



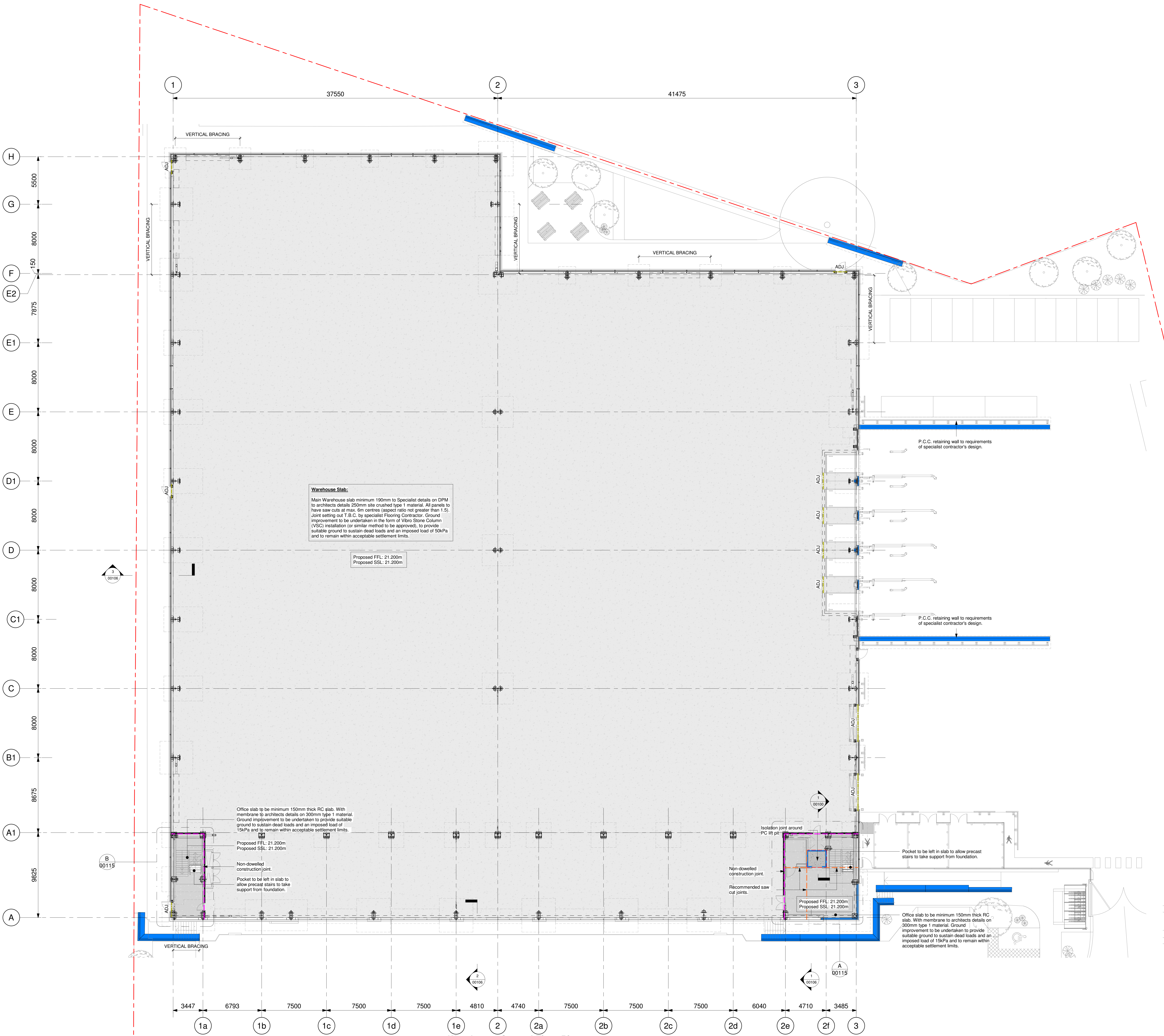
I 3.1 AS-BUILT DRAWINGS

Please note that all drawings below are hyperlinked to the drawings listed in the below register. Please click on the drawing title to go directly to the drawing you wish to view.

Drawing Register: Burrows Graham

ENGINEERS

DRAWING NUMBER	DRAWING TITLE	REV
P23025-BGL-XX-00-DR-S-00110	Ground Floor G.A.	AB
P23025-BGL-XX-00-DR-S-00115	Ground Floor Core Layouts	AB
P23025-BGL-XX-01-DR-S-00120	First Floor Office & Second Floor Plant Deck Layout	AB
P23025-BGL-XX-XX-DR-C-00200	Proposed Levels	AB
P23025-BGL-XX-XX-DR-C-00201	Proposed Earthworks	AB
P23025-BGL-XX-XX-DR-C-00205	Earthworks Specification Requirements	AB
P23025-BGL-XX-XX-DR-C-00210	Proposed Drainage Plan	AB
P23025-BGL-XX-XX-DR-C-00215	Slab & Pavement Specifications	AB
P23025-BGL-XX-XX-DR-C-00216	Joint Layout	AB
P23025-BGL-XX-XX-DR-C-00219	Kerbing Layout	AB
P23025-BGL-XX-XX-DR-C-00221	Drainage & External Details Sheet 1 Of 4	AB
P23025-BGL-XX-XX-DR-C-00222	Drainage & External Details Sheet 2 Of 4	AB
P23025-BGL-XX-XX-DR-C-00223	Drainage & External Details Sheet 3 Of 4	AB
P23025-BGL-XX-XX-DR-C-00224	Drainage & External Details Sheet 4 Of 4	AB
P23025-BGL-XX-XX-DR-S-00100	Foundation G.A.	AB
P23025-BGL-XX-XX-DR-S-00105	Foundation & Slab Typical Sections & Details	AB
P23025-BGL-XX-XX-DR-S-00106	Foundation & Slab Sections	AB



Ground Gas Protection
The site has been classified as Characteristic Situation 1 (CS1) within the WSP Phase II report dated June 2023. As such no gas protection measures are anticipated.

Ground Bearing Slab:
Slab to be ground bearing, design and construction in accordance with TR04 4th Edition, to be constructed to FME fitness and abrasion resistance AF2. Slab to be designed to support UDL of 50kPa or rack leg load of 90kN. Back to back leg loads to be allowed for at 300mm spacing. All point loads to be minimum 150mm from a joint, as defined in the client specification.
Slab reinforced with fabric mesh reinforcement, 50 bottom cover, min 400mm laps on membrane suitable to satisfy architectural and gas protection requirements on minimum 300 thk type 1 sub-base.
Allowance for Isedro or similar approved armoured joints.
Allowance for saw cuts at max 6m spacing.
Allowance for Fosroc Nicofor Liturus, or equivalent, sealer/hardener to be applied to the slab.
Formation to be a ground improved by suitable means to specialist details and based on Site Investigation reports.
Allowance to be made for any further testing/investigation to verify the ground improvement proposals.
Ground Improvement design is to ensure that residual settlements are limited to 25 mm and relative differential settlements are limited to 1/500.

Galvanised 200 SHS box perimeter edge beam to Specialist Steelwork details and to the Architects setting out.

Vertical Bracing:
Vertical Bracing locations as subject to Architectural & Steel Fabricator confirmation.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
IN ADDITION TO THE HAZARDOUS WORKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

CONSTRUCTION

MAINTENANCE

DEMOLITION

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

GENERAL NOTES:

- This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and performance and design specifications.
- This drawing is not to be scaled. All dimensions are in mm unless noted otherwise.
- All materials and workmanship to be in accordance with the requirements of the latest relevant Standards and Codes of Practice.
- All dimensions and setting out are to be confirmed by the Architect and checked on site. Any discrepancies to be reported to the Engineer.
- All reinforcement to be high yield (fy=500 N/mm²) to BS 4449. Steel fabric reinforcement to be to BS 4883.

Legend

- Armoured Day Joints - Permaban Alphajoint 4010.
- Non-dowelled Construction Joint.
- Site Boundary.

Slab thickness and joint layout shown indicatively, to be designed by specialist slab contractor.

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PANATTONI

HORTON ROAD POYLE

Ground Floor G.A.

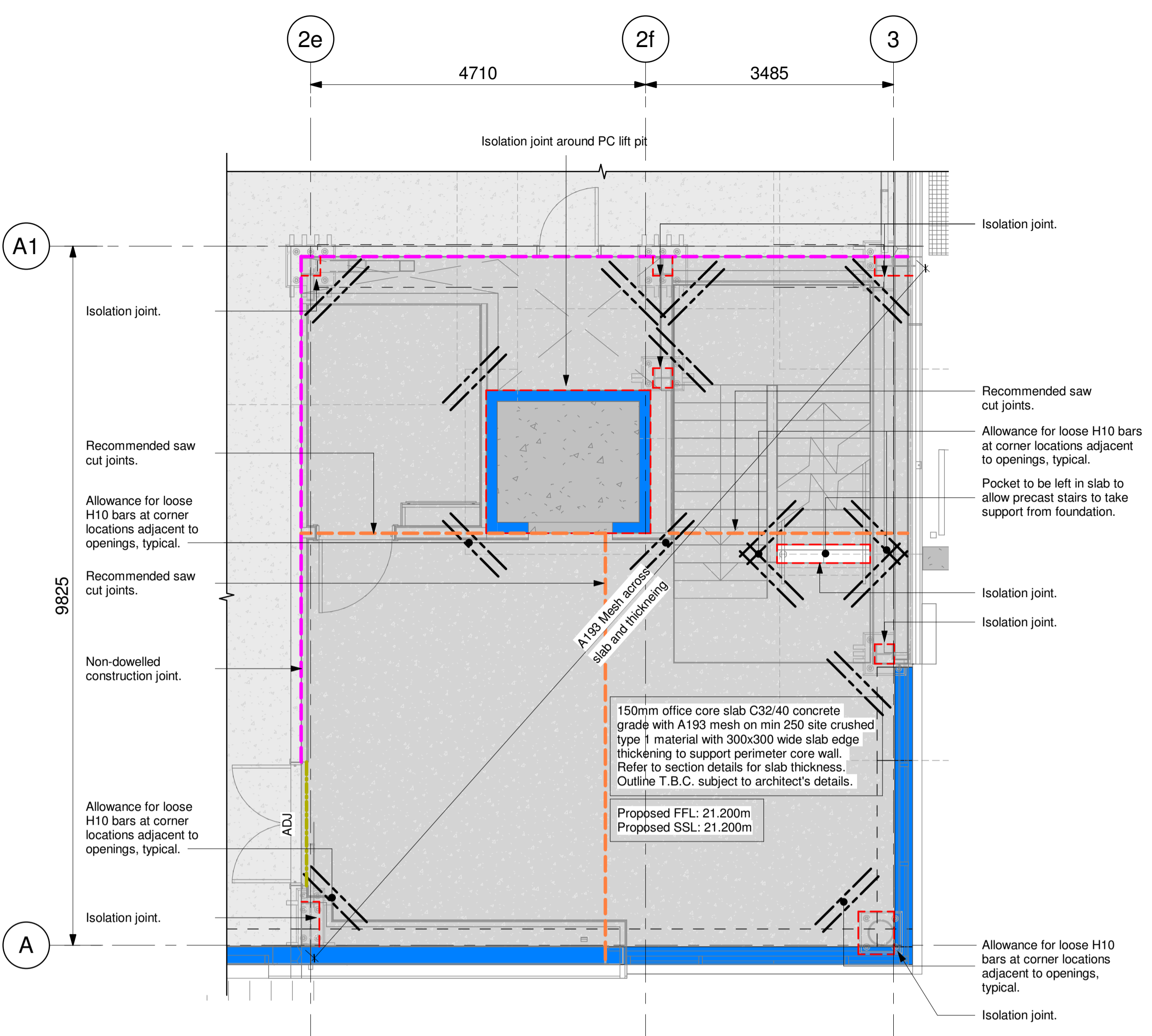
OUR PROJECT NUMBER	22232	DRAWING STATUS	FINAL CONSTRUCTION	OFFICE	SOUTH
SCALE @ AD	As indicated	DATE	05/12/23	DRAWN BY	DRB
DRAWING No				CHECKED BY	DB
				REV	
	P23025-BGL-XX-00-DR-S-00110				C01

CONSTRUCTION
MAINTENANCE
DEMOLITION

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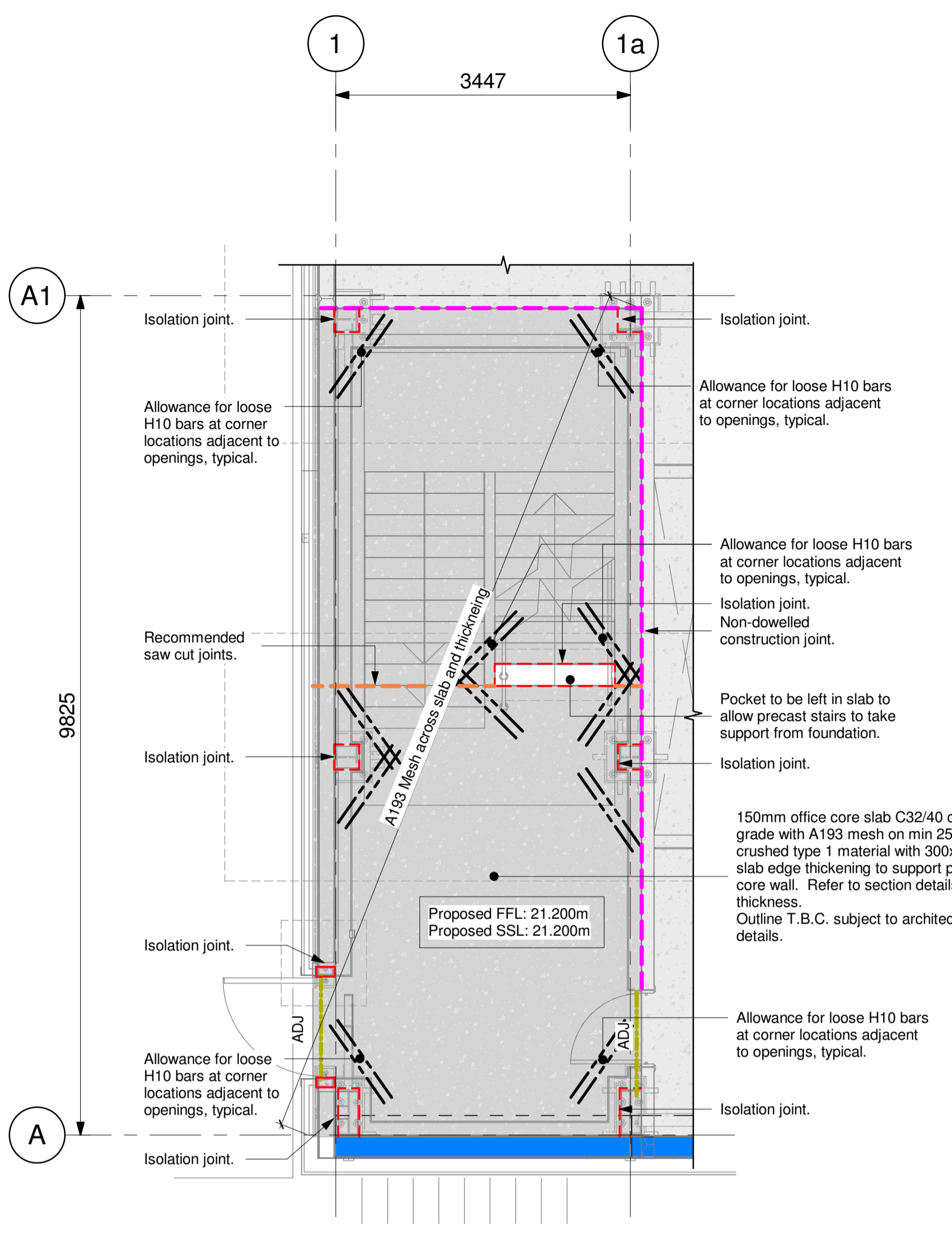
GENERAL NOTES:

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2. This drawing is not to be scaled. all dimensions are in mm unless noted otherwise.
3. All materials and workmanship to be in accordance with the requirements of the latest relevant Standards and Codes of Practice.
4. All dimensions and setting out are to be confirmed by the Architect and checked on site. Any discrepancies to be reported to the Engineer.
5. All reinforcement to be high yield (fy=500 N/mm²) to BS 4449. Steel fabric reinforcement to be to BS 4483.



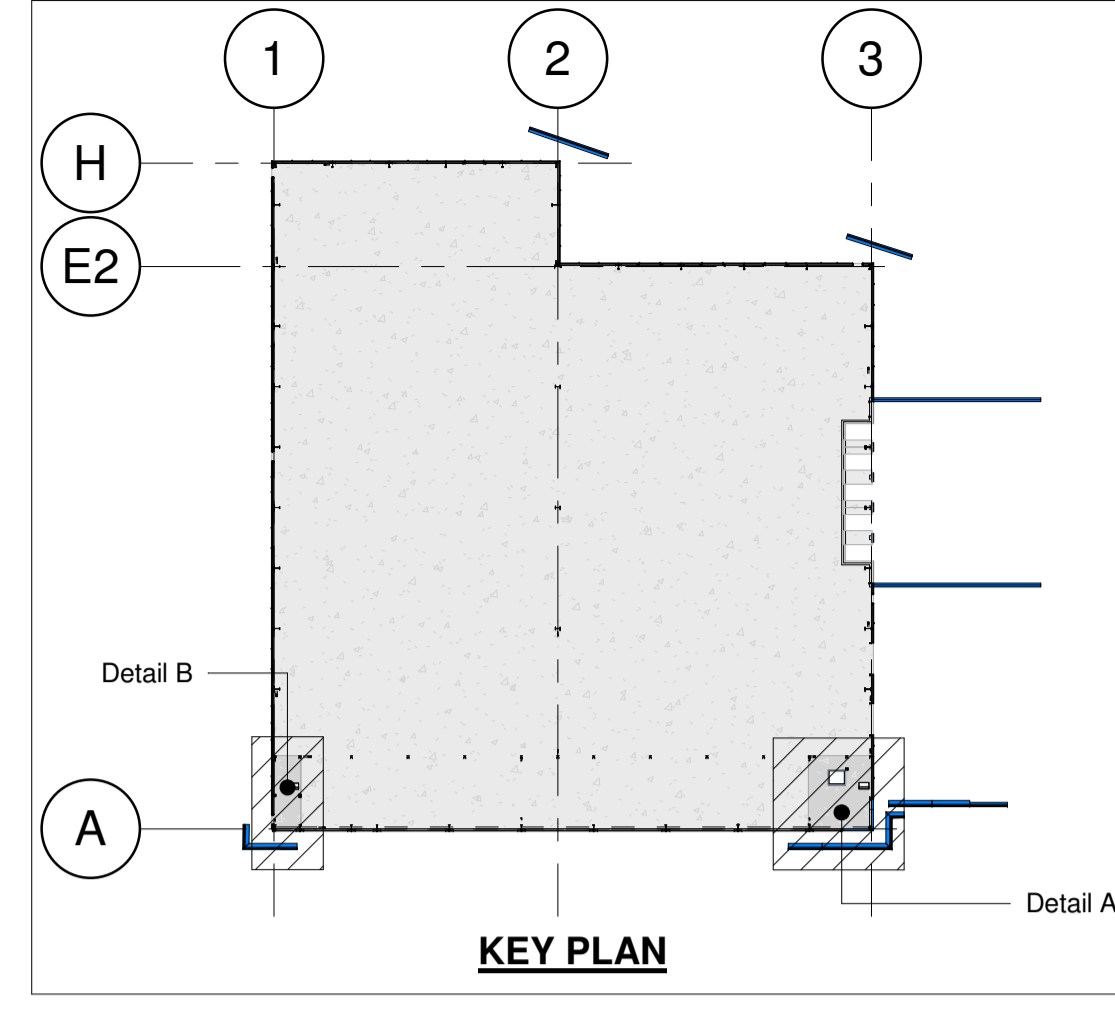
Detail A - Ground Floor Core Layout

1 : 50

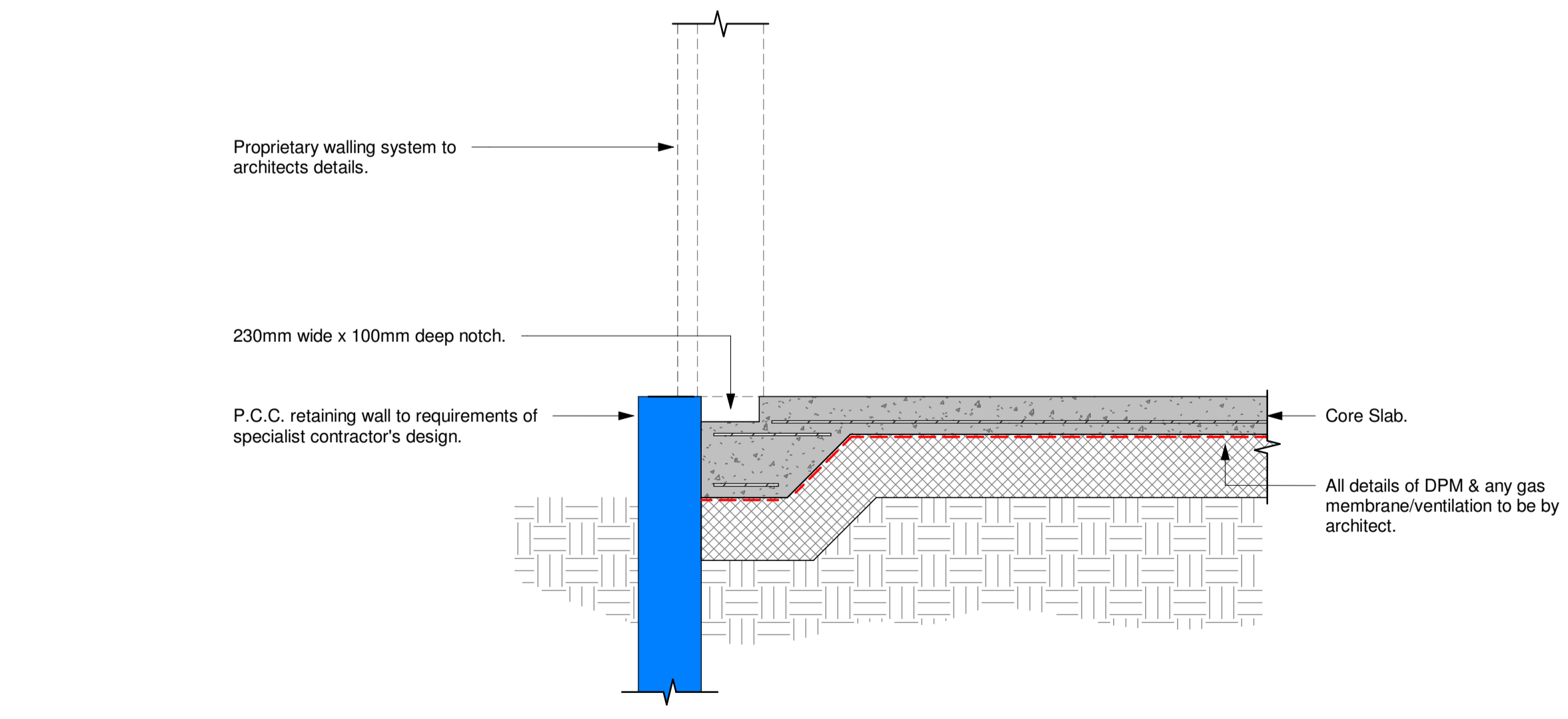


Detail B - Ground Floor Core Layout

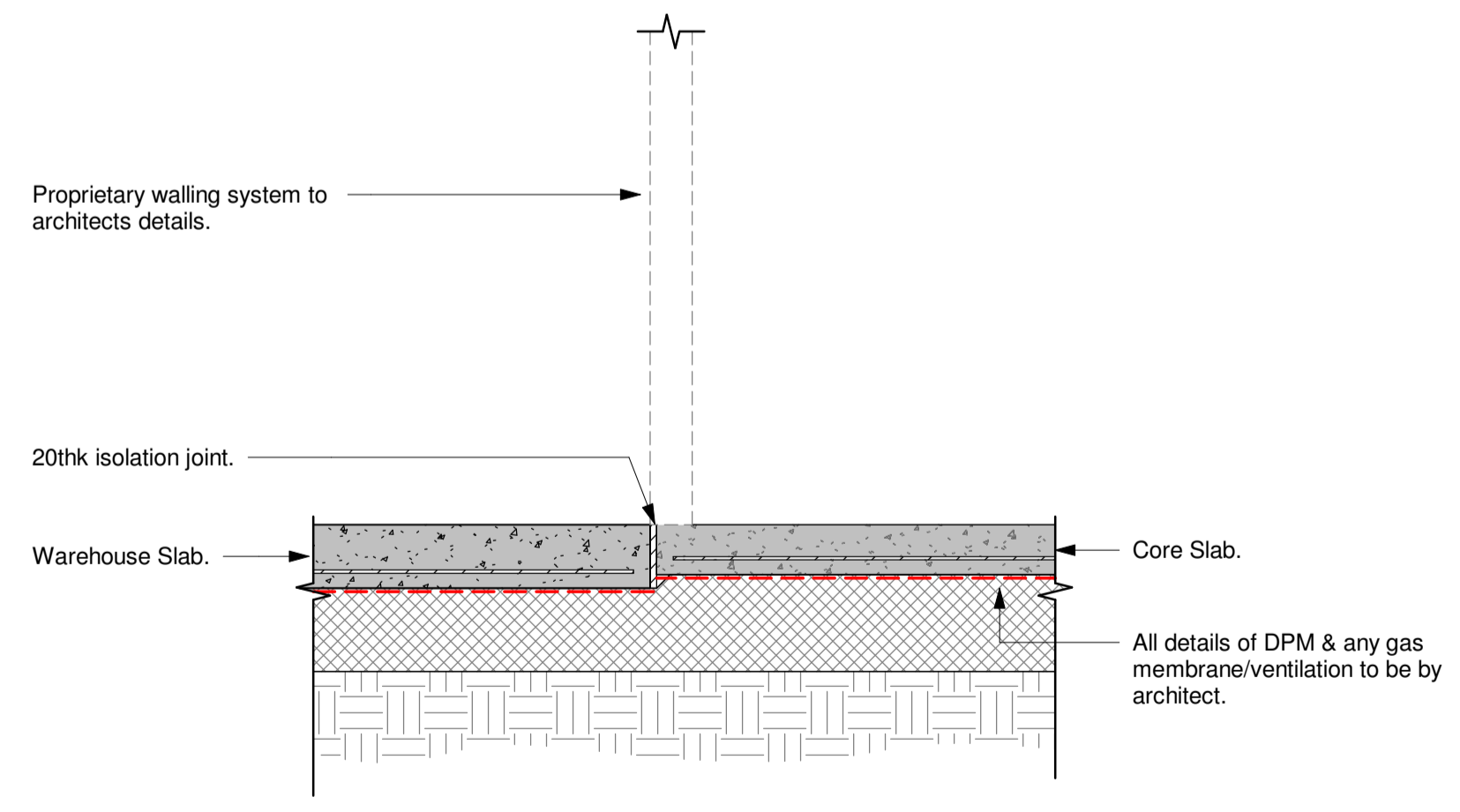
1 : 50



KEY PLAN



Typical Section Through Core Slab Edge



Typical Edge Detail at Junction of Office & Warehouse Slab

CO1	22/05/24	DRB	For Construction.	DB
PO1	05/12/23	DRB	Preliminary Issue.	DB
REV	DATE	BY	REVISION	CHK

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 North Office: 5 Ambassador Place, Stockport Road, Altrincham WA15 8DB. Tel:+44 (0)161 804 8046
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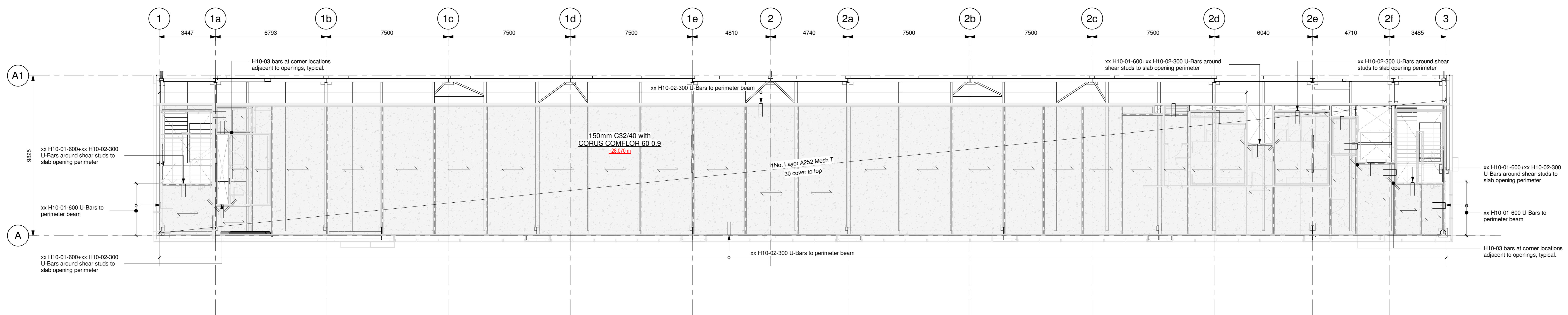
PROJECT
HORTON ROAD POYLE

DRAWING TITLE
Ground Floor Core Layouts

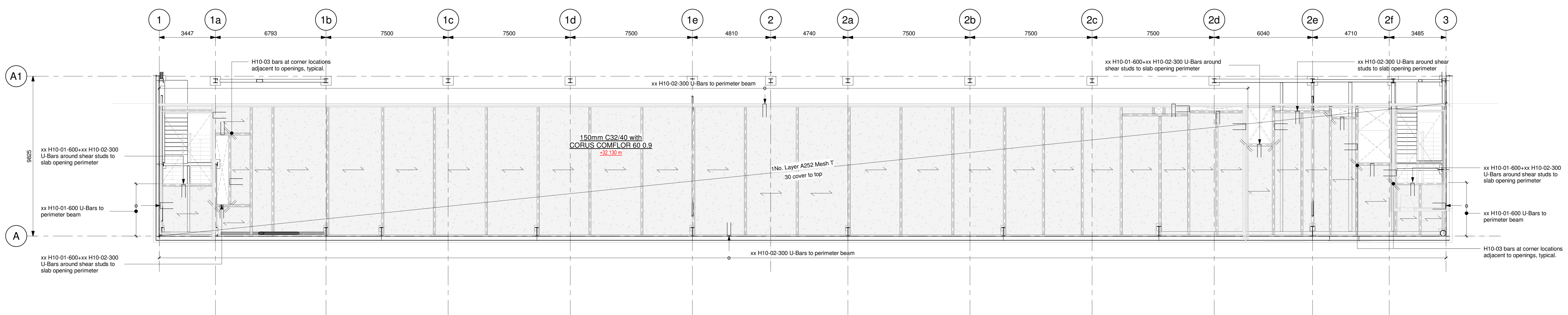
OUR PROJECT NUMBER 22232	DRAWING STATUS FINAL CONSTRUCTION	OFFICE SOUTH
SCALE @ A1 As indicated	DATE 05/12/23	DRAWN BY DBR CHECKED BY DB

DRAWING No P23025-BGL-XX-00-DR-S-00115	REV C01
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GENERAL NOTES:
 1. All dimensions are to be checked on site before the commencement of works. Work to figured dimensions only are to be taken from this drawing. Do not scale.
 2. Any discrepancies are to be reported to the Architect & Engineer for verification.
 3. This drawing is copyright of BGL and the sole property of BGL.
 4. Drawing to be read in conjunction with Architects drawings.
 5. Steelwork to be in accordance with BGL steelwork specification G10.
 6. Steelwork to be designed by specialist contractor in accordance with steelwork specification G10.
 7. Main structure frame loadings and deflection criteria are as stated in steelwork specification G10.
 8. Locations of vertical bracing are to be agreed with BGL.
 9. Information is in conjunction with architect's project reference: G1104.



