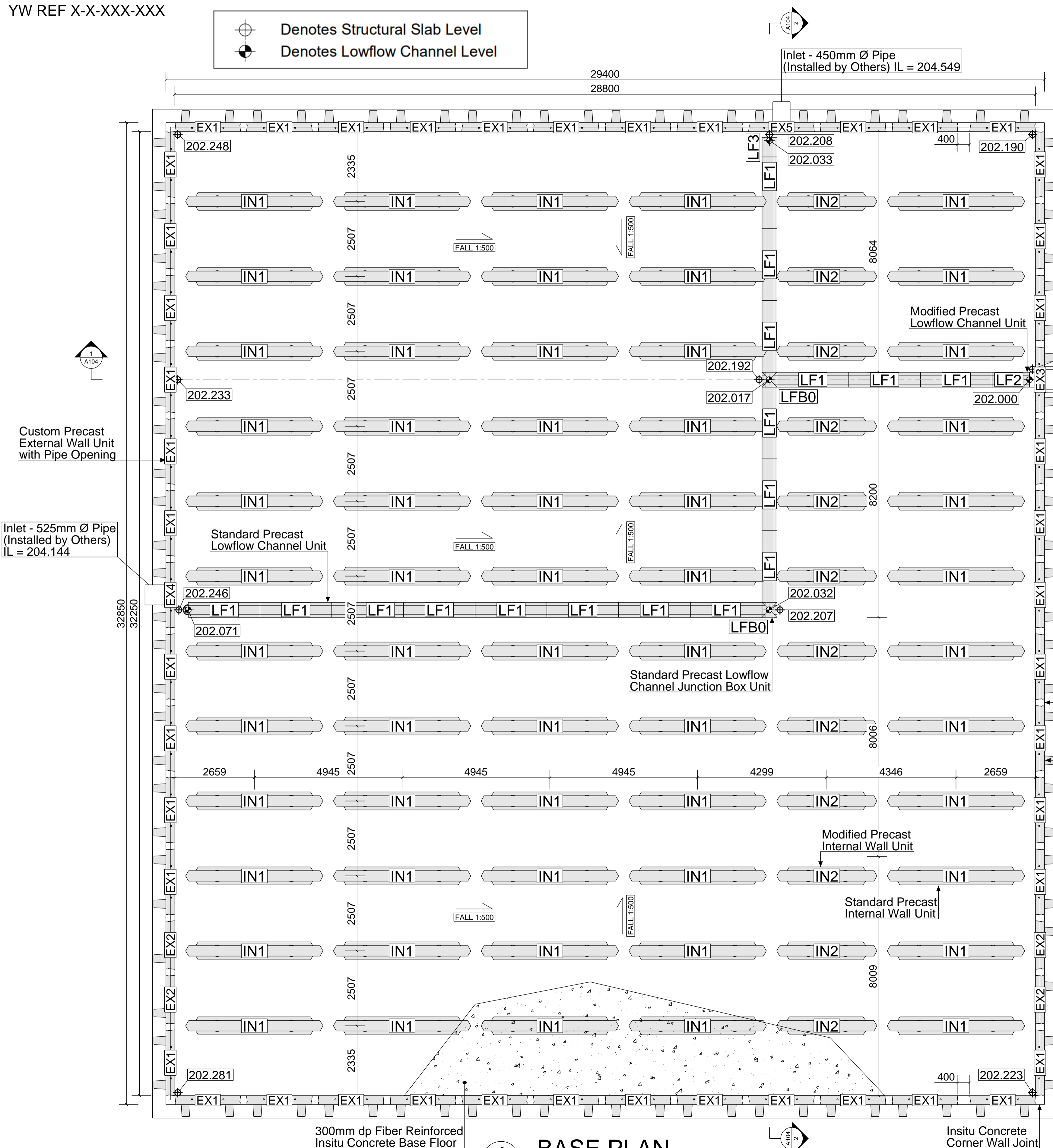


YW REF X-X-XXX-XXX

⊕ Denotes Structural Slab Level
⊙ Denotes Lowflow Channel Level



Design Assumptions

	Base Slab	Pads	Wall Joints / Roof Screed
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/m ³	360kg/m ³	380kg/m ³
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/m ³	N/A	N/A
Fibre Type	Fibrofor Diamond	N/A	N/A

Notes: * = Unless otherwise agreed with supplier

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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

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LIVE LOADING = 10kN/m²

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

IN-SITU SCHEDULE

TYPE	QUANTITY	DESCRIPTION	VOLUME (m ³)	TOTAL VOLUME (m ³)	WEIGHT (T)	TOTAL WEIGHT (T)
BS1	1	Base Slab	271.47	271.47	705.81	705.81
J1	46	Wall Joint	0.23	10.65	0.60	27.68
J2	4	Corner Joint	0.34	1.36	0.88	3.53
J3	2	Wall Joint	0.44	0.87	1.14	2.27
LP1	1	Setting Out Pad	14.69	14.69	38.20	38.20
LP2	1	Setting Out Pad	3.85	3.85	10.01	10.01
LP3	1	Setting Out Pad	0.87	0.87	2.26	2.26
PB1	1	Pipe Box Infill	0.12	0.12	0.32	0.32
PB2	1	Pipe Box Infill	0.14	0.14	0.37	0.37
PB3	1	Pipe Box Infill	0.11	0.11	0.28	0.28
RSC1	1	Roof Screed	125.24	125.24	325.62	325.62
TOTAL No. UNITS	60			VOLUME (m ³): 429.37	WEIGHT (T): 1116.4	

PRECAST SCHEDULE

TYPE	QUANTITY	DESCRIPTION	VOLUME (m ³)	TOTAL VOLUME (m ³)	WEIGHT (T)	TOTAL WEIGHT (T)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
EX1	45	Standard Precast External Wall Unit	2.31	104.17	5.91	265.82	2200	1100	3550
EX2	4	Standard Precast External Wall Unit	1.69	6.77	4.32	17.29	1625	1100	3550
EX3	1	Custom Precast External Wall Unit with Outlet	2.12	2.12	5.40	5.40	2200	1100	3550
EX4	1	Custom Precast External Wall Unit with Inlet	2.09	2.09	5.32	5.32	2200	1100	3550
EX5	1	Custom Precast External Wall Unit with Inlet	2.09	2.09	5.34	5.34	2200	1100	3550
IN1	60	Standard Precast Internal Wall Unit	1.94	116.46	4.95	296.98	4600	600	3000
IN2	12	Modified Precast Internal Wall Unit	1.38	16.62	3.53	42.37	3355	600	3000
LF1	17	Standard Lowflow Channel 400mm Unit	0.33	5.66	0.87	14.71	2400	500	400
LF2	1	Standard Lowflow Channel 400mm Unit	0.17	0.17	0.45	0.45	1250	500	400
LF3	1	Standard Lowflow Channel 400mm Unit	0.09	0.09	0.23	0.23	650	500	400
LFB0	2	Standard Lowflow Channel Junction Box	0.06	0.12	0.16	0.32	500	500	400
TOTAL No. UNITS	145			VOLUME (m ³): 256.36	WEIGHT (T): 654.2				

Estimated Storage Volume 2653m³
(provided tank reaches maximum capacity)

1 BASE PLAN
1:75

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

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

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

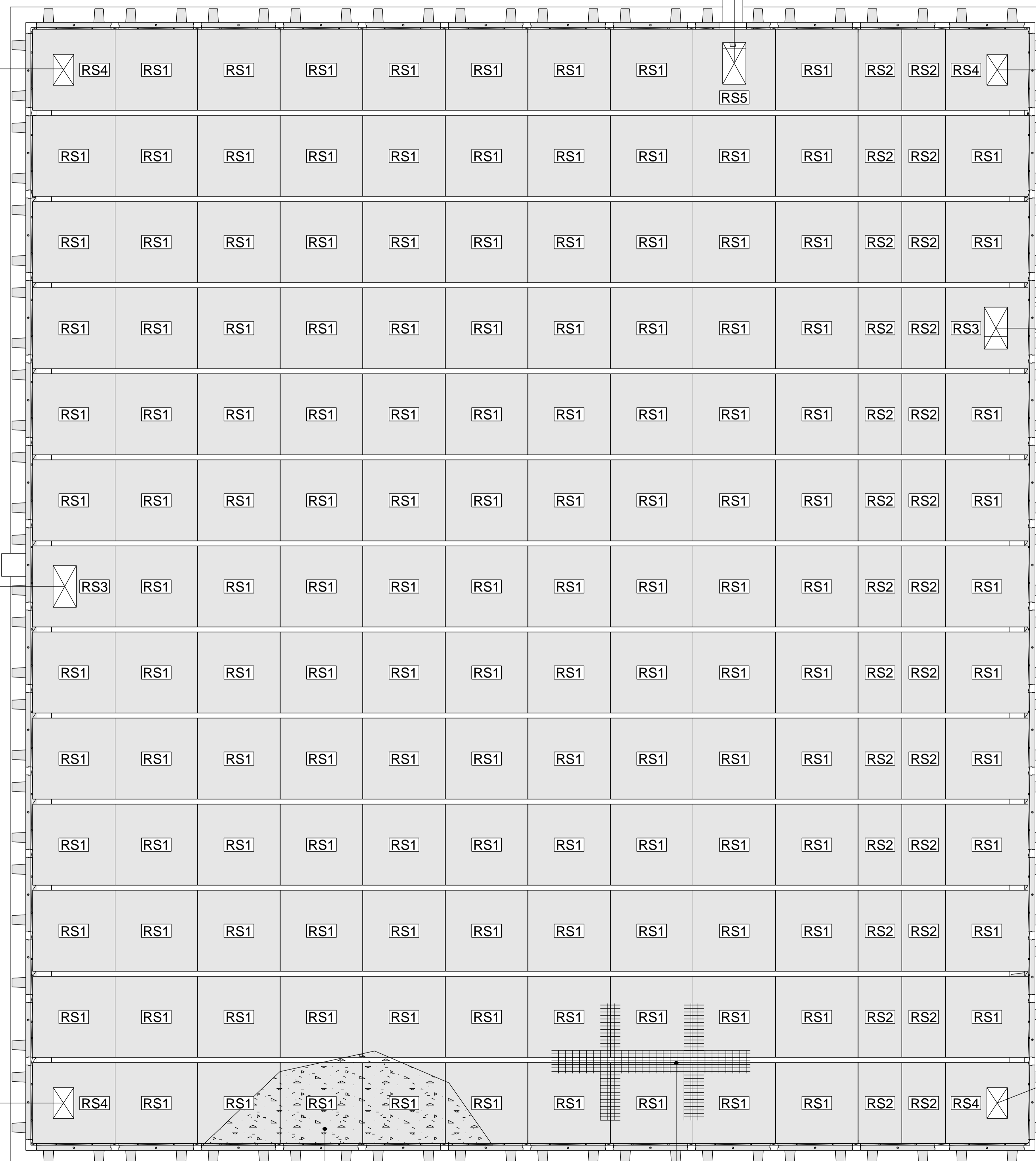
1220x675mm Roof Access Opening
Turret 3 Type A - Double Access
See Sheet A107 Turret Details 1, 3, 4 & 6

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

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

900x600mm Roof Access
Opening Turret 7 Type B
Single Access
See Sheet A107 Turret
Details Detail 2 & 5

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



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

600mm Wide Strip 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.

