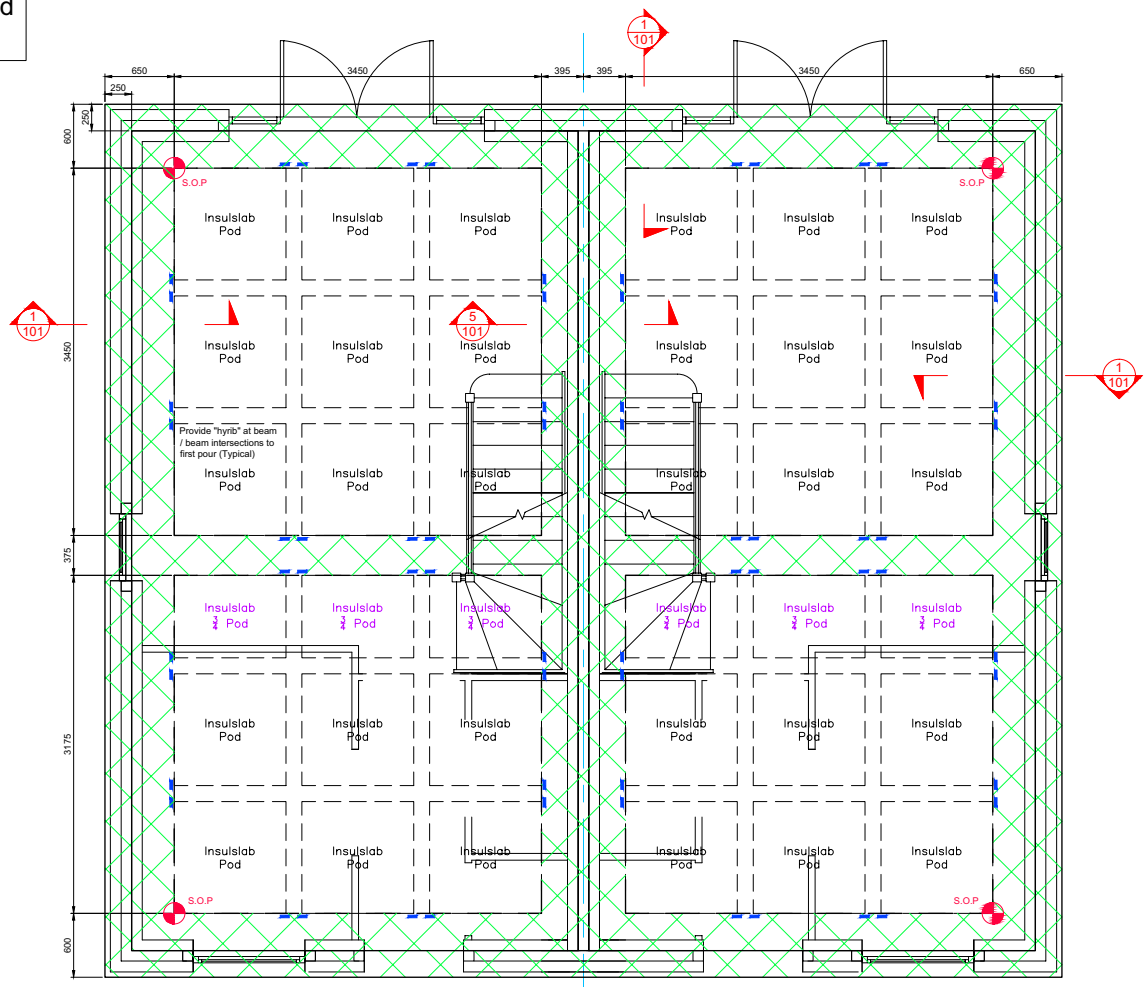
To be confirmed.
Extent of any underbuild
Gas regime

Gas membrane	TBC
Gas Venting	TBC



Foundation Plan
(Housetype Example)
S.O.P Denotes 'Setting Out Point' of Pod Units

Insulslab SFRC Foundation Installation Methodology.