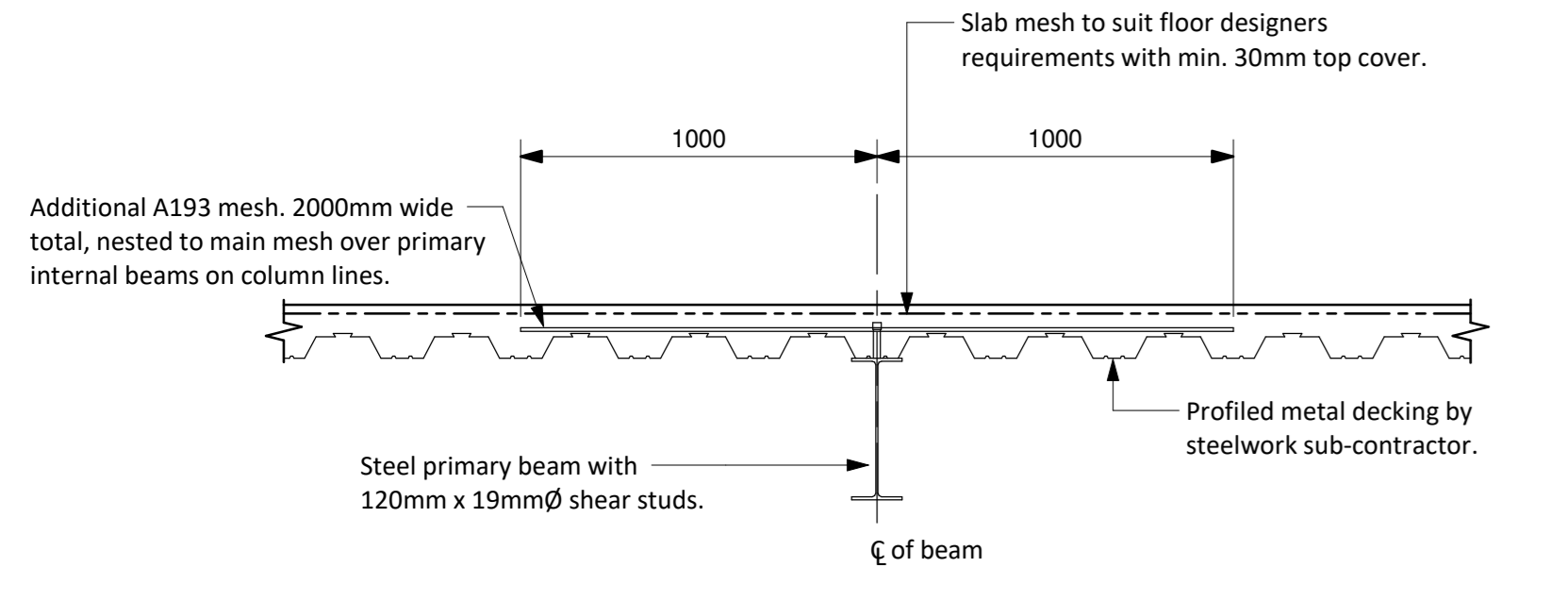
First Floor - Office Layout
 1 : 100



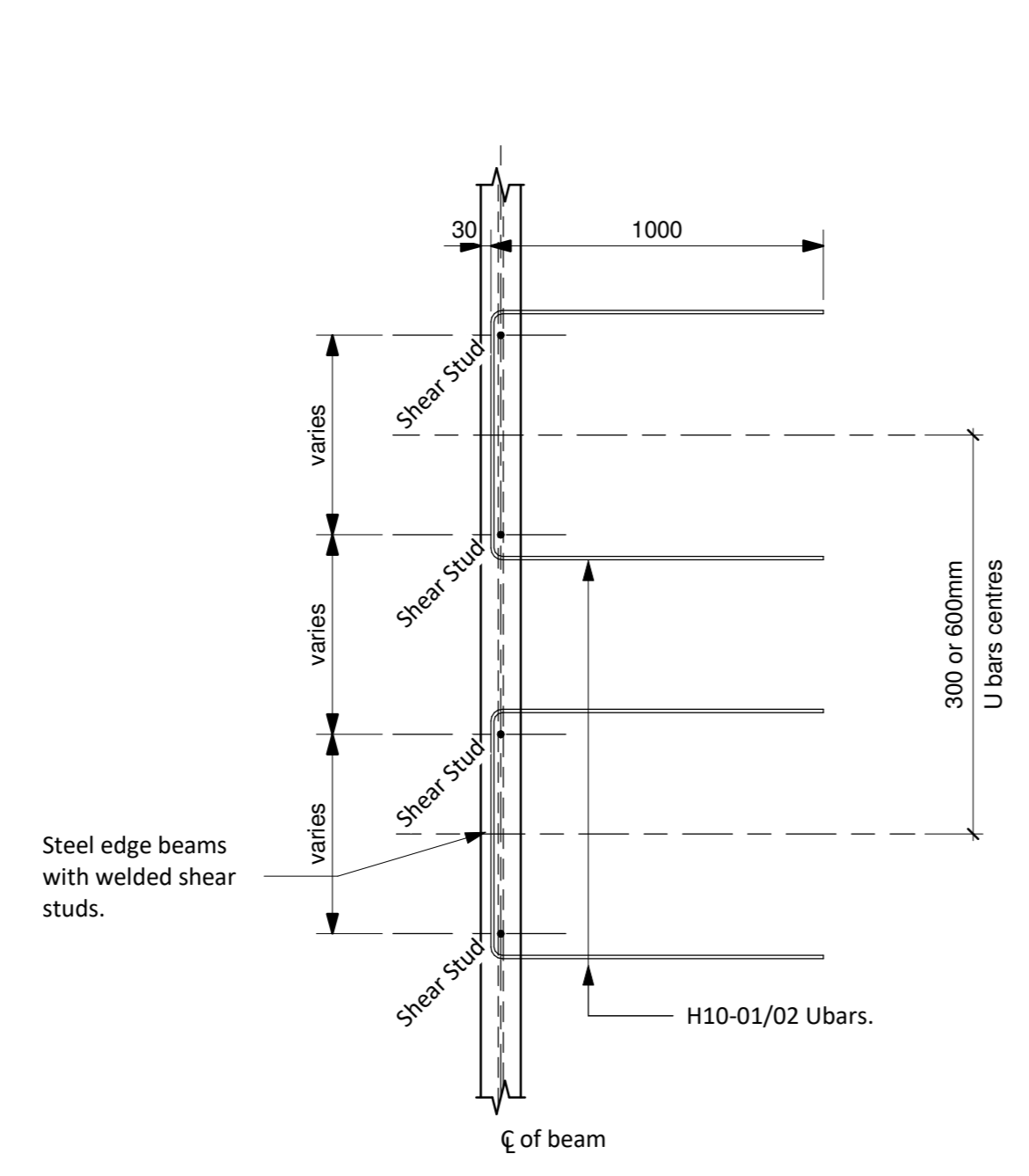
Second Floor - Plant Deck Layout
 1 : 100

BAR SCHEDULE													
MEMBER	BAR MARK	TYP & SIZE	No. OF MEMBERS	No. IN EACH	TOTAL No.	LENGTH (mm)	SHAPE CODE	A (mm)	B (mm)	C (mm)	D (mm)	E/R (mm)	REV.
FIRST FLOOR OFFICE FLOOR PLAN	01	H10	1	XX	XX	XXX	21	1000	XXX	(1000)			
	02	H10	1	XX	XX	XXX	21	1000	XXX	(1000)			
SECOND FLOOR PLANT DECK FLOOR PLAN	01	H10	1	XX	XX	XXX	21	1000	XXX	(1000)			
	02	H10	1	XX	XX	XXX	21	1000	XXX	(1000)			
	03	H10	1	16	16	1000	00	1000					

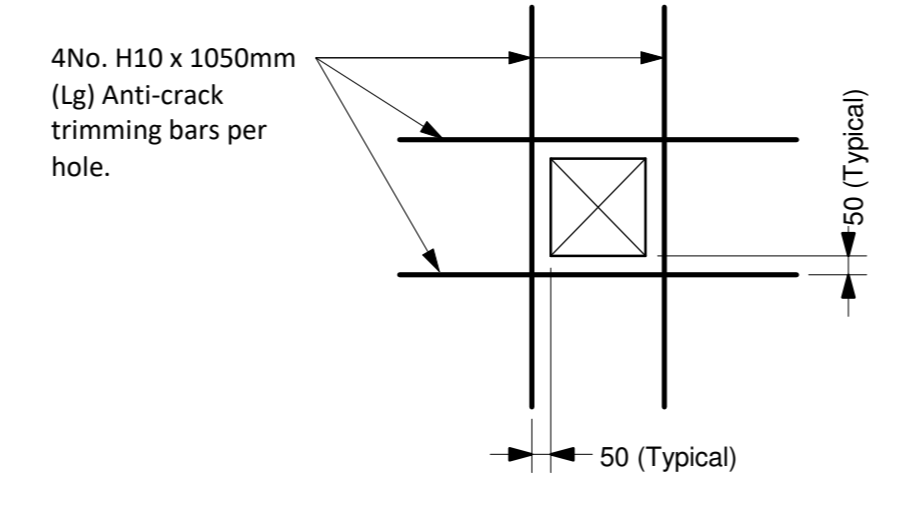
Floor mesh to deck designers specification - 30mm cover
 Mesh to be provided with flying ends to avoid congestion at laps
 Number of perimeter U-bars will depend on shear stud spacing. TBC by steel frame designer.



Typical Section Through Transverse Reinforcement

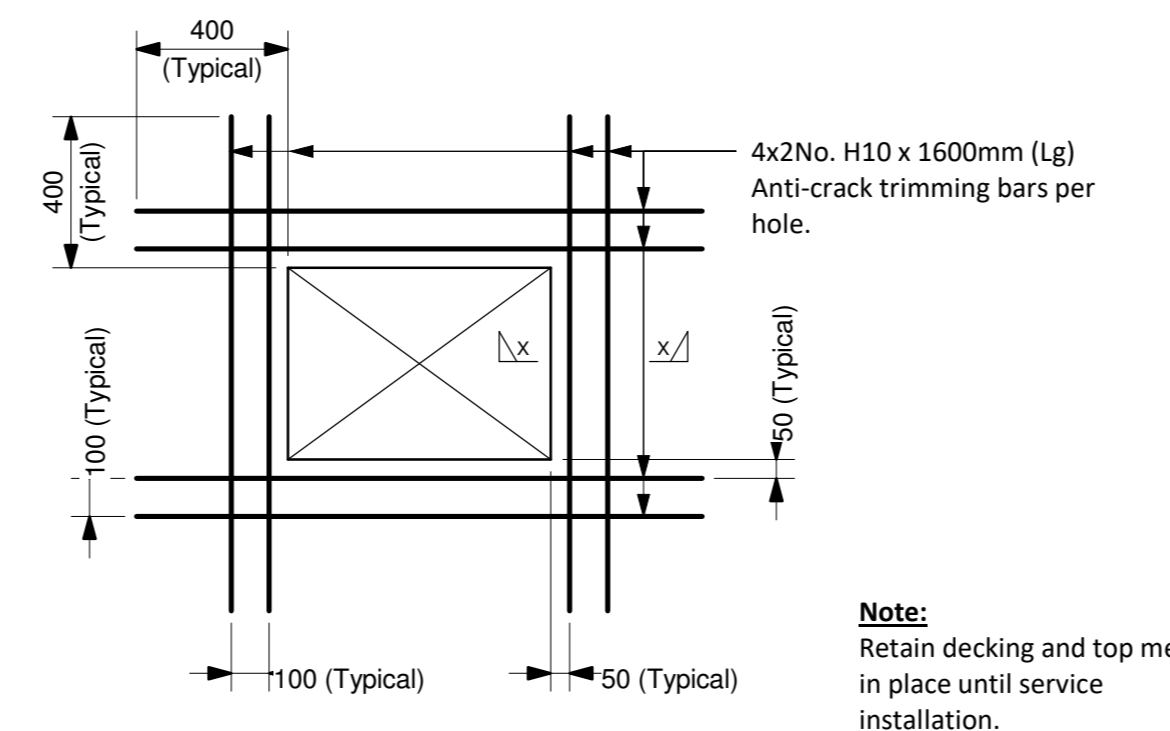


Plan on Steel Edge Beams



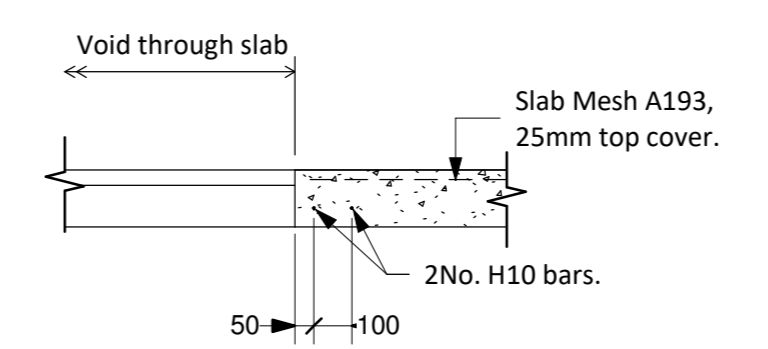
Typical Plan on Service Openings in Slabs Type 01

[Openings less than 250mm]

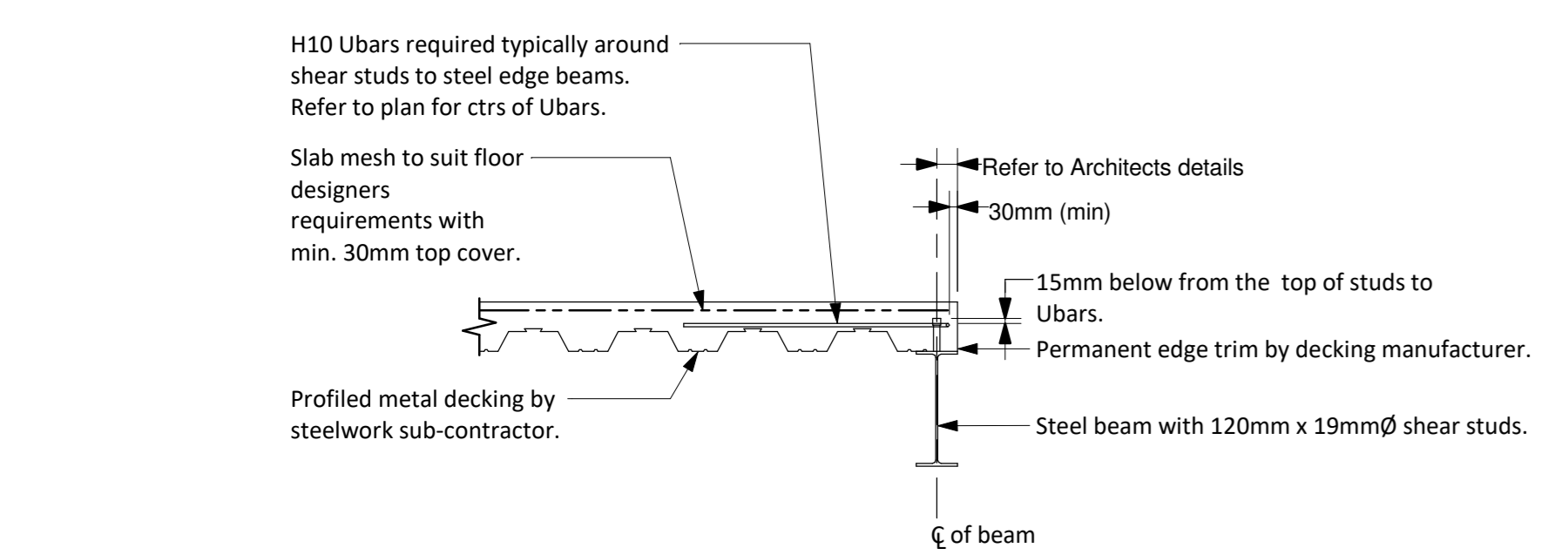


Typical Plan on Service Openings in Slabs Type 02

[Openings 250-700mm Max]



Section X - X



Typical Section Through Edge Beams

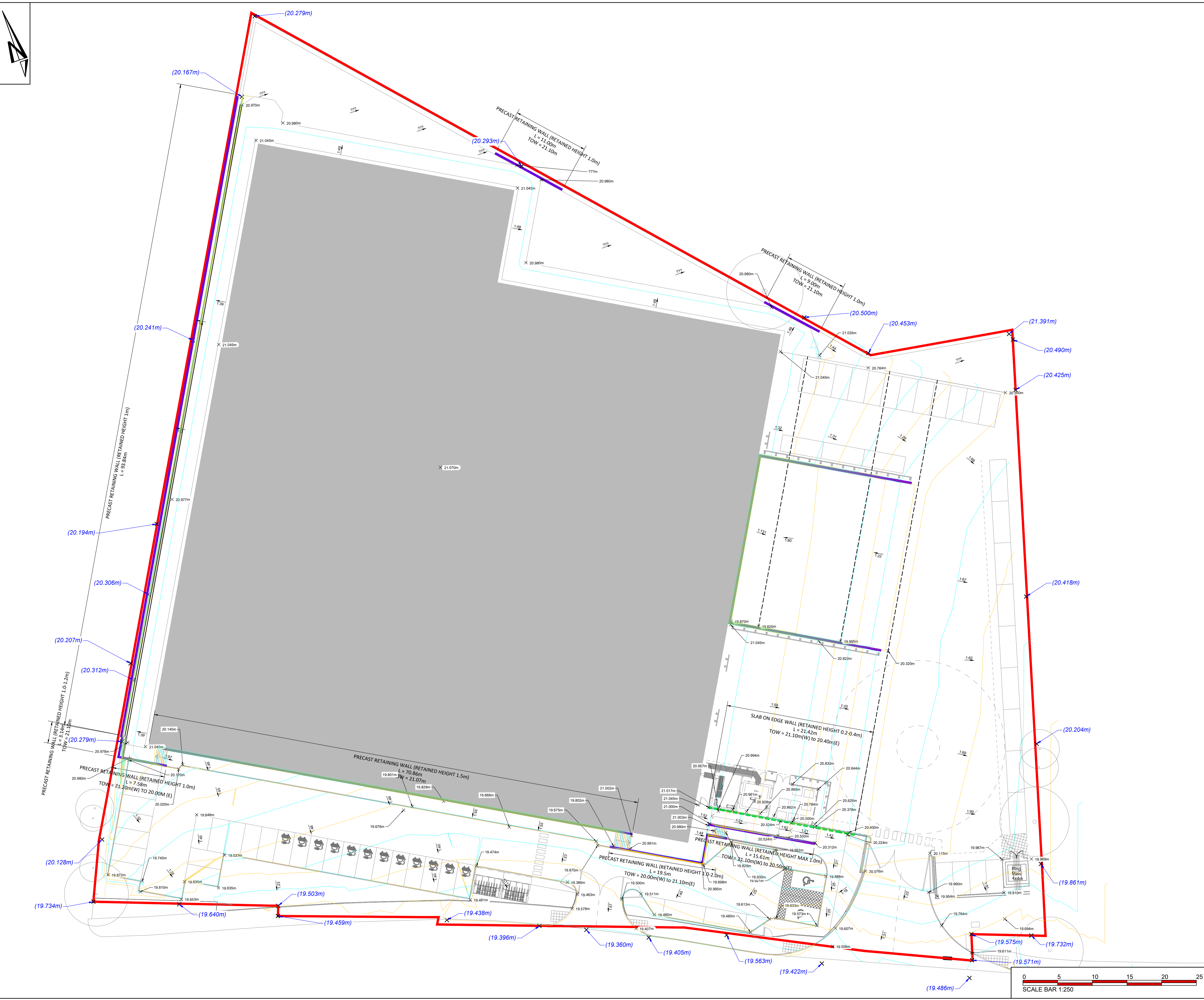
1st Floor & Plant Deck Slab Specification
 150mm thick grade C28 / 35 concrete slab to BS EN 206-1 and BS 8500 reinforced with 1 layer A252 fabric reinforcement with 30mm top cover (400mm min laps to reinforcement) on profiled metal decking by steelwork sub-contractor. Additional reinforcement to be provided where required by steelwork contractor for composite beam design.
 Slabs to be designed and constructed in accordance with guidance in Concrete Society TR75.
 Imposed Loading: Office = 4 + 1kPa, Plant = 7.5kPa
 Surface flatness SR2 to BS8204-2.
 Construction stage deflections to be considered in design of steelwork and slabs.
 ↙ Denotes span direction of profile steel decking.

CO1	26/07/24	DRB	Final Construction	DB
PO1	05/12/23	DRB	Preliminary Issue	DB
REV	DATE	BY	REVISION	CHK

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PANATTONI
 PROJECT: HORTON ROAD POYLE

DRAWING TITLE			
First Floor Office & Second Floor Plant Deck Layout			
OUR PROJECT NUMBER	DRAWING STATUS	OFFICE	
22232	FINAL CONSTRUCTION	SOUTH	
SCALE @ AD	DATE	DRAWN BY	CHECKED BY
As indicated	05/12/23	DRB	DB
DRAWING No	REV		
P23025-BGL-XX-01-DR-S-00120	CO1		



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IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

CONSTRUCTION
1. ADD RESIDUAL RISKS HERE

MAINTENANCE
1. ADD RESIDUAL RISKS HERE

DEMOLITION
1. ADD RESIDUAL RISKS HERE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

GENERAL NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL THE RELEVANT ARCHITECTS, ENGINEERS' AND SERVICE ENGINEERS DRAWINGS & SPECIFICATIONS.
- BASED ON GREENHATCH GROUP TOPO SURVEY GH6963 (21/02/2020) AND UMC ARCHITECTS LAYOUT 22400-UMC-EX-00-DR-A-601 REV C01.

Key:

- Site Boundary
- Existing Level
- Proposed Level
- Proposed Slope
- Precast Retaining Wall
- Existing Retaining Wall
- Slab on Edge Detail
- Slab thickening
- Proposed Contour Minor 0.1m
- Proposed Contour Major 0.5m

REV	DATE	BY	DESCRIPTION	CHK'D
C05	11/09/24	DJB	FINAL CONSTRUCTION	DB
C04	02/08/24	SN	Ramp levels amended	DB
C03	05/06/24	SN	LEVELS AMENDED	DB
C02	15/05/24	DRD	SITE LAYOUT UPDATED	DB
C01	06/03/24	DRD	SITE LAYOUT UPDATED	DB
P03	22/02/24	DRD	SITE LAYOUT UPDATED	DB
P02	26/01/24	DRD	SITE LAYOUT UPDATED	DB
P01	01/12/23	SN	FIRST ISSUE	RM

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PROJECT

HORTON ROAD, POYLE

DRAWING TITLE

PROPOSED LEVELS

OUR PROJECT NUMBER 22232	DRAWING STATUS CONSTRUCTION	OFFICE SOUTH
SCALE @ A1 1:250 @A1	DATE 12/01/23	DRAWN BY DRD
DRAWING No P23025-BGL-XX-XX-DR-C-00200	CHECKED BY RM	REV C05

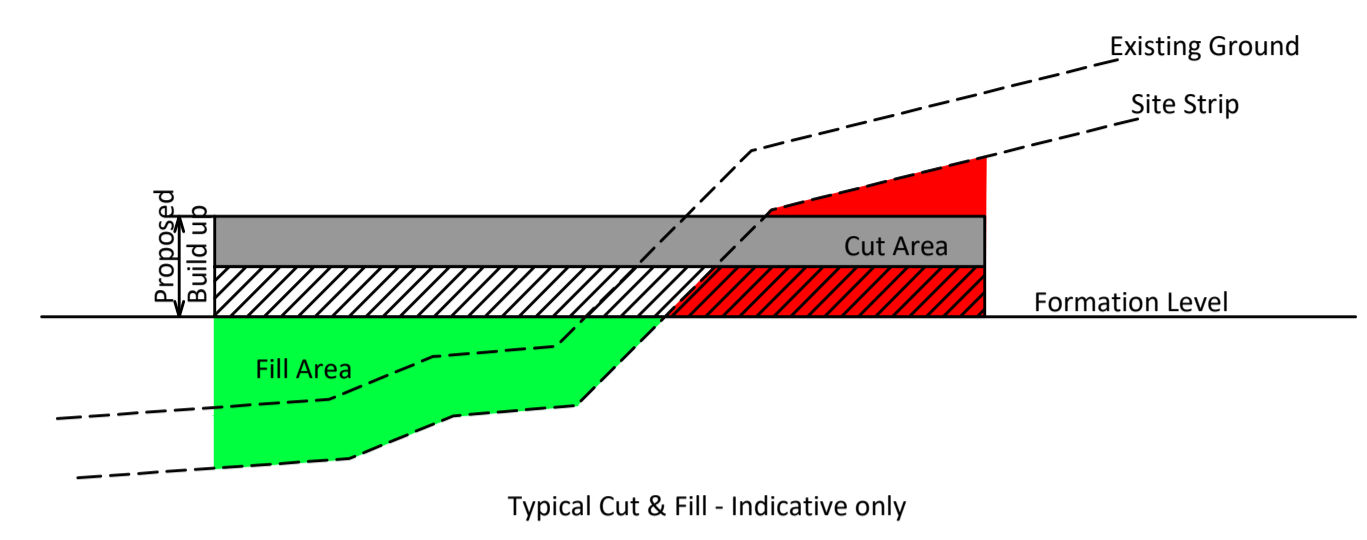


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2D Area	Cut	Fill	Net
CF - SITE STRIP TO FORMATION	1.000	1.000	12856.098sq.m	1404.261 Cu. M.	4409.640 Cu. M.	3005.378 Cu. M.<Fill>
Totals			12856.098sq.m	1404.261 Cu. M.	4409.640 Cu. M.	3005.378 Cu. M.<Fill>

Key:

- Site Boundary
- Precast Retaining Wall
- x (00.00) Existing Level



SURFACE LEVEL DATA			
NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
1	-3.00	-2.50	
2	-2.50	-2.00	
3	-2.00	-1.50	
4	-1.50	-1.00	
5	-1.00	-0.50	
6	-0.50	0.00	
7	0.00	0.50	
8	0.50	1.00	
9	1.00	1.50	

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

CONSTRUCTION
1. SERVICES RUNNING THROUGH SITE, ASSUMED LIVE UNTIL CONFIRMED DISCONNECTED.