1 ROOF PLAN
1:75

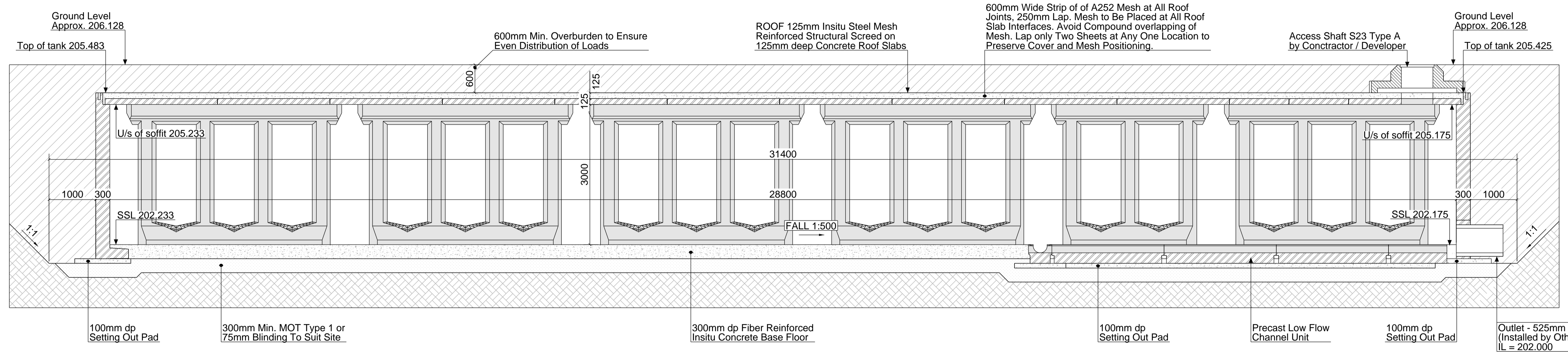
FOR APPROVAL

ROOF SLAB SCHEDULE

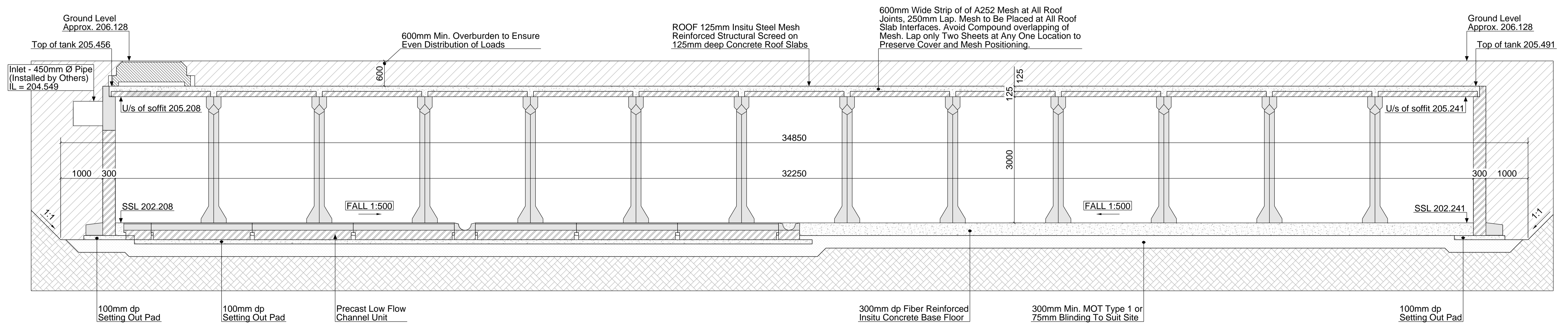
TYPE	QUANTITY	DESCRIPTION	VOLUME (m³)	TOTAL VOLUME (m³)	WEIGHT (T)	TOTAL WEIGHT (T)	DEPTH (mm)	WIDTH (mm)	LENGTH (mm)
RS1	136	Standard Precast Roof Slab Unit	0.71	96.35	1.84	250.43	166	2400	2360
RS2	26	Standard Precast Roof Slab Unit	0.37	9.75	0.97	25.34	166	1270	2360
RS3	2	Custom Precast Roof Slab Unit with Access Opening	0.61	1.21	1.57	3.15	166	2400	2360
RS4	4	Custom Precast Roof Slab Unit with Access Opening	0.64	2.56	1.67	6.66	166	2400	2360
RS5	1	Custom Precast Roof Slab Unit with Access Opening	0.61	0.61	1.57	1.57	166	2400	2360
TOTAL No. UNITS		169	VOLUME (m3): 110.47		WEIGHT (T): 287.2				

