

ST AMBROSE ANGLICAN CHURCH, GILGANDRA, NSW

FOUNDATION UNDERPINNING

GENERAL

- G1. THE BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING STABILITY OF THE STRUCTURE UNTIL COMPLETION OF CONSTRUCTION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVER STRESSED BY EXCESSIVE CONSTRUCTION LOADING.
- G2. TEMPORARY WORKS ARE THE RESPONSIBILITY OF THE CONTRACTOR, THESE INCLUDE SUCH ITEMS AS PROPPING, TEMPORARY SHORING & RETENTION, MAINTAINING TEMPORARY STABILITY OF THE STRUCTURE, FORMWORK, CRANE BASE, TEMPORARY WORKING PLATFORMS, FACADE RETENTION SYSTEMS AND GROUND IMPROVEMENT TO SUPPORT CONSTRUCTION PLANT.
- G3. THE DESIGN OF ALL TEMPORARY WORKS WILL BE UNDERTAKEN BY A QUALIFIED TEMPORARY WORKS ENGINEER APPOINTED BY THE CONTRACTOR.
- G4. STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL & OTHER CONSULTANTS DRAWINGS & SPECIFICATIONS.
- G5. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE FOLLOWING CODES EXCEPT WHERE VARIED BY THE SPECIFICATION AND / OR DRAWINGS.
- AS.1720 TIMBER STRUCTURES
 - AS.2159 PILING CODE
 - AS.3600 CONCRETE STRUCTURES
 - AS.3610 FORMWORK FOR CONCRETE
 - AS.3700 MASONRY STRUCTURES
 - AS.4100 STEEL STRUCTURES
 - AS.2269 STRUCTURAL PLYWOOD
 - NATIONAL CONSTRUCTION CODE OF AUSTRALIA
- G6. DIMENSIONS NOT TO BE SCALED.

SET OUT DIMENSIONS ARE TO BE VERIFIED WITH ARCHITECT.

WHERE BLIGH TANNER ARE REQUIRED TO PROVIDE CONSTRUCTION CERTIFICATION, THE CONTRACTOR IS TO ADVISE THE STRUCTURAL ENGINEER OF COMMENCEMENT OF CONSTRUCTION AND PROVIDE MINIMUM 24HRS NOTICE SO THAT INSPECTIONS OF STRUCTURAL ELEMENTS CAN BE UNDERTAKEN. FAILURE TO NOTIFY THE ENGINEER OF WORK AND FACILITATE AN INSPECTION WILL RESULT IN WORKS BEING EXCLUDED FROM CERTIFICATION

CONCRETE

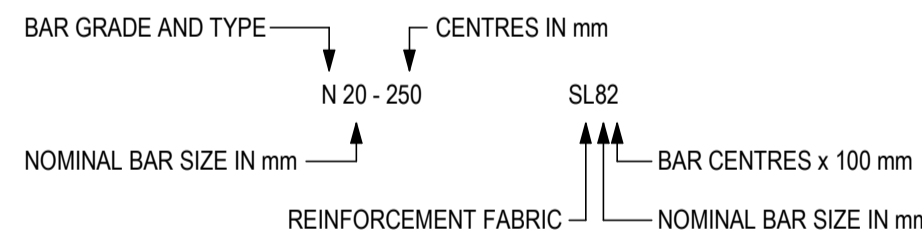
- C1. CONCRETE SPECIFICATION
- | | |
|-------------------|-------------------|
| SLUMP | 80mm |
| MAXIMUM AGGREGATE | 20mm |
| CEMENT | TYPE 'A' PORTLAND |
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS.3600 AND THE SPECIFICATION TEST REPORTS TO BE SUBMITTED TO THE PRINCIPAL FOR APPROVAL.
- C2. CONCRETE STRENGTH & CLEAR COVER (INCLUDING FITMENTS) TO BE AS FOLLOWS

ELEMENT	CONCRETE GRADE	COVER		
		BOTTOM	TOP	SIDES
BORED PIERS	N32	50	50	65
FOOTINGS	N32	50	50	50
SLAB ON GROUND				
- INTERNAL	N32	40	40	40
- EXTERNAL	N32	40	40	40
WALLS	N32	-	40	40

- C3. ALL SLABS TO BE SPRAYED WITH ALIPHATIC ALCOHOL BARRIER AFTER INITIAL SCREEDING AND BULLFLOATING. ALIPHATIC ALCOHOL TO BE RE-APPLIED AFTER EACH SUBSEQUENT FINISHING OPERATION.
- C4. CURE ALL CONCRETE SURFACES IN ACCORDANCE WITH AS.3600. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. USE OF AN APPROVED CURING AGENT. APPLY CURING COMPOUNDS WITHIN TWO HOURS OF THE FINISHING OPERATION.
- C5. ALL RE-ENTRANT CORNERS AND PENETRATIONS LARGER THAN 200 SQUARE ARE TO HAVE TRIMMER BARS PLACED DIAGONALLY AT CORNERS. TRIMMER BARS SHALL BE 2 N12 x 1200 LONG AT 100 CENTRES. TOP & BTM FOR SUSPENDED SLABS. FOR SLABS ON GROUND PROVIDE TRIMMER BARS FOR EACH LAYER OF MESH.
- C6. ALL HOOKS AND BENDS TO BE IN ACCORDANCE WITH AS.3600. UNLESS NOTED OTHERWISE ALL LAPS TO BE :

BAR SIZE	STRUCTURAL ELEMENT			
	STAIRS, LANDINGS & SLABS <300 THICK	BEAMS, WALLS & SLAB >300 THICK	COLUMNS	BORED PIERS FOOTINGS
N12	450	600	600	600
N16	700	900	650	900
N20	950	1200	850	1200
N24	1200	1600	1000	1600
N28	1500	2000	1200	2000
N32	1800	2400	1400	2400

- MESH LAP TO BE 2 OUTER MOST CROSS BARS OF 1 SHEET LAPPED WITH 2 OUTER MOST BARS OF THE 2ND SHEET OF SIMILAR BAR SPACING
- C7. USE PLASTIC OR PLASTIC TIPPED BAR CHAIRS AT 600 CENTRES FOR SL72 & 82 MESH AND AT 800 CENTRES FOR SL92 MESH & GREATER.
- C8. CONSTRUCTION JOINTS WHERE NOT SHOWN ON DRAWINGS SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER AND PRINCIPAL.
- C9. BASIC DRYING SHRINKAGE STRAIN MEASURED IN ACCORDANCE WITH AS.1012 - PART 13 SHALL NOT EXCEED 800 µm.
- C10. FOR FALLS, STEPS, CHAMFERS, DRIP GROOVES, REGLETS ETC. REFER TO ARCHITECTS DETAILS. MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.
- C11. CONDUITS, PIPES, ETC SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF ARCHITECTS SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS.
- C12. REINFORCEMENT SYMBOLS
- 'N' - DENOTES GRADE 500 BARS TO AS.4671.
 - 'R' - DENOTES GRADE 250 HOT ROLLED PLAIN BARS TO AS.4671.



- C13. REINFORCEMENT LENGTHS TO BE DETERMINED WITH REFERENCE TO THE GEOMETRY AND SETOUT ON THE ARCHITECTS DRAWINGS.
- C14. PROVIDE 50mm BEDDING SAND & DAMP PROOF MEMBRANE UNDER ALL GROUND SLABS.
- C15. ALL CONCRETE TO BE VIBRATED DURING PLACEMENT.
- C16. ALL REINFORCEMENT TO BE SECURELY TIED PRIOR TO PLACEMENT OF CONCRETE.
- C17. PROPPING AND FORMWORK TO BE IN ACCORDANCE WITH AS.3610.
- C18. NO CONCRETE IS TO BE POURED ON THE SITE WHEN TEMPERATURES EXCEED 35°C OR FALL BELOW 5°C.
- C19. THE REINFORCEMENT STEEL SUPPLIER MUST BE CERTIFIED BY ARCS (AUSTRALIAN STANDARDS CERTIFICATION & VERIFICATION OF REINFORCING, PRESTRESSING AND STRUCTURAL STEELS) FOR THE SUPPLY OF REINFORCEMENT STEEL. CURRENT ARCS CERTIFICATION CERTIFICATES ARE TO BE ISSUED TO BLIGH TANNER PRIOR TO DELIVERY OF REINFORCING STEEL TO SITE. REFER <http://steelcertification.com> FOR CURRENT CERTIFICATE HOLDERS.
- C20. WHERE CONCRETE SURFACES ARE EXPOSED AND EXPRESSED ARCHITECTURALLY NATURAL SAND IS TO BE USED IN THE CONCRETE MIX IN LIEU OF MANUFACTURED SAND.
- C21. WHERE COLOURED CONCRETE IS SPECIFIED A TRIAL RUN AND TEST PANEL OF THE FINISHED CONCRETE IS TO BE COMPLETED FOR APPROVAL BY THE ARCHITECT AND ENGINEER. CORE SAMPLE OF THE TRIAL RUN ARE TO BE TAKEN AND CRUSHED TO CONFIRM SPECIFIED CONCRETE STRENGTH HAS BEEN ACHIEVED.