MAINTENANCE

DEMOLITION

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

NOTES:

1. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORKS. WORK TO FIGURED DIMENSIONS ONLY. DO NOT SCALE OFF THIS DRAWING. ANY DISCREPANCIES ARE TO BE REPORTED TO THE BURROWS GRAHAM FOR CLARIFICATION.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BURROWS GRAHAM DRAWINGS AND SPECIFICATIONS
 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL AND M&E SERVICES DRAWINGS AND SPECIFICATIONS.
 4. THIS DRAWING IS BASED ON "UMC ARCHITECTS" DRAWING NO 22400-UMC-ZZZZ-SI-DR-A-601 REV P05
 5. THIS DRAWING IS BASED ON "GREENHATCH GROUP" DRAWING NO GH6963 DATED 21/02/2020. NO ALLOWANCE HAS BEEN MADE FOR ANY CHANGES IN GROUND PROFILE AFTER DATE OF SURVEY.
 6. PROPOSED SURFACE LEVELS ARE SHOWN ON BURROWS GRAHAM DRAWING NO. 22302-BGL-XX-XX-DR-C-00200.
 7. CONTOURS ARE SHOWN AT 100mm INTERVALS
 8. IT IS ASSUMED THAT A 200mm DEEP LAYER OF CONCRETE SLAB/ASPHALT MATERIAL WILL BE STRIPPED PRIOR TO COMMENCEMENT OF EARTHWORKS. ACTUAL DEPTH OF STRIP WILL VARY TO SUIT ACTUAL DEPTH OF MATERIAL. THIS WILL AFFECT FINAL EARTHWORKS VOLUMES.
- STRIP VOLUME -
12395m² X 0.2m = 2479m³ (RE-USE SUBJECT TO SUITABILITY)
9. THE FOLLOWING CONSTRUCTION BUILD-UPS ARE ASSUMED FOR THE PURPOSES OF EARTHWORKS VOLUME CALCULATION ONLY. THESE BUILD-UPS ARE NOT TO BE USED FOR PRICING PAVEMENT/SUB-BASE/CAPPING LAYERS FOR ACTUAL DEPTHS OF PAVEMENT/SUB-BASE/CAPPING LAYERS REFER TO BURROWS GRAHAM PAVEMENT DRAWING/SPECIFICATION.
 - BUILDING FOOTPRINT 500mm
 - CAR-PARK 450mm
 - SERVICE YARD 500mm
 - FOOTPATHS 350mm
 10. NO ALLOWANCE HAS BEEN MADE FOR BULKING OF MATERIALS OR FOR USE OR ARISING FROM GROUND-WORKS (FOUNDATIONS, DRAINAGE ETC).
 11. EARTHWORKS SLOPES ARE ASSUMED TO BE 1:3 FOR THE PURPOSES OF VOLUME CALCULATION ONLY AND THIS IS SUBJECT TO DETAILED GEOTECHNICAL ASSESSMENT PRIOR TO CONFIRMING FINAL LEVELS.
 12. VOLUMES ARE CALCULATED AS THE DIFFERENCE BETWEEN:
 - GROUND LEVEL AFTER TOPSOIL/SURFACE MATERIAL STRIP
 - UNDERSIDE OF CONSTRUCTION BUILD-UP
 13. ALL VOLUMES STATED ON THIS DRAWING ARE BASED ON PRELIMINARY CALCULATION BY BURROWS GRAHAM AND SHOULD BE VERIFIED/FINALISED BY THE EARTHWORKS CONTRACTORS OWN CALCULATIONS/MODELLING.

REV	DATE	BY	DESCRIPTION	CHK'D
C01	11.09.24	DJB	Final Construction	RM
P01	01.12.23	SN	Preliminary Issue	RM

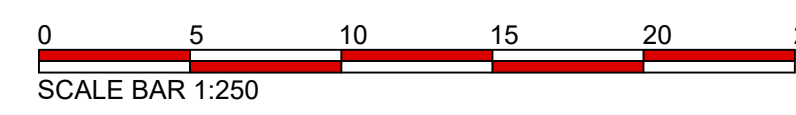
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 Buckland House, Dower Mews,
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 Tel: +44 (0)1442 508 402

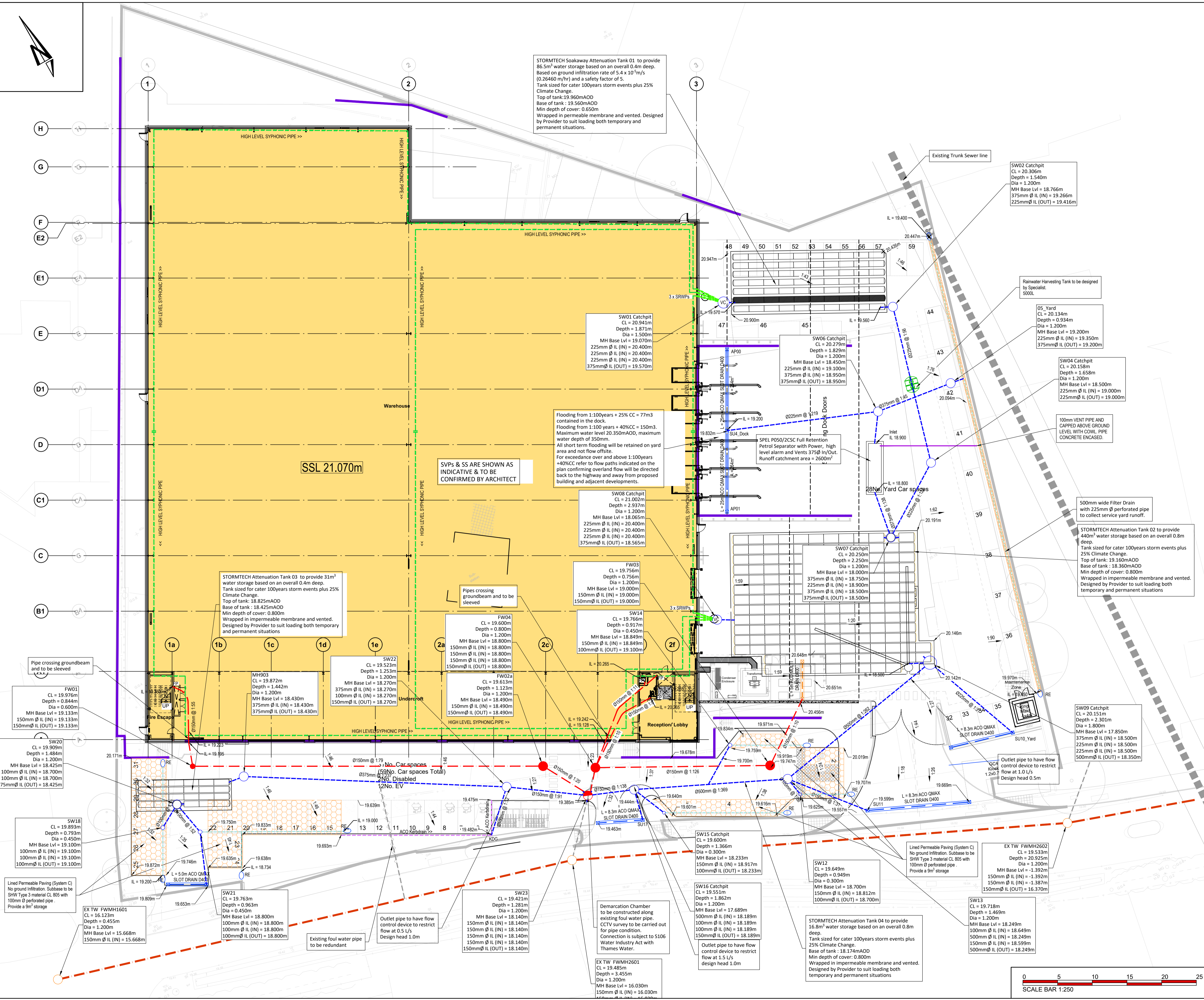
CLIENT
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PROJECT
HORTON ROAD, POYLE

DRAWING TITLE
PROPOSED EARTHWORKS

OUR PROJECT NUMBER 22232	DRAWING STATUS CONSTRUCTION	OFFICE SOUTH
SCALE @ A1 1:250 @A1	DATE 13/01/23	DRAWN BY DRD
DRAWING No P23025-BGL-XX-XX-DR-C-00201	CHECKED BY RM	REV C01





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- BASED ON GREENHATCH GROUP TOPO SURVEY GH6963 (21/02/2020) AND UMC ARCHITECTS LAYOUT 22400-UMC-ZZZZ-SI-DR-A-601.
- Average ground water level based on the SI is 19.50m AOD

KEY:

- Site Boundary
- S.S.L. ??,??m Proposed Building Level
- SWMH Proposed Surface Water pipe & Chamber
- FWMH Proposed Foul Water pipe & Chamber
- Existing Foul Water Pipe
- Proposed Syphonic Pipe
- Proposed Slot Drain & Sump Unit
- Proposed Foul Water Channel
- Proposed Kerb Drain
- Proposed Kerb Drain Gully
- Proposed porous paving block
- Filter Drain with Perforated Pipe
- Proposed yard slope
- Rodding Eye
- Foul Water Pops Up
- Backdrop
- Trapped Bin Gully
- Public Sewer Lines
- EX MH Existing Foul Water pipe & Chamber

NO	DATE	BY	DESCRIPTION	CHK'D
C03	11.09.24	DJB	FINAL CONSTRUCTION	RM
C02	02.07.24	SN	As-Built information added	RM
C01	08.03.24	SN	Foul Water lateral pipes Issue for Construction	RM
P03	15.01.24	SN	Drainage strategy amended to suit design levels	RM
P01	05.12.23	SN	Attenuation Tanks Spec amended	RM
P01	01.12.23	SN	Preliminary Issue	RM

Burrows Graham

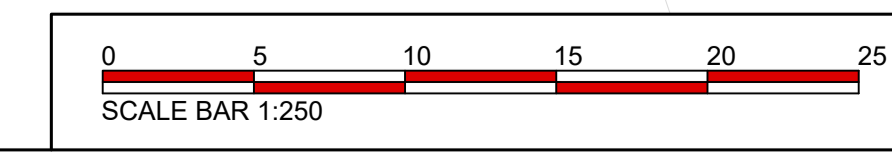
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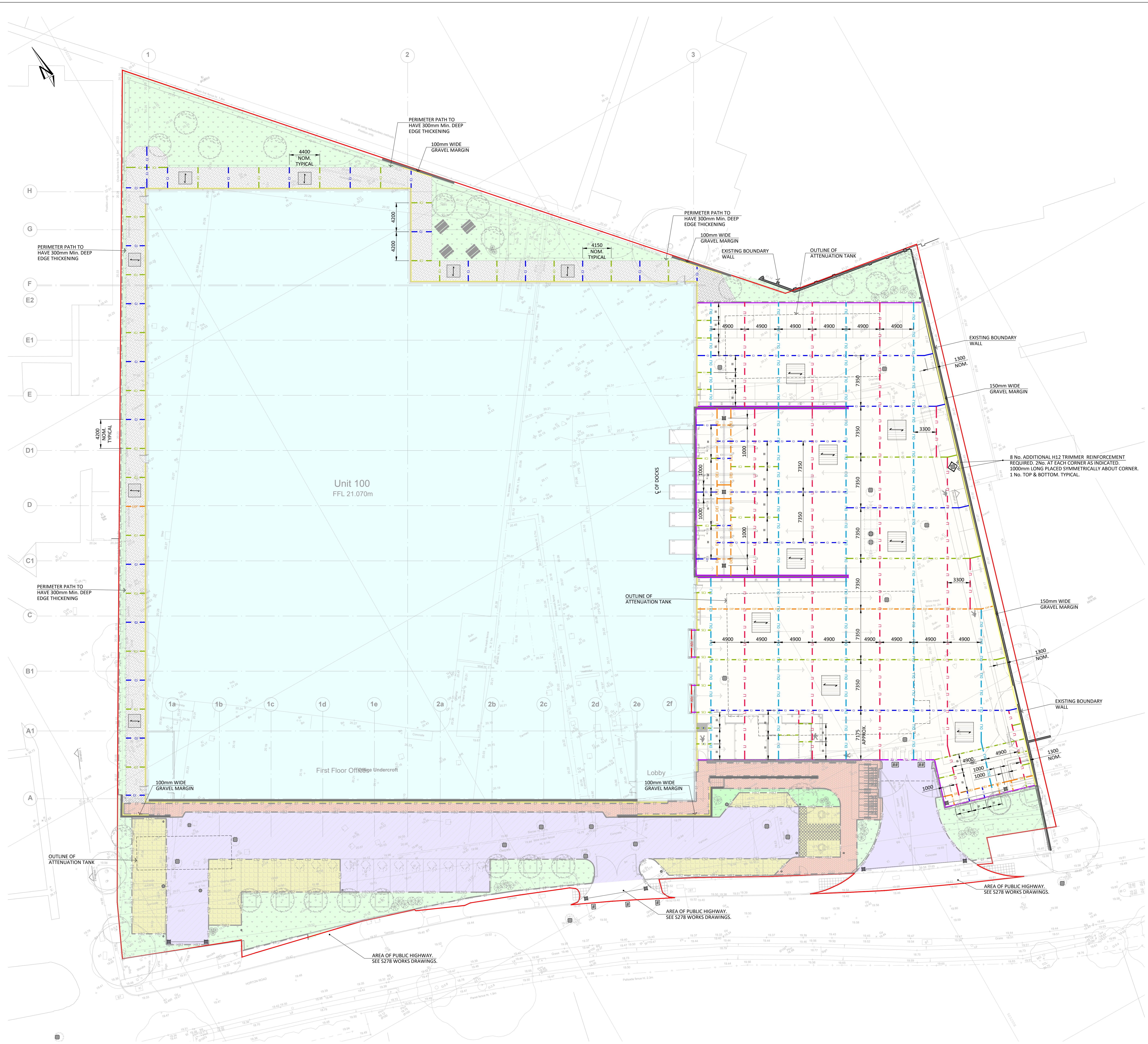
South Office: Buckland House, Dower Mews, High Street, Berkhamsted HP4 2BL
Tel: +44 (0)1442 508 402

CLIENT
HORTON ROAD, POYLE

DRAWING TITLE
PROPOSED DRAINAGE PLAN

OUR PROJECT NUMBER 2232	DRAWING STATUS CONSTRUCTION	OFFICE SOUTH
SCALE @ A1 1:250 @ A1	DATE 24/03/23	DRAWN BY SN
DRAWING NO P23025-BGL-XX-XX-DR-C-00210	CHECKED BY RM	REV C03



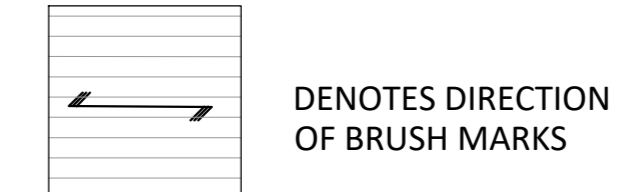


IMPORTANT NOTE:
 ALL M&E SERVICES DRAW-PITS AND ACCESS CHAMBERS ARE TO BE COORDINATED WITH THE JOINT LAYOUT & POSITIONED SO THAT THE EDGE OF THE COVER FRAME IS AT LEAST A MINIMUM OF 1m FROM EACH JOINT.

FOR DETAILS OF JOINTS SEE DRG. No. P23025-BGL-XX-DR-C-00224

KEY TO JOINT TYPE WHERE APPLICABLE

- L J - L J - L J - LONGITUDINAL JOINT (L.J.)
- D L J - D L J - D L J - DEBONDED LONGITUDINAL JOINT (D.L.J)
- E J - E J - E J - EXPANSION JOINT @ DRAINAGE CHANNEL (D.E.J.)
- E J - E J - E J - EXPANSION JOINT (E.J.)
- C J - C J - C J - FORMED CONTRACTION JOINT (C.J.)
- I C J - I C J - I C J - INDUCED CONTRACTION JOINT (I.C.J.)
- S C J - S C J - S C J - SAWN CONTRACTION JOINT (S.C.J.)
- I J - I J - I J - ISOLATION JOINT (I.J.)
- T J - T J - T J - TRANSITION JOINT (T.J.)
- A D J - A D J - A D J - PERMAPAN ALPHA JOINT OR SIMILAR (A.D.J.)
 INSTALLED BY SPECIALIST INTERNAL GROUND FLOOR CONTRACTOR



NOTE:
 ## INDICATES TRANSITION DETAIL REQUIRED AS DETAILED ON DRG. NO. P23025-BGL-XX-DR-C-00224

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C02	11.09.2024	DJB	FINAL CONSTRUCTION	RM
C01	13.03.2024	TJS	CONSTRUCTION ISSUE	DB

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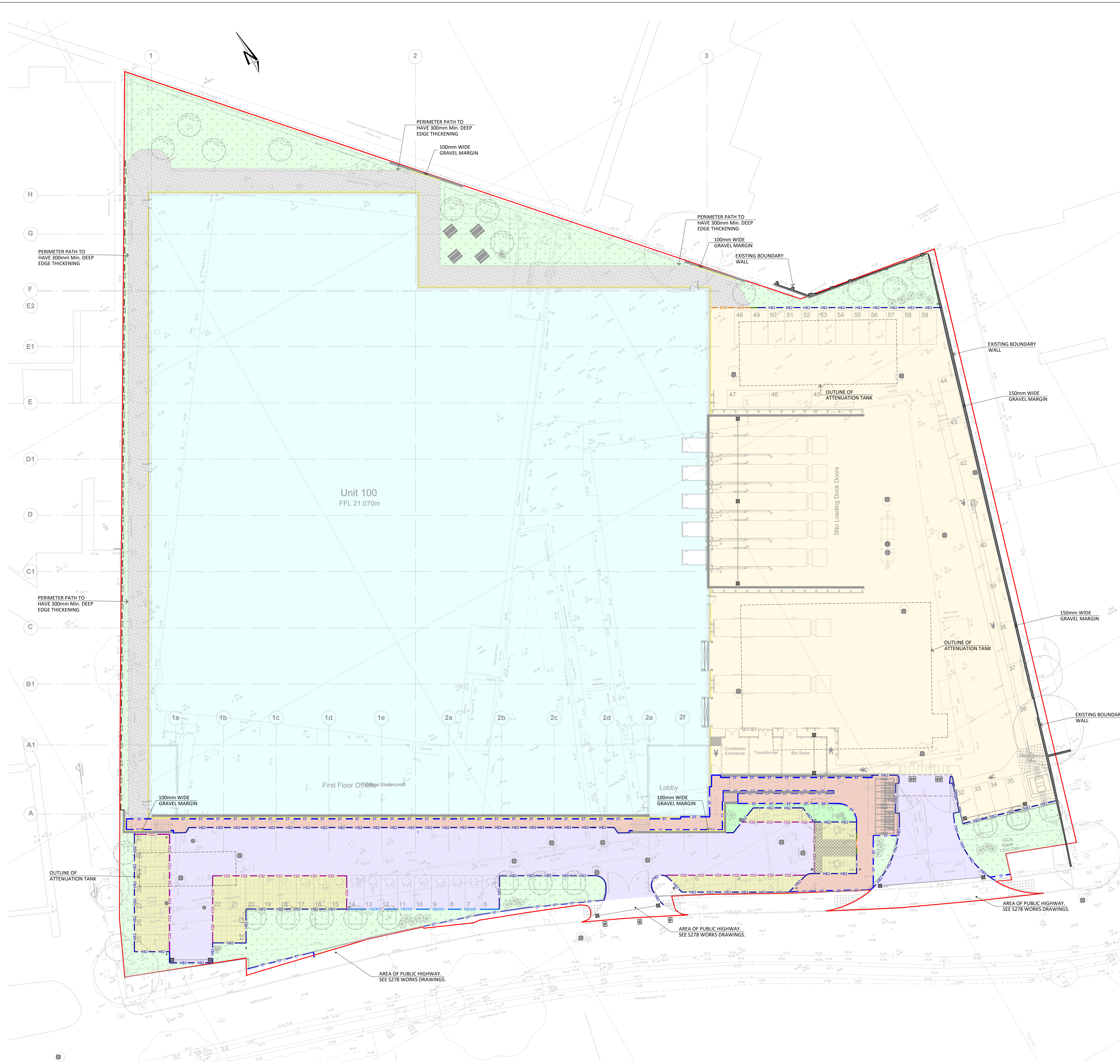
PROJECT
 HORTON ROAD
 POYLE

DRAWING TITLE
 JOINT LAYOUT

BGL PROJECT NUMBER 22232	DRAWING STATUS CONSTRUCTION	OFFICE SOUTHERN
SCALE @ A0 AS SHOWN	DATE 11.03.24	CHECKED BY DB

DRAWING No
P23025--BGL-XX-DR-C-00216

REV
C02



- KEY TO KERBS**
(WHERE APPLICABLE)
- KERBS TO BE TO BS EN 1340:2003**
- HB1 = 150 x 305 PRECAST CONCRETE HALF BATTER KERB
 - HB2 = 125 x 255 PRECAST CONCRETE HALF BATTER KERB
 - BN3 = 305 x 150 PRECAST CONCRETE BULL NOSE KERB
 - BN2 = 255 x 125 PRECAST CONCRETE BULL NOSE KERB
 - BN3 = 125 x 150 PRECAST CONCRETE BULL NOSE KERB (6mm MAX. UPSTAND)
 - CS1 = 255 x 125 PRECAST CONCRETE SQUARE KERB / CHANNEL
 - CS2 = 150 x 125 PRECAST CONCRETE SQUARE KERB / CHANNEL
 - CHL = PRECAST CONCRETE SQUARE KERB / CHANNEL
 - EF = 150 x 50 PRECAST CONCRETE FLAT TOP EDGING
 - TK = TRANSITION KERB/S (AS REQUIRED)
 - HB2BK = BEANY BLOCK PC KERB HALF BATTER KERB
 - HB2KD = HALF BATTER KERB DRAIN
- DK = DROP KERB/S (AS REQUIRED)
- DKS = DROP KERB SET INCORPORATING (LEFT DROPPER, BN3'S TO SUIT, RIGHT DROPPER)
- GS = 100 x 100 GRANITE SETTS
- TRSK = TRIF SAFETY KERB
- TK = TRANSITION KERB/S (AS REQUIRED)
- SOE = PRECAST CONCRETE PAVING SLABS ON EDGE
- TIM = TIMBER EDGING

FOR DETAILS OF KERBS SEE DRG. No. P23025-BGL-XX-XX-DR-C-00224

PLAN OF KERBS
SCALE 1:200

1:200 Metric
0 5m 10m

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REV	DATE	BY	REVISION	CHK'D
C03	11.09.2024	DIB	FINAL CONSTRUCTION	RM
C02	06.03.2024	TJS	NOTES ADDED RE GRAVEL MARGIN	DB
C01	06.03.2024	TJS	CONSTRUCTION ISSUE	DB
P01	01.12.2023	TJS	PRELIMINARY ISSUE	RM

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DRAWING TITLE
KERBING LAYOUT

BGL PROJECT NUMBER	DRAWING STATUS	OFFICE
22332	CONSTRUCTION	SOUTHERN
SCALE @ A0	DATE	DRAWN BY
AS SHOWN	19.06.23	TJS
DRAWING No	CHECKED BY	REV
P23025--BGL-XX-XX-DR-C-00219	DB	C03

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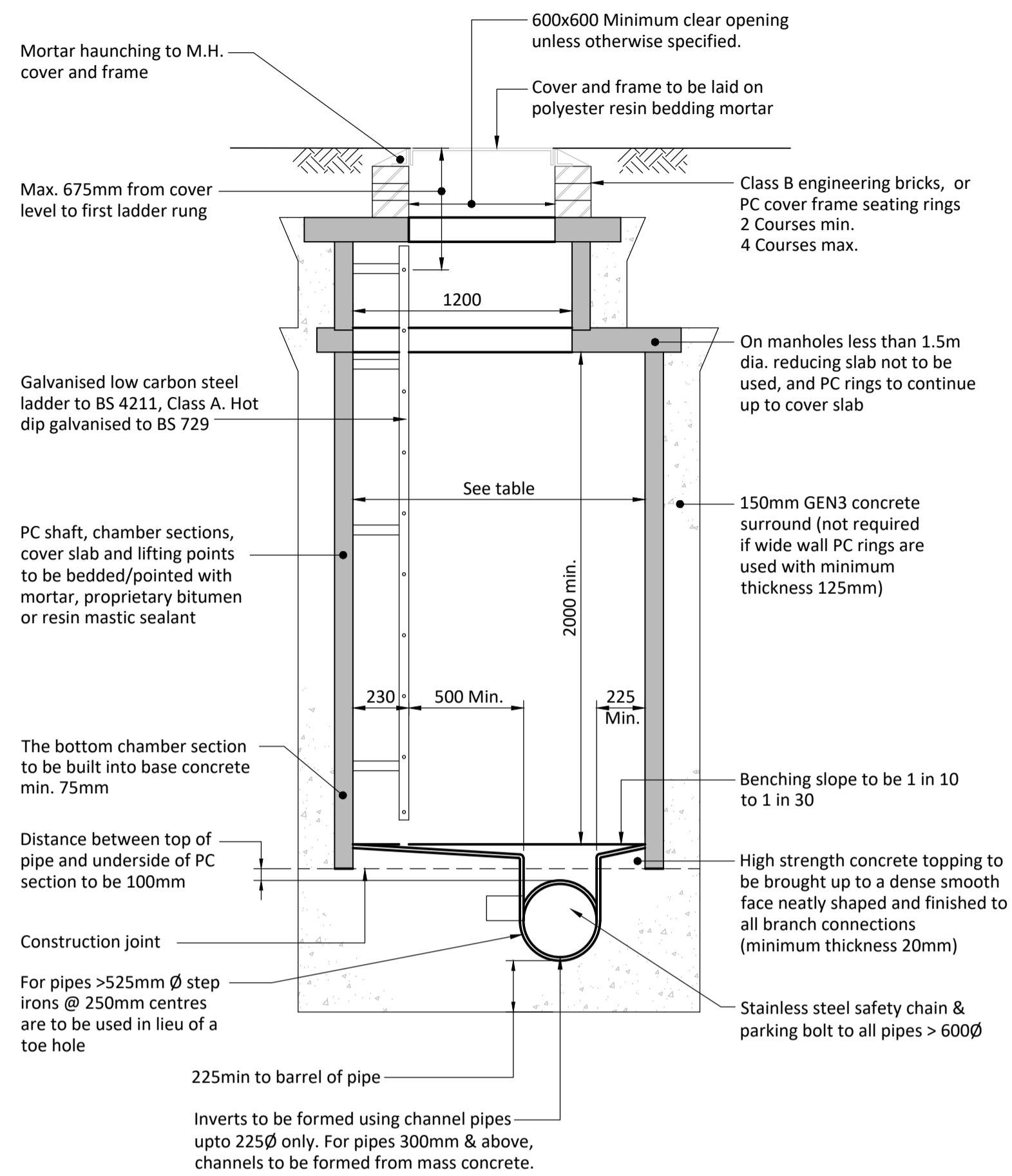
CONSTRUCTION