YW REF X-X-XXX-XXX

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



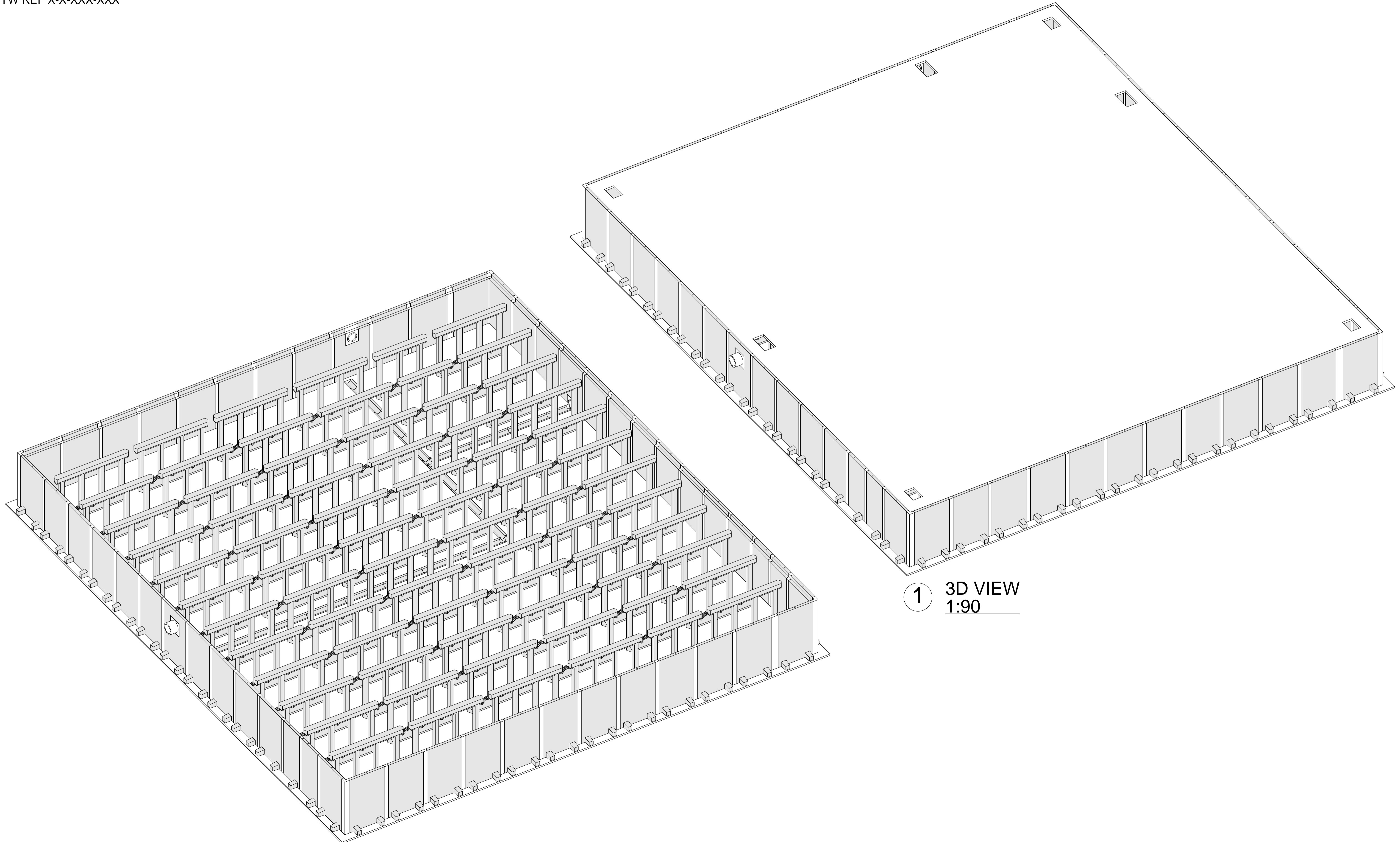
1 SECTION 1 - 1
1:45



2 SECTION 2 - 2
1:45

FOR APPROVAL

YW REF X-X-XXX-XXX

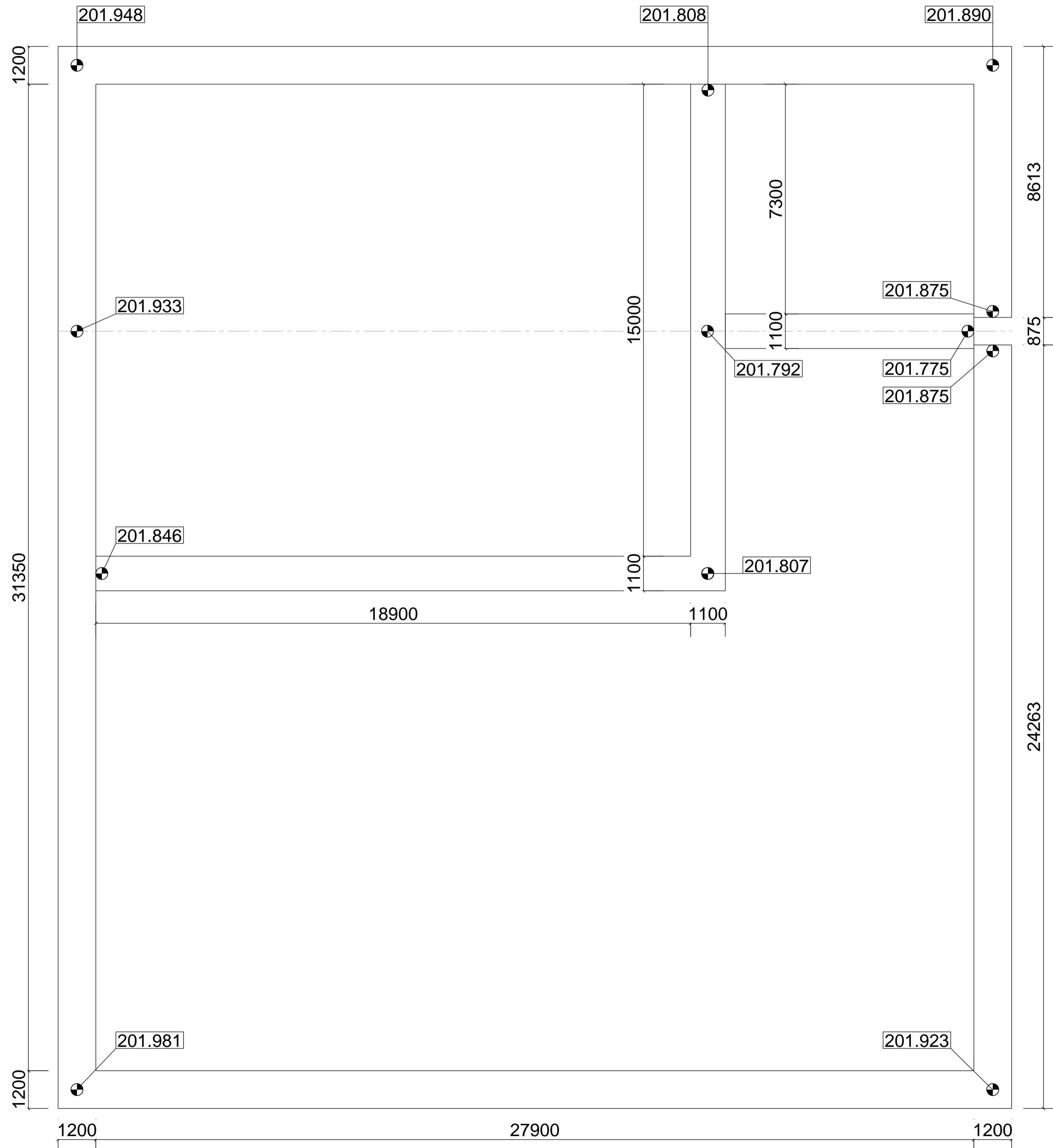


1 3D VIEW
1:90

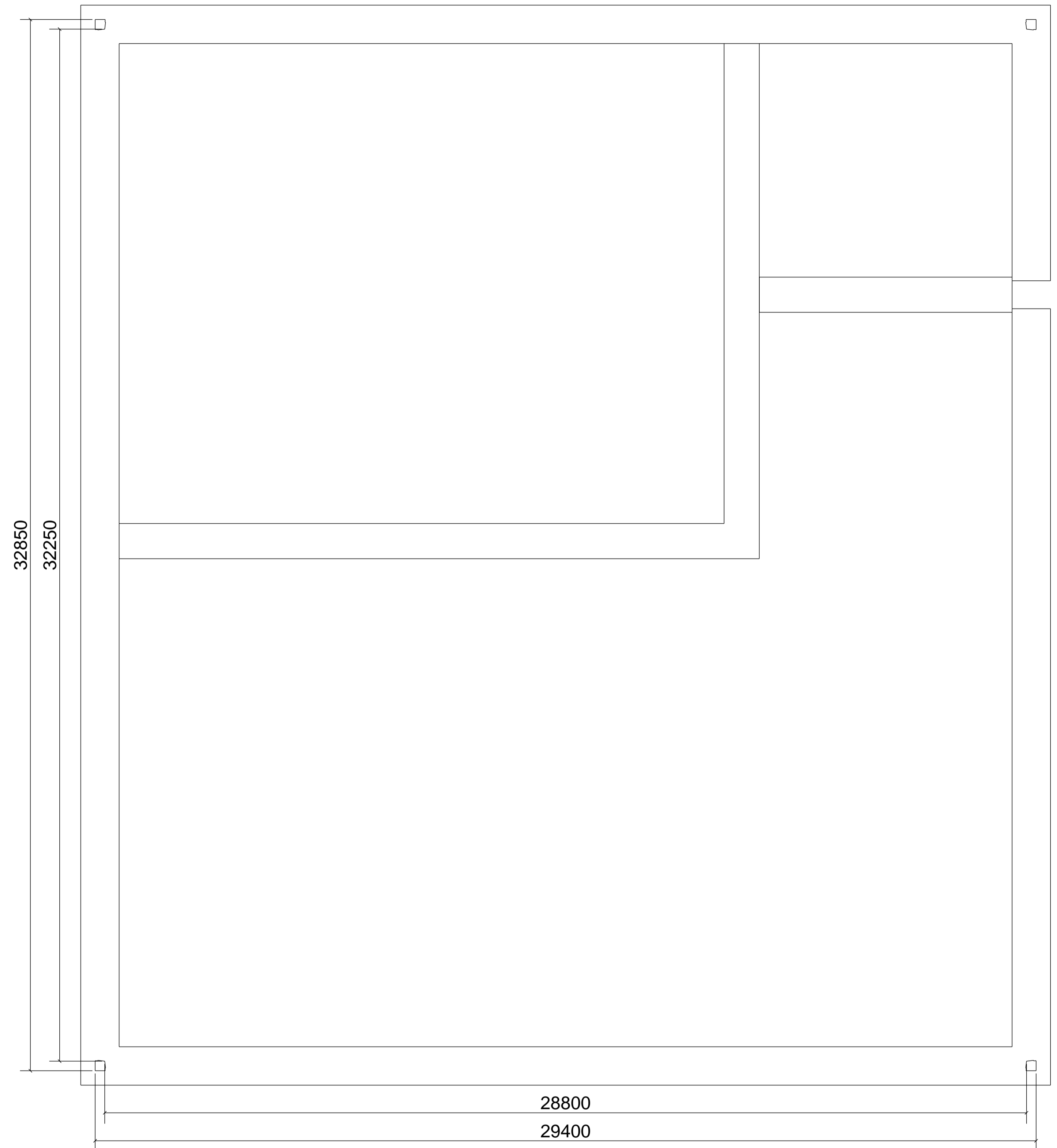
2 3D VIEW
1:90

FOR APPROVAL

YW REF X-X-XXX-XXX



2 Pad Layout
1:85

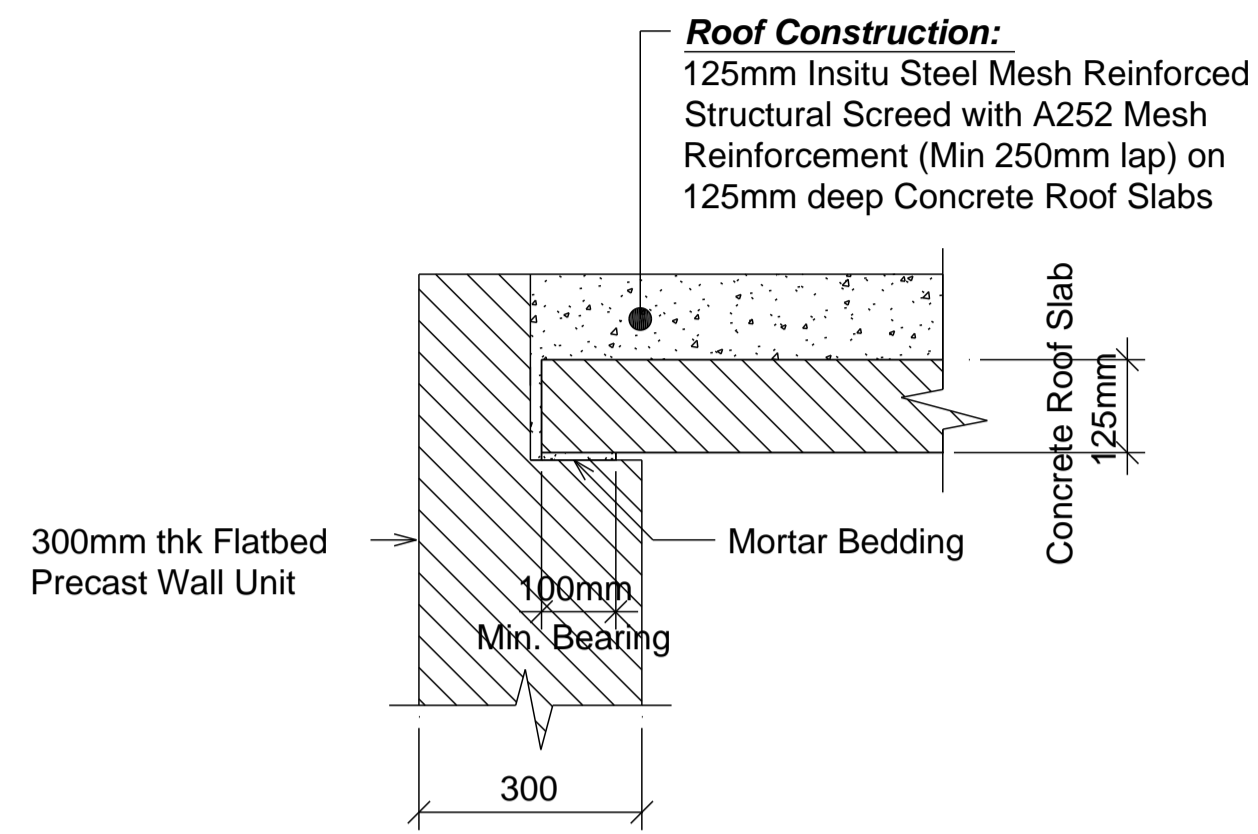


1 Setting Out Layout