UNDERPINNING

U1. SUITABLE TEMPORARY WORKS ARE TO BE IN PLACE AND REVIEWED BY A QUALIFIED TEMPORARY WORKS ENGINEER PRIOR TO UNDERMINING THE EXISTING FOUNDATIONS. REFER TO INDICATIVE TEMPORARY PROPPING PLAN ON SHEET SSK10.

U2. FOLLOWING COMPLETION OF THE UNDERPINNING WORKS, CONFIRMATION FROM THE STRUCTURAL ENGINEER IS TO BE PROVIDED PRIOR TO REMOVING THE TEMPORARY PROPPING

U3. WHERE NO JACKING REQUIRED

- (i) EXCAVATE AND CAST NEW FOOTINGS AS PER PLAN.
- (ii) REPEAT FOR NEXT SUCCESSIVE FOUNDATION SECTIONS, ALLOWING 48 HOURS BETWEEN COMPLETION OF DRY PACKING & COMMENCEMENT OF THE EXCAVATION OF THE NEXT AREA

U4. WHERE JACKING IS TO BE ATTEMPTED

- (i) EXCAVATE AND CAST NEW FOOTINGS TO SECTIONS AS PER PLAN
- (ii) AFTER 24 HOURS, INSTALL TEMPORARY PACKING SHIMS BETWEEN NEW FOUNDATIONS AND UNDERSIDE OF EXISTING STRUCTURE.
- (iii) REPEAT STEPS (i) AND (ii) FOR NEXT SUCCESSIVE SECTION MARK NUMBER
- (iv) INSTALL JACKS ACROSS BUILDING FOOTPRINT OR WITHIN SELECTED AREAS. CAREFULLY AND PROGRESSIVELY INFLATE JACKS SO AS TO REVERSE ANY SETTLEMENT EFFECTS. DO NOT RAISE ANY JACK MORE THAN 5mm VERTICALLY WITHOUT THOROUGHLY CHECKING FOR ADVERSE DISTRESS EFFECTS TO THE STRUCTURE.
- (v) ONCE JACKING OPERATIONS ARE COMPLETE TO THE SATISFACTION OF THE ENGINEER, RE-INSTALL TEMPORARY PACKING SHIMS AND REMOVE JACKS.
- (vi) INSTALL NON-SHRINK DRY PACK AS REQUIRED BETWEEN NEW FOUNDATIONS AND UNDERSIDE OF EXISTING STRUCTURE

U5. CONTRACTOR SHALL EXCAVATE UNDER EXISTING STRIP FOOTINGS IN AN ORDERED SEQUENCE. EXISTING GROUND ON UNDERSIDE EITHER SIDE OF THE NEW FOOTINGS TO REMAIN IN TACT TO PROVIDE FULL SUPPORT TO EXISTING FOOTING UNTIL UNDERPINNING SECTION HAVE CURED FOR A MINIMUM OF 5 DAYS

U6. UNDERPINNING CONCRETE TO BE PLACED TIGHT TO UNDERSIDE OF EXISTING FOOTING. ENSURE THERE ARE NO VOIDS PRESENT. USE LETTER BOX SHUTTER OR DRY PACK HIGH STRENGTH 50MPa GROUT

U7. ROCK BEARERS OR HAMMERS ARE NOT PERMITTED. VIBRATION SHALL BE LIMITED TO A MAXIMUM 5mm/s PARTICLE VELOCITY. SUITABLE MONITORING SHALL BE INSTALLED.

SCREW PILES

- SP1. ALL PILES TO BE DESIGNED, MANUFACTURED AND INSTALLED BY THE PILING CONTRACTOR. ALL PILES TO BE CERTIFIED (SUPPLY FORMS 15 & 16) FOR DESIGN AND INSTALLATION BY A PRACTICING PROFESSIONAL ENGINEER. NOTE THAT INSTALLATION INCLUDES TRIMMING AND REMOVING OF EXCESS LENGTHS AND INSTALLING DOWEL HEAD PINS).
- SP2. EFFECTIVE LENGTH TO BE DETERMINED BY THE DESIGNER (MINIMUM 6m)
- SP3. PILES TO COMPLY WITH THE FOLLOWING:
50mm MAXIMUM DESIGN ECCENTRICITY
50mm MAXIMUM INSTALLATION TOLERANCES
- SP4. ALLOW FOR A MINIMUM CORROSION RATE OF 0.02mm / YEAR.
- SP5. PILES TO HAVE A DESIGN LIFE OF 50 YEARS.
- SP6. ALL PILES TO BE CONCRETE CORE FILLED WITH A MINIMUM 32MPa CONCRETE WITH 6mm AGGREGATE. PILES TO BE CUT OFF 150mm ABOVE UNDERSIDE OF PILE CAP AND PILES TO BE CLOSED ENDED TYP.
- SP7. PROVIDE "AS BUILT" DRAWINGS WITH SURVEYED FINAL LOCATIONS

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REV	DATE	DESCRIPTION	ISSUED
A	16/09/24	FOR CONSTRUCTION	EMN
B	26/09/24	FOR CONSTRUCTION	EMN

FOUNDATIONS

- F1. REFER TO GEOTECHNICAL REPORT BY:

GEOTECHNICAL ENGINEER	GEOTECHNICAL REPORT	DATE
BARNSON	40088-GR01_D	JULY 2024

- FOR GROUND CONDITIONS
- F2. FOUNDATION EXCAVATIONS TO BE MAINTAINED IN A FIRM DRY CONDITION. REMOVE ANY SOFT GROUND & FILL WITH MASS CONCRETE.
- F3. EXCAVATION SHALL NOT BE PERFORMED BELOW THE LINE OF INFLUENCE EXTENDING FROM THE EXISTING FOOTING.
- LINE OF INFLUENCE:
- IN ROCK - 2 VERTICAL TO 1 HORIZONTAL
 - IN SILT OR CLAY - 1 VERTICAL TO 1 HORIZONTAL
 - IN SAND OR OTHER MATERIAL - 1 VERTICAL TO 2 HORIZONTAL
- F4. REFER TO GROUNDWORKS SPECIFICATION CLAUSE SUPPORTING EXCAVATIONS.
- F5. ALL FOOTINGS SHALL BE COMPACTED IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS AND FOUNDED ON NATURAL UNDISTURBED MATERIAL.

FOOTING	MINIMUM ALLOWABLE BEARING CAPACITY
CONCRETE PILES	364kPa INTO HARD CLAY

- F6. BUILDER TO ENGAGE CERTIFIED GEOTECHNICAL ENGINEER TO CONFIRM MINIMUM ALLOWABLE BEARING CAPACITY AT BUILDER'S EXPENSE
- F7. STRUCTURAL FILL TO BE NON REACTIVE CBR15 PLACED IN 200 THICK LOOSE LAYERS & COMPACTED TO 98% M.D.

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PROJECT		
ST AMBROSE ANGLICAN CHURCH		
94 WAMBOIN STREET, GILGANDRA, NSW		
DRAWING TITLE		
GENERAL NOTES		
JOB NO	DRAWING NUMBER	REVISION
2022.0793	SK000	B

GENERAL NOTES:

- TEMPORARY PROPPING OF EXISTING MASONRY ARCHES DURING UNDERPINNING BY TEMPORARY WORKS ENGINEER ENGAGED BY THE CLIENT
- NEW TIMBER BEARERS TO INCORPORATE JACKING SYSTEM TO ALLOW FOR FUTURE ADJUSTABILITY OF BEARERS, RECOGNISING THAT FUTURE BUILDING MOVEMENT OF STRUCTURE FOUNDED AT HIGH LEVEL IS LIKELY

SCREW PILE LEGEND:

MARK	MAX AXIAL LOAD	MAX MOMENT DEMAND	COMMENT
SP1	310kN	5kNm	MIN 168 x 6.0mm CHS G350
SP2	450kN	10kNm	MIN 168 x 6.0mm CHS G350
SP3	150kN	45kNm	MIN 219 x 6.0mm CHS G350

* PILES, INCLUDING CONNECTION TO PILE CAPS, TO BE DESIGNED BY CONTRACTOR WITH REFERENCE TO THE GEOTECHNICAL REPORT TO ACHIEVE THE GIVEN PILE LOAD. PROPOSED FOUNDATION CONNECTION TO BE PROVIDED TO BLIGH TANNER FOR REVIEW PRIOR TO CONSTRUCTION