MAINTENANCE

DEMOLITION

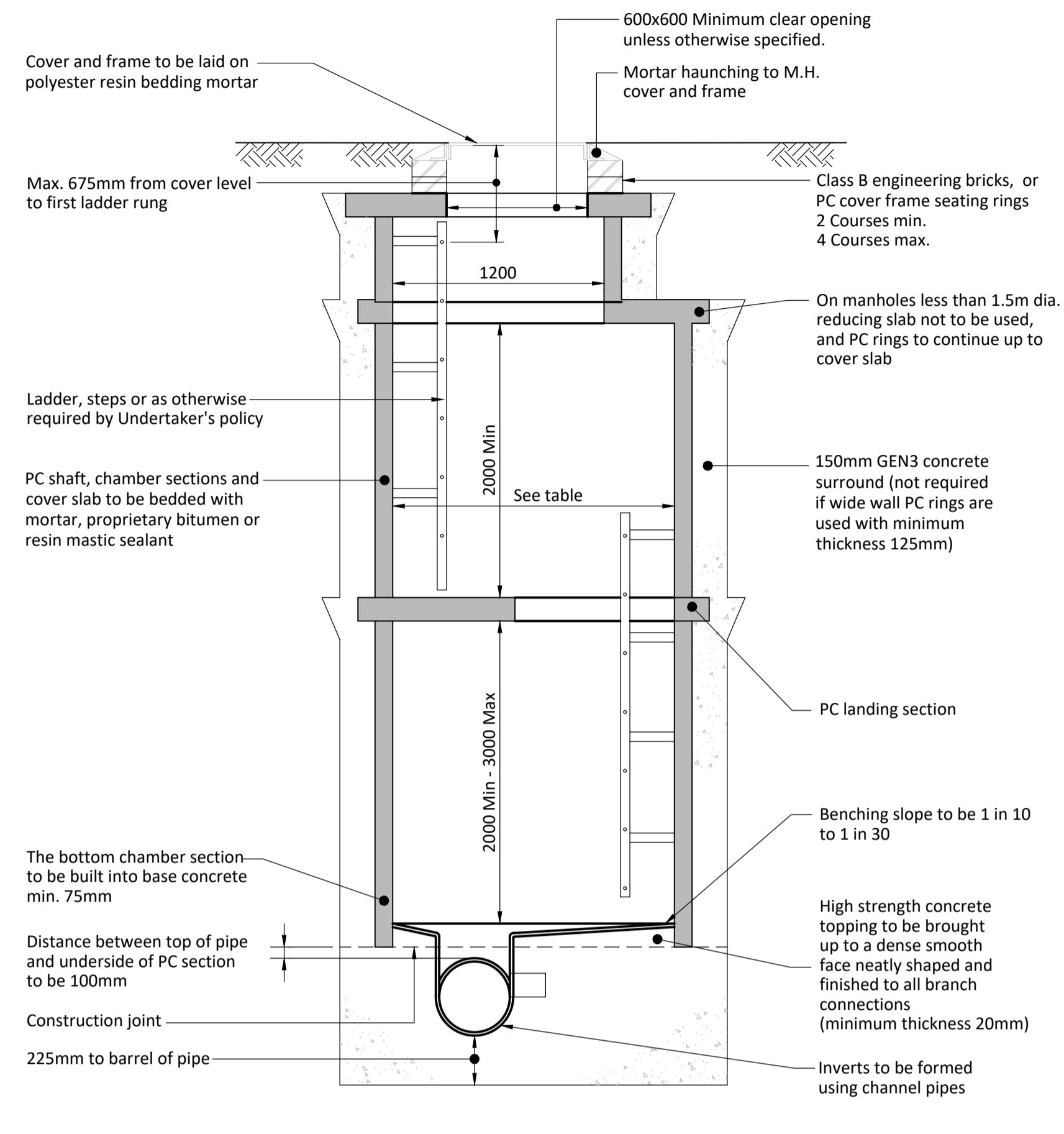
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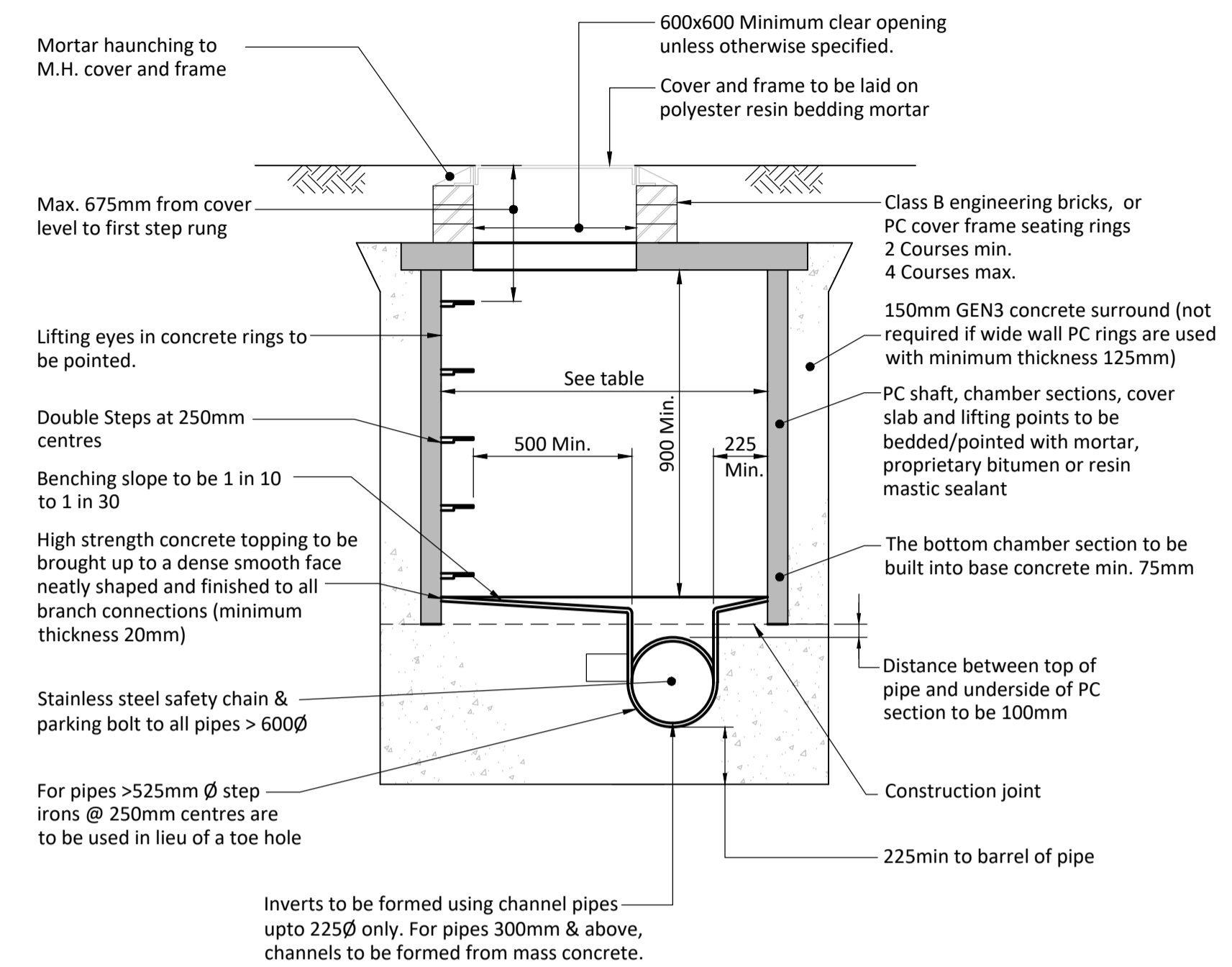
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375mm	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800
GREATER THAN 900mm	PIPE DIAMETER + 900mm

Refer to non-standard detail for manholes with more than 2No. large diameter pipes.



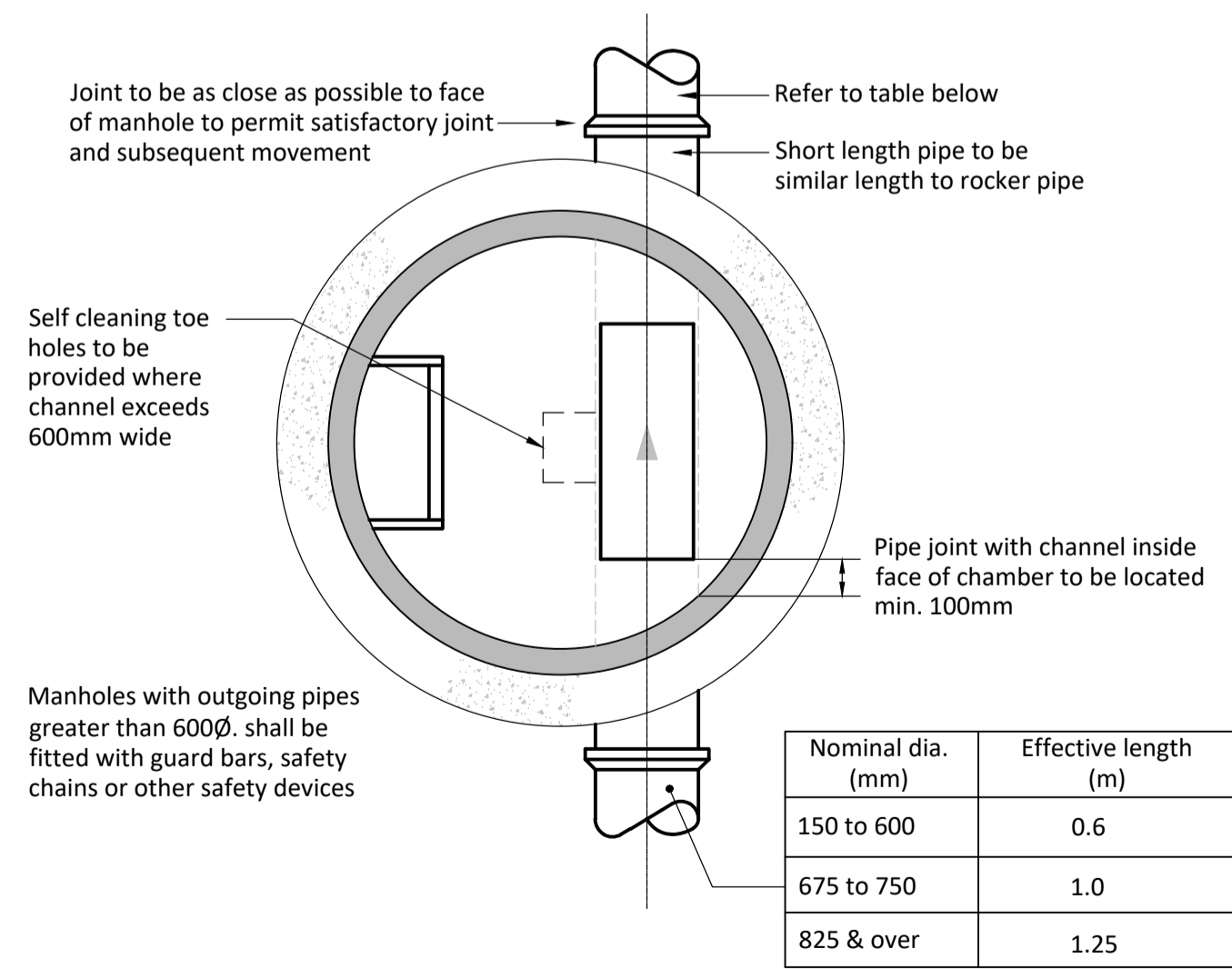
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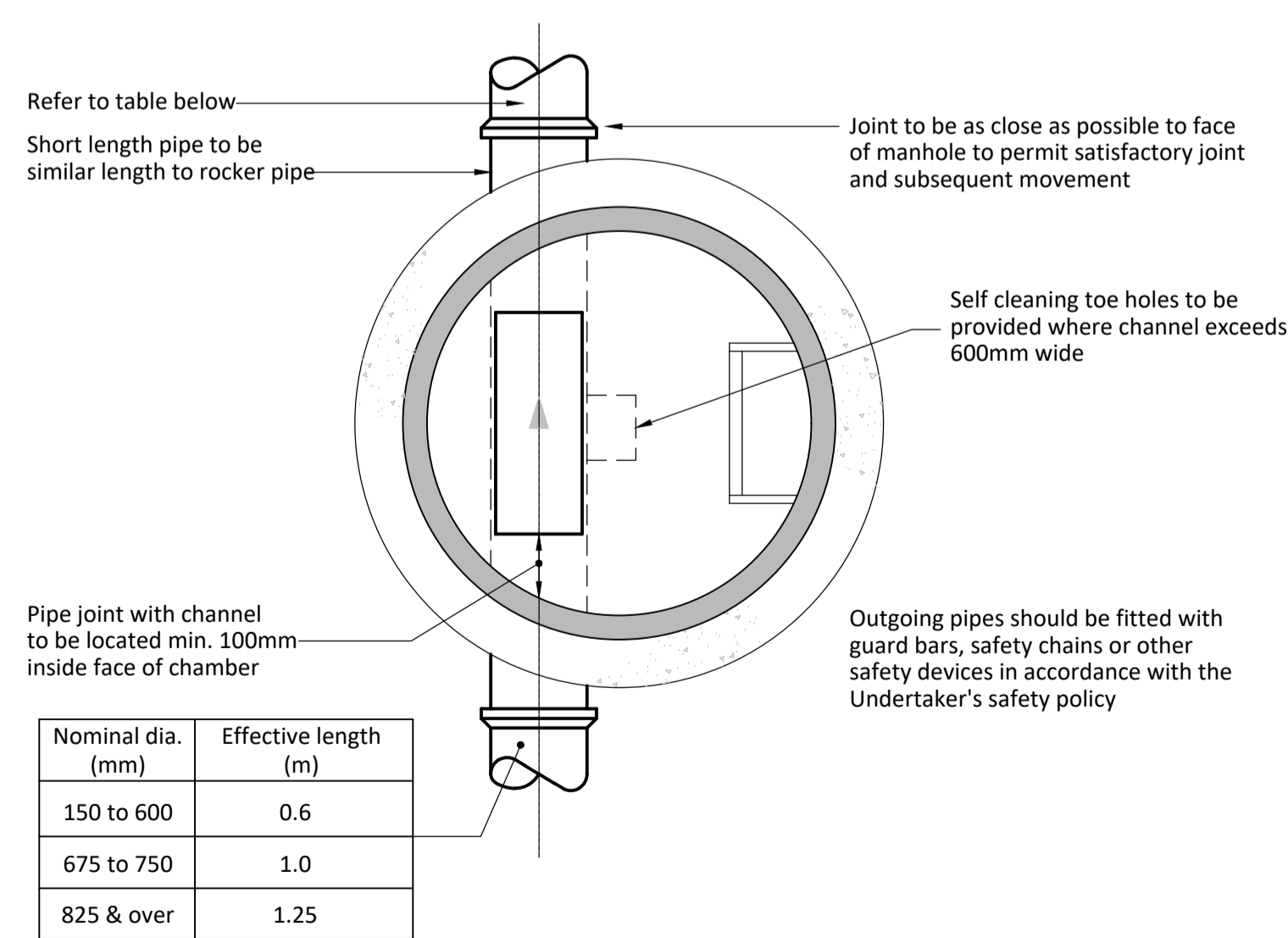


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375 - 450	1350
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GREATER THAN 900mm	PIPE DIAMETER + 900mm

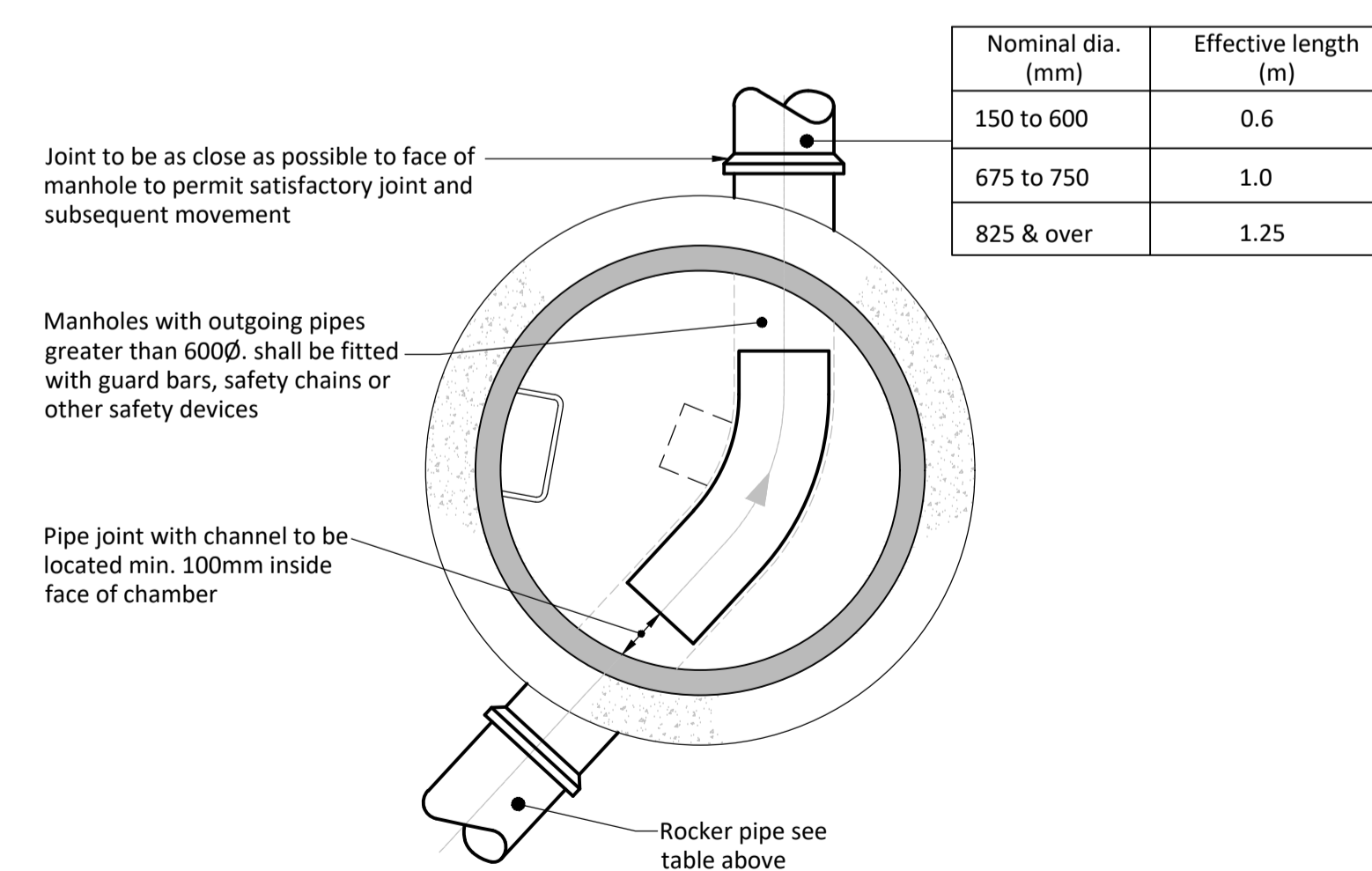
Refer to non-standard detail for manholes with more than 2No. large diameter pipes.



TYPICAL MANHOLE DETAIL TYPE 1A
DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 3m TO 6m



TYPICAL MANHOLE DETAIL TYPE 1B
DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 6m MINIMUM



TYPICAL MANHOLE DETAIL TYPE 2
DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 1.5m* TO 3.0m

NOTE: P.C.C CHAMBER RINGS USED FOR MANHOLES LESS THAN 1500 TO SOFFIT WITHIN HIGHWAYS FOR LOAD CLASS D400 SHALL BE 600X600 CLEAR OPENING. ALL MAINTENANCE SHALL BE CARRIED OUT FROM THE SURFACE. NO STEP RUNGS SHALL BE PROVIDED. THE COVER OPENING SHALL BE LOCATED OVER THE OUTGOING PIPE.

REV	DATE	BY	REVISION	CHK'D
C01	11.09.2024	DJB	FINAL CONSTRUCTION	DB
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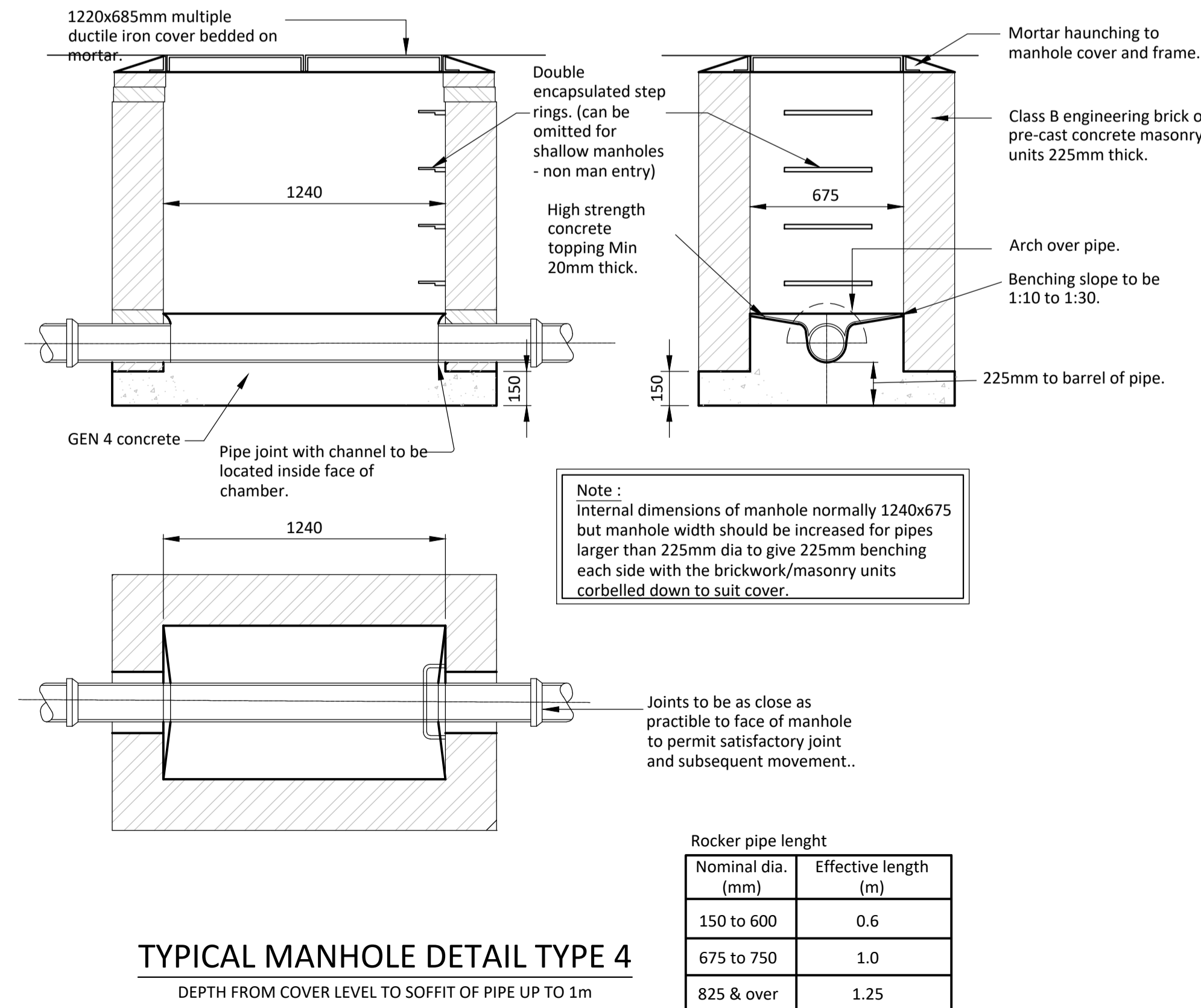
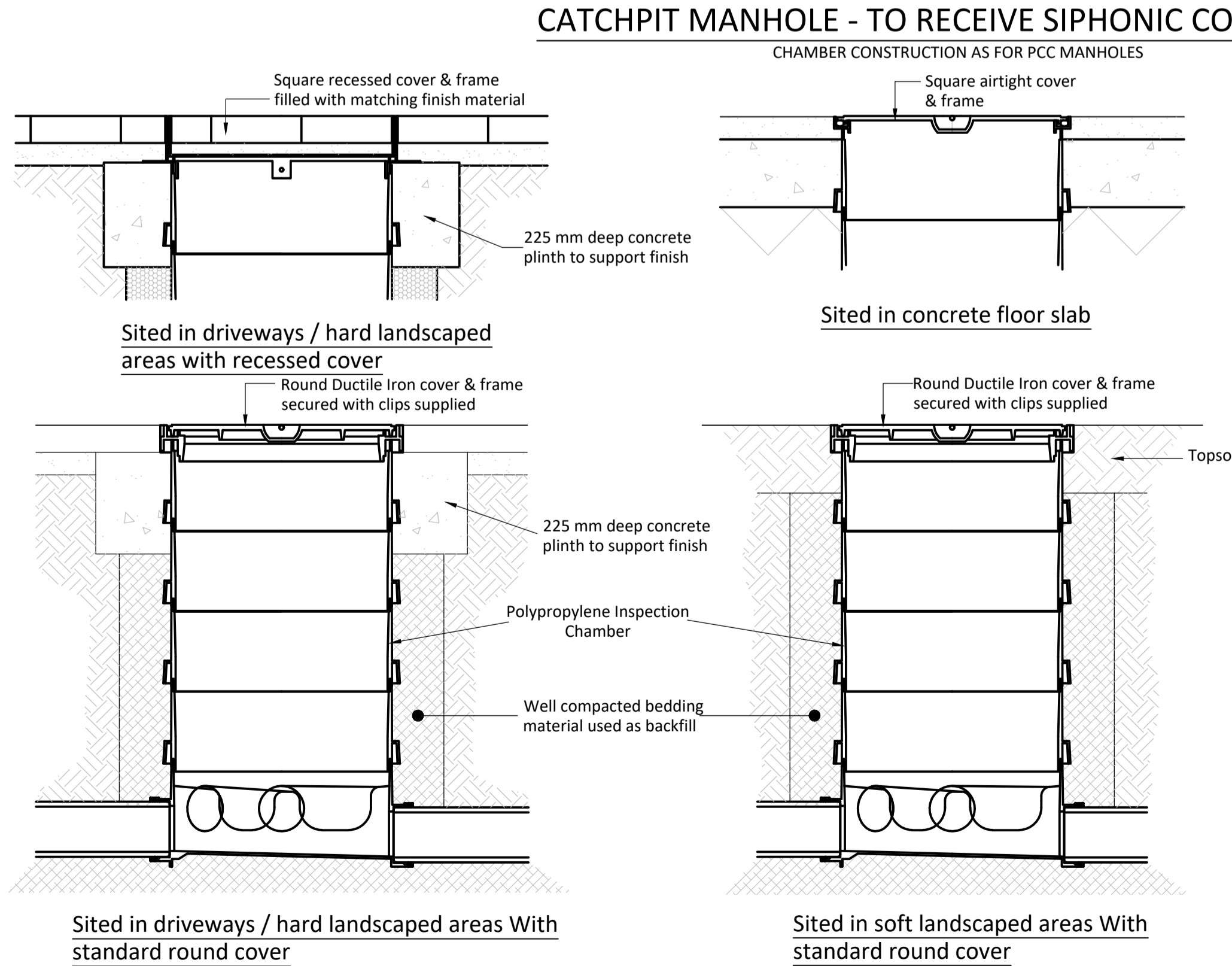
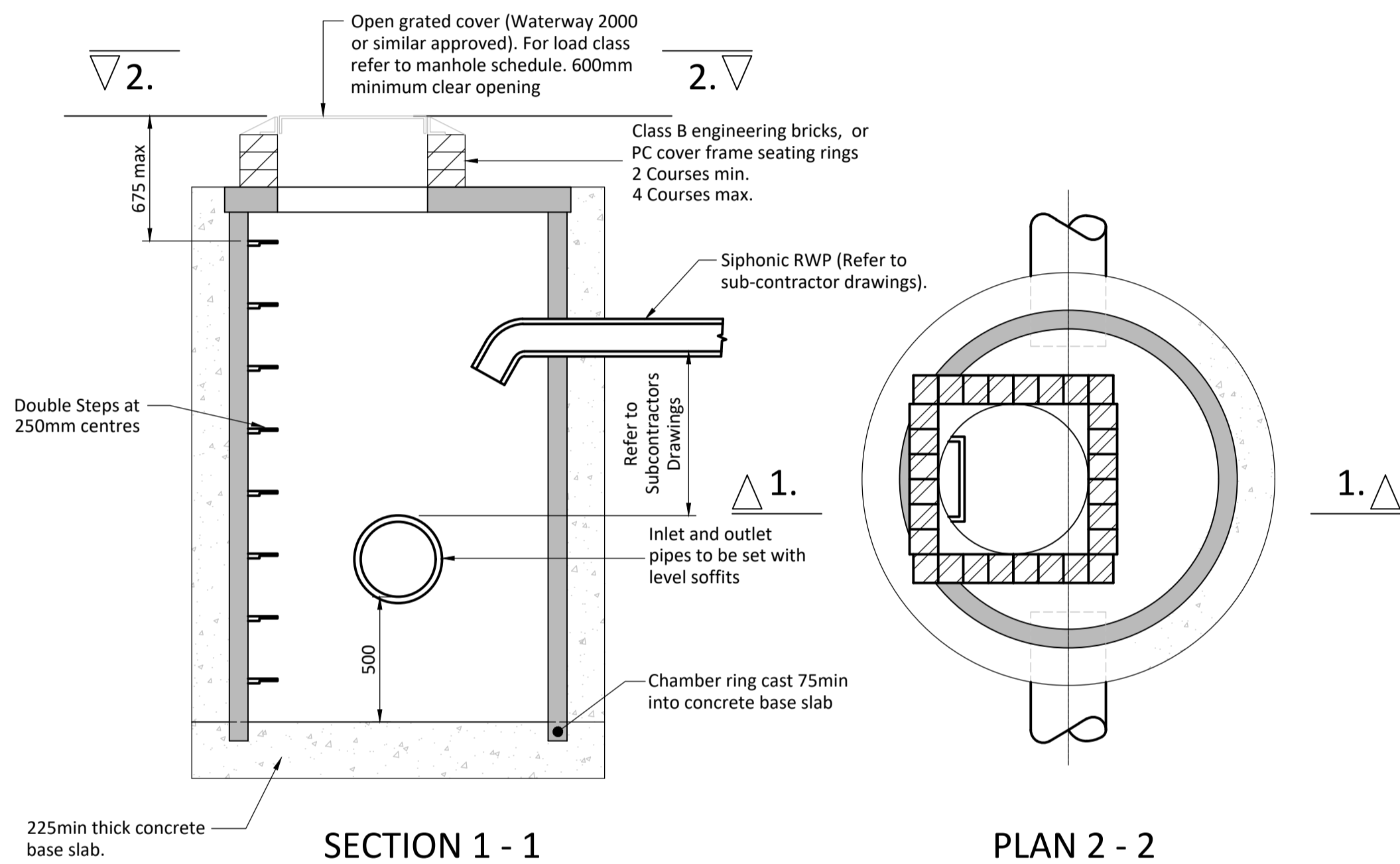
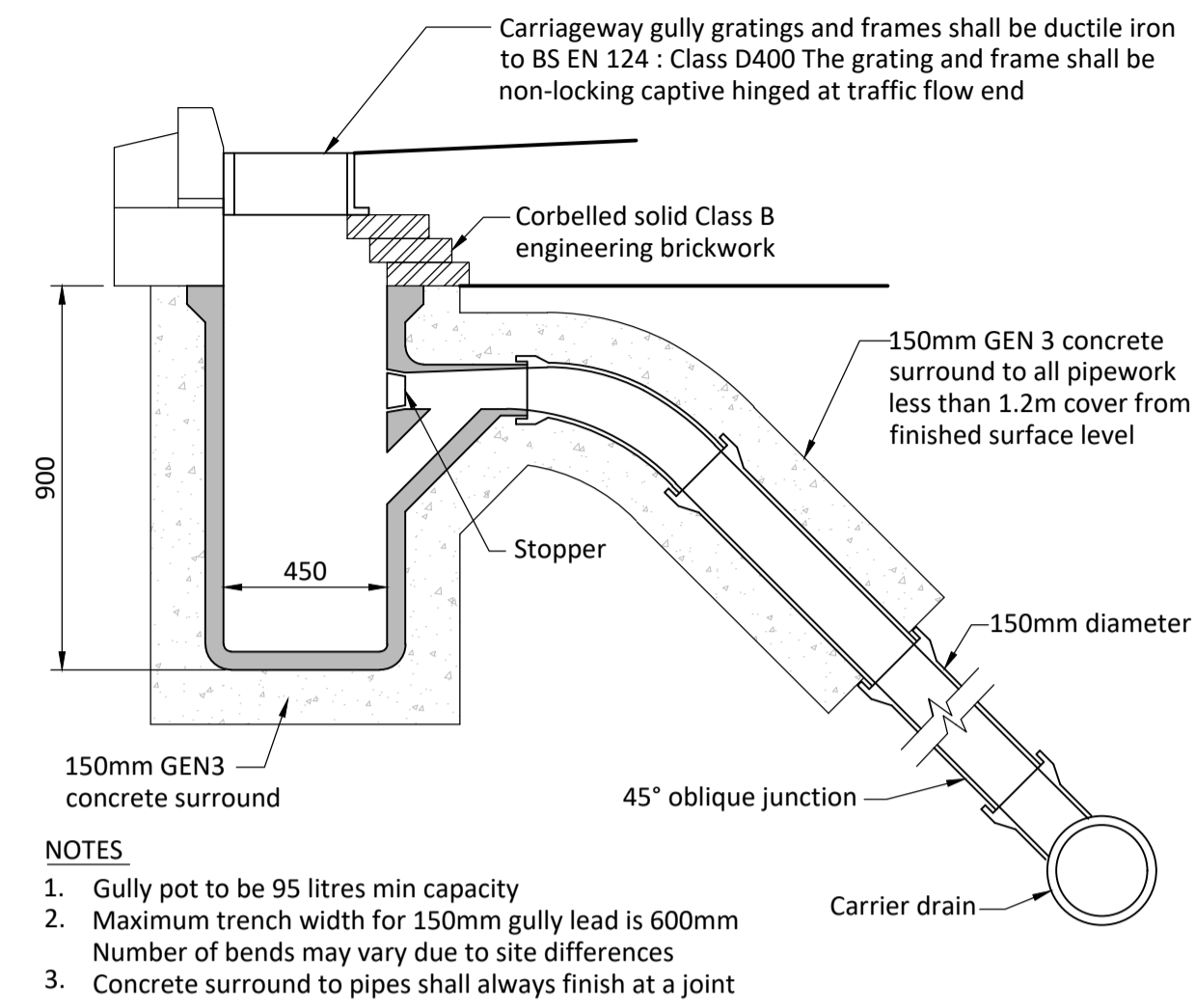
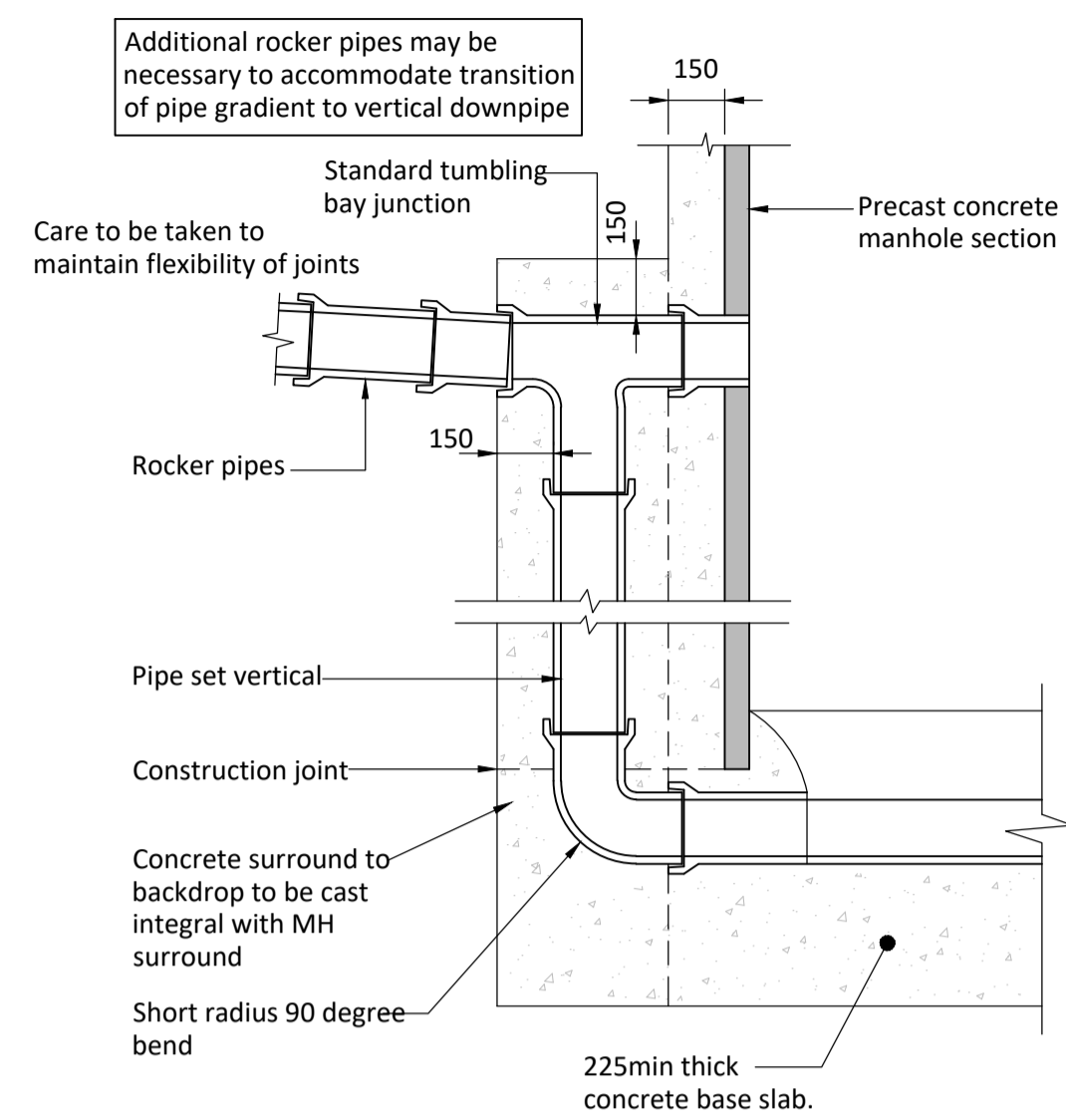
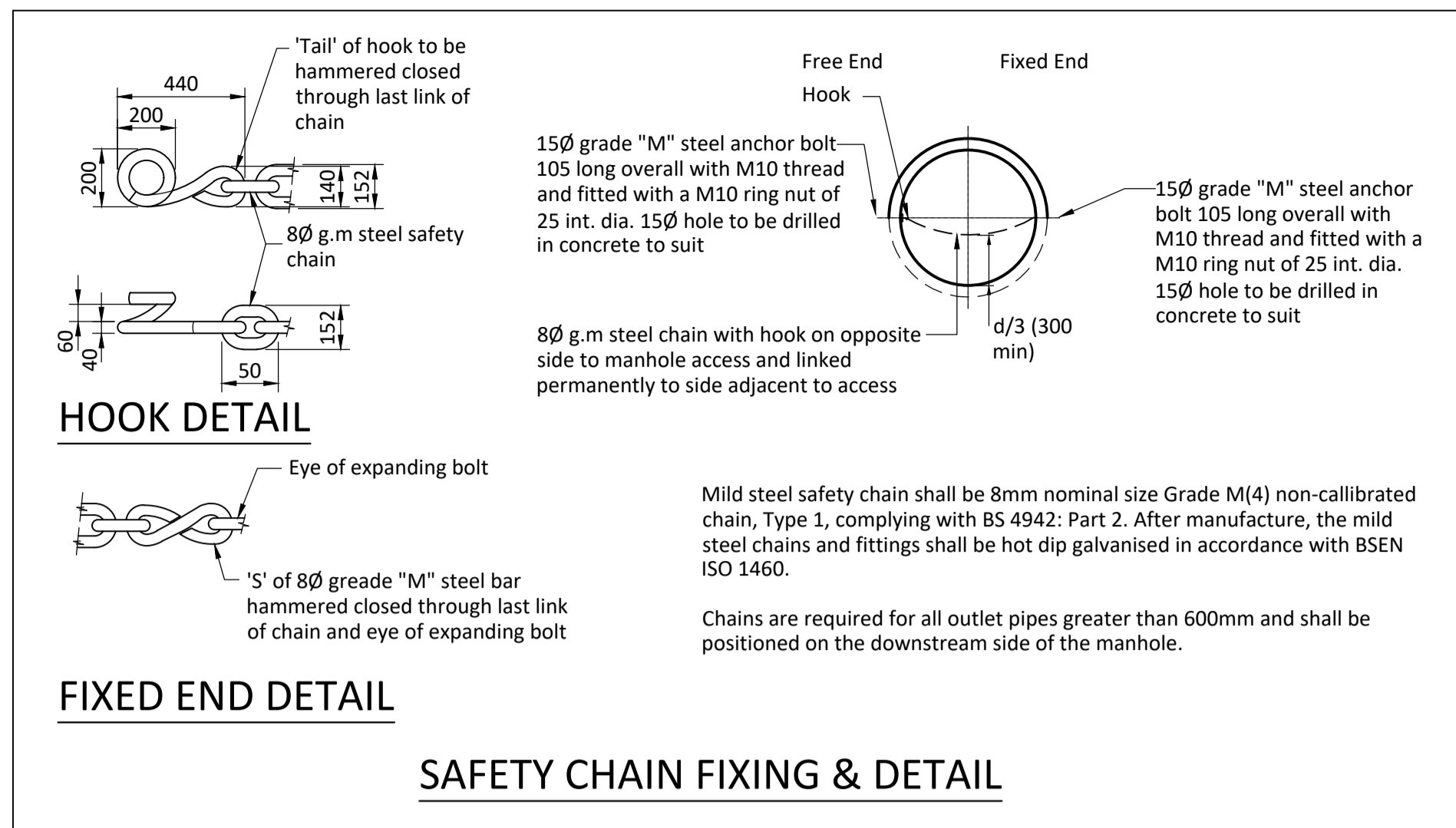
DRAWING TITLE