1:85

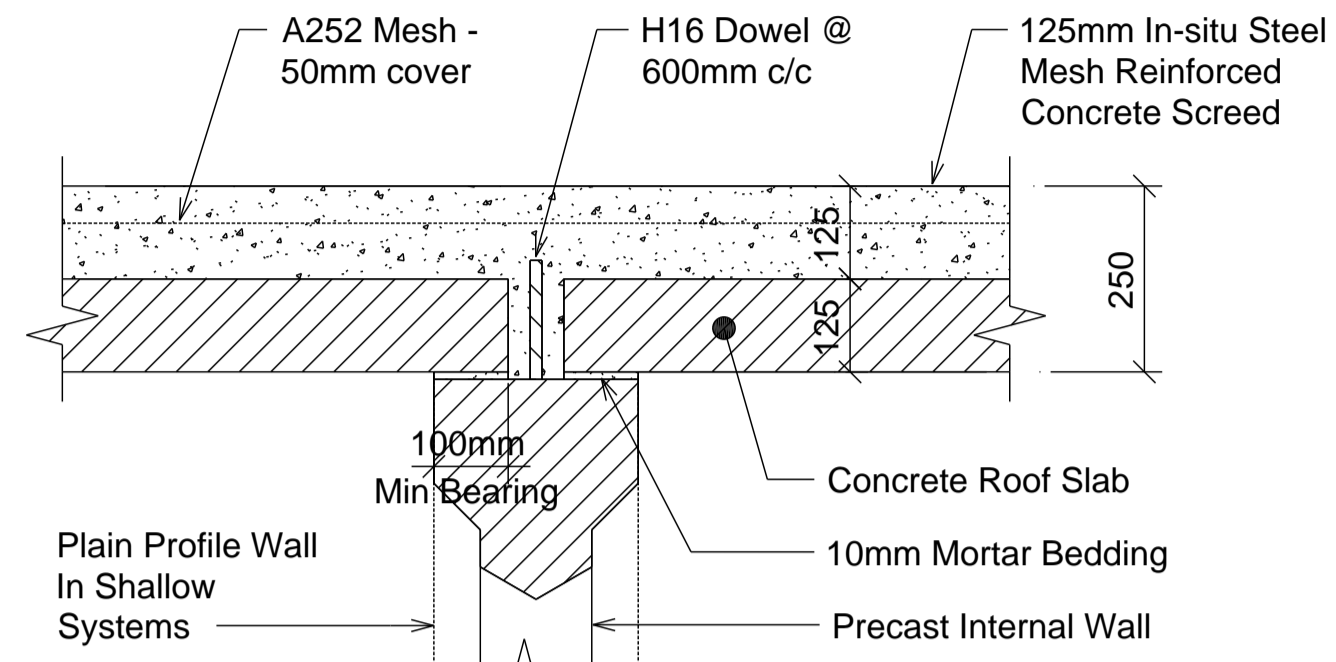
FOR APPROVAL

Drawn By: RB	REV	DATE	DRAWN	CHKD	COMMENT
Date: 01.07.2025					Scale @ A1: AS SHOWN
SEF No: SATUK29654	1	01.07.2025	RB	LOC	Issued For Approval
Drg. No: A107	2	02.12.2025	RB	LOC	Dimensions Revised

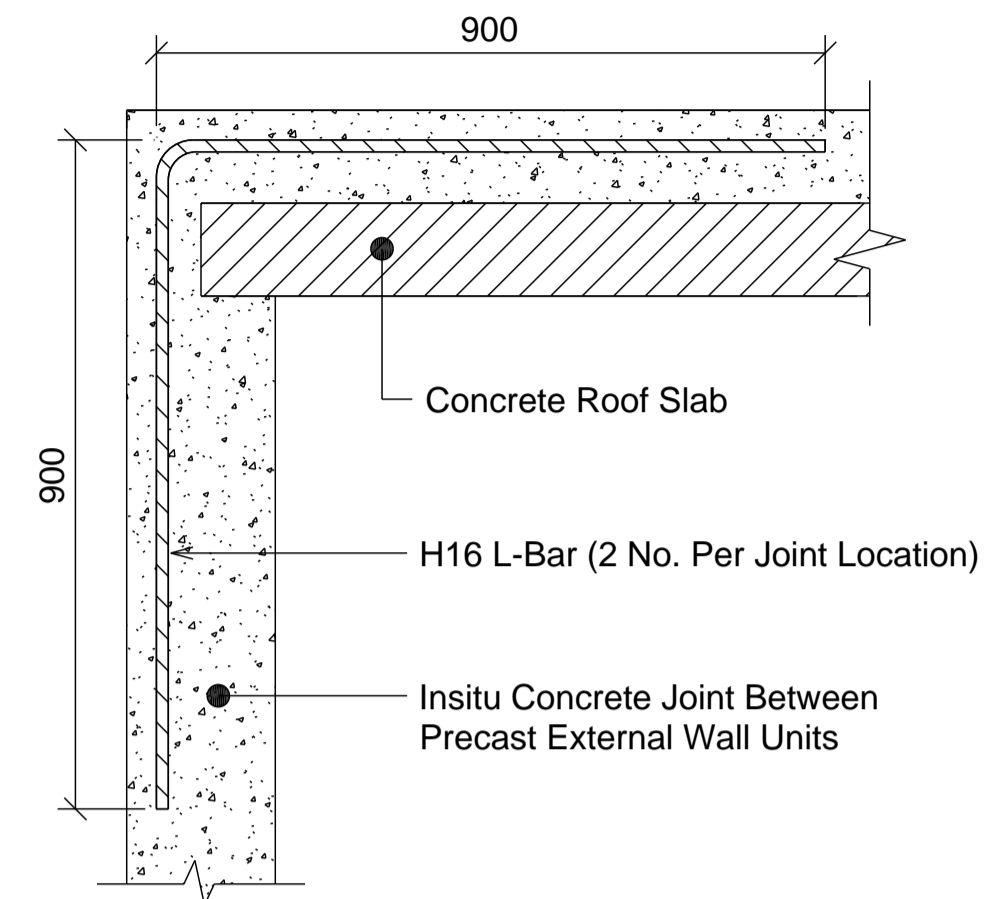
YW REF X-X-XXX-XXX



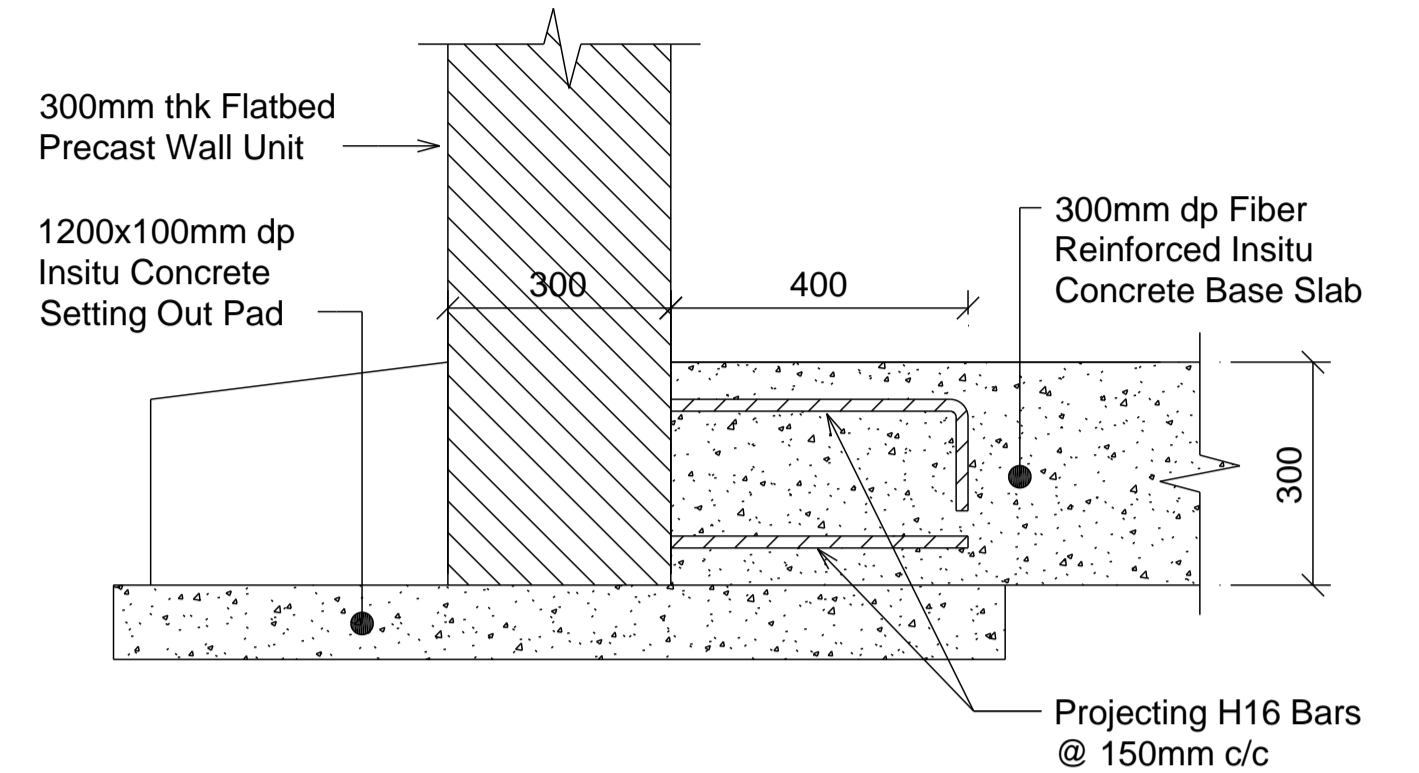
1 Typical Roof Slab Bearing Detail - External Wall
1:10