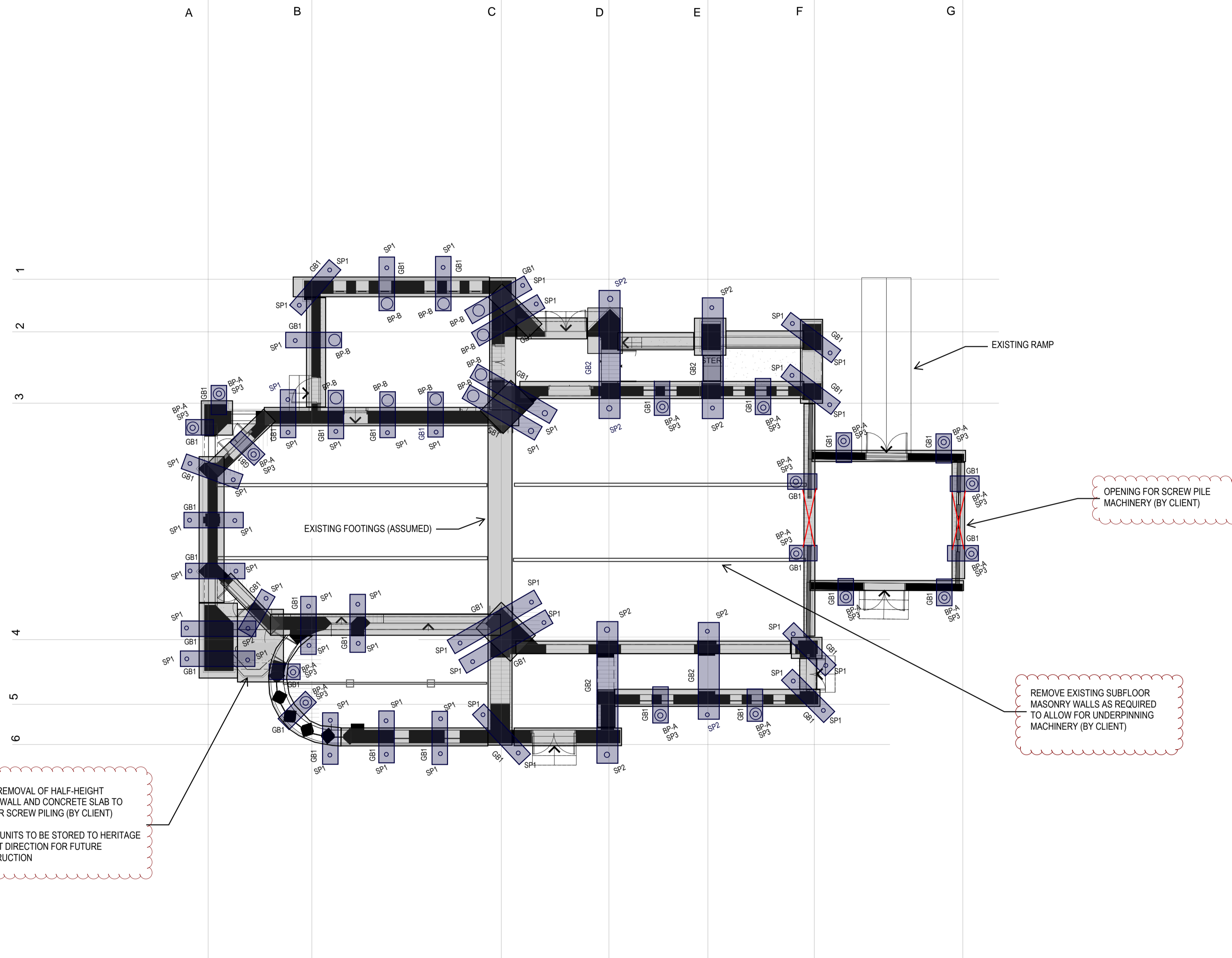
* SCREW PILE LOADS PROVIDED ARE TO SUPPORT GRAVITY LOADS FROM STRUCTURE ONLY

GROUND BEAMS LEGEND:

DIMENSIONS			REINFORCEMENT			LIGS
MARK	WIDTH	DEPTH	A	B	C	
GB1	600	600	4N24	4N24	-	2 LEGS N12-200 ctrs
GB2	800	800	5N24	4N20	2N20	2 LEGS N12-300 ctrs

BORED PIER:

MARK	DIAMETER	DEPTH
BP-A	450	1500
BP-B	450	6800



FOUNDATION PLAN
SCALE 1:100

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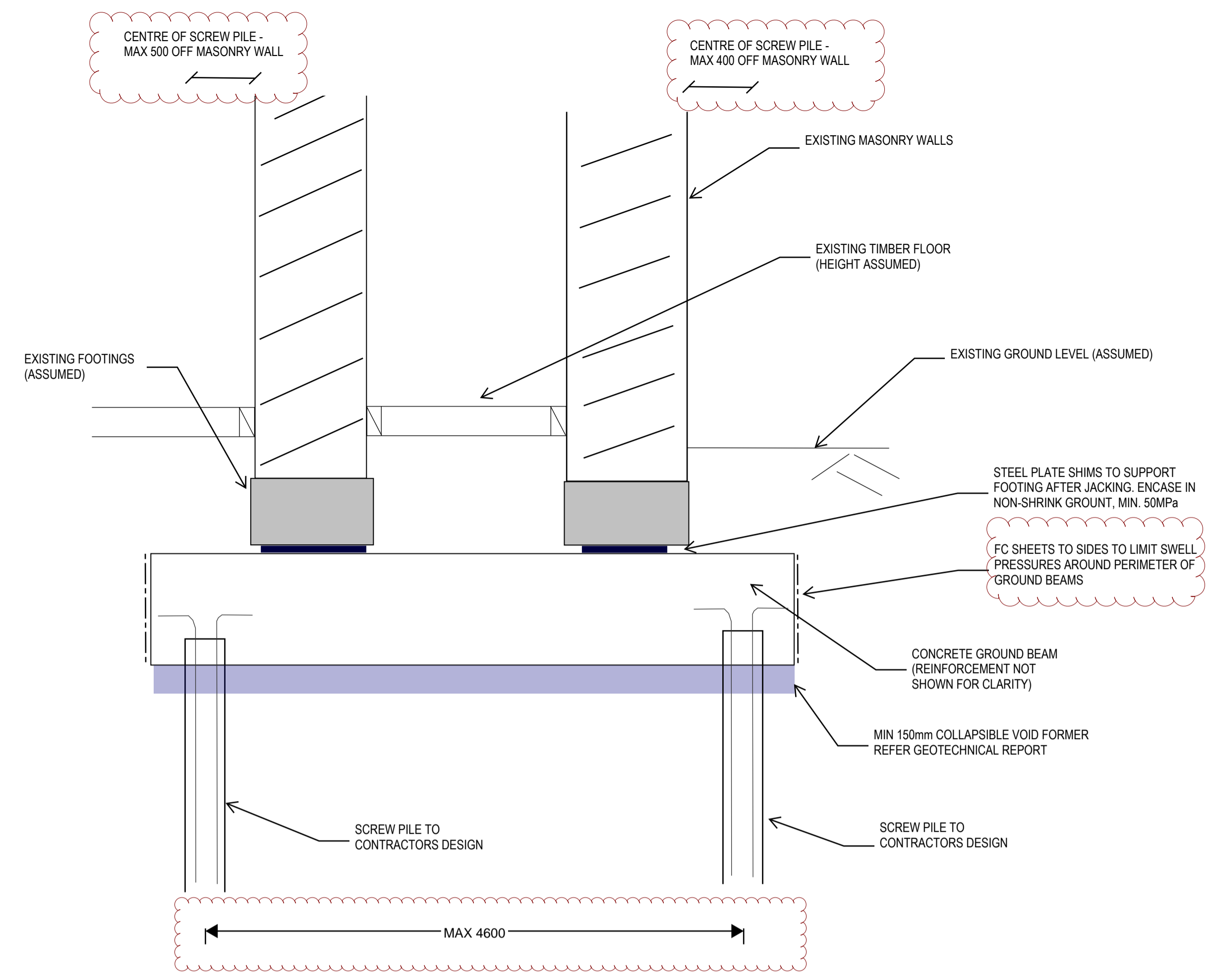
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FOUNDATION PLAN