Described below is a method of construction to utilise the INSULSLAB form of waffle slab foundation in conditions where the foundation is supported at shallow depth directly by the underlying soils. For piled foundations using INSULSLAB similar methods apply.
Whilst accepting that individual interpretation and innovation may well give rise to alternative methods to suit site specific conditions, it is felt that what is described, will clearly and accurately achieve the end product.
Severely sloping sites will introduce individual conditions to be addressed which can be readily accounted for by referring to Insulslab technical, however for the purposes of this exercise we have assumed a relatively level site.

1. Excavate to reduce general level to suit site layout drawings, by others.

2. Set the plot out as normal, ensuring that you have a completed '**CONSTRUCTION ISSUE**' drawing showing the Insulslab foundation layout and the standard details drawing.

3. Excavate to reduce general level to a depth of 600 mm below top of slab level over the pod area and 675mm under edge beams and party walls. Sub-base should be prepared using methods 2, 3 or 4 from table 6/4 of the Specification of Highway Works Volume 1 Series 600 Earthworks and in accordance with NHBC recommendations. Additional fill may also be necessary to ensure that all topsoil, degradable material and soft spots are removed.

4. Position, excavate & install all services and drainage entries. The accuracy of this operation is paramount, as correction of inaccuracies is very difficult.

5. Place granular hardcore and compact to a level 550mm below top of slab level. Compaction with a Wacker plate or trench roller to the hardcore in the trenches or a larger twin drummed roller to the whole of the formation area is acceptable. Tolerances on top of the finished sub-base should be within +10/-20 mm with an average of -5 mm.

6. Install 100 thick insulation under all edge / internal beams.

7. Set up and install the first stage edge shutter on top of the horizontal edge insulation to the perimeter of the plot (alternatively an " all in one " edge shutter can be used for monolithic pour)

8. Fill in between the Edge and internal insulation with granular hardcore and compact.

9. Install a minimum 1200g dpm, or gas membrane as required by the site investigation, to whole area extending 300 to 500mm beyond the edge of the shutter.

10. Starting from one corner of un-cut pods, the pods must be placed to the prescribed layout, completing all full pods before installing the cut-pods as required. Widened internal beams should be separate by spacers in order to minimise risk of movement.

11. Hyrib is to be installed and fixed in position across face of internal ribs/beams in order to contain initial pour to edge beam.

12. Timber bracing is required from the top of the pod to the shutter in corner locations and every perimeter pod during concreting to ensure no lateral movement occurs. These are removed when the concrete reaches the top of the pods. Reinforcement to be cast into the first stage pour to provide a shear connection between the two pours.

13. The concrete is to be placed to the outer toe section first of the two stage pour, prior to installing the remaining concrete to the full height in the usual manner. (The concrete can either be pumped or placed directly)

14. Once set, the lower shutter can be stripped and installed to form the second shutter. The foundation is then ready for the internal ribs, slab, beams and remaining external beam to be completed. Sacrificial bar or blocks may be introduced to support the second stage pour shutter.

15. When the placement is completed, level carefully and finish by bull float or skip float in order to improve flatness and to hide visible fibres under the superficial mortar. If required the slab may be finished by power, bull or skip floated.

16. Apply a spray application of curing & sealing membrane such as Permaban Permaseal or similar approved.

17. Strike the shutter and place aside for re-use.

18. The DPM is then lapped up the outside vertical face of the toe. The horizontal and inside vertical face of the toe is painted with two coats of RIW LAC or similar.

19. The vertical insulation is then placed against the outside face of the toe and backfilled against.

20. The contractor shall record and retain on site, all concrete mix delivery tickets for onward submission to the statutory body for their approval.

General Notes.