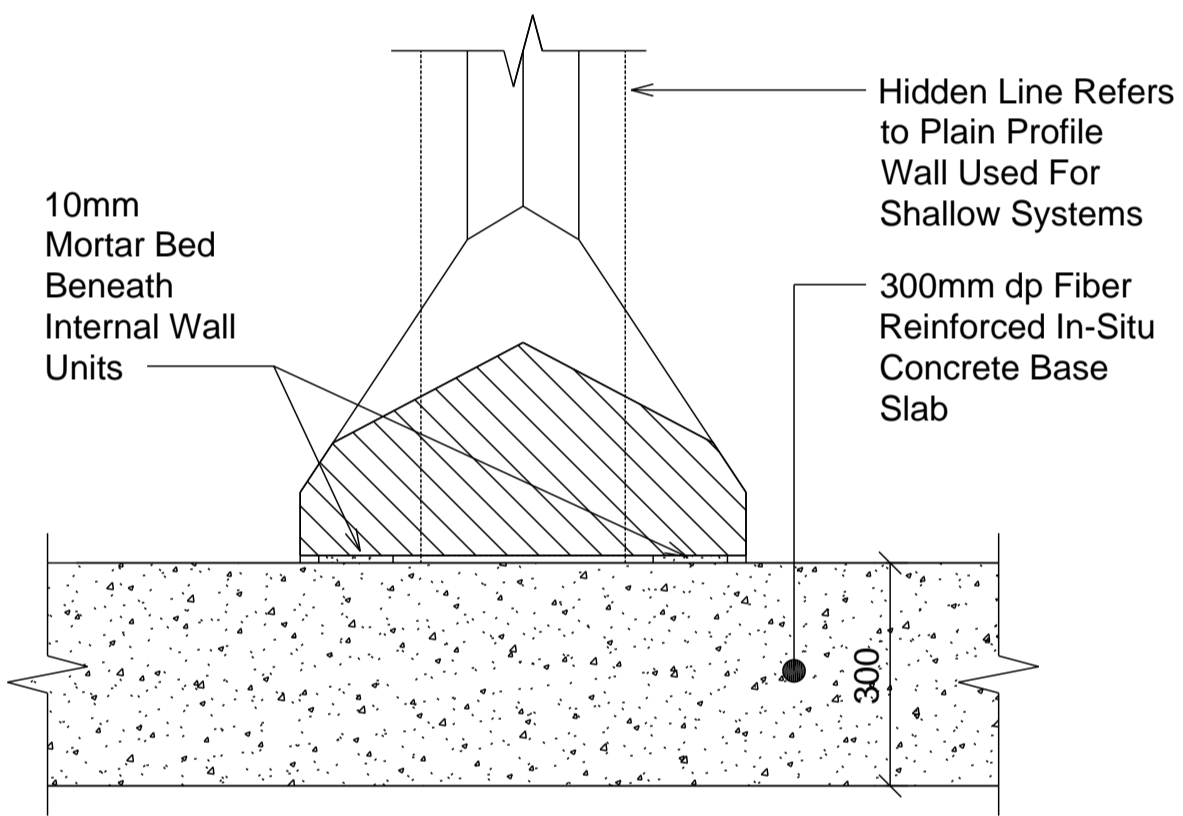
2 Typical Roof Slab Bearing Detail - Internal Wall
1:10



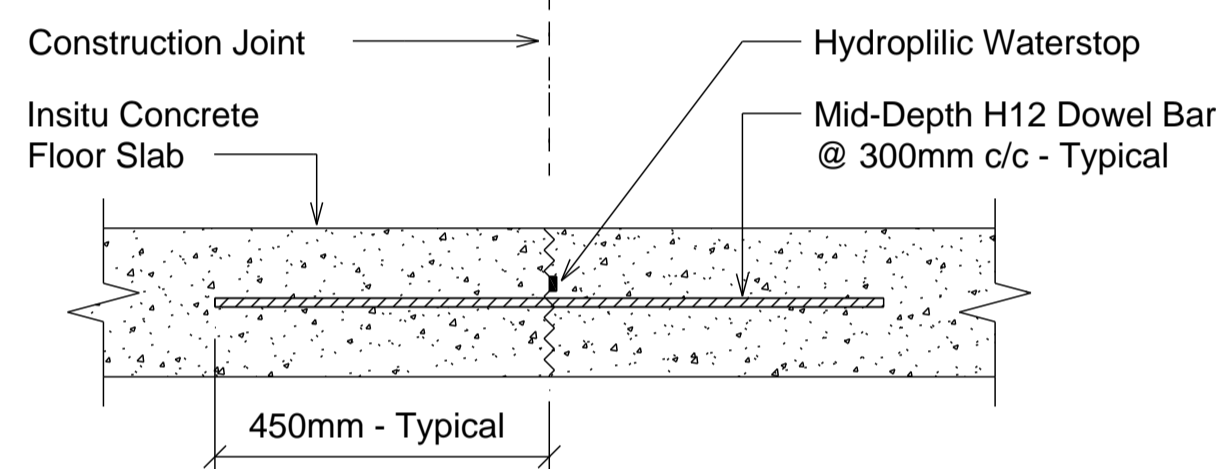
3 Typical Roof Tie Bar Detail
1:10



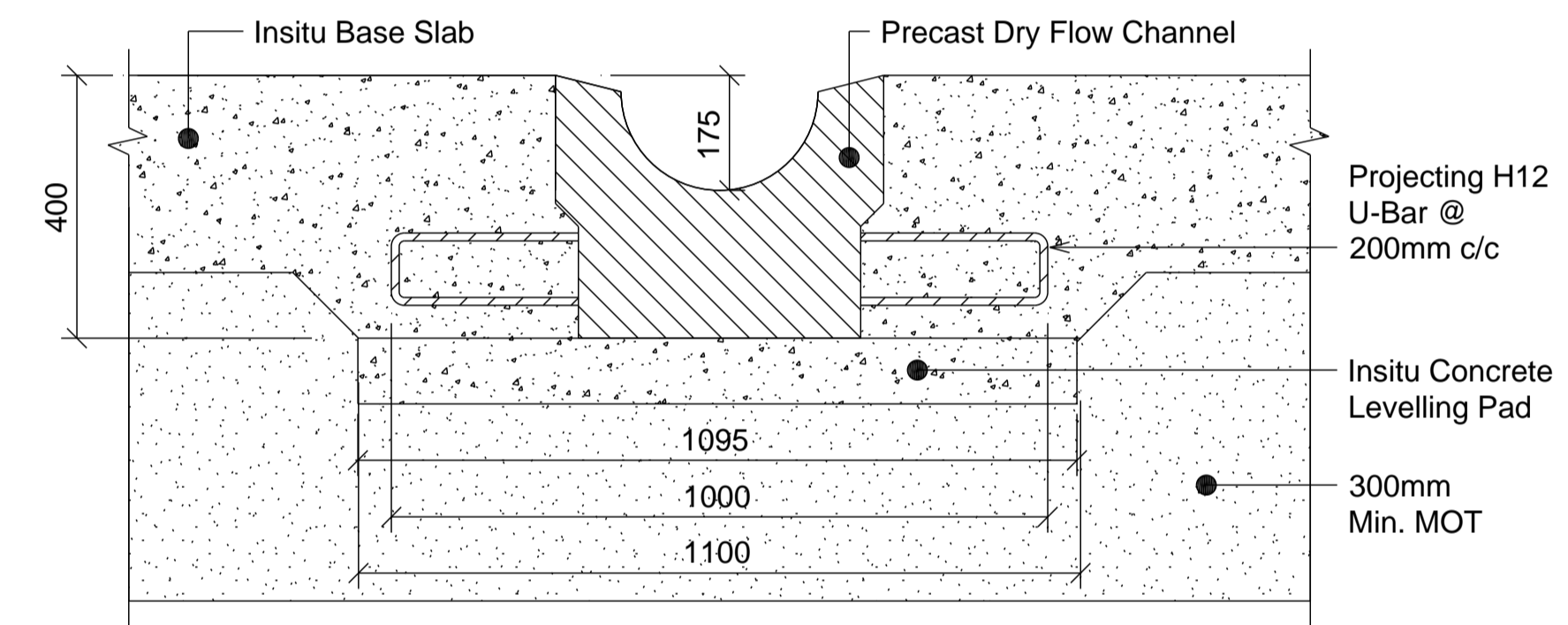
4 Typical Base Slab / Precast Wall Joint Detail
1:10



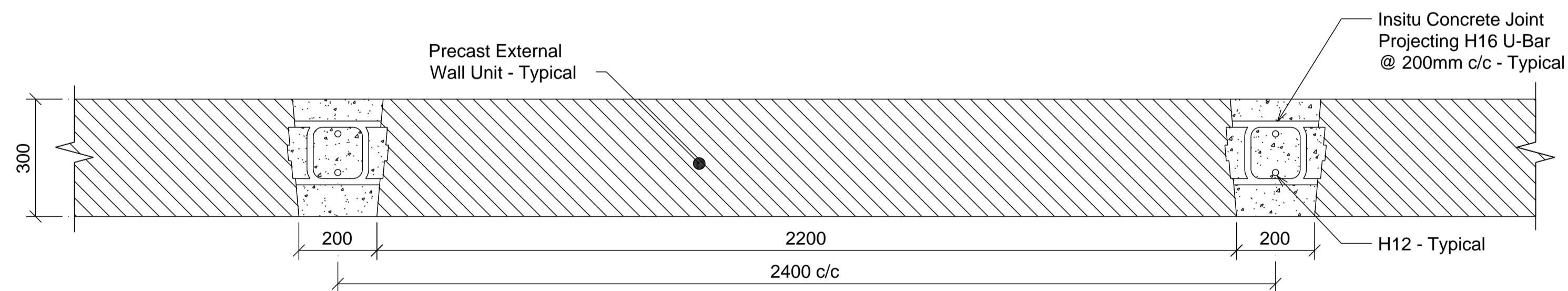
5 Typical Internal Wall Detail
1:10



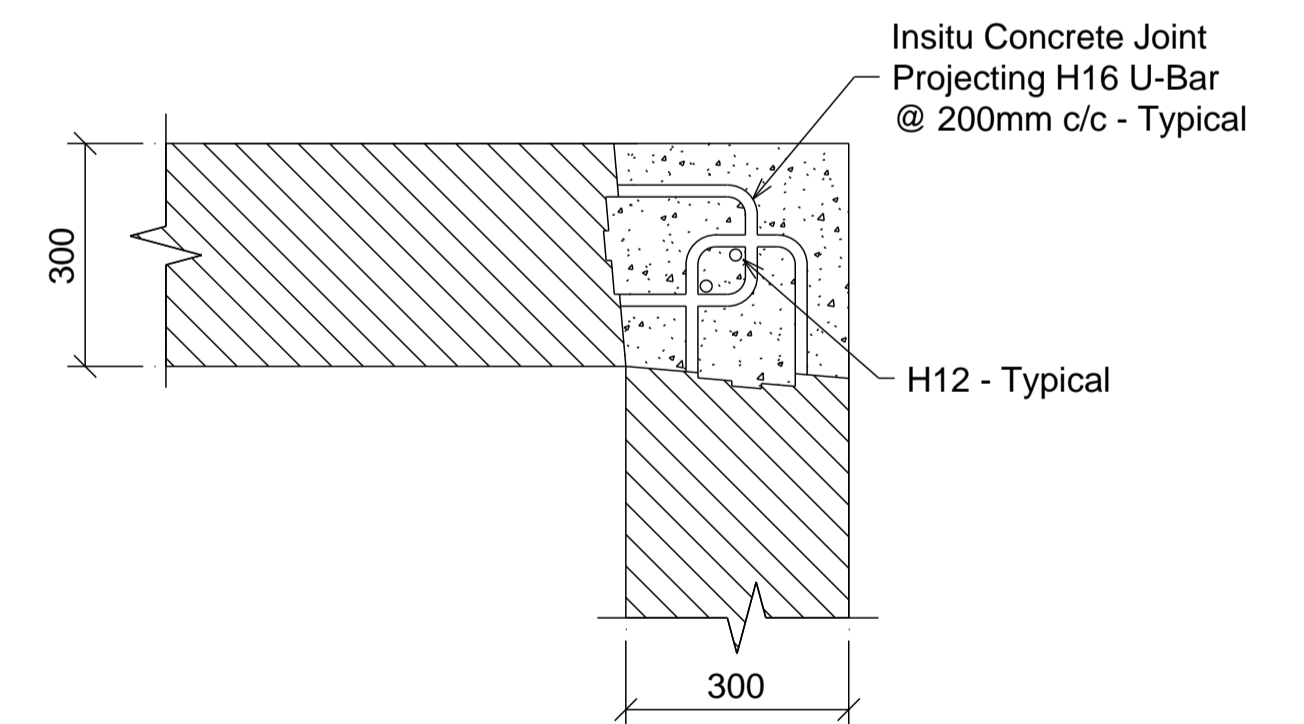
6 Typical Construction Joint Detail
1:10