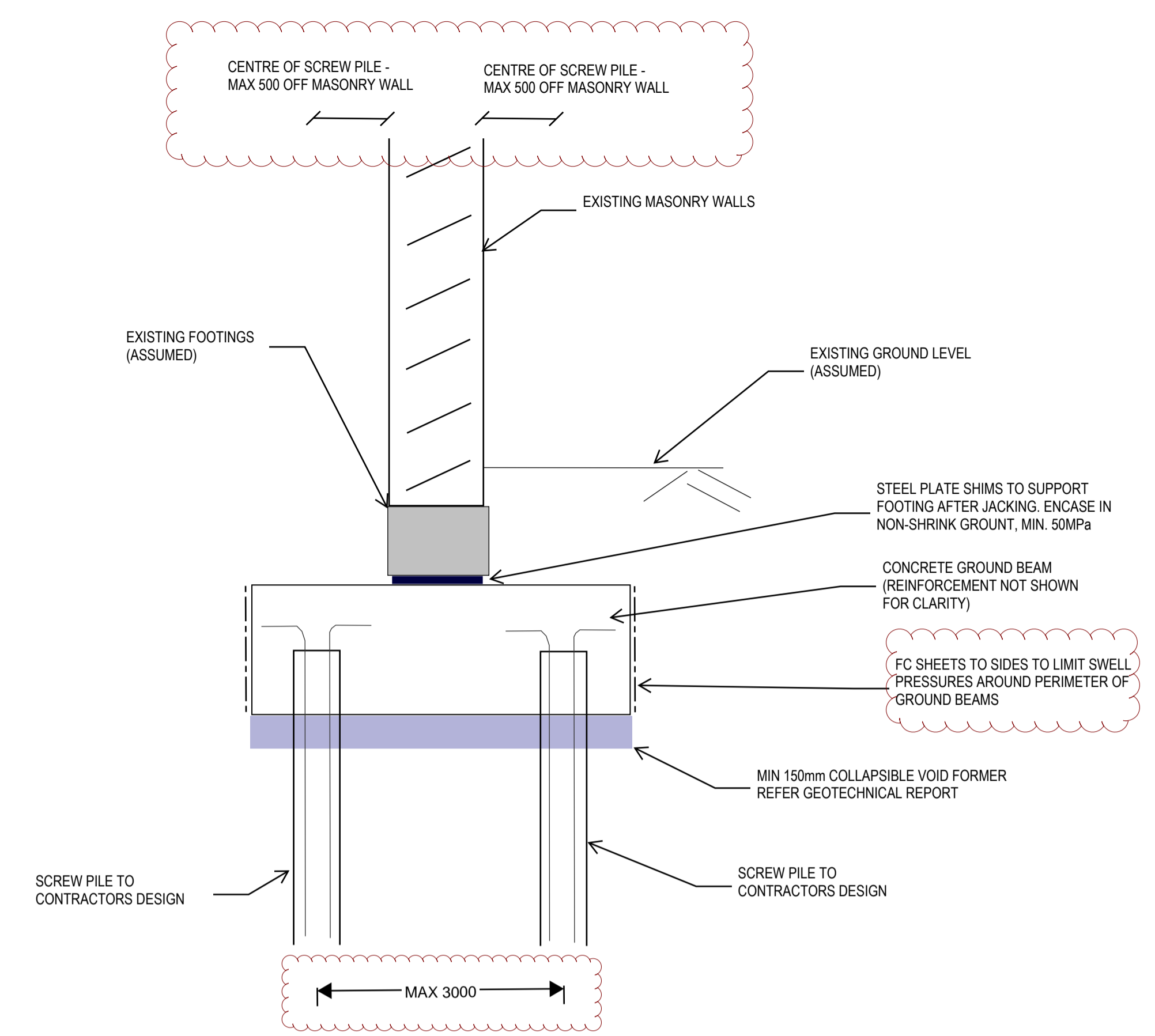
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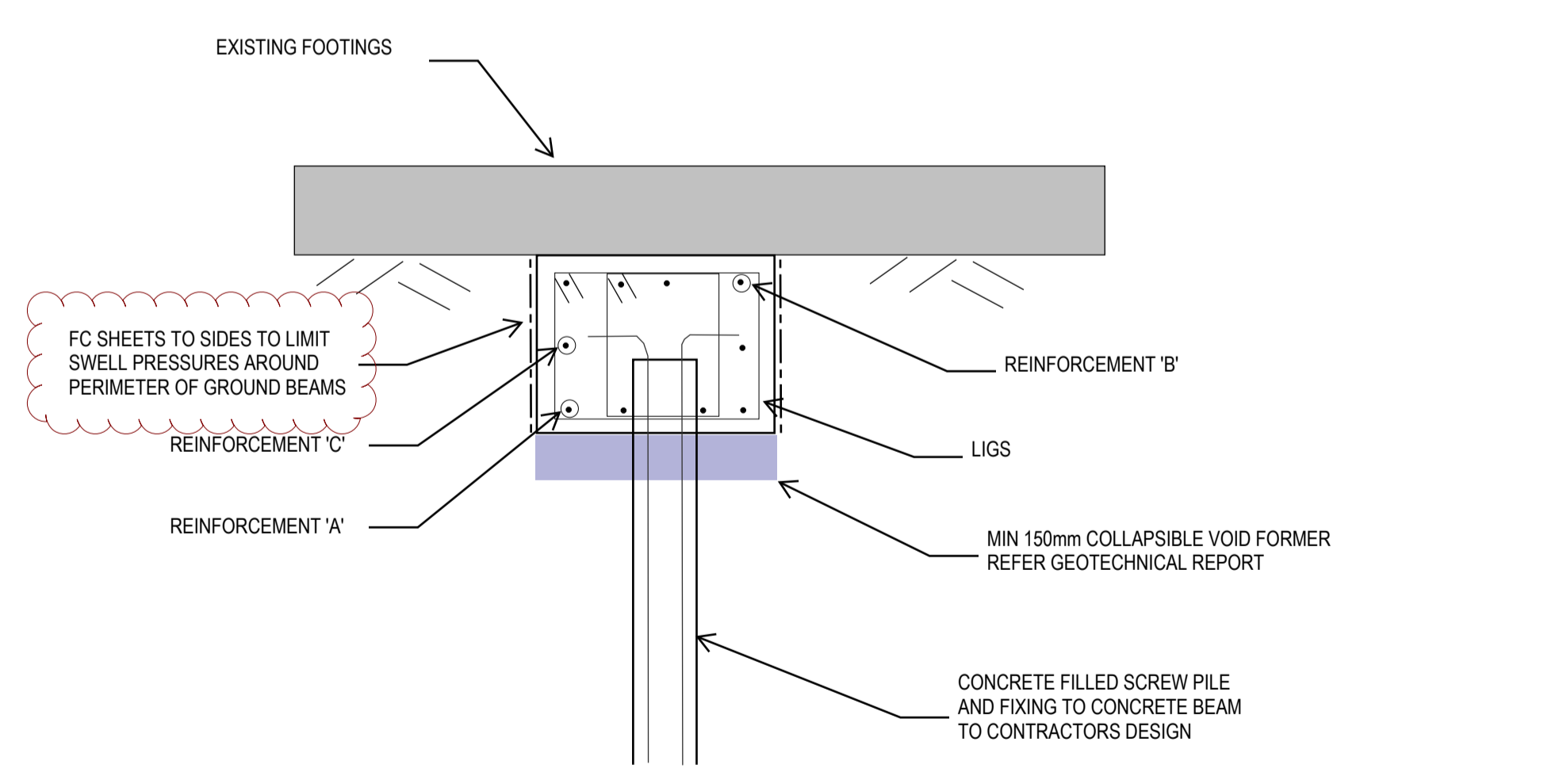
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UNDERPINNING WITH SCREW PILES - 2 WALLS
Scale 1:20



UNDERPINNING WITH SCREW PILES - 1 WALL
Scale 1:20



TYPICAL GROUND BEAM DETAILS
Scale 1:20

NOTE: SEQUENCE FOR UNDERMINING AND CONSTRUCTING THE NEW FOUNDATIONS TO BE DEVELOPED IN COOPERATION WITH THE CONTRACTOR

GROUND BEAMS LEGEND:

MARK	DIMENSIONS		REINFORCEMENT			
	WIDTH	DEPTH	A	B	C	LIGS
GB1	600	600	4N24	4N24	-	2 LEGS N12-200 ctrs
GB2	800	800	5N24	4N20	2N20	2 LEGS N12-300 ctrs

