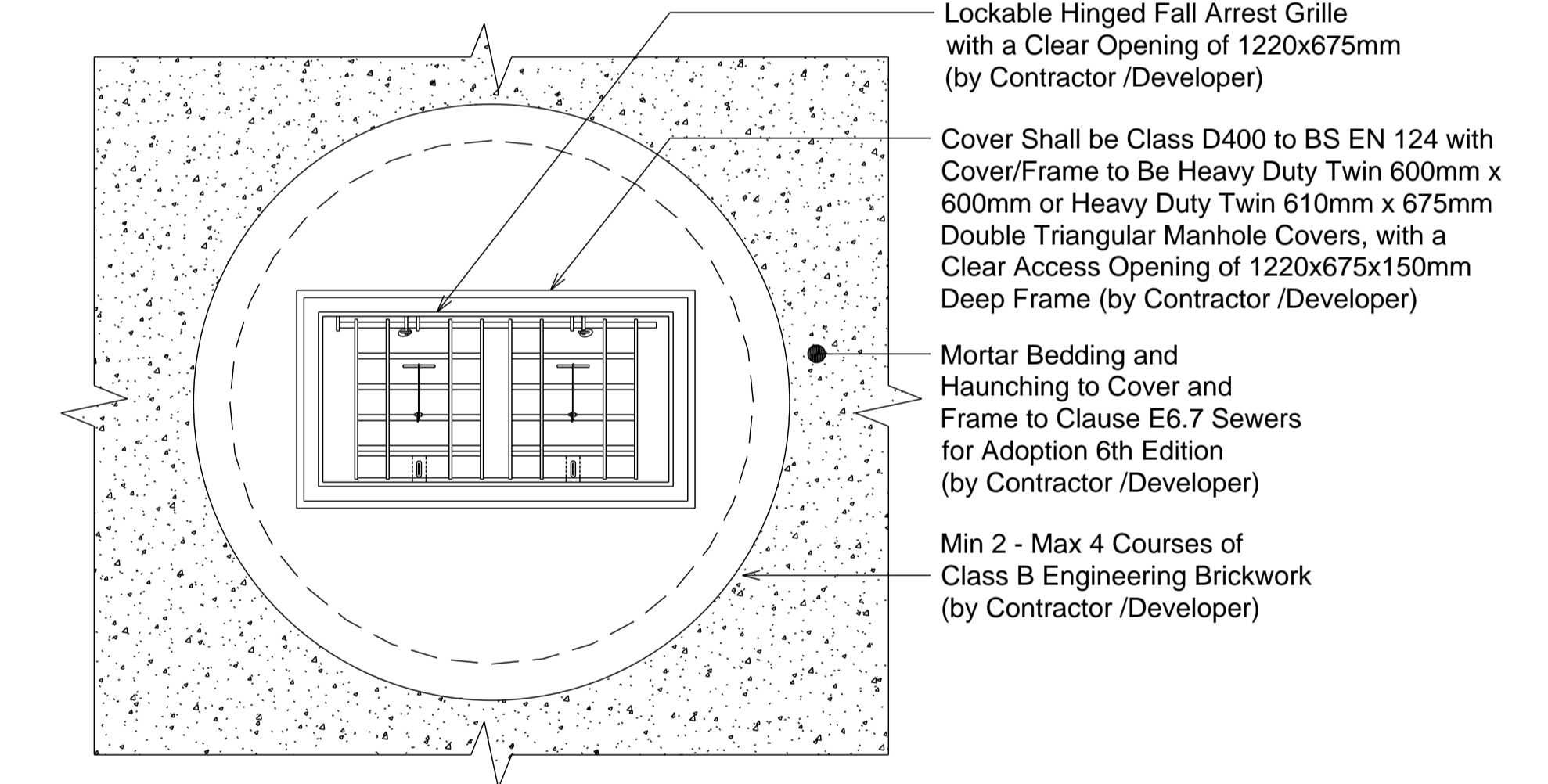
4 Turret Type A Plan 1
1 : 20

Min 1800mmØ Turret with Heavy Duty Twin 600mm x 600mm or Heavy Duty Twin 610mm x 675mm Covers



5 Turret Type B Plan 1
1 : 20

Min 1200mmØ Turret with Min. 600 x 600mm Cover



6 Turret Type A Plan 2
1 : 20

Min 1800mm Ø Turret - Cover Removed for Clarity

Table 1

Turret No.	Type	Ground / Cover Level
1	A	-214.362
2	B	-214.362
3	A	-214.362
4	B	-214.362
5	A	-215.994
6	B	-214.362

All adoptable sewer works and material to be in accordance with Sewerage Sector Guidance "Design and Construction Guidance" (Code for Adoption), the Relevant British/ European and Yorkshire Water's Standards/ Requirements/ Addendum to the Mechanical and Electrical Specification and Kitemarked

Note:
Where it is not possible to fit a manhole or rectangular PCC section on top of the tank, the Class B engineering bricks to the cover and frame shall be bedded onto the roof of the tank

Access Shafts to the Attenuation Tank Must not Overhang the Tank