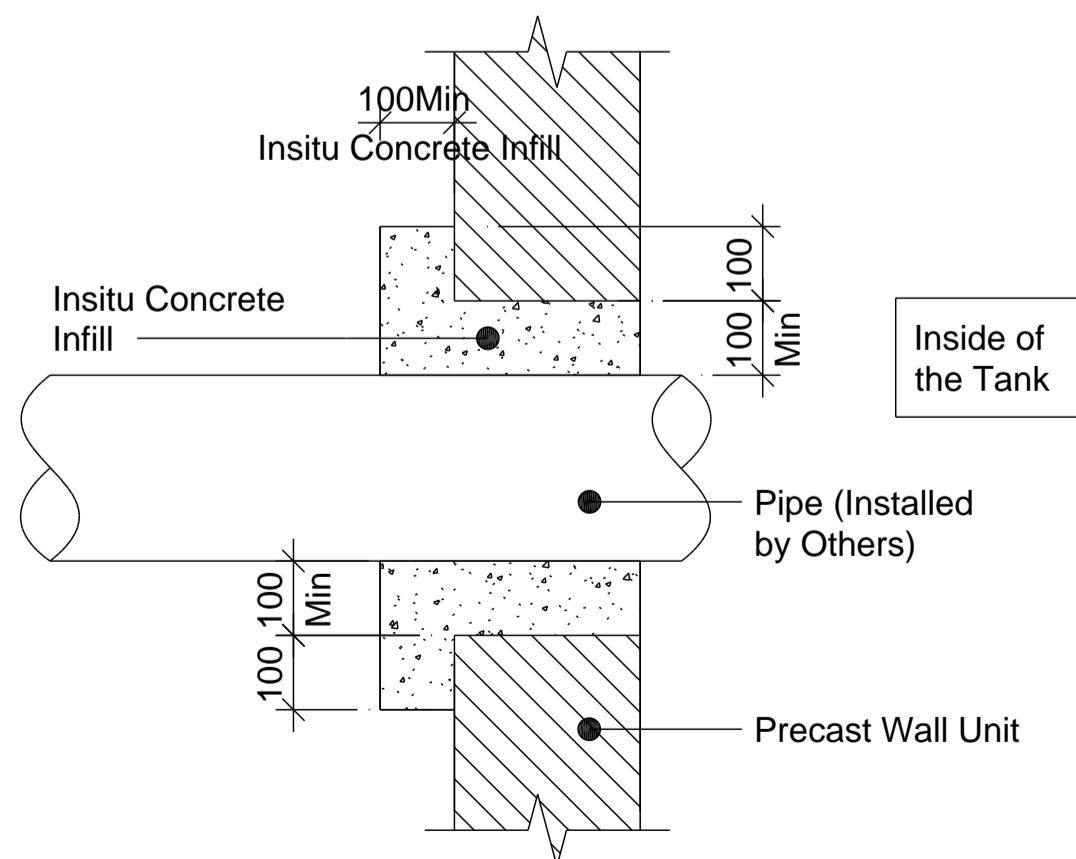
7 Detail at Low Flow Channel
1:10



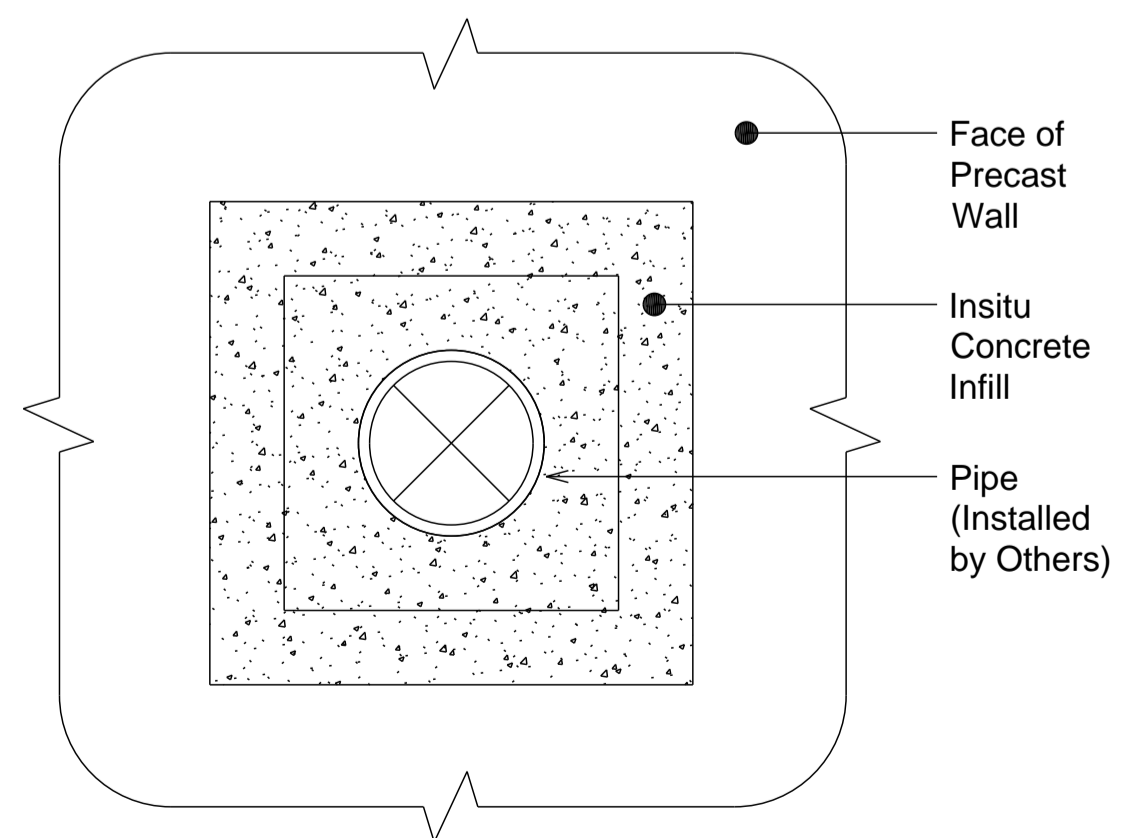
10 Insitu Vertical Joint Between Precast Wall Units - Typical
1:10