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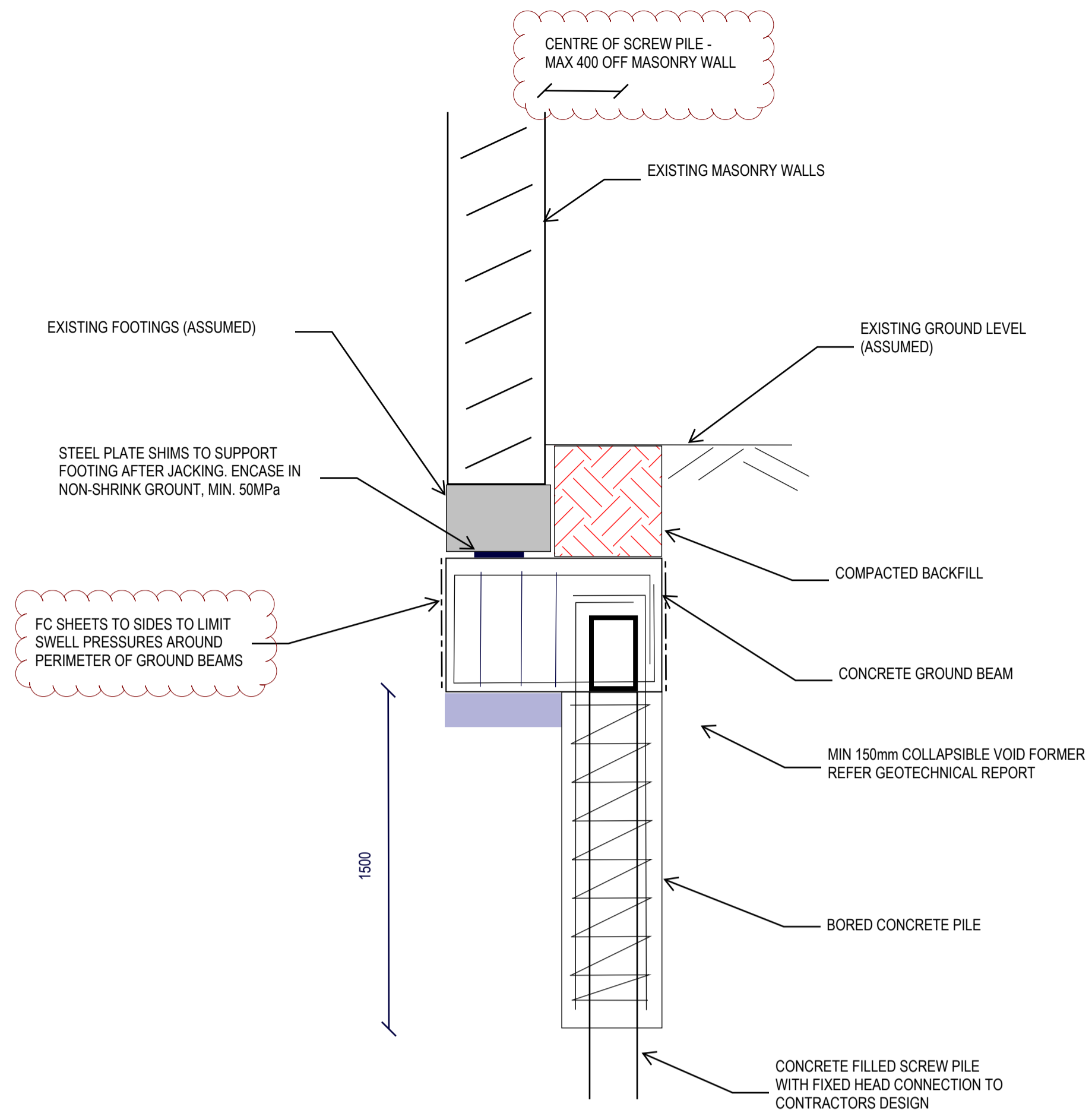
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FOUNDATION DETAILS 1

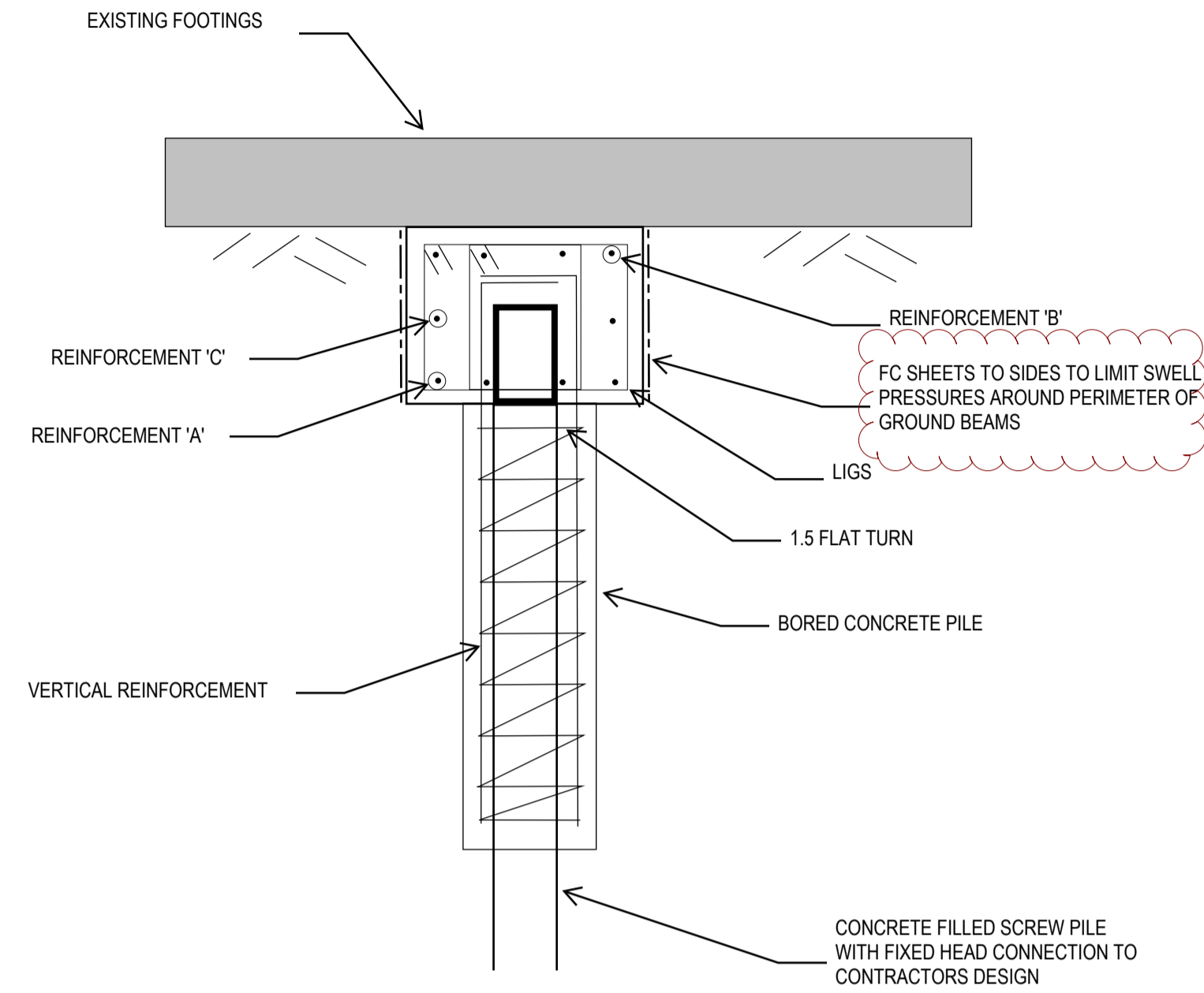
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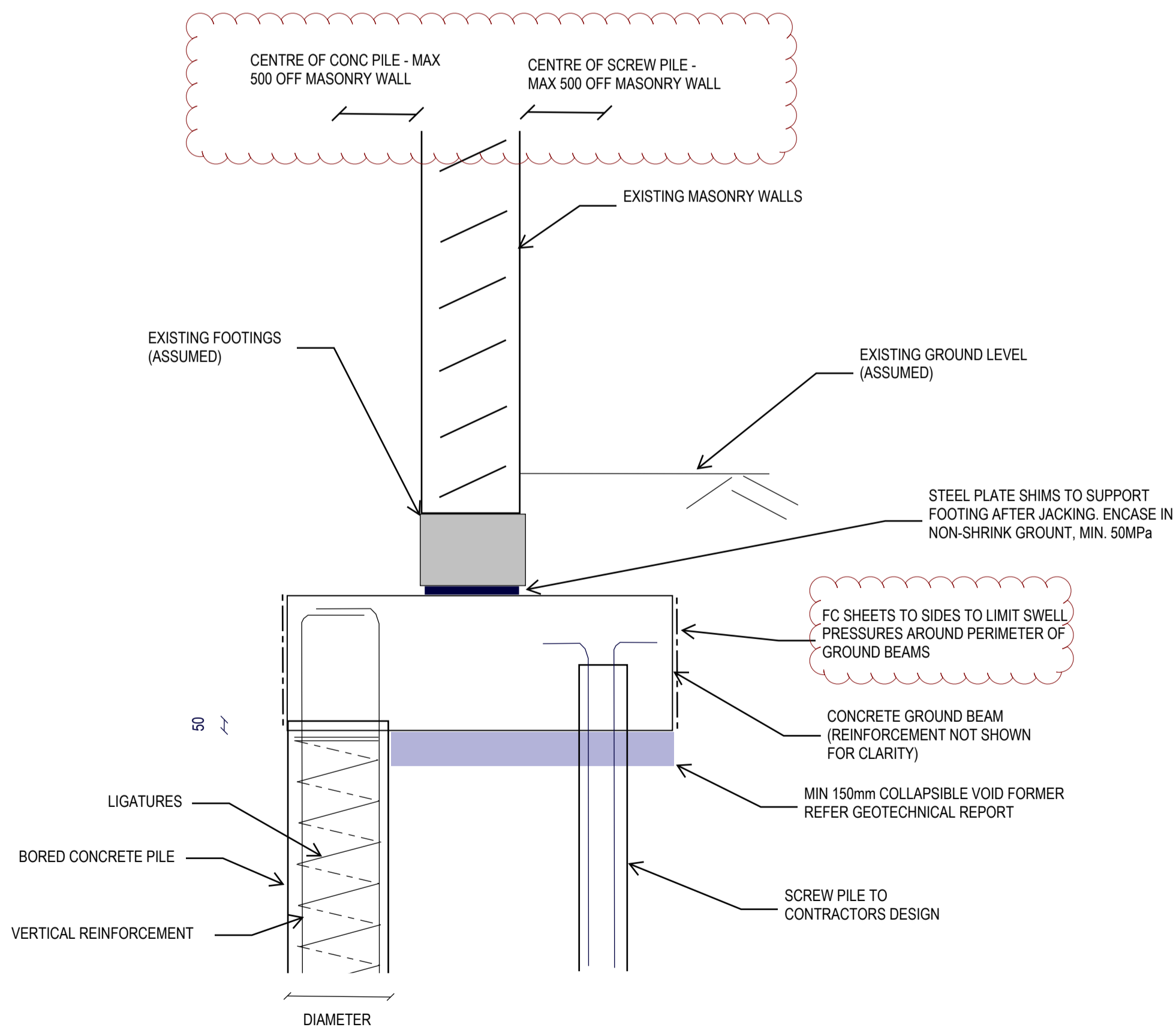
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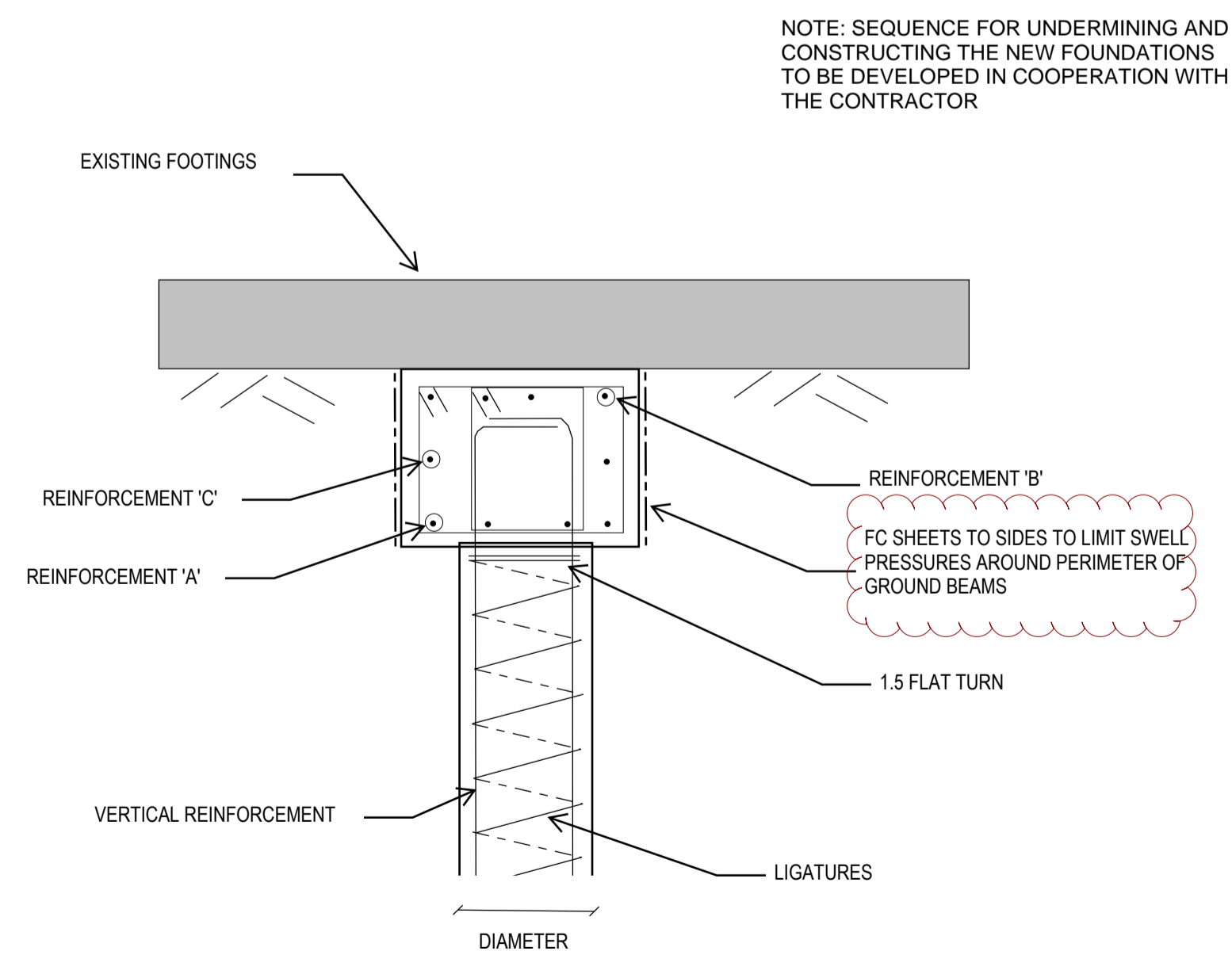
CANTILEVER UNDERPIN
Scale 1:20