1. Insulslab foundation to be placed on minimum 150mm Type 2 granular material to be compacted in accordance with the specification.
All soft spots to be excavated to competent formation and back filled with compacted Type 2 granular material.
2. All works to be undertaken in accordance with the recommendations contained within the geotechnical report and NHBC Standards. Where trees are present, ground conditions may require the placing of an additional hardcore bed under the whole area to overcome the influence of trees/shrinkable soils in accordance with the NHBC Standards Chapter 4.2 and 4.5.
3. For depths of sub-base required beneath edge beams refer to sections.
4. The Insulslab pods have a load bearing requirement and are protected by a patent. Online technical data and ordering information can be found on the website www.insulslab.com
5. Slab to be cured under a spray application of curing / sealing solution, Permaban Pro-Seal or similar.
6. Where ground levels have been adjusted to suit site set-out requirements, it has been assumed that infill / regrade material has been suitably engineered and consolidated in order to achieve a minimum ground bearing capacity of 50kN/m^2
7. For all general details and sections see drawing No. 100.
8. For on site setting out of units, orientation / handing and co-ordination, see Architects detail drawings and relevant site setting out drawings by others.
9. For all finished ground levels and slab levels, see Architects / Set-out drawings by others.
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Specification for Concrete and Fibres.

1. The concrete mix shall follow the recommendations as noted in the ArcelorMittal Sheffield Ltd. BBA Certification 12 / 4894 product sheet 2 "ArcelorMittal - Insulslab foundation system for housing applications using SFRC" page 3, Table 1 Concrete Specifications along with the following mix design guide lines. These are to be considered together and neither is to be considered complete without the other.
2. Concrete mix design shall be based on the use of 20mm aggregate. Other aggregate sizes or blends may be used on further review by ArcelorMittal in conjunction with the readymix supplier and only formal written confirmation from ArcelorMittal. The proportions will depend on the gradation of the local materials.
3. The concrete grade to be a C30 / 37 - C35 with a maximum water cement ratio of 0.55 using super-plasticiser. All admixtures used should be from the same manufacturer and used as per manufacturers instructions.
4. Permitted cement type shall be Portland cement or blends of up to 20% replacement using GGBS or PFA. This corresponds to the following cement types to BS EN 197-1: CEM I, CEM II/A-S OR CEM II/A-V. Minimum cement quantity to be 320kg/m^3.
5. The slump shall be between 180 and 230mm (S4 type EN206 / BS8500) at the time of delivery. The addition of water on site is prohibited, except where the additional water is allowable water remaining from the original batch target. Any water added to the concrete shall be recorded on the delivery ticket.
6. The fines content shall be aproximately 50% by weight of the total aggregate content. Total fines content shall be 450kg/m^3 fines graded at or below 200µ. Please refer to the required sieve curve analysis for optimum aggregate gradation to be used when investigating the suitability of the given mix.
7. Steel fibres to be HE+1/50. Dosage rate is 50 kg/m^3.

NOTE:
LAYOUT SHOWN IS INDICATIVE AND SUBJECT TO CONFIRMATION AND CO-ORDINATION WITH ARCHITECTS DRAWINGS AND SPECIALISTS LINE LOADS

NOTE:
Where ground levels have been raised / adjusted, it is assumed that a suitable engineered material has been laid and consolidated in order to achieve a minimum ground bearing pressure 50kN/m^2

Hatched areas denotes pour one of two stage pour - see plan & sections

Hatched areas denote insulslab pods cut on site to suit.

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FOR CONSTRUCTION DETAIL INFORMATION CONTACT GHW CONSULTING ENGINEERS Ltd.