DRAINAGE & EXTERNAL DETAILS SHEET 1 OF 4

BGL PROJECT NUMBER	DRAWING STATUS	OFFICE
22232	CONSTRUCTION	SOUTHERN

SCALE @ A1	DATE	DRAWN BY	CHECKED BY
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P23025--BGL-XX-XX-DR-C-0022	C01



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DRAWING TITLE

DRAINAGE & EXTERNAL DETAILS
SHEET 2 OF 4

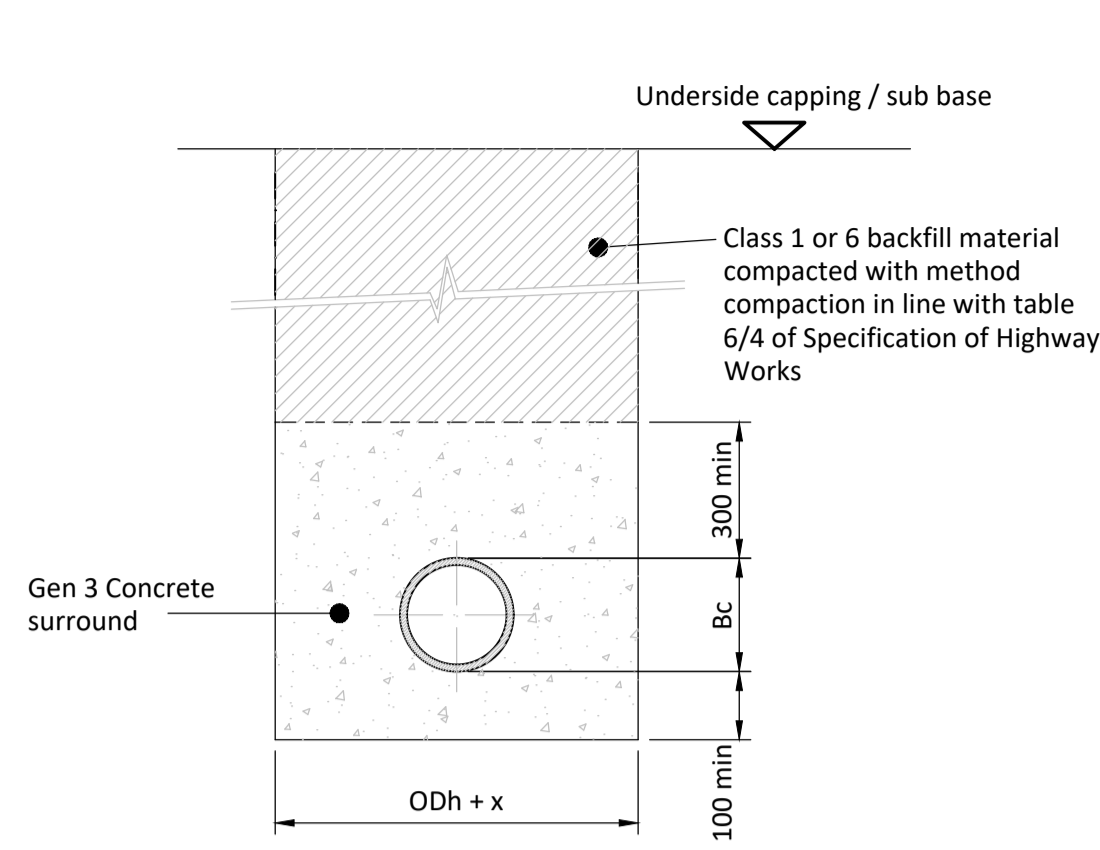
BGL PROJECT NUMBER	DRAWING STATUS	OFFICE
22232	CONSTRUCTION	SOUTHERN
SCALE @ A1	DATE	DRAWN BY
AS SHOWN	19.06.23	TJS
		CHECKED BY
		DB

DRAWING No

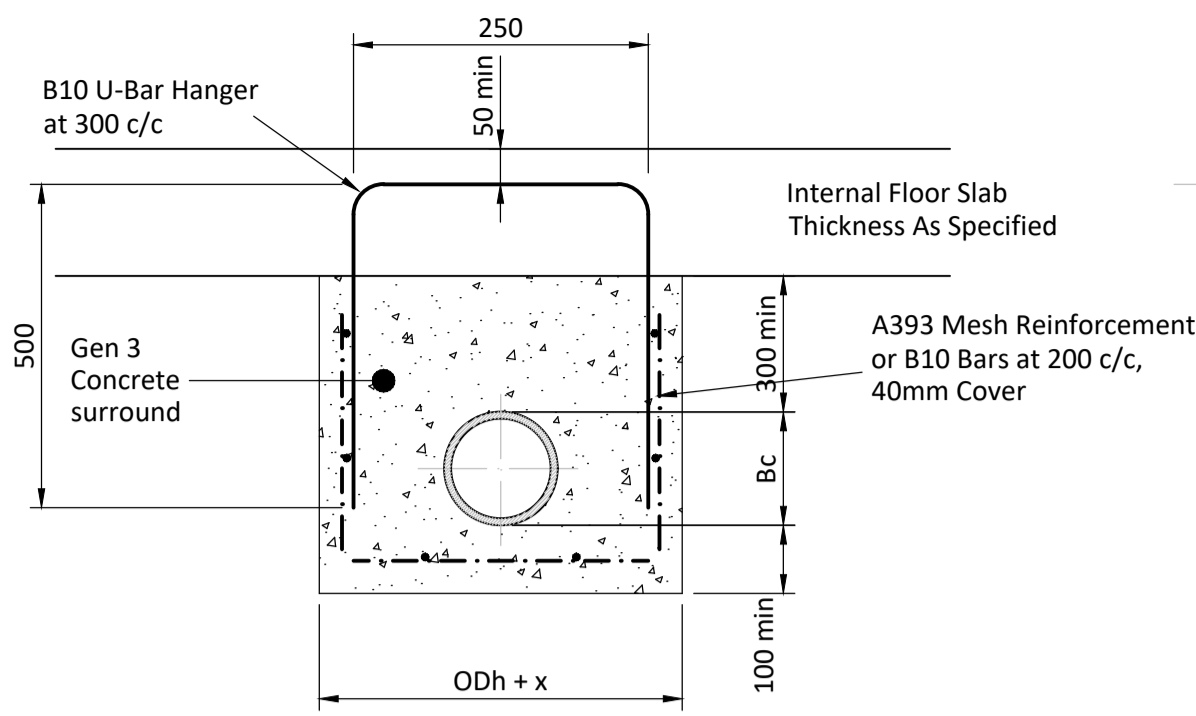
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REV

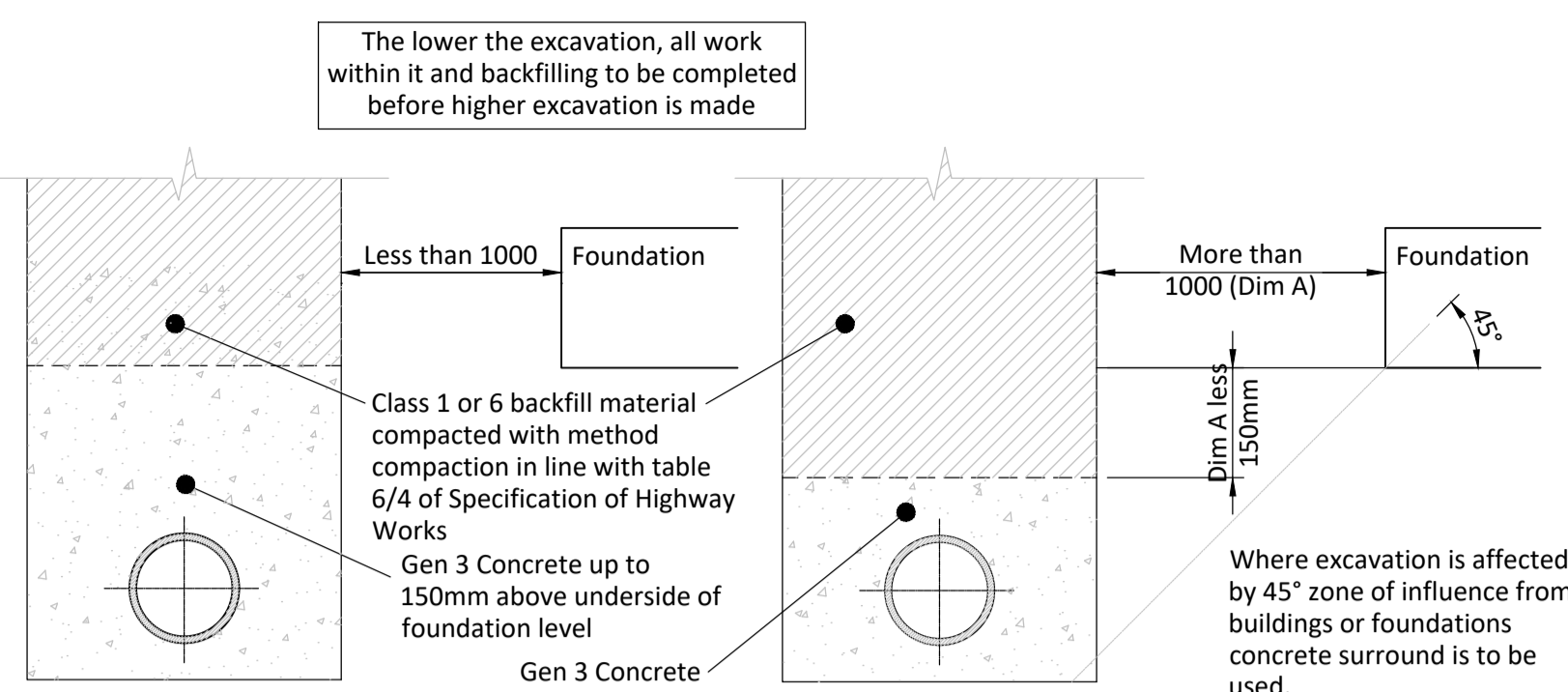
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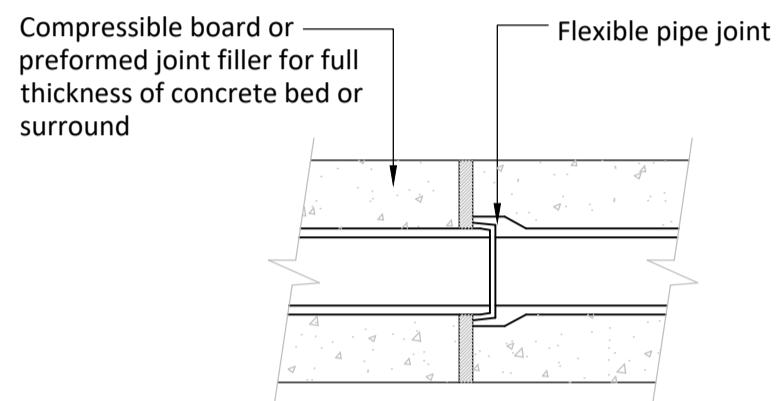
Class Z Bedding Detail



Class Y Bedding Detail



Detail indicating concrete backfilling to trenches in close proximity to building and foundations)

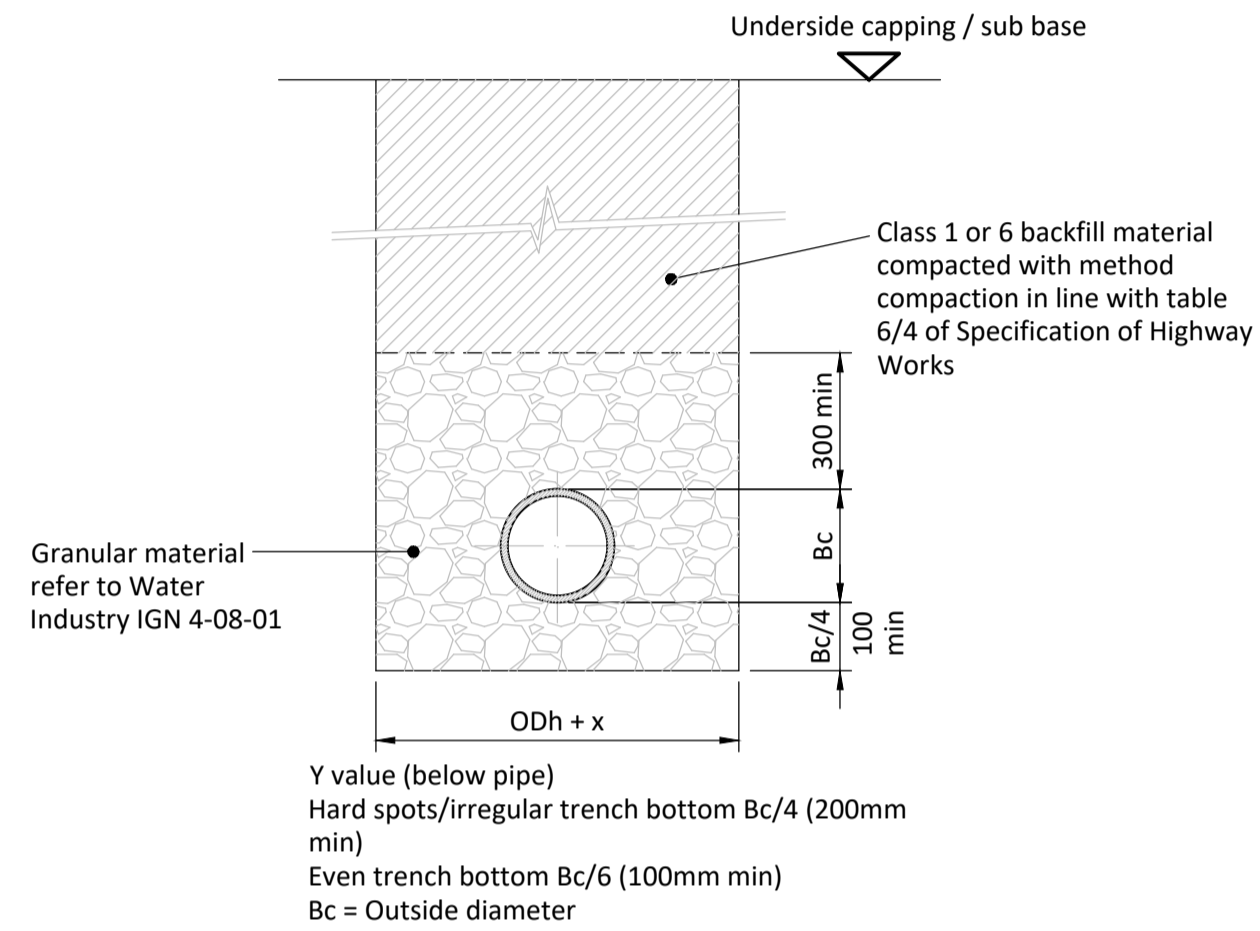


Joints for Concrete Surround to Pipes
(To occur at each pipe joint)

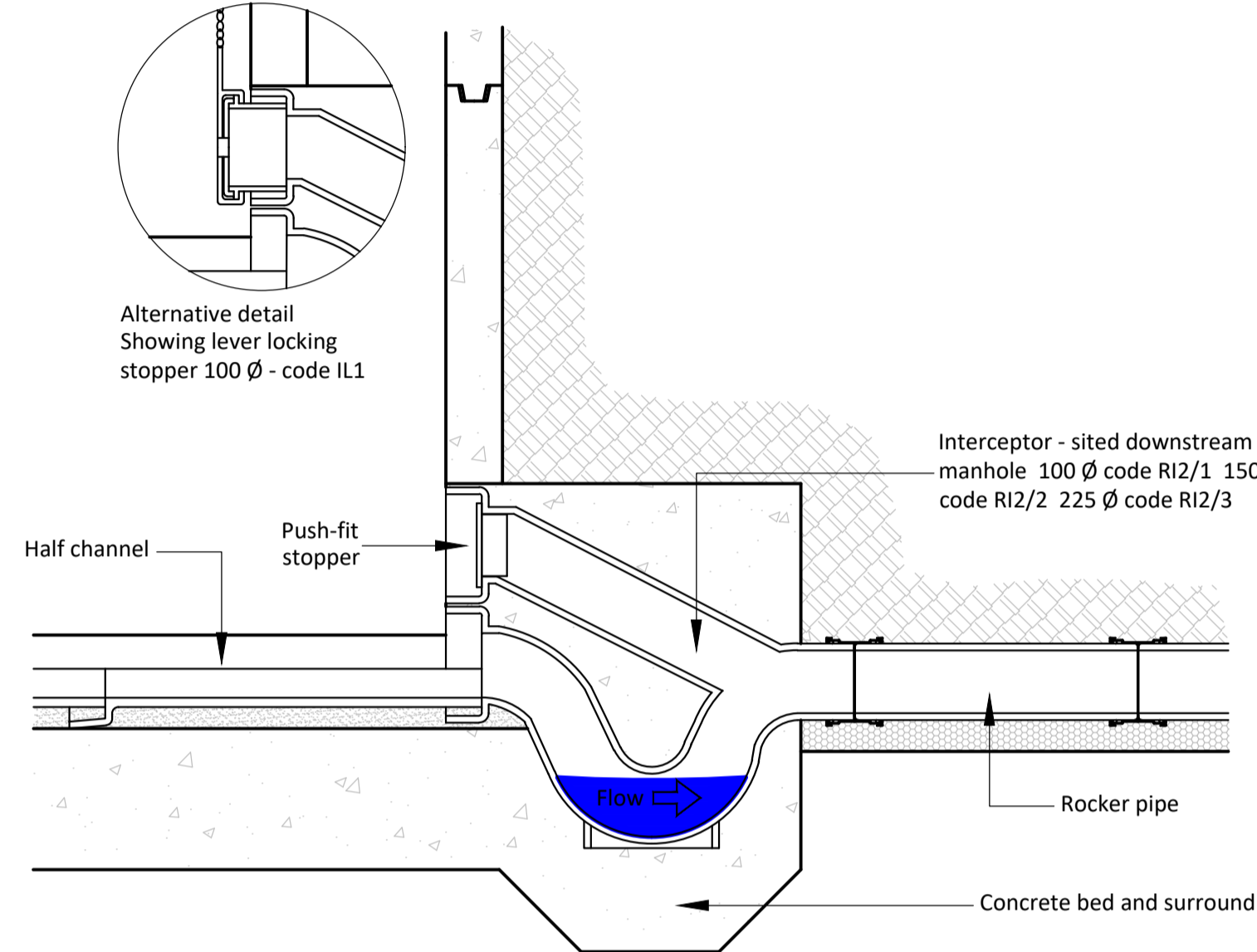
Pipe Ø (mm)	Joint thickness
< 450	18mm
450-1200	36mm
1200 >	54mm

Compressible Filler Table

(Bitumen impregnated insulating board to BS 1142: Part 3)



Class S Bedding Detail



- Notes -
- Dimensions shown may vary due to manufacturing tolerances.
 - 225 Ø units are manufactured segmentally from straight pipe.