CANTILEVER UNDERPIN SECTION
Scale 1:20

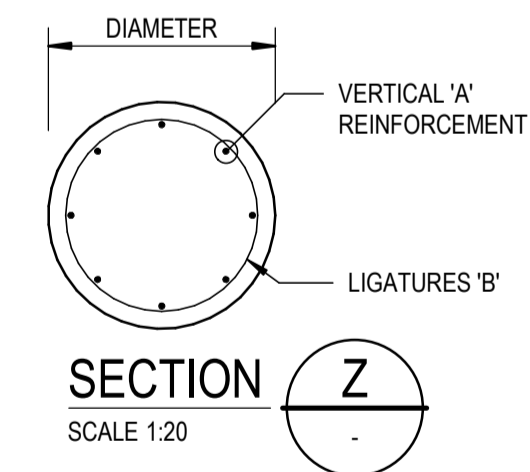


UNDERPINNING WITH SCREW PILE & BORED PIER
Scale 1:20



TYPICAL BORED PIER DETAIL
Scale 1:20

NOTE: SEQUENCE FOR UNDERMINING AND CONSTRUCTING THE NEW FOUNDATIONS TO BE DEVELOPED IN COOPERATION WITH THE CONTRACTOR



BORED PIERS

MARK	DIMENSIONS			REINFORCEMENT		DESCRIPTION
	DIAMETER	MIN. DEPTH	MIN. SOCKET DEPTH	'A'	'B'	
BP-A	450	1500	N/A	6-N20	R10-300	HARD CLAY
BP-B	450	6800	N/A	6-N20	R10-300	

GROUND BEAMS LEGEND:

MARK	DIMENSIONS			REINFORCEMENT		
	WIDTH	DEPTH	A	B	C	LIGS
GB1	600	600	4N24	4N24	-	2 LEGS N12-200 ctrs
GB2	800	800	5N24	4N20	2N20	2 LEGS N12-300 ctrs

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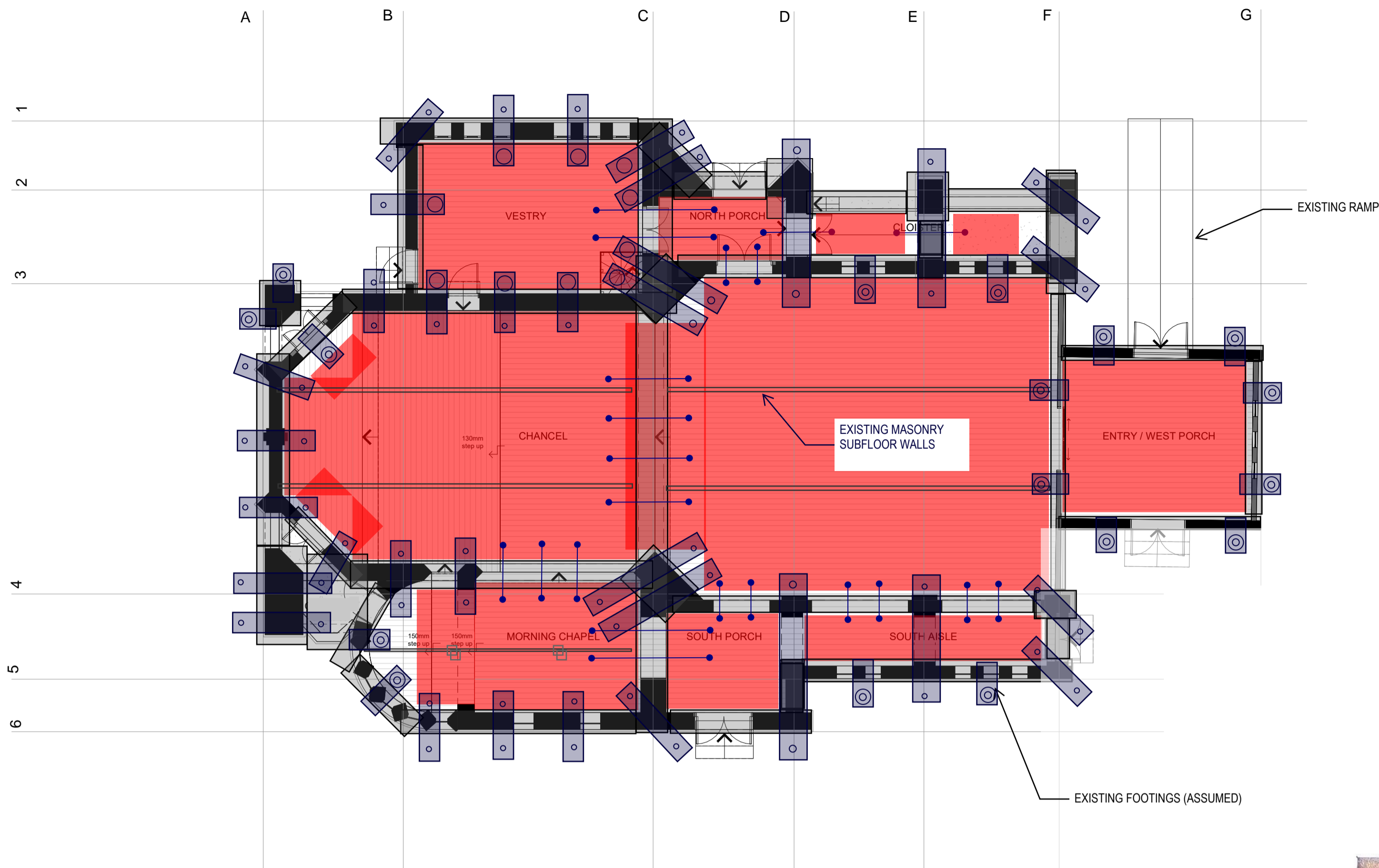
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94 WAMBOIN STREET, GILGANDRA, NSW