REV	BY		
P1	DM	Preliminary - Costing	00.00.00
		AMENDMENTS	DATE

STATUS
PRELIMINARY

INSULSLAB SFRC
HIGH QUALITY FOUNDATION SYSTEM

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Insulslab Sales.
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CLIENT

CONTRACT
New Development
12-2999

TITLE
Insulslab Foundation Layout Example Housetype

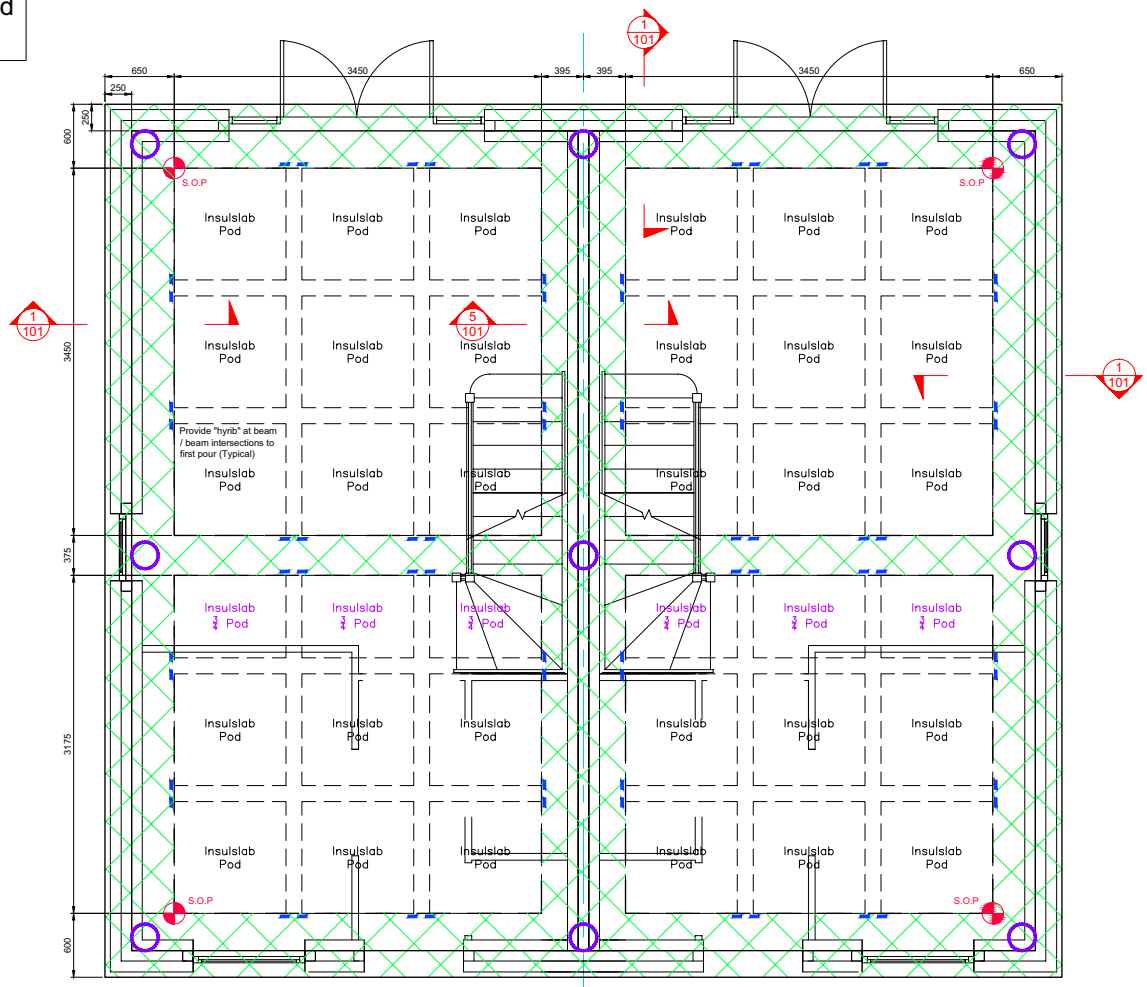
DRAWN	CHECKED	APPROVED
DM	AW	AW

SCALE	DATE
A1 - 1:25 A3 - 1:50	Nov 2012

JOB NO.	DRAWING NO.	REVISION
INS12-0000	01	P1

To be confirmed.
Extent of any underbuild
Gas regime

Gas membrane	TBC
Gas Venting	TBC



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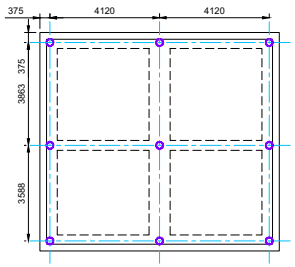