Typical Interceptor Detail

DN (mm)	Supported trench minimum width (OD _n + x) m	Unsupported trench minimum width (OD _n + x) m	
		β > 60°	β ≤ 60°
≤225	OD _n + 0.40	OD _n + 0.40	
>225 to ≤350	OD _n + 0.50	OD _n + 0.50	OD _n + 0.40
>350 to ≤700	OD _n + 0.70	OD _n + 0.70	OD _n + 0.40
>700 to ≤1200	OD _n + 0.85	OD _n + 0.85	OD _n + 0.40
>1200	OD _n + 1.00	OD _n + 1.00	OD _n + 0.40

NOTE:
In the values OD_n + x, x/2 equals the minimum working space between the pipe and the trench wall or the support if present.
Where OD_n is the horizontal outside diameter, in metres
β is the angle of unsupported trench side measured to the horizontal

Table 1 BS EN 1610 : 2015 - Minimum trench width depending on the nominal diameter (DN) of the pipe.

Trench Depth (m)	Minimum trench Width (m)
<1.00	No minimum width required
≥ 1.00 ≤ 1.75	<1.00
> 1.75 ≤ 4.00	<1.00
> 4.0	<1.00

Ⓜ maximum depth of unsupported trench

Table 2 BS EN 1610 : 2015 Minimum trench width depending on the trench depth

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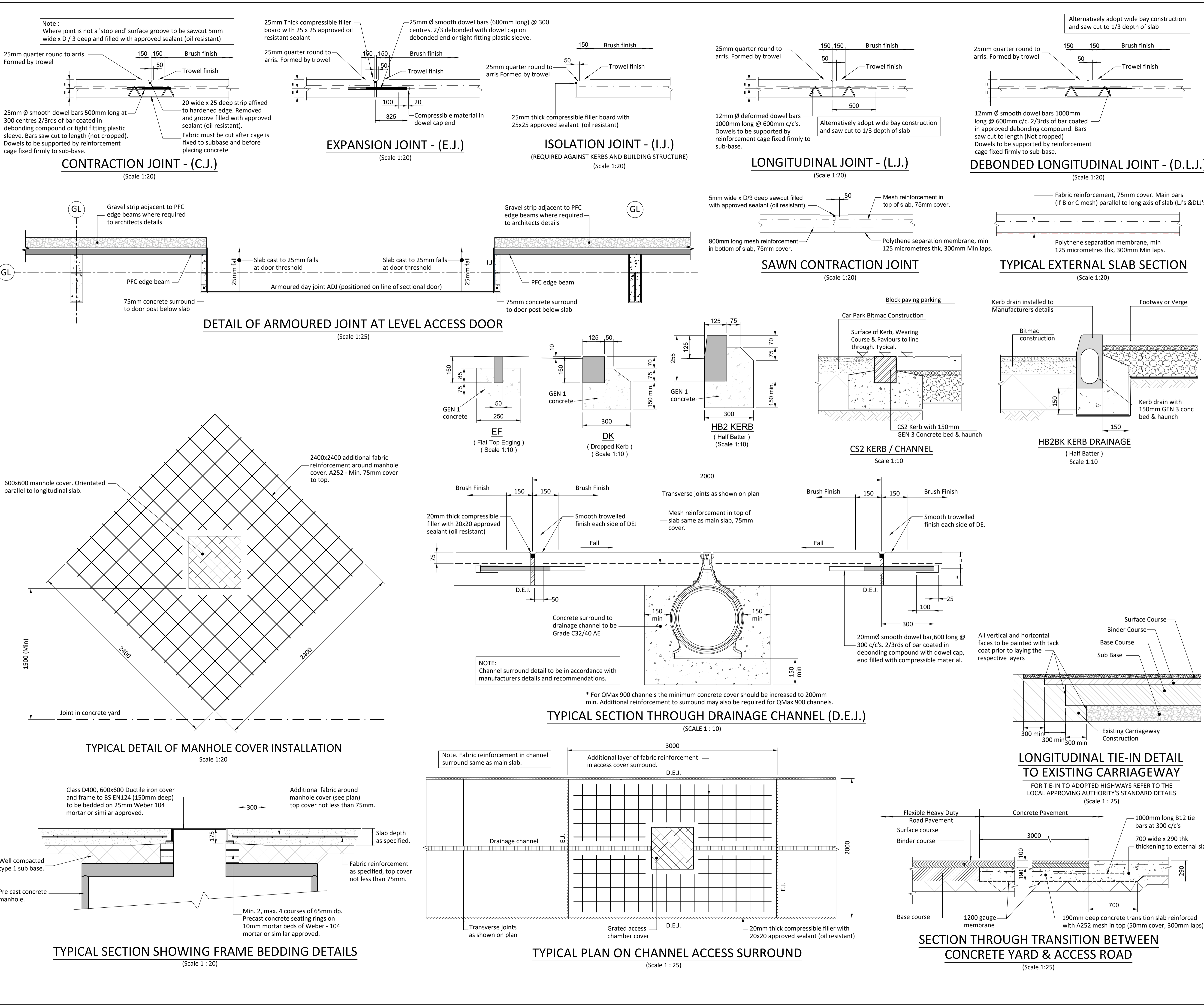
DRAWING TITLE

DRAINAGE & EXTERNAL DETAILS
SHEET 3 OF 4

BGL PROJECT NUMBER	DRAWING STATUS	OFFICE
22232	CONSTRUCTION	SOUTHERN

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P23025-BGL-XX-XX-DR-C-00223	C01



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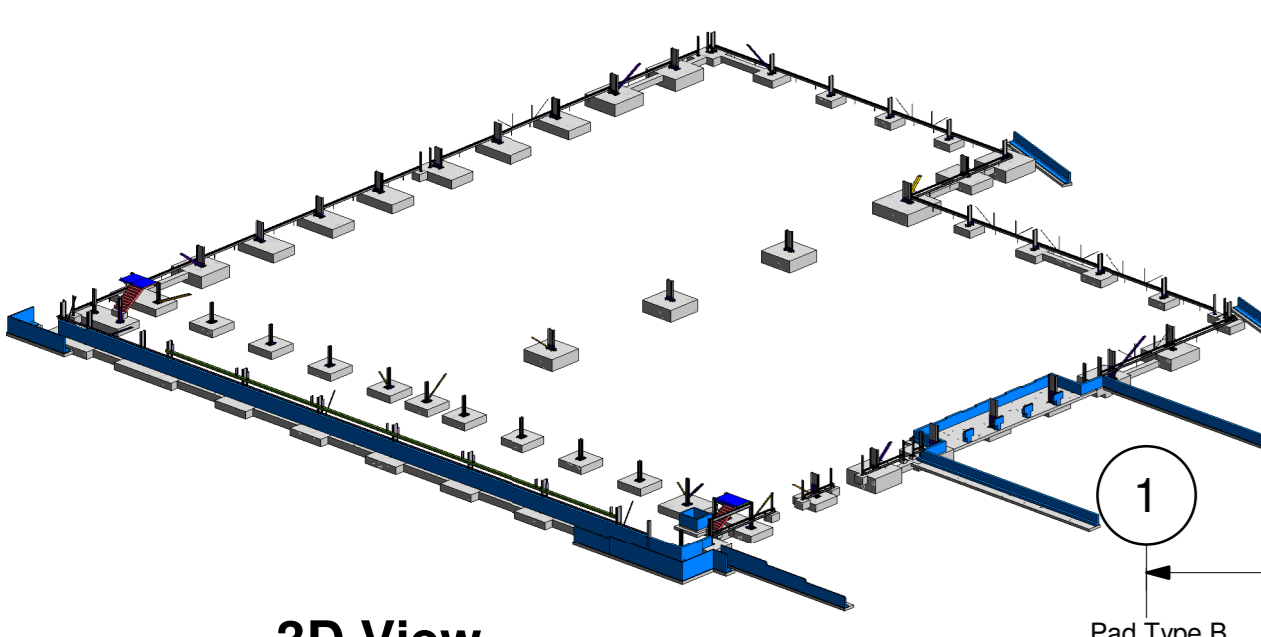
PROJECT

HORTON ROAD POYLE

DRAWING TITLE

DRAINAGE & EXTERNAL DETAILS SHEET 4 OF 4

BGL PROJECT NUMBER	DRAWING STATUS	OFFICE	
22232	CONSTRUCTION	SOUTHERN	
SCALE @ A1	DATE	DRAWN BY	CHECKED BY
AS SHOWN	19.06.23	TJS	DB
DRAWING No	REV		
P23025-BGL-XX-XX-DR-C-00224	C01		



3D View

All 600 x 600dp RC Tie/Ground Beams to have 4H16 top, bottom and sides with H10 links @ 200 centres.

Foundations Note:
 In addition to building foundations, allowance to be made for the following foundation items across the site:
 - Gate post foundations: To suit all gate arrangements which will be to specialist subcontractor design and to Architectural intent.
 - Substation bases: This will be specific to UKPN requirements but allowance for a 750mm (4 layers A393 mesh total) thick raft below the footprint of the unit.
 - Totem and other signage bases. Make allowance for 1.5x1.5x0.9m pad with 4 no. layers A393 mesh to each Totem sign.
 - Bases to all fences, lighting columns, bollards and time lapse camera columns. All to manufacturers details.

Pad Ref.	Pad Foundation Size	Reinforcement
Pad Type A	2000 x 2000 x 750dp	1 Layer A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type B	2500 x 2500 x 750dp	1 Layer A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type C	3800 x 5200 x 750dp	2 Layers A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type D	3600 x 3600 x 750dp	1 Layer A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type E	3900 x 3900 x 750dp	1 Layer A393 Mesh Btm.
Pad Type F	2900 x 2900 x 750dp	1 Layer A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type G	4500 x 4500 x 1200dp	2 Layers A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type H	3800 x 3800 x 1200dp	2 Layers A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type HI	3600 x 3600 x 1500dp	2 Layers A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type J	4000 x 4000 x 1200dp	2 Layers A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type K	1000 x 1000 x 750dp	1 Layer A252 Mesh Btm.
Pad Type L	3800 x 3800 x 1200dp	2 Layers A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Pad Type M	2900 x 4500 x 900dp	2 Layers B1131 Mesh Btm. (Laid with main bars in alternating directions), 2 Layers A252 Mesh Top.
Pad Type N	450 x 450 x 300dp	Mass Concrete
Pad Type X	3600 x 4000 x 1070dp	1 Layer A252 Mesh Btm. & 1 Layer A252 Mesh Top.
Grand total:	73	

Note:
 Mesh requirements listed above are a minimum. Pads subjected to uplift forces such as those in braced bays will require 1 layer A252 mesh in the top of the pad in addition to bottom mesh.

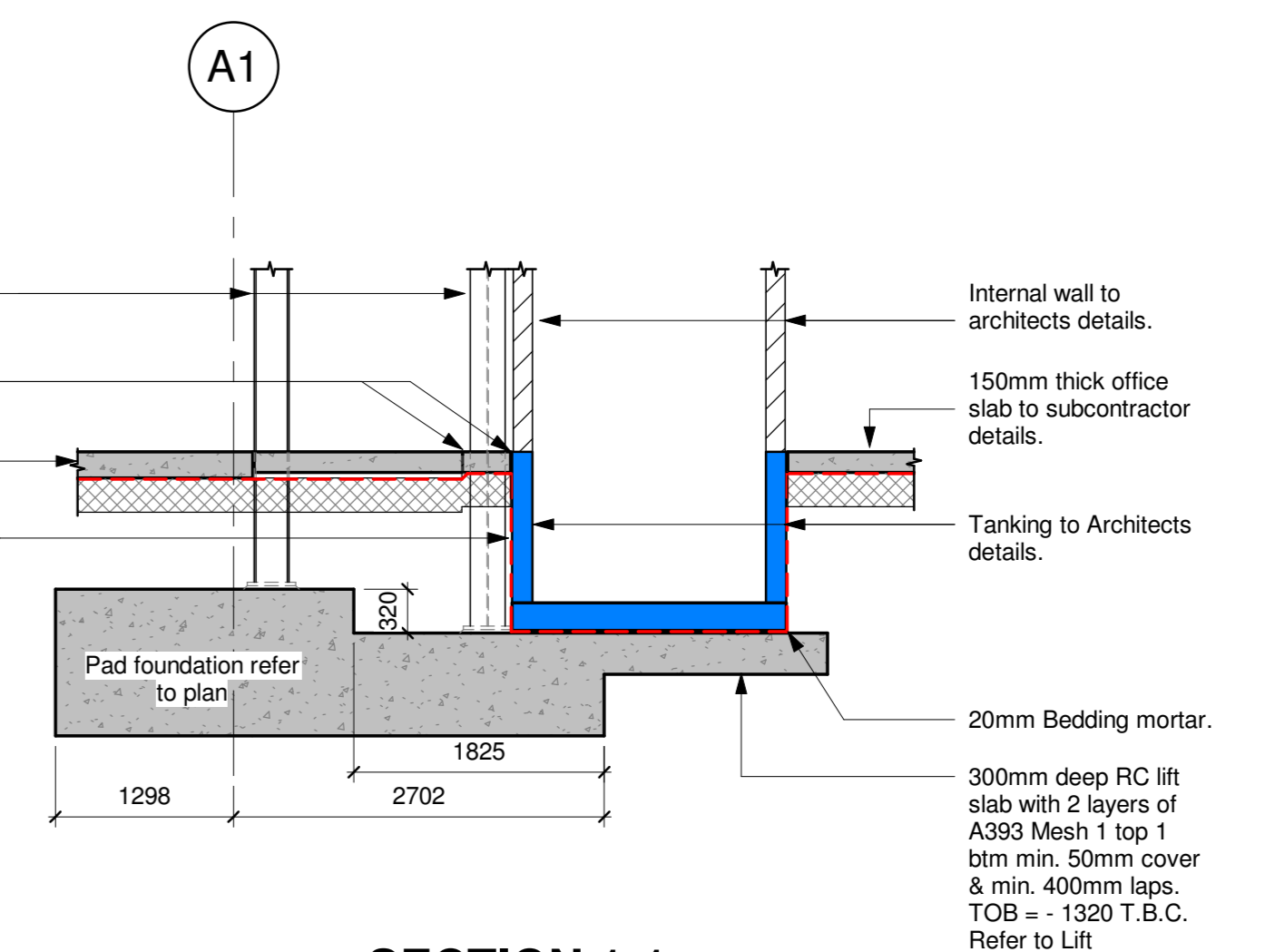
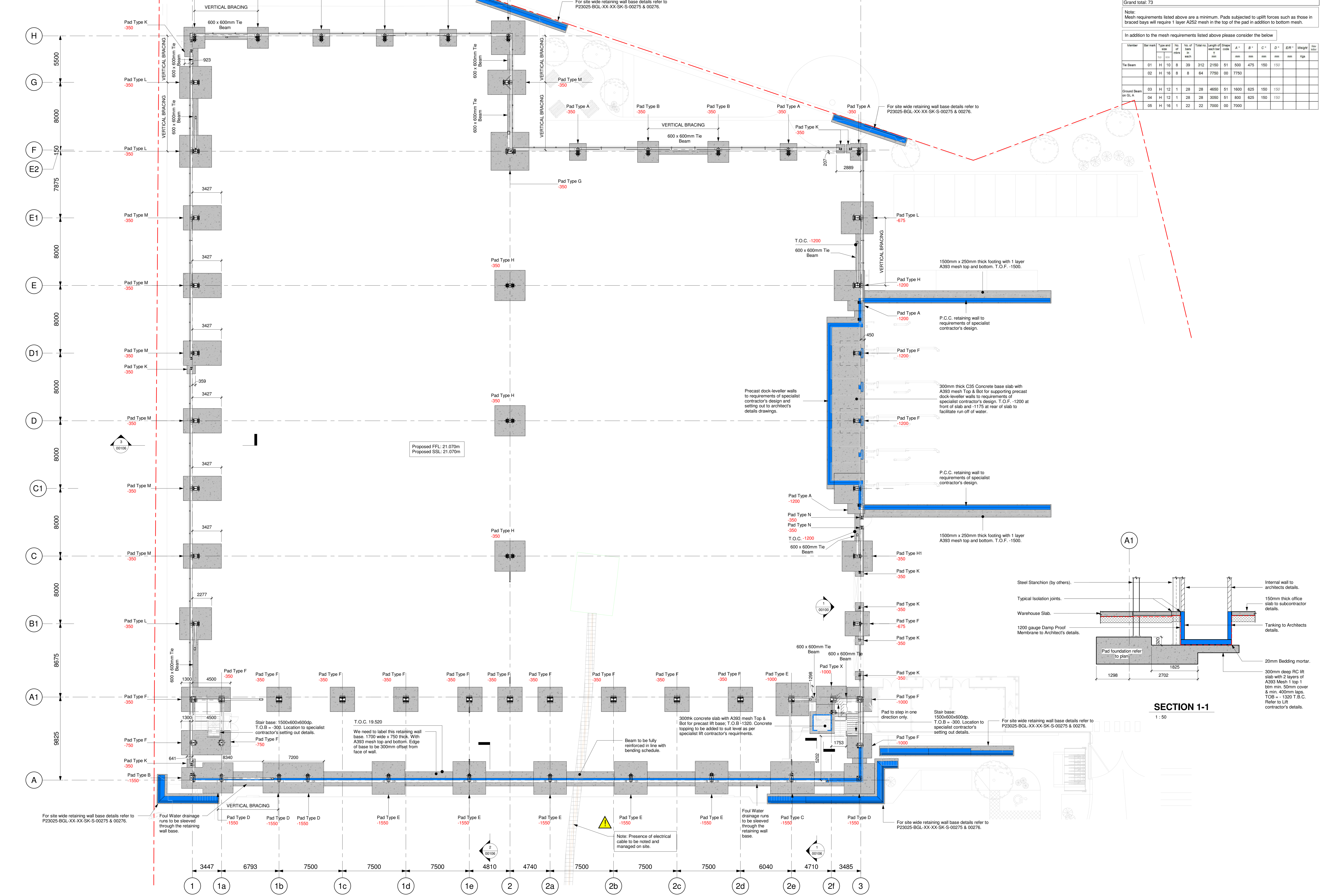
In addition to the mesh requirements listed above please consider the below

Member	Bar mark	Type and size	No. of bars	No. of mesh	Typical length of member	Typical length of mesh	A*	B*	C*	D*	E*	Weight	Qty
Tie Beam	01	H 10	8	39	312	2150	51	500	475	150	150	kg	
	02	H 18	8	8	64	7750	00	7750					
Ground Beam on GL A	03	H 12	1	28	28	4650	51	1600	625	150	150		
	04	H 12	1	28	28	3050	51	800	625	150	150		
	05	H 18	1	22	22	7000	00	7000					

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1. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and performance and design specifications.
2. This drawing is not to be scaled. All dimensions are in mm unless noted otherwise.
3. All materials and workmanship to be in accordance with the requirements of the latest relevant Standards and Codes of Practice.
4. All dimensions and setting out are to be confirmed by the Architect and checked on site. Any discrepancies to be reported to the Engineer.
5. All concrete bases to be located concentrically under stanchion centre lines unless noted otherwise.
6. All foundations to be poured in one continuous pour unless agreed otherwise with Burrows Graham.
7. All foundations, where applicable, to have top 50 cover and bottom 75 cover, unless noted otherwise. Where top mesh has been cut to accommodate bolt boxes, loose H10 bars at 100 centres to be provided (lap length 40 x diameter).
8. All in situ concrete works to be in grade C32/40 concrete designed to DC1 classification to the latest editions of BS EN 206-1 and BS 5500-1 & 2. Refer to Geo-Environmental Assessment notes for appropriate mix design recommendations.
9. All reinforcement to be high yield (fy=500 N/mm²) to BS 4449. Steel fabric reinforcement to be to BS 4483.
10. Where foundations are to be loaded prior to 28 day concrete strength being achieved Burrows Graham must be consulted. An alternative concrete specification may be required.
11. Foundations are to be founded within engineered fill or natural ground. Any other excavation necessary in soft areas are to be backfilled to underside of foundation level using concrete fill.
12. Top level of foundations shall be as noted on the plans. Typically to be 350mm below SSL unless noted otherwise.
13. The steelwork design contractor is to design the holding down bolt, based on depths of foundation shown, pull out value using an allowable shear stress τ_c of the mass concrete base of 0.4N/mm². These bases are to be considered as unreinforced for holding down bolt calculations.
14. Fire boundary conditions have been determined by the Architect.
15. Bracing locations and steelwork loads have been determined by Severfields steelwork fabricators.
16. For orientation & setting out of stanchion baseplate holding down bolts refer to steelwork subcontractors drawings.
17. For latest drainage layout, refer to dig no. P23025-BGL-XX-XX-DR-C-00000.

Legend
 --- Site Boundary



SECTION 1-1
 1:50

COI	DATE	BY	REVISION
CO1	26/07/24	DRB	Final Construction
CO2	07/03/24	DRB	Detail Sections & Precast Dock Slab Updated
CO3	04/03/24	DRB	For Construction
PO1	23/02/24	DRB	For Information
PO2	22/02/24	DRB	For Information
PO3	05/12/23	DRB	Preliminary Issue
REV	DATE	BY	REVISION

Burrows Graham
 North Office: 5 Ambleside Place, Stockport Road, Altrincham WA15 8DB Tel: +44 (0)161 804 8046
 South Office: Backford House, Dover Miles, High Street, Bovehampton HP4 2BL Tel: +44 (0)1494 230 8402

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PROJECT
HORTON ROAD POYLE

DRAWING TITLE
Foundation G.A.

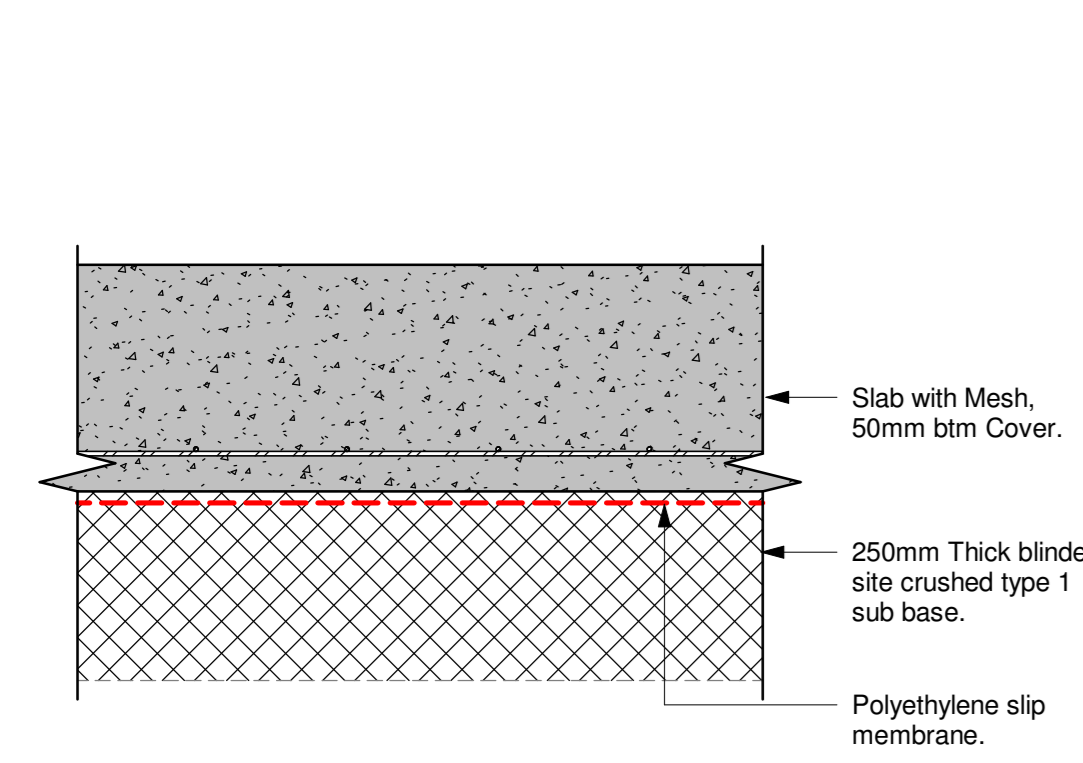
OUR PROJECT NUMBER	DRAWING STATUS	OFFICE	
22232	FINAL CONSTRUCTION	SOUTH	
SCALE @ AD	DATE	DRAWN BY	CHECKED BY
As indicated	05/12/23	DRB	DB
DRAWING No	REV		
P23025-BGL-XX-XX-DR-S-00100	CO3		

CONSTRUCTION	
MAINTENANCE	
DEMOLITION	

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

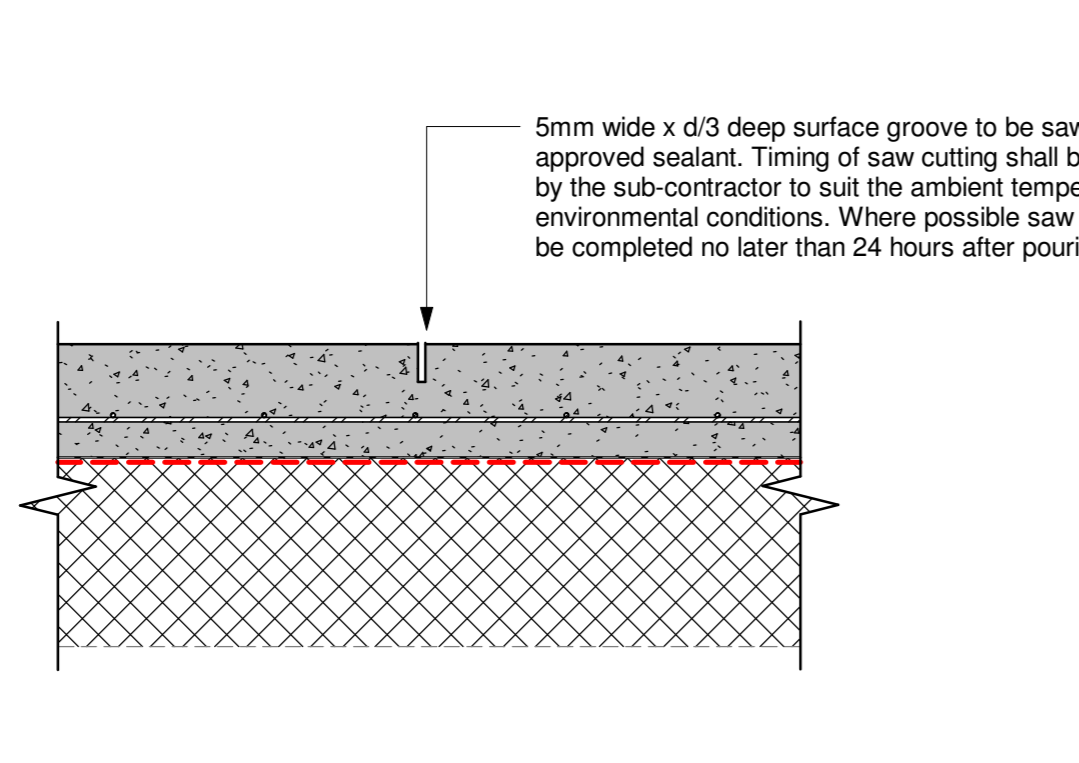
GENERAL NOTES:

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- The steelwork design contractor is to design the holding down bolt, based on depths of foundation shown, pull out value using an allowable shear stress of the mass concrete base of 0.4N/mm². These bases are to be considered as unreinforced for holding down bolt calculations.
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- For any internal portal bracing required by steelwork contractor, foundations to be set at 750mm below finished floor level if required to allow baseplate gussets to be concealed below slab level.
- For orientation & setting out of stanchion baseplate holding down bolts refer to steelwork subcontractors drawings.
- For latest drainage layout, refer to drg no. 2232-BGL-XX-DR-C-00250.
- Information is in conjunction with architect's project reference: 22400.