DRAWING TITLE
FOUNDATION DETAILS 2

JOB NO 2022.0793 DRAWING NUMBER SSK04 REVISION D



TEMPORARY WORKS INDICATIVE LAYOUT

LEGEND

- INDICATIVE PROPPING LOCATIONS BENEATH ARCHES.
- EXTENT OF TIMBER FLOOR REMOVAL

NOTES:

PROPPING OF THE MASONRY ARCHES IS REQUIRED TO REDUCE THE LOADS ACTING THROUGH THE EXISTING MASONRY PIERS DURING CONSTRUCTION OF THE NEW UNDERPINNING GROUND BEAMS

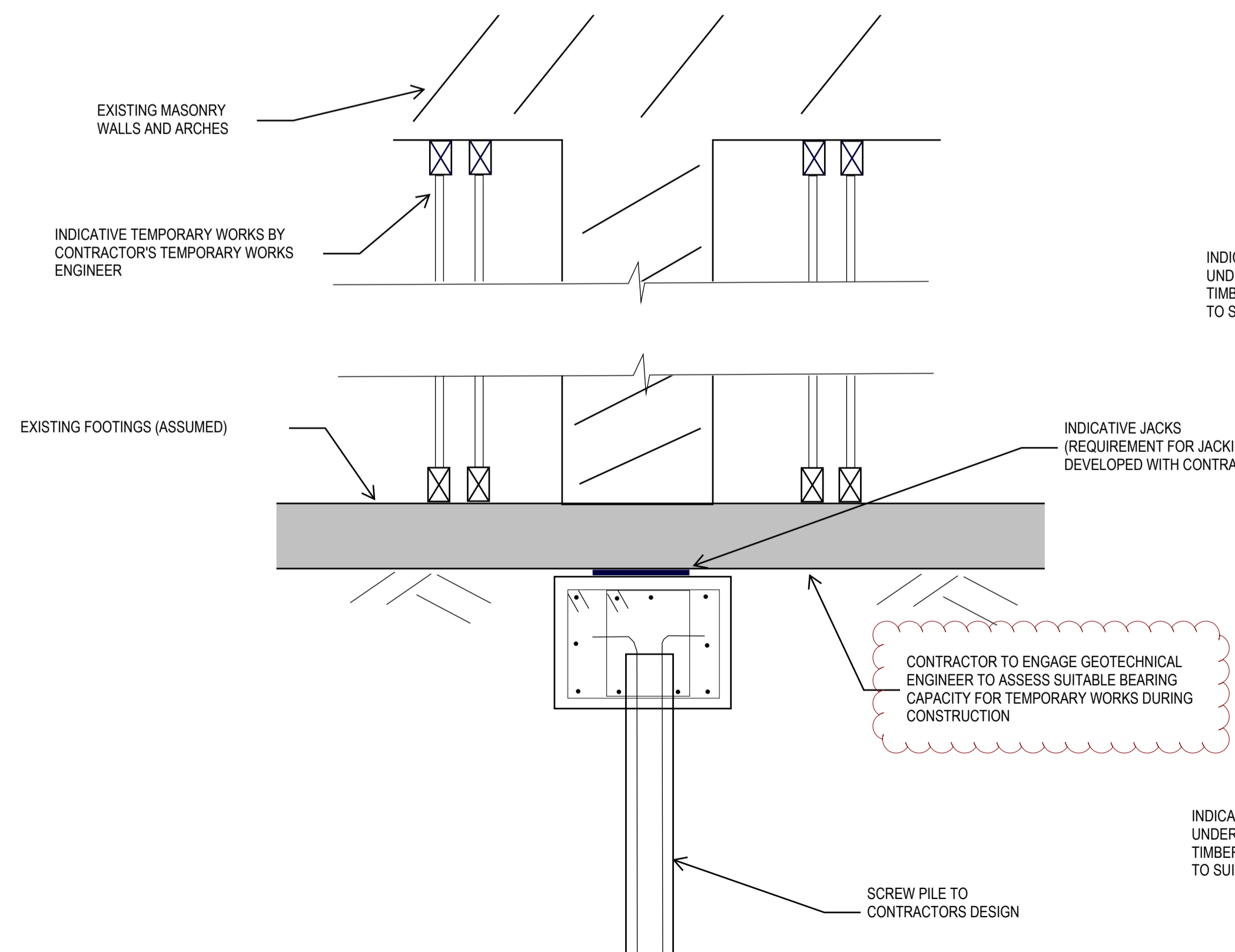
SUITABLE TEMPORARY WORKS ARE TO BE IN PLACE AND REVIEWED BY A QUALIFIED TEMPORARY WORKS ENGINEER PRIOR TO UNDERMINING THE EXISTING FOUNDATIONS (I.E. PRIOR TO CONSTRUCTION OF THE UNDERPINNING GROUND BEAMS)

THE CONTRACTOR TO SUBMIT A DIAGRAMATIC PROGRAM OF WORKS FOR COORDINATION OF PROPPING REQUIREMENTS BETWEEN THE STRUCTURAL ENGINEER AND THE TEMPORARY WORKS ENGINEER.

TEMPORARY PROPPING FOR EACH UNDERPINNING SECTION CAN BE REMOVED FOLLOWING COMPLETION OF THE UNDERPINNING WORKS AND ASSOCIATED JACKING, AND FOLLOWING WRITTEN CONFIRMATION FROM THE STRUCTURAL ENGINEER.

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INDICATIVE PROPPING SECTION
Scale 1:20



INDICATIVE MAIN ARCH PROPPING
Scale 1:20

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DRAWING TITLE
INDICATIVE TEMPORARY WORKS

JOB NO	DRAWING NUMBER	REVISION
2022.0793	SSK10	D

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REV	DATE	DESCRIPTION	ISSUED
A	26/08/2024	DEVELOPED DESIGN	EMN
B	16/09/2024	FOR CONSTRUCTION	EMN
C	26/09/2024	FOR CONSTRUCTION	EMN