Max Pile Load = 360kN

See drawing /51 for reinforcement details

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REV	BY	AMENDMENTS	DATE
P1	DM	Preliminary - Costing	00.00.00

STATUS: **PRELIMINARY**

INSULSLAB SFRC
HIGH QUALITY FOUNDATION SYSTEM

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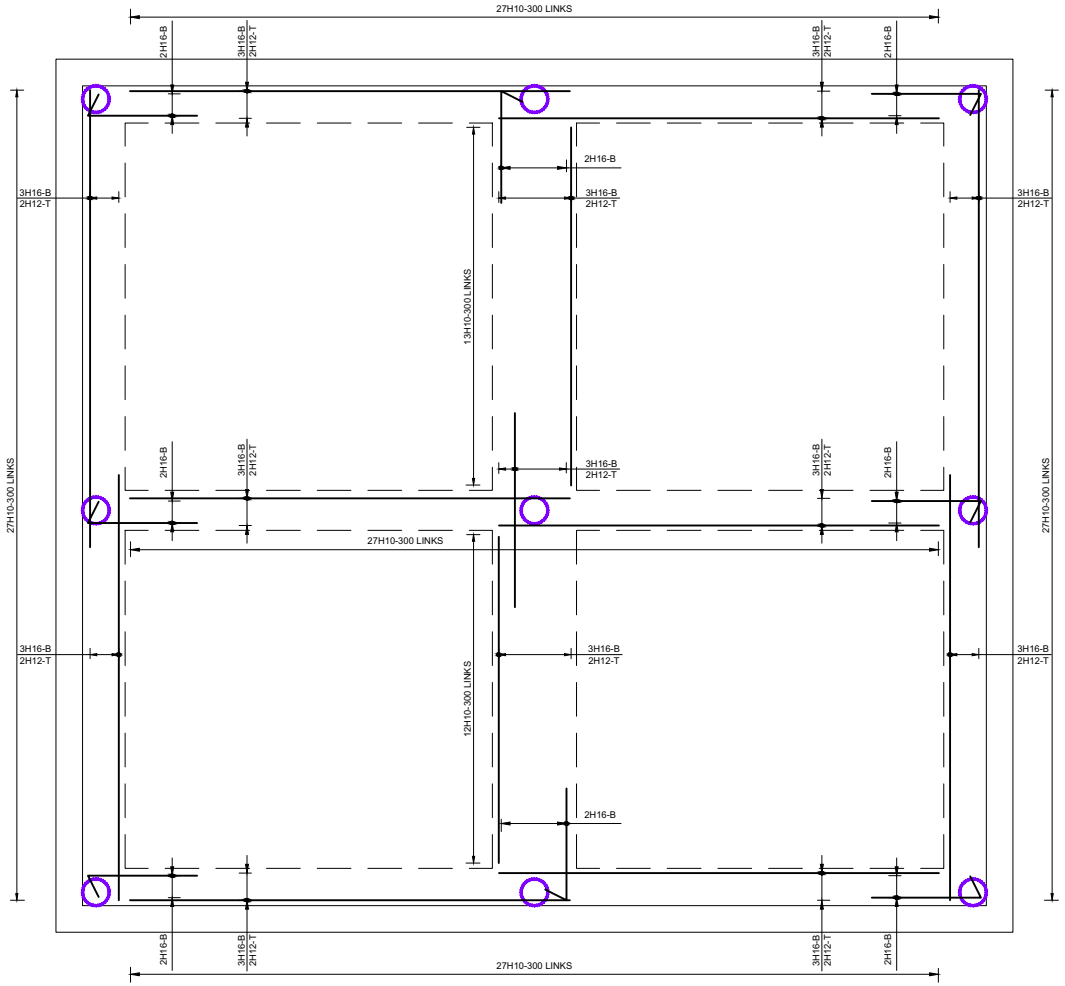
CONTRACT: **New Development** 12-2999