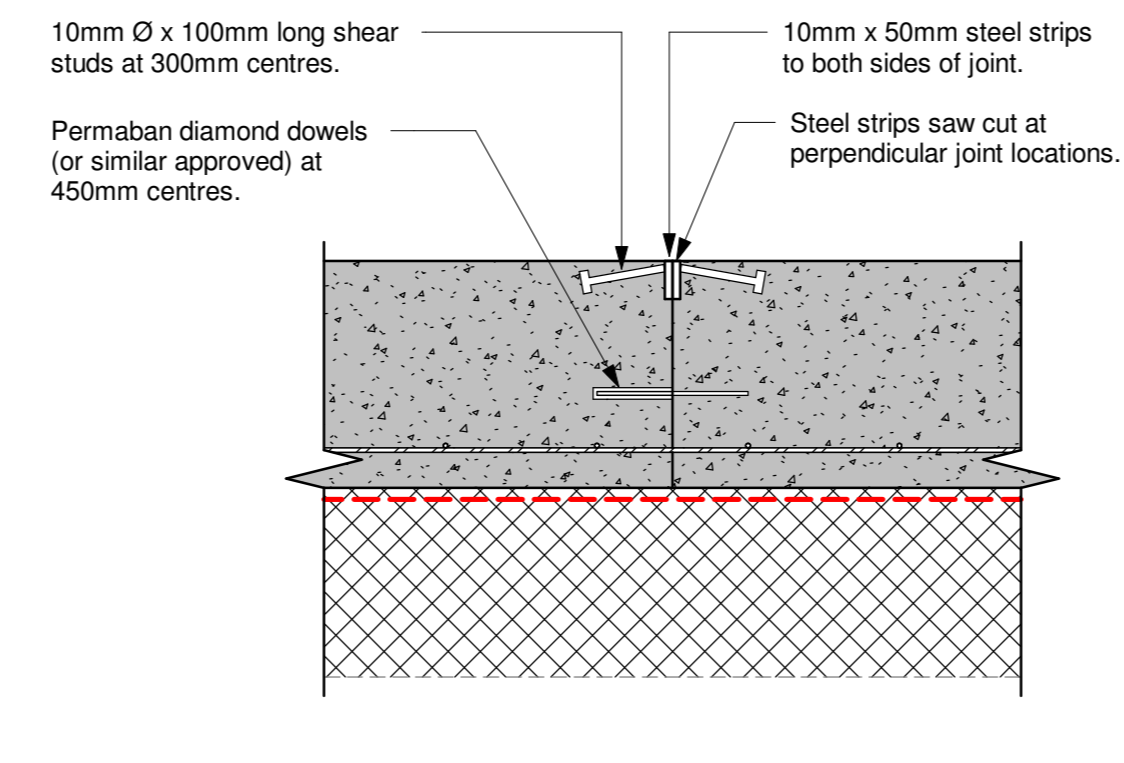
Formation level of capping layer to rigid inclusions to be rolled and compacted to achieve a min 5% CBR Contractor to allow for heavy compaction roller or engineered fill where significant areas of fill are required under the slab. Contractor to consider using Terram 2000 stone saver matting if needed to suit ground conditions.

Office Slab Make up
(for Main Warehouse slab design refer to Specialist Flooring Contractors Details)



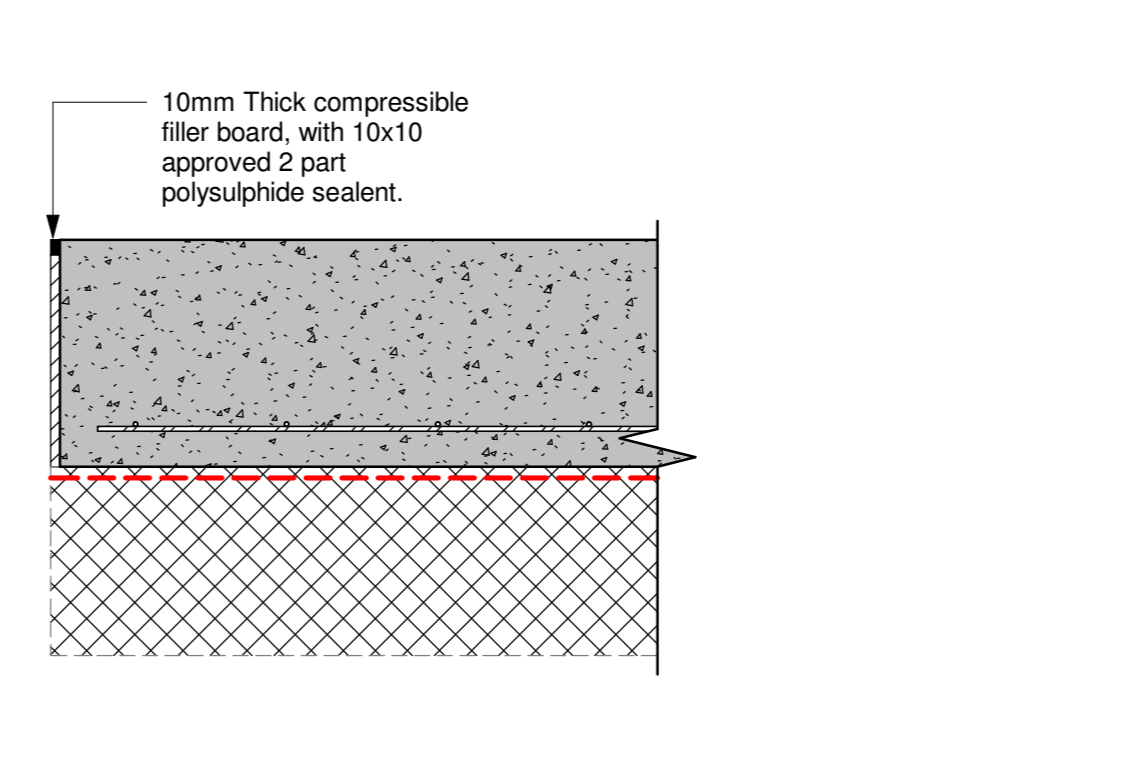
5mm wide x d/3 deep surface groove to be saw cut with an approved sealant. Timing of saw cutting shall be determined by the sub-contractor to suit the ambient temperature and environmental conditions. Where possible saw cutting shall be completed no later than 24 hours after pouring.

Office Typical Saw Cut Joint
(for Main Warehouse slab design refer to Specialist Flooring Contractors Details)



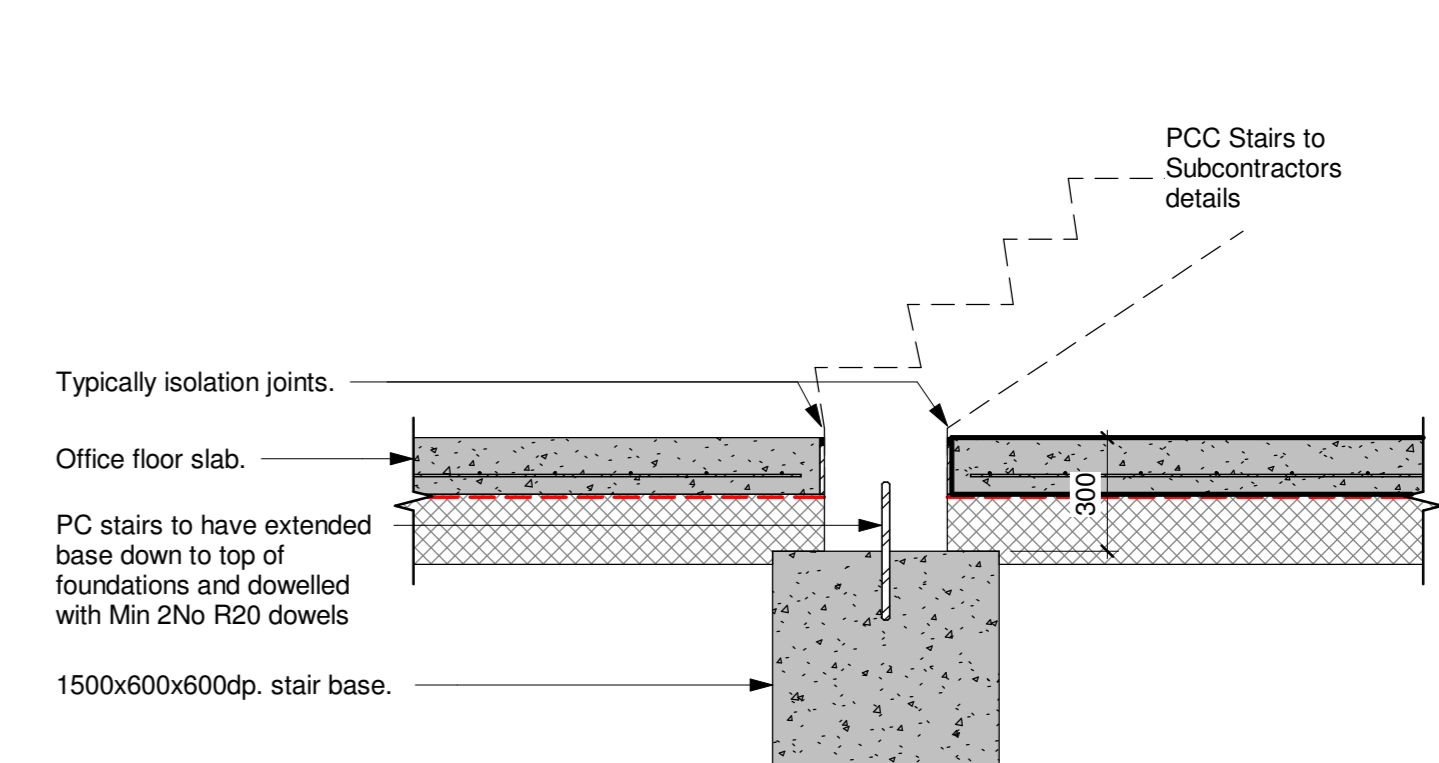
Detail shown is Permatan strip joint detail - other proprietary joints are available from the various flooring contractors. Steel plate to be minimum 10mm thick. Use for all formed contraction joints in trafficked areas. Level of steel plate to be checked with precision level equipment prior to casting.

Office Armoured Dav Joint (ADJ)
(for Main Warehouse slab design refer to Specialist Flooring Contractors Details)



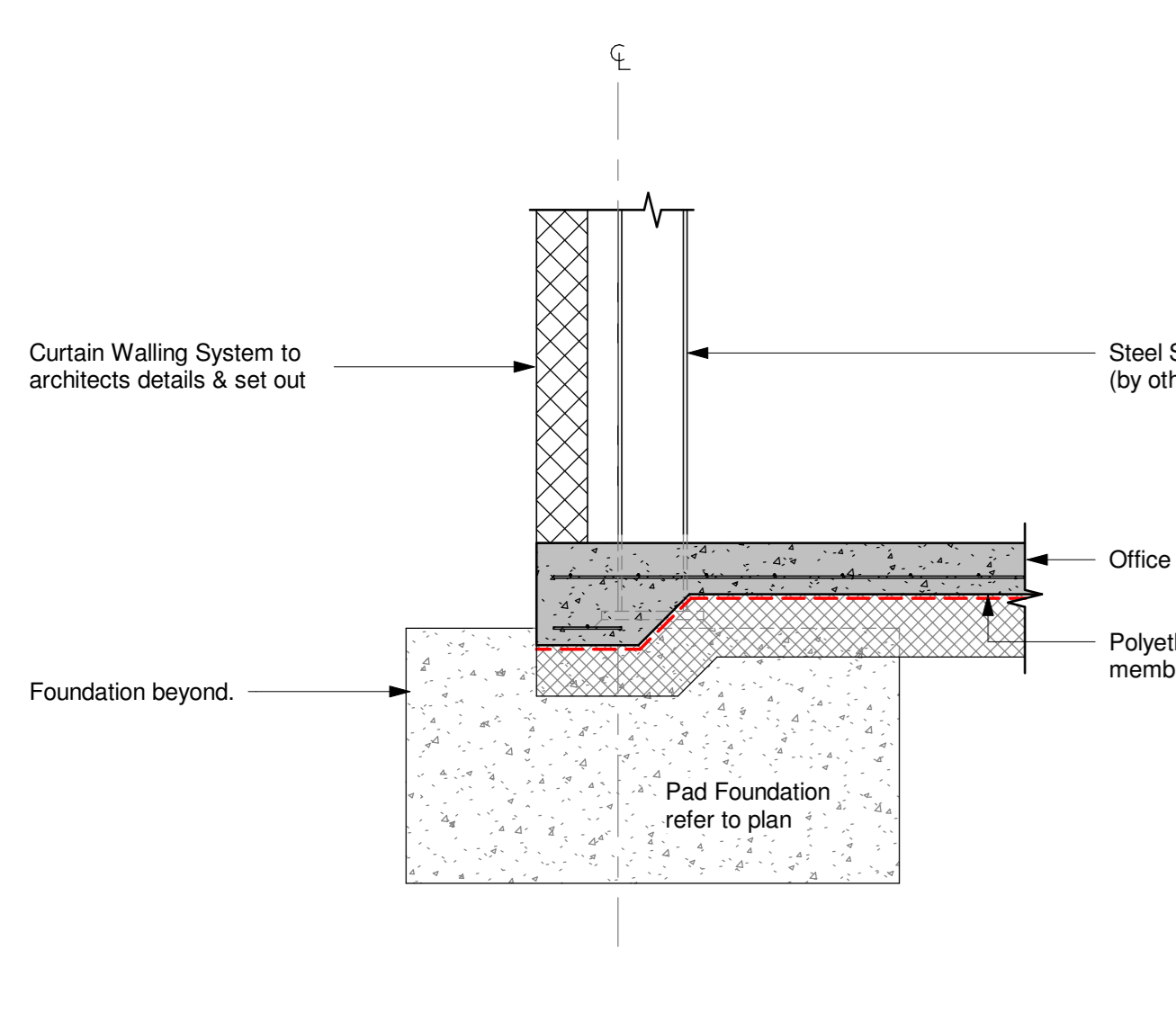
10mm Thick compressible filler board, with 10x10 approved 2 part polysulphide sealant.

Office Typical Isolation Joint
(for Main Warehouse slab design refer to Specialist Flooring Contractors Details)

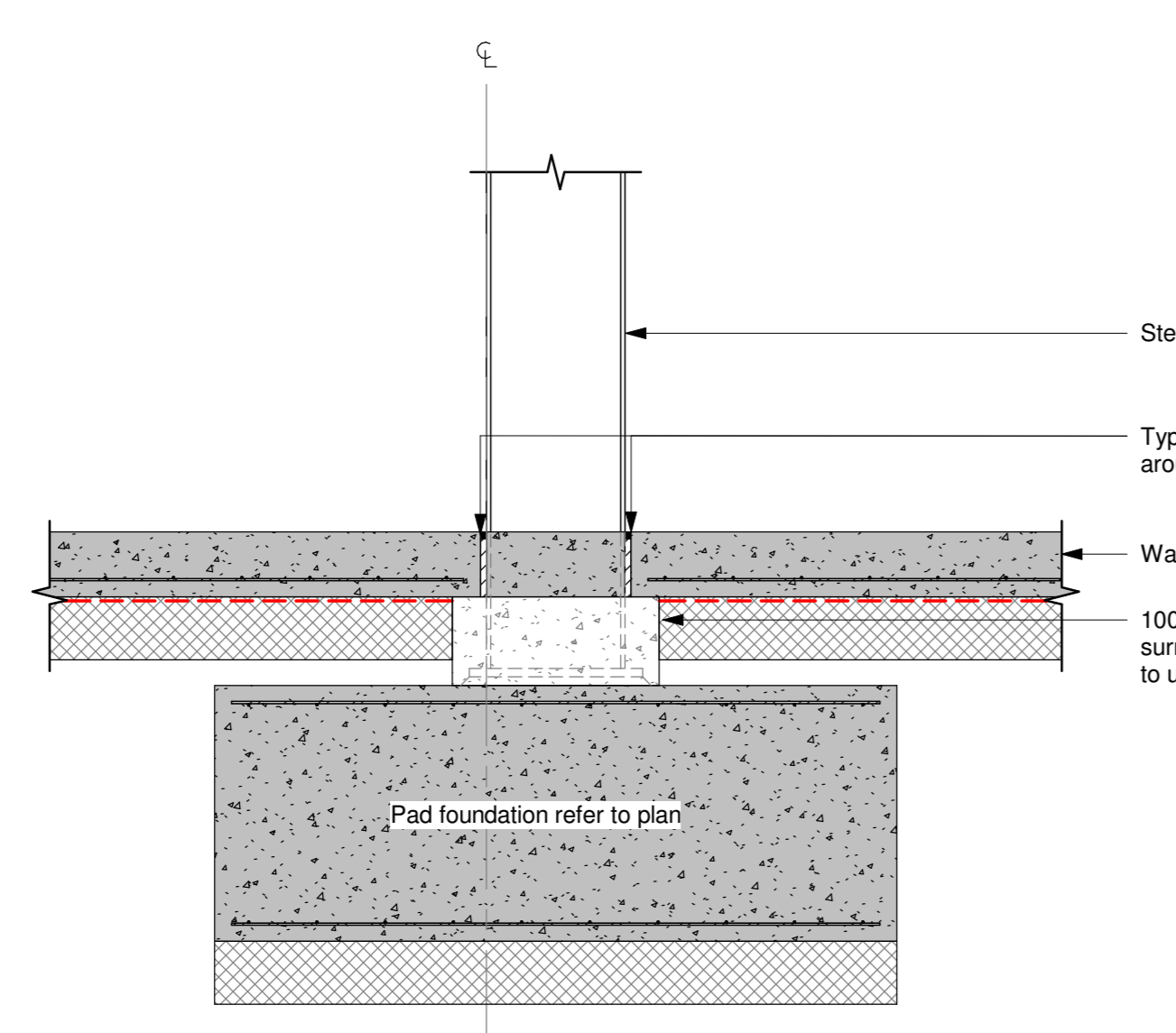


Typically isolation joints.
Office floor slab.
PC stairs to have extended base down to top of foundations and dowelled with Min 2No R20 dowels.
1500x600x600pc stair base.

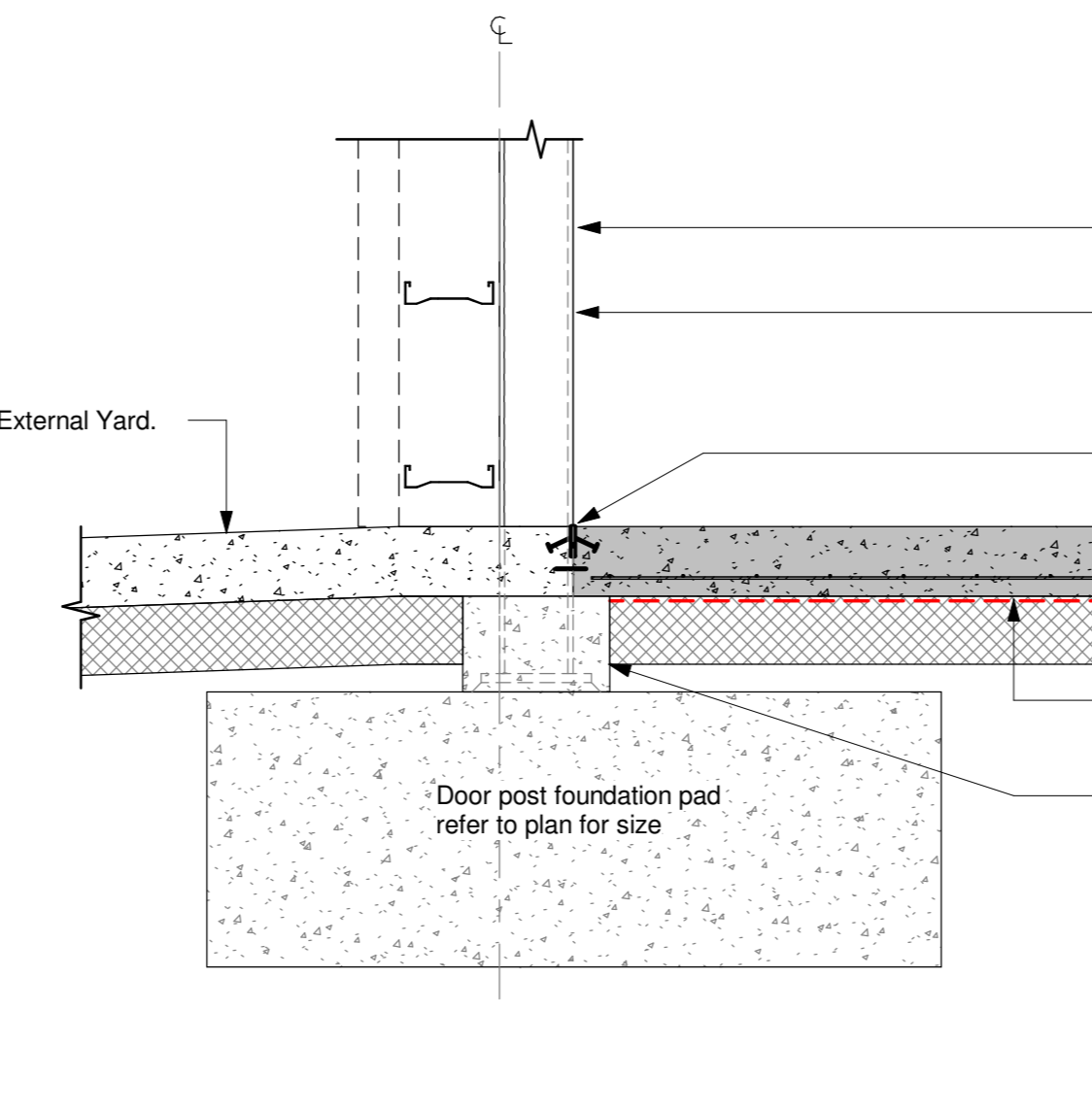
PC Stair Support Detail



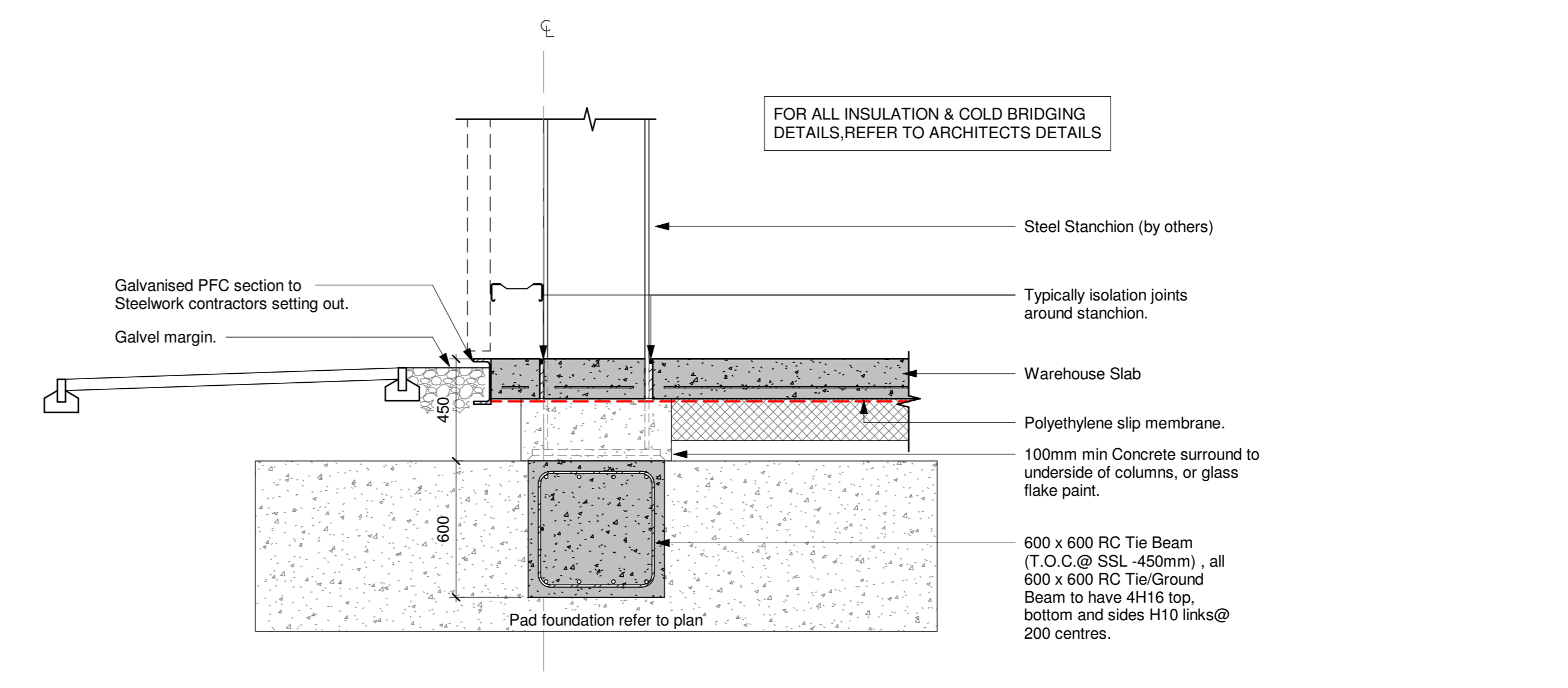
Slab Edge Thickening at Curtain wall locations



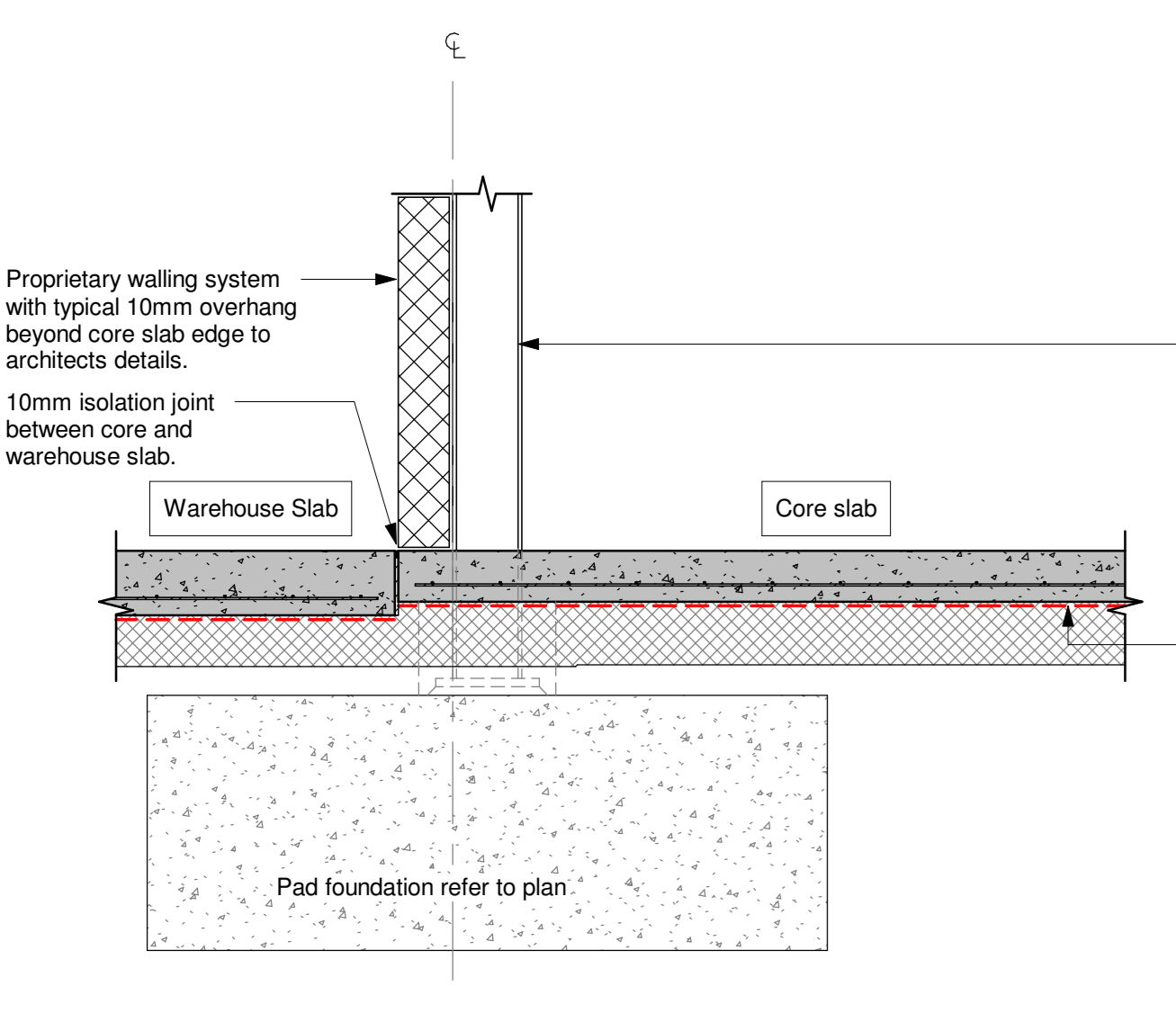
Typical Section Through Valley Column



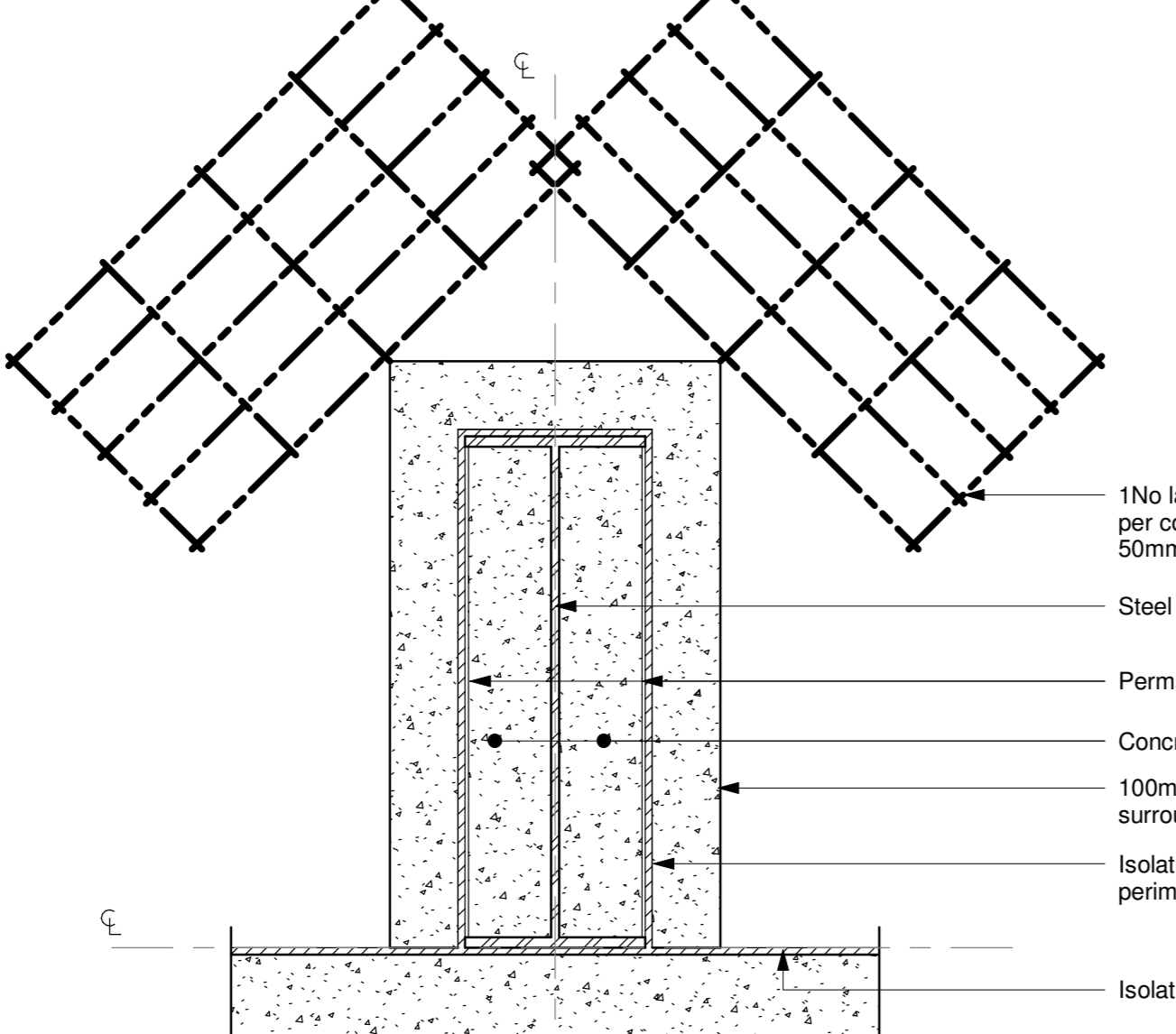
Typical Section Through Level Access Door