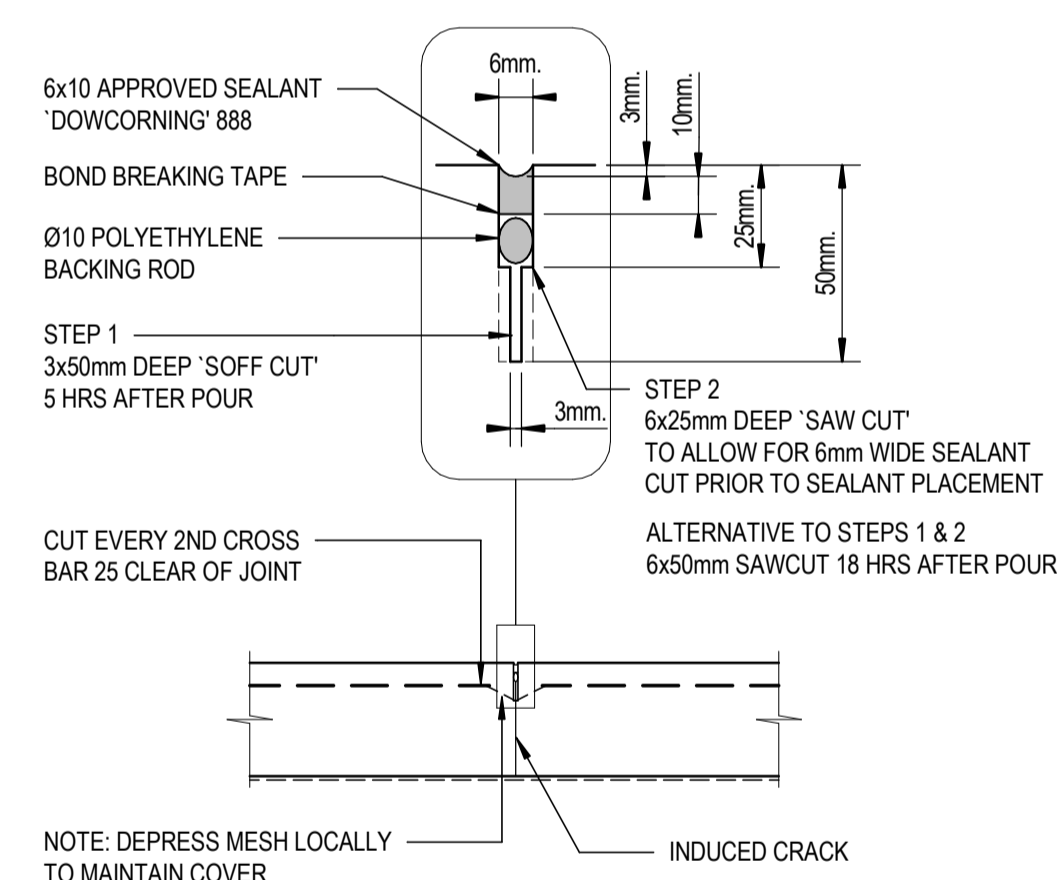
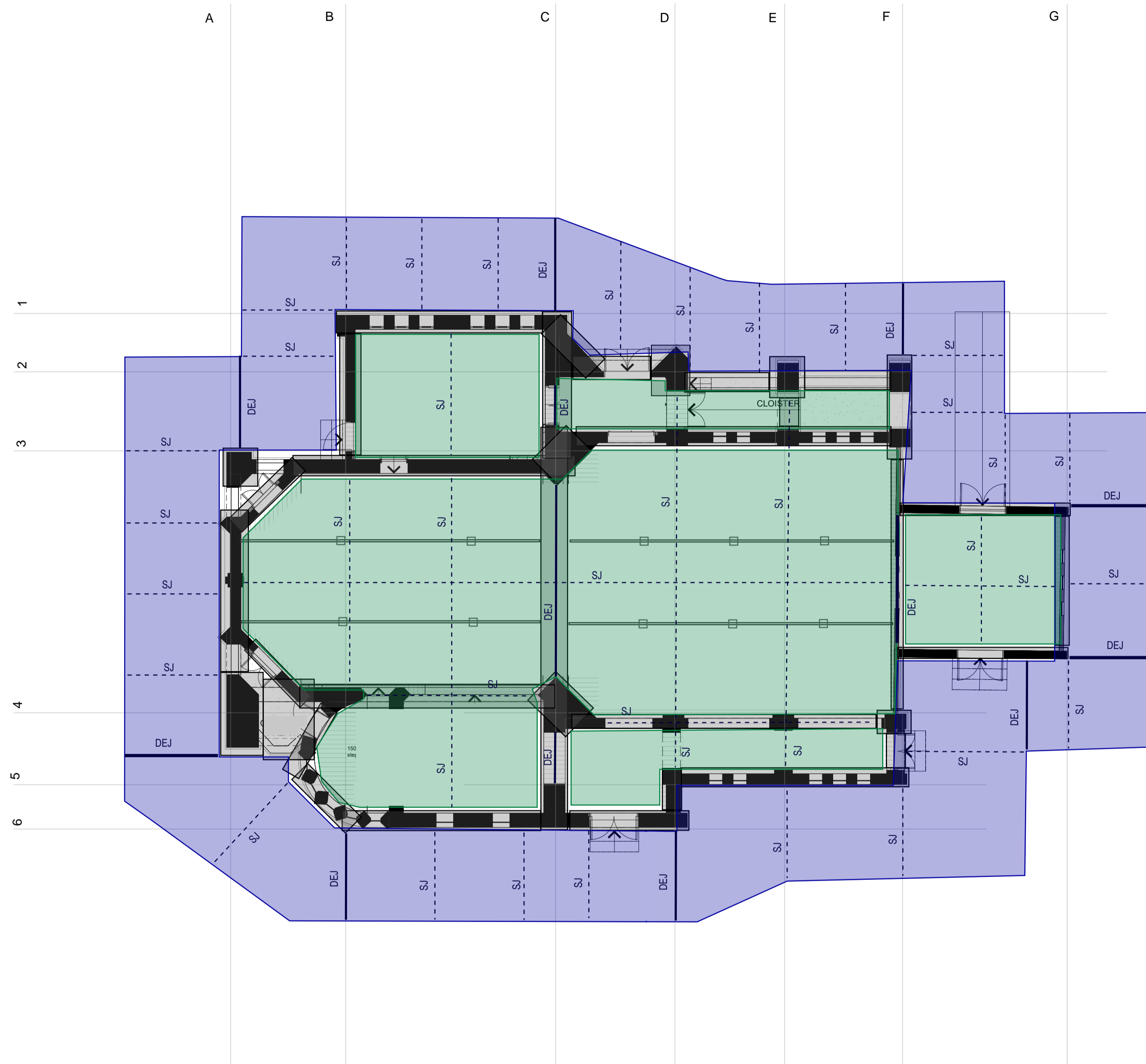
LEGEND:

- JOINTED 100 THICK x 3m WIDE APRON AROUND PERIMETER. CAST ON TAPED POLYTHENE MEMBRANE

- 75mm JOINTED SLAB CAST ON TAPED POLYTHENE MEMBRANE BENEATH THE TIMBER FLOORING

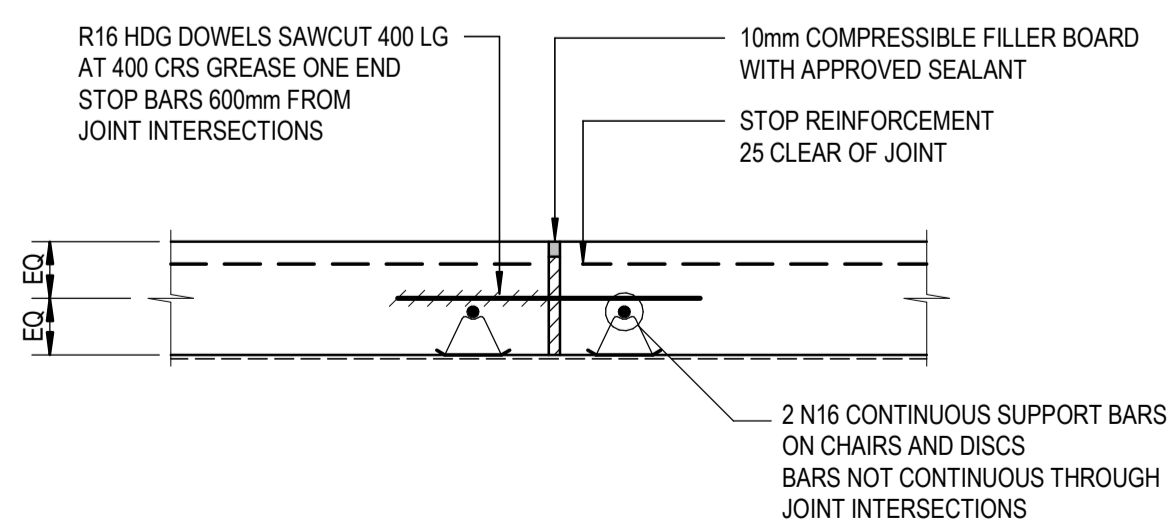
SJ - SAWN JOINT

DEJ - DOWELLED EXPANSION JOINT



TYPICAL SAWN JOINT (SJ1)

SCALE 1:10
NOTE: JOINT TO BE AIR BLASTED PRIOR TO APPLICATION OF SEALANT. REFER TO MANUFACTURERS SPECIFICATION FOR EARLIEST CUTTING TIME.



TYPICAL DOWELLED EXPANSION JOINT DETAIL (DEJ1)

SCALE 1:10

CIVIL PLAN
SCALE 1:100

PRINTING REQUIREMENTS
PRINT THIS DRAWING IN COLOUR

STATUS
CONSTRUCTION ISSUE

NORTH POINT

SCALES AT A1

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CLIENT
ST. AMBROSE ANGLICAN CHURCH

ARCHITECT
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DESIGN BY	EMN	
CHECKED BY	NS	

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DRAWING TITLE
CIVIL PLAN

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