11 Insitu Vertical Corner Joint - Typical
1:10

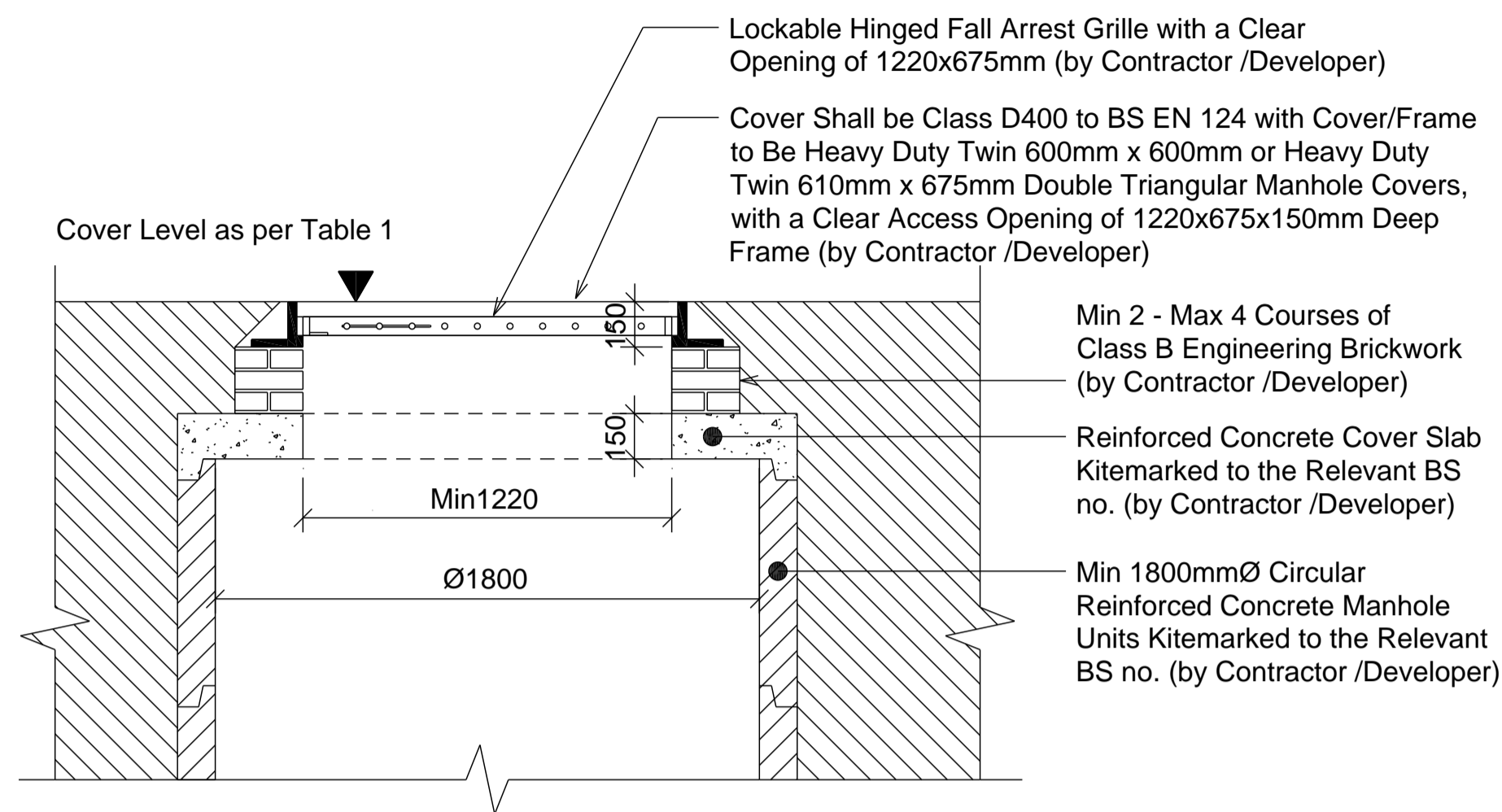


8 Pipe Connection Detail - Section
1:10



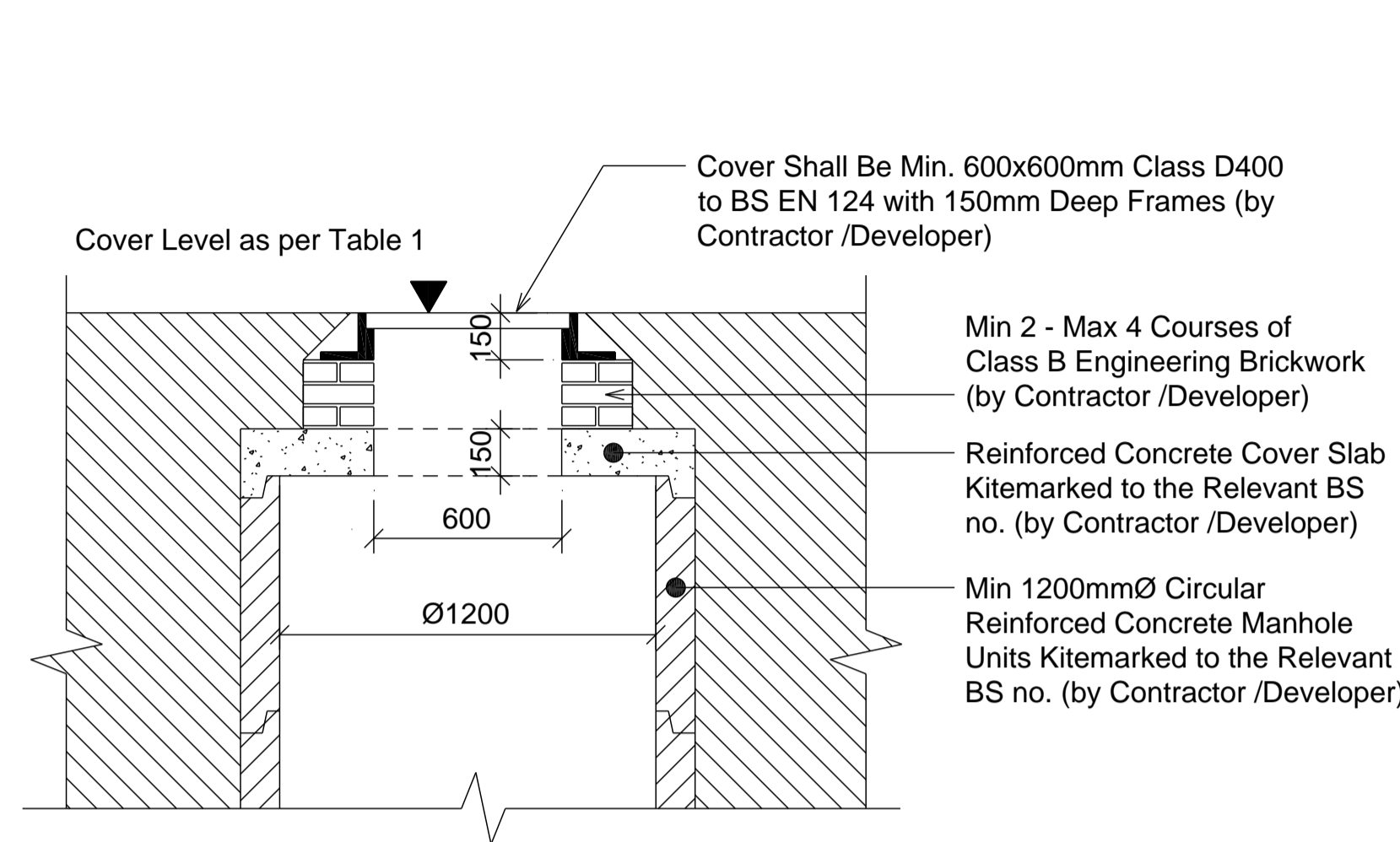
9 Pipe Connection Detail - Elevation
1:10