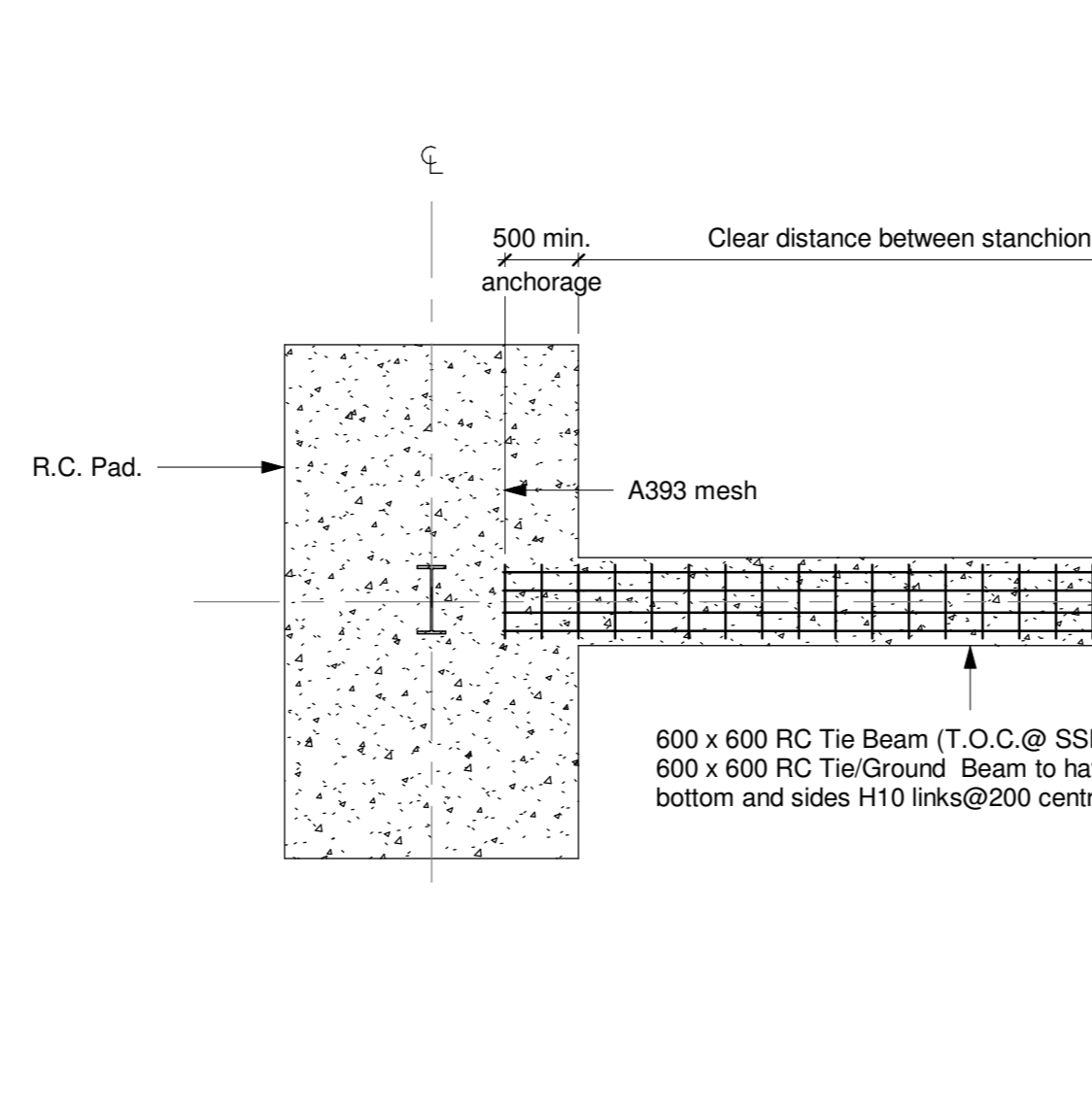
Typical Section Through 600x600 R.C. Tie Beam



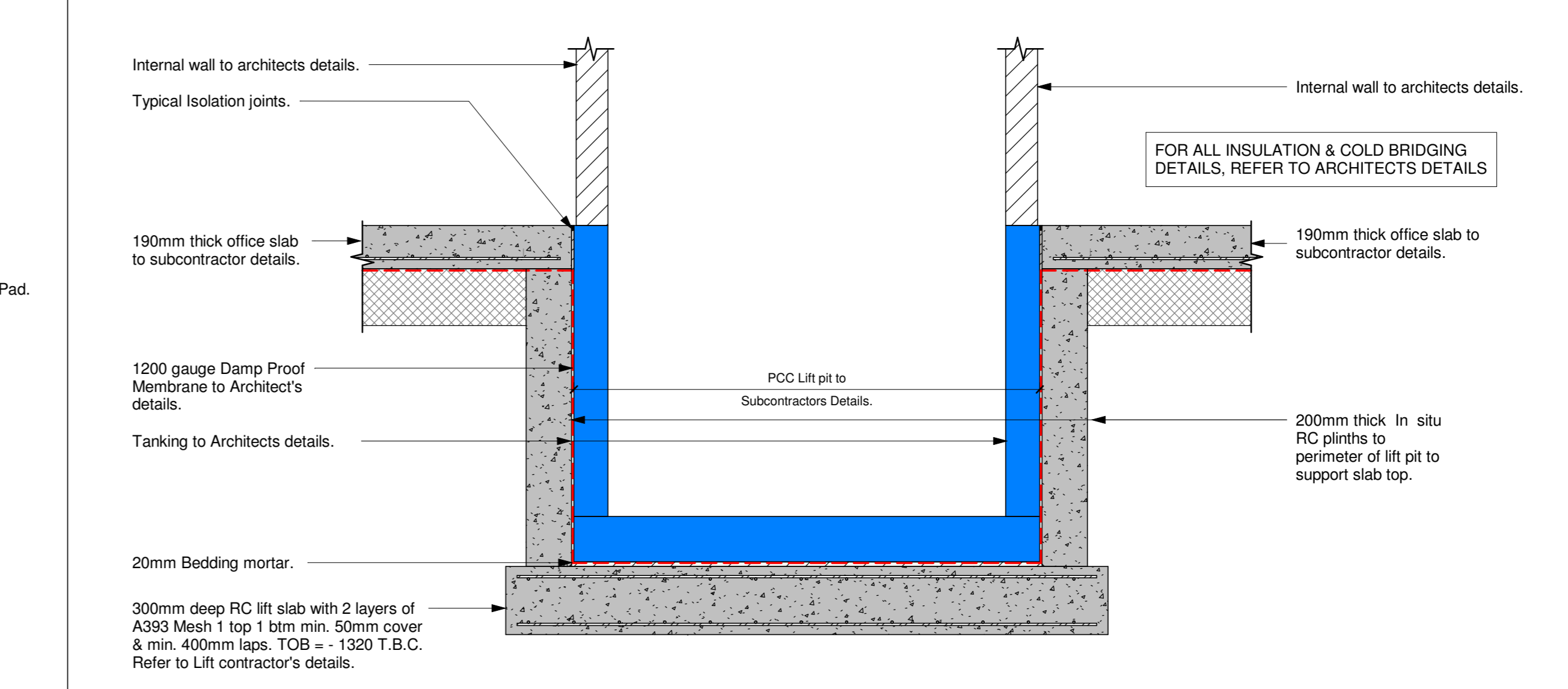
Typical Interface Between Core & Warehouse Slab



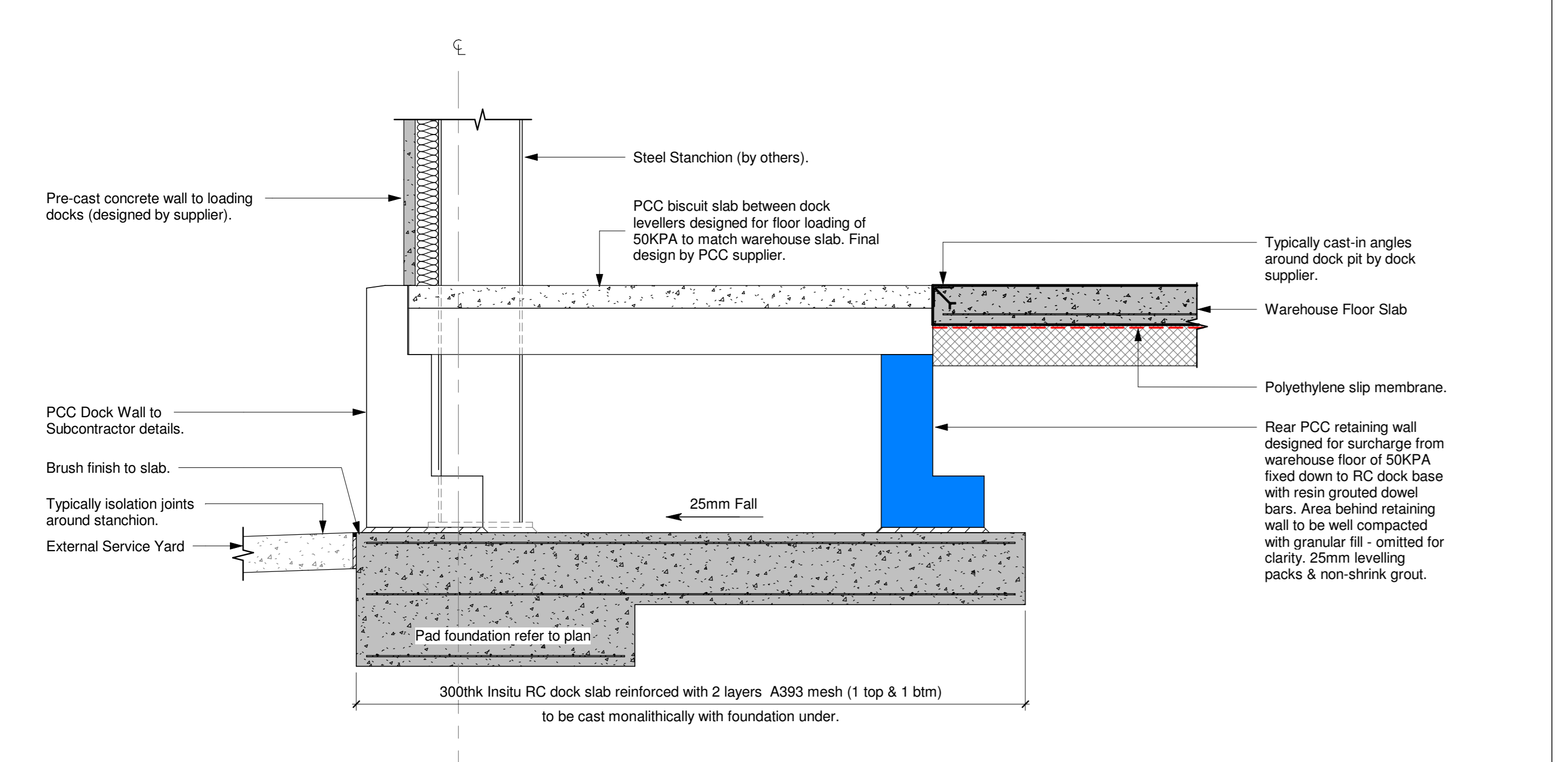
Typical Details of Perimeter Columns



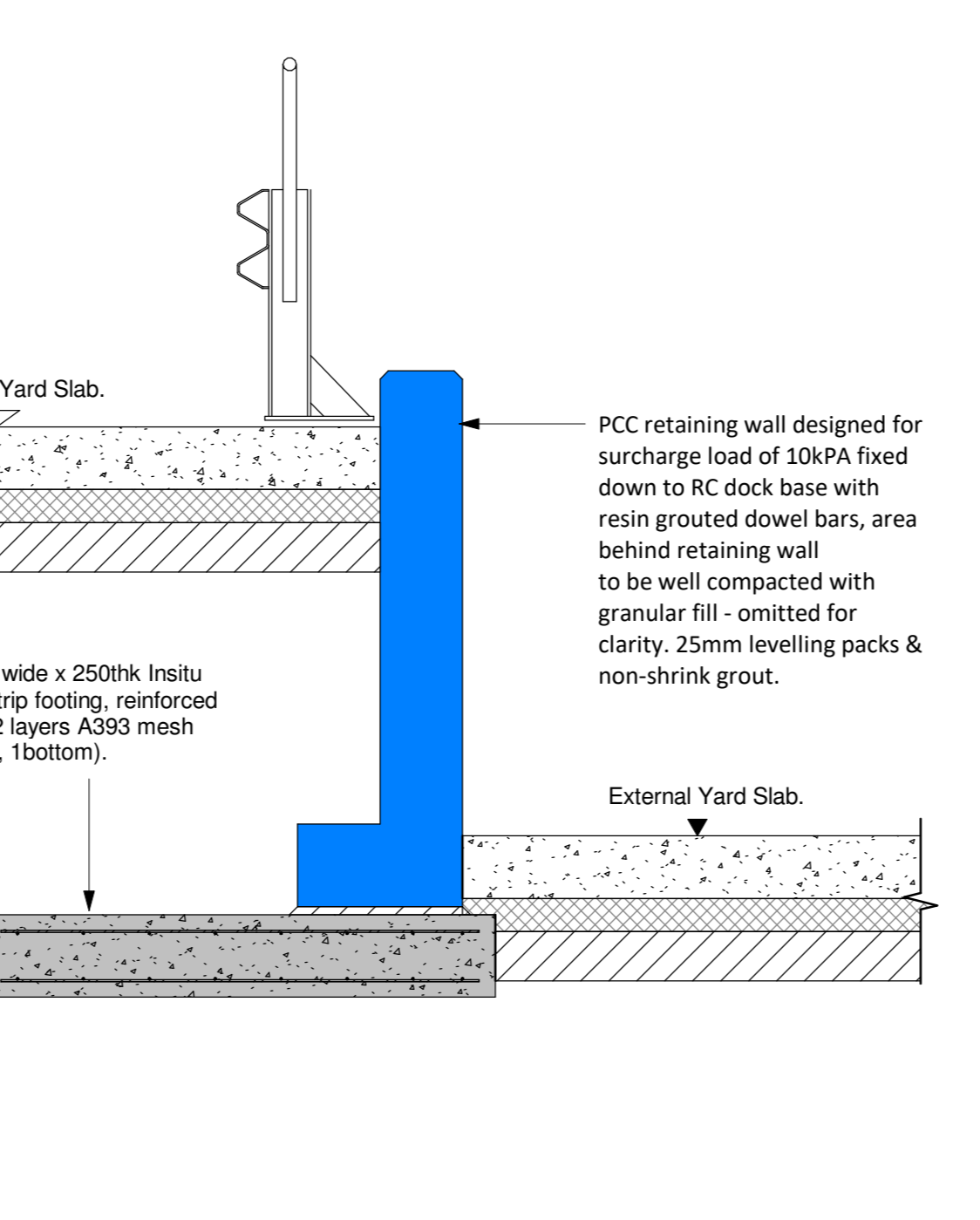
Typical G.A. and R.C. Details on 600 x 600 Tie Beams



Section Through PC Lift Pit



Section Through Loading Dock



Section Through Yard Retaining Wall

CO1	26/07/24	DRB	Final Construction	DB
PO1	05/12/23	DRB	Preliminary Issue	DB
REV	DATE	BY	REVISION	CHK

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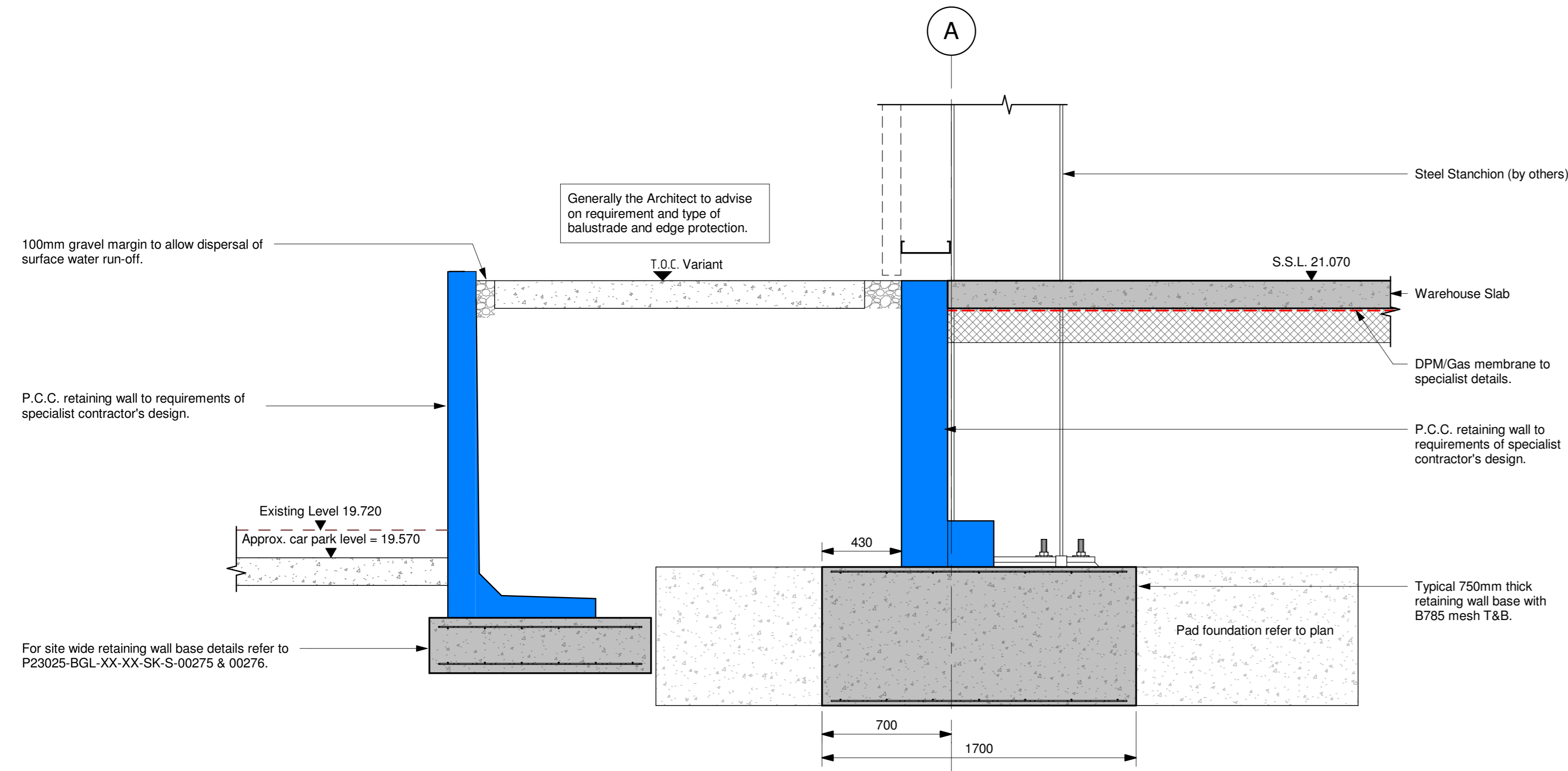
PROJECT
HORTON ROAD POYLE

DRAWING TITLE Foundation & Slab Typical Sections & Details			
OUR PROJECT NUMBER 2232	DRAWING STATUS FINAL CONSTRUCTION	OFFICE SOUTH	CHECKED BY
SCALE @ AD As indicated	DATE 05/12/23	DRAWN BY DRB	REV
DRAWING No P23025-BGL-XX-DR-S-00105			REV CO1

CONSTRUCTION
MAINTENANCE
DEMOLITION

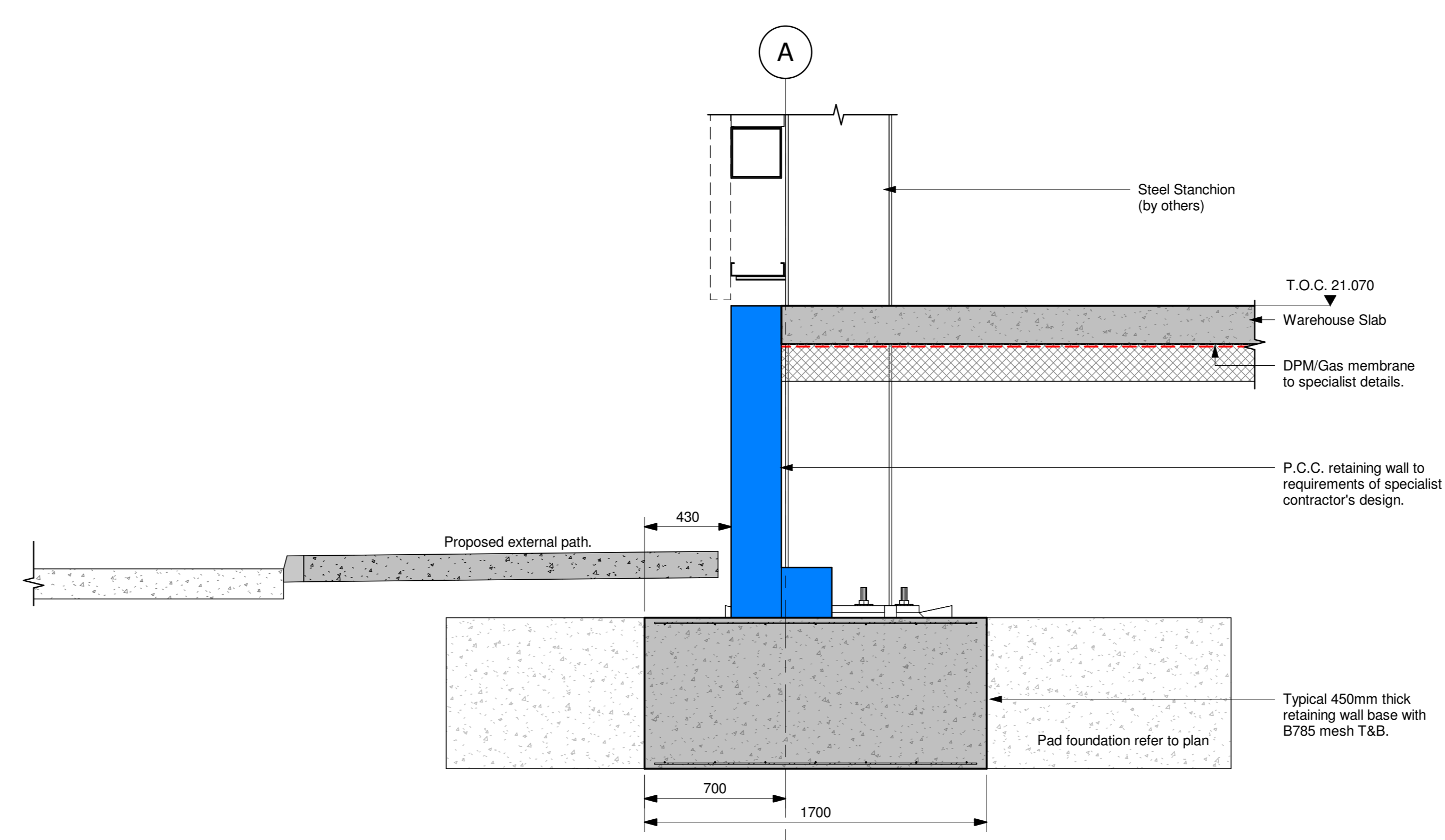
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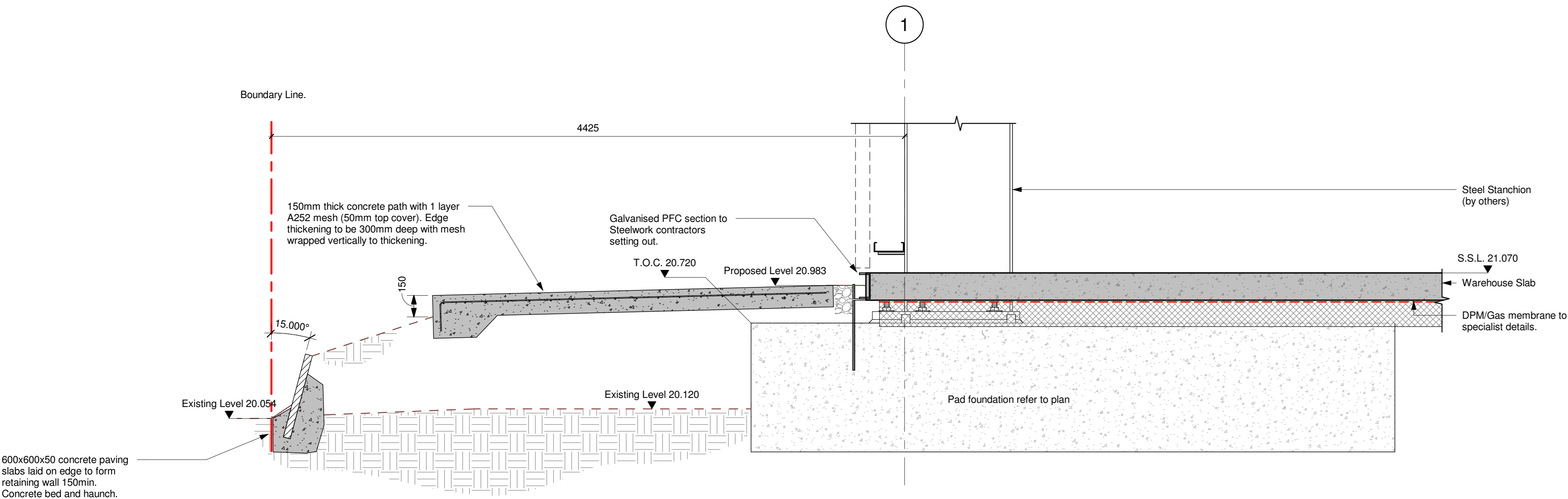
SECTION 1-1

1 : 20



SECTION 2-2

1 : 20



SECTION 3-3

1 : 20

CO2	26/07/24	DRB	Final Construction	DB
CO1	07/03/24	DRB	For Construction	DB
PO1	05/12/23	DRB	Preliminary Issue	DB
REV	DATE	BY	REVISION	CHK

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PROJECT
HORTON ROAD POYLE

DRAWING TITLE
Foundation & Slab Sections

OUR PROJECT NUMBER	DRAWING STATUS	OFFICE
22232	FINAL CONSTRUCTION	SOUTH
SCALE @ AD	DATE	DRAWN BY
1 : 20	05/12/23	DRB
DRAWING No	CHECKED BY	REV
P23025-BGL-XX-XX-DR-S-00106	DB	CO2