YW REF X-X-XXX-XXX



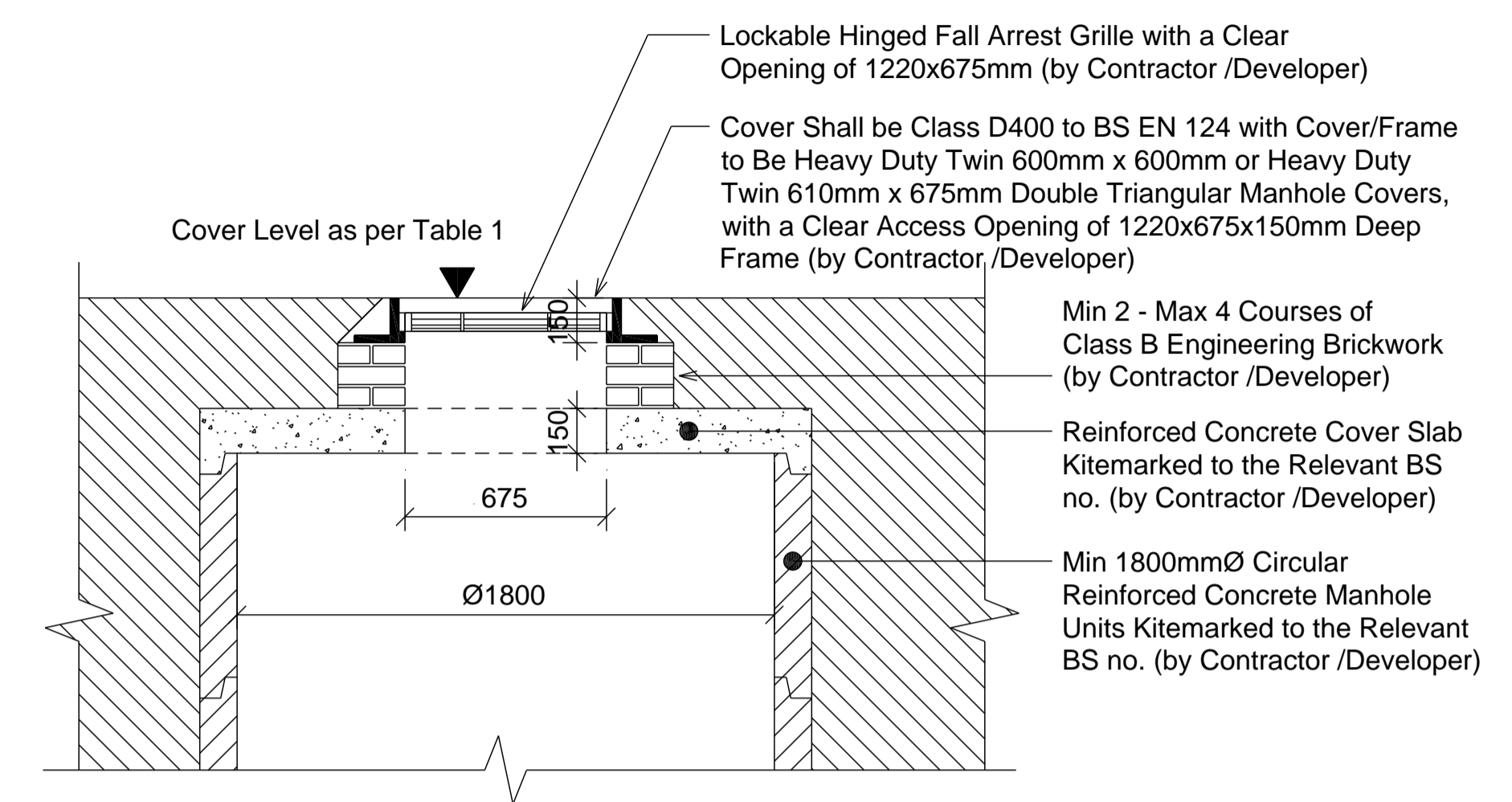
1 Turret Type A Section 1
1 : 20

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



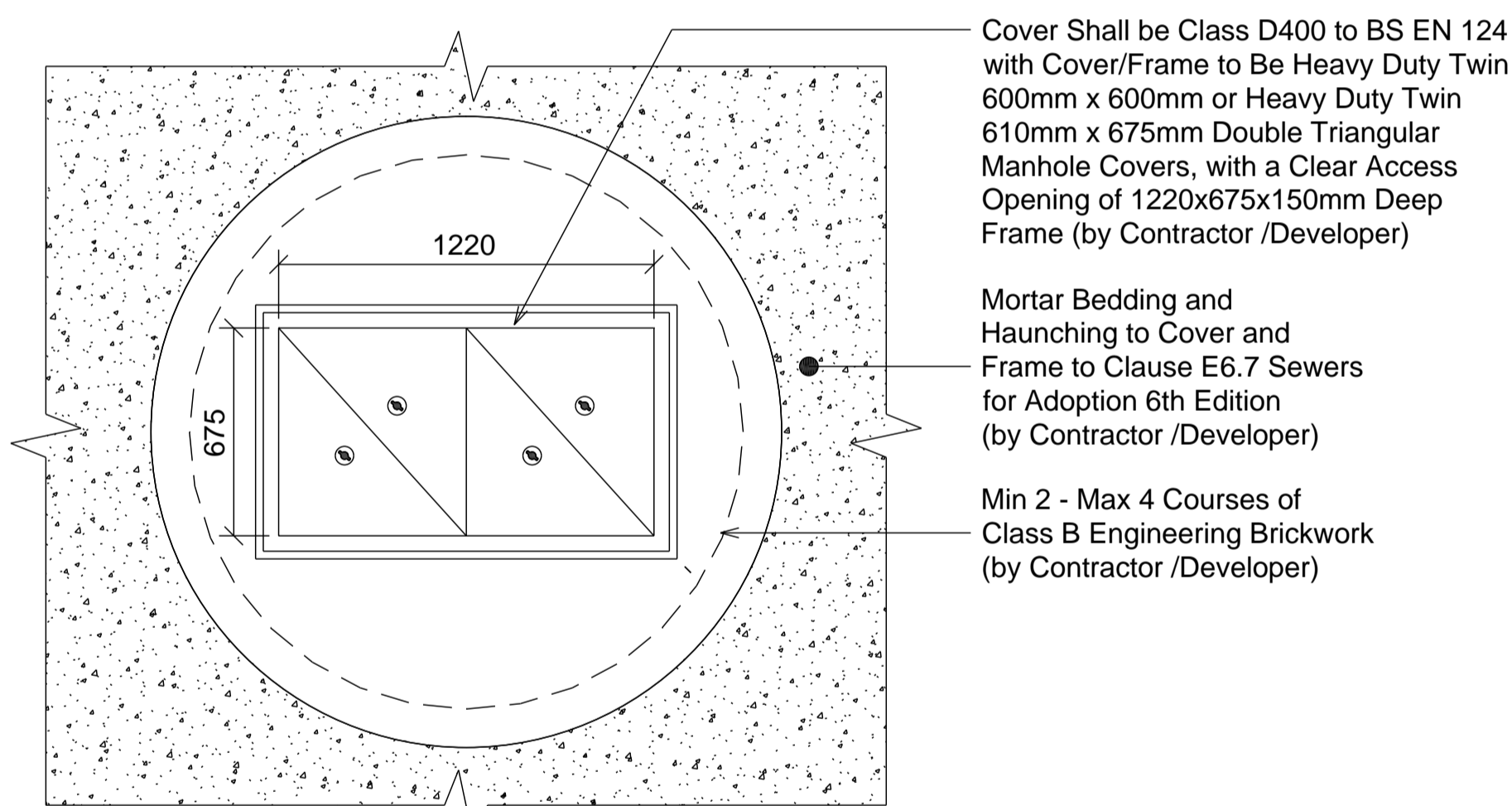
2 Turret Type B Section 1
1 : 20

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



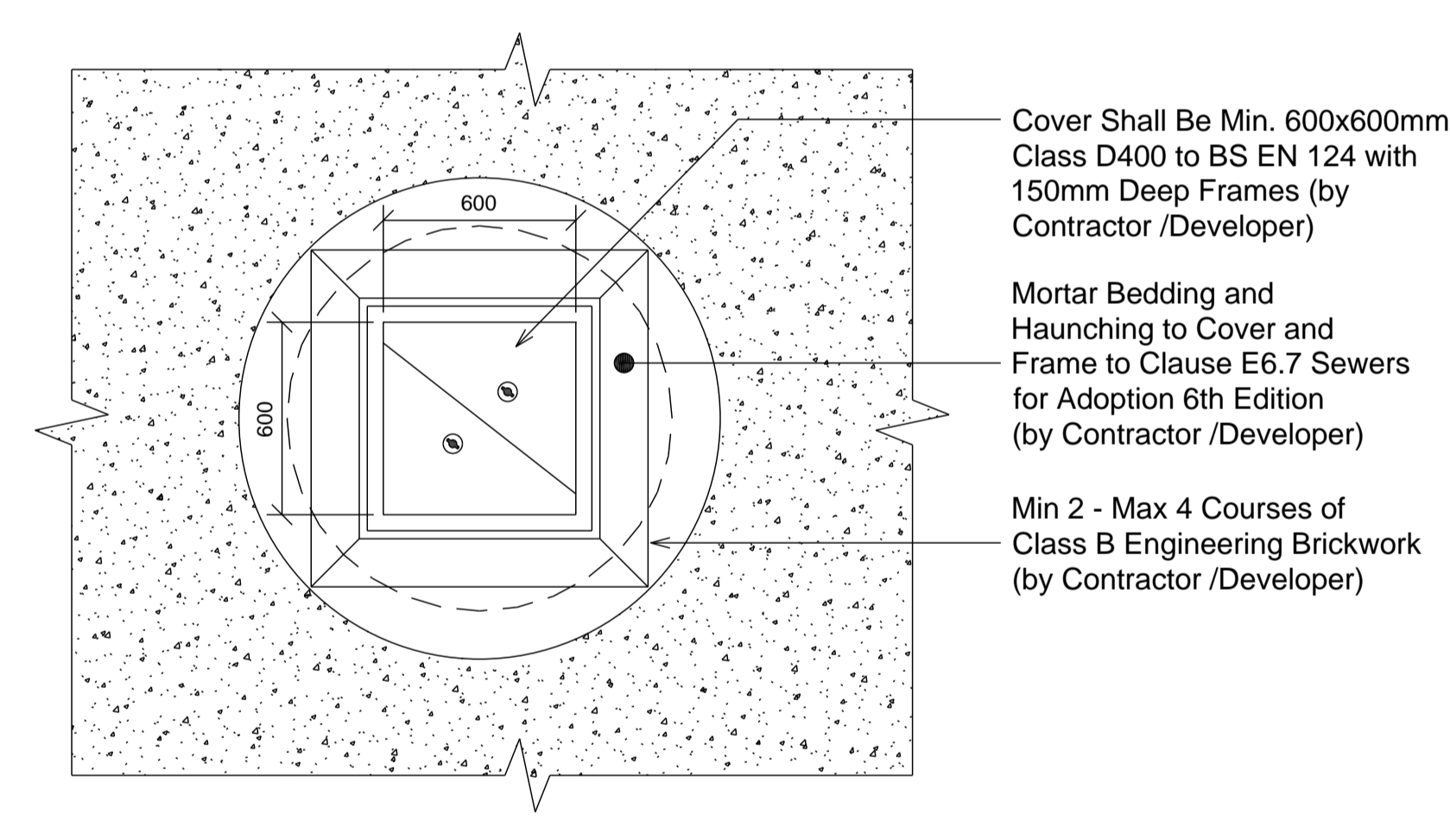
3 Turret Type A Section 2
1 : 20

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



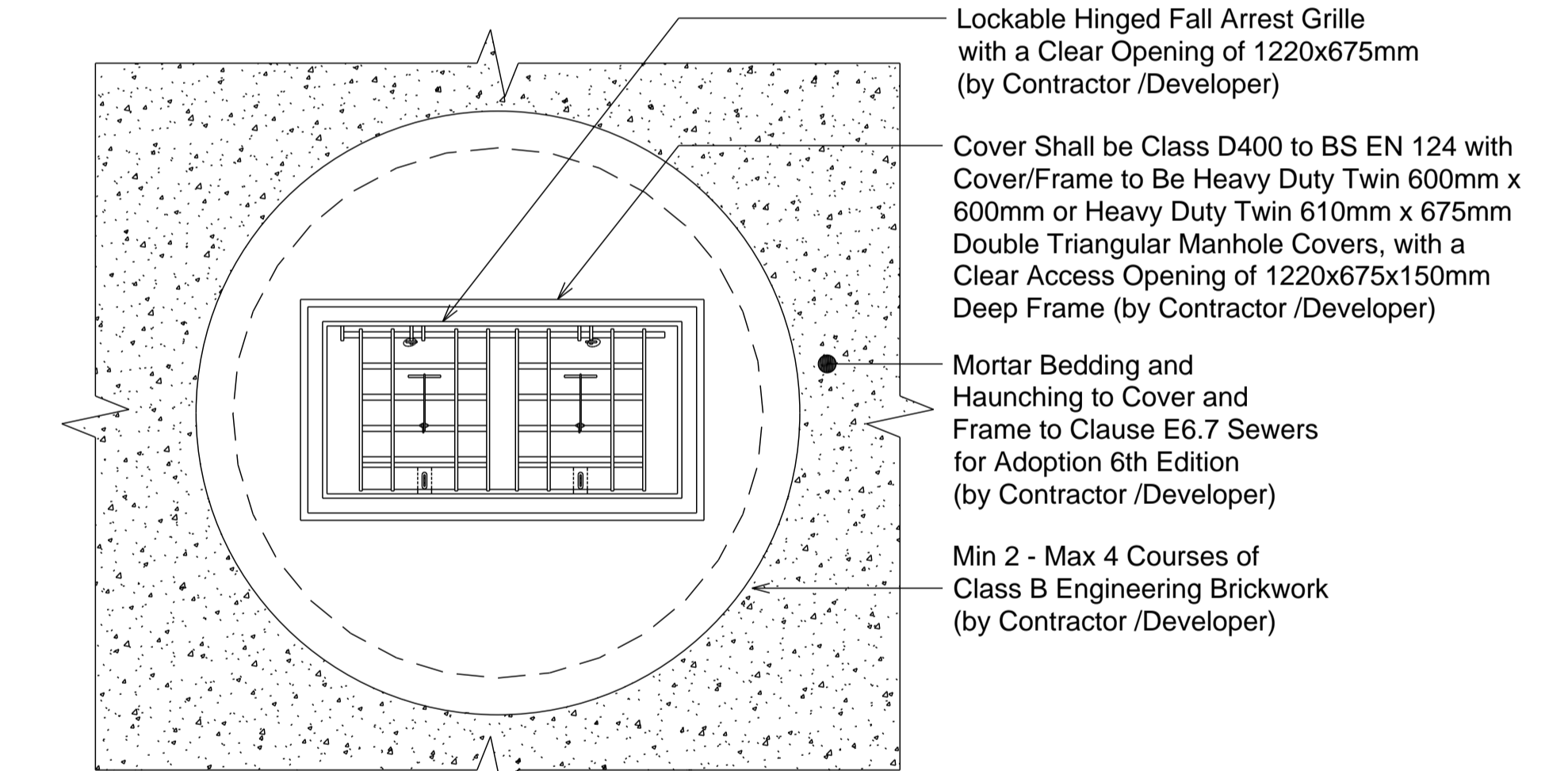
4 Turret Type A Plan 1
1 : 20

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	-206.128
2	B	-206.128
3	A	-206.128
4	B	-206.128
5	A	-206.128
6	B	-206.128
7	B	-206.128

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

FOR APPROVAL