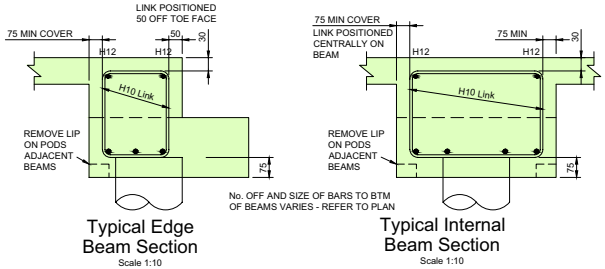
TITLE: **Insulslab Foundation Layout Example Housetype**

DRAWN	CHECKED	APPROVED
DM	AW	AW

SCALE: A1 - 1:25, A3 - 1:50
DATE: Nov 2012

JOB NO.	DRAWING NO.	REVISION
INS12-0000	01	P1





Typical Edge Beam Section
Scale 1:10

Typical Internal Beam Section
Scale 1:10

General Notes.

1. For notes refer to drg /01

REINFORCED CONCRETE NOTES

1. FOR CONCRETE NOTES REFER TO GA DRAWING.

2. CONCRETE COVER:
GROUND BEAMS - 30 TOP, SIDES AS SHOWN, 75 BTM

COVER TO REINFORCEMENT IS TO BE ACHIEVED AND MAINTAINED BY USE OF PROPRIETORY ACCESSORIES IN ACCORDANCE WITH BS 7973.

5. WHERE APPLICABLE, REBAR LAP LENGTHS ARE NOT TO BE LESS THAN 40 x BAR DIA. WHERE ONE BAR LAPS WITH ANOTHER OF A DIFFERENT DIAMETER, THEN USE THE LAP LENGTH FOR THE SMALLER BAR. PREWELDED MESH LAP LENGTHS ARE TO BE NOT LESS THAN 400mm.

6. CONCRETE SURFACE FINISHES ARE TO BE IN ACCORDANCE WITH THE SPECIFICATION.

7. LAYER ABBREVIATIONS (WHERE USED)

BTM - BOTTOM FACE
TOP - TOP FACE
B1 - OUTERMOST LAYER IN BTM
B2 - SUBSEQUENT LAYER IN BTM
T1 - OUTERMOST LAYER IN TOP
T2 - SUBSEQUENT LAYER IN TOP
NF1 - OUTERMOST LAYER IN NEAR FACE
NF2 - SUBSEQUENT LAYER IN NEAR FACE
FF1 - OUTERMOST LAYER IN FAR FACE
FF2 - SUBSEQUENT LAYER IN FAR FACE
EF - EACH FACE
EW - EACH WAY
STG - STAGGERED
ABR - ALTERNATE BARS REVERSED

8. REBARS TO BE PRE-FIXED BY THE DRAWING NUMBER.

09. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH GHW Drg. No. 01, IN ADDITION TO OTHER DRAWINGS REFERENCED THEREIN.

10. REINFORCEMENT NOMENCLATURE:

5H40-01-150-T1 ABR
- COMMENT
- LOCATION OF BARS
- BAR CENTRES (mm)
- BAR MARK
- BAR DIAMETER (mm)
- TYPE OF STEEL
- NUMBER OF BARS

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P1	DM	Preliminary - Costing	00.00.00

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CLIENT

CONTRACT: **New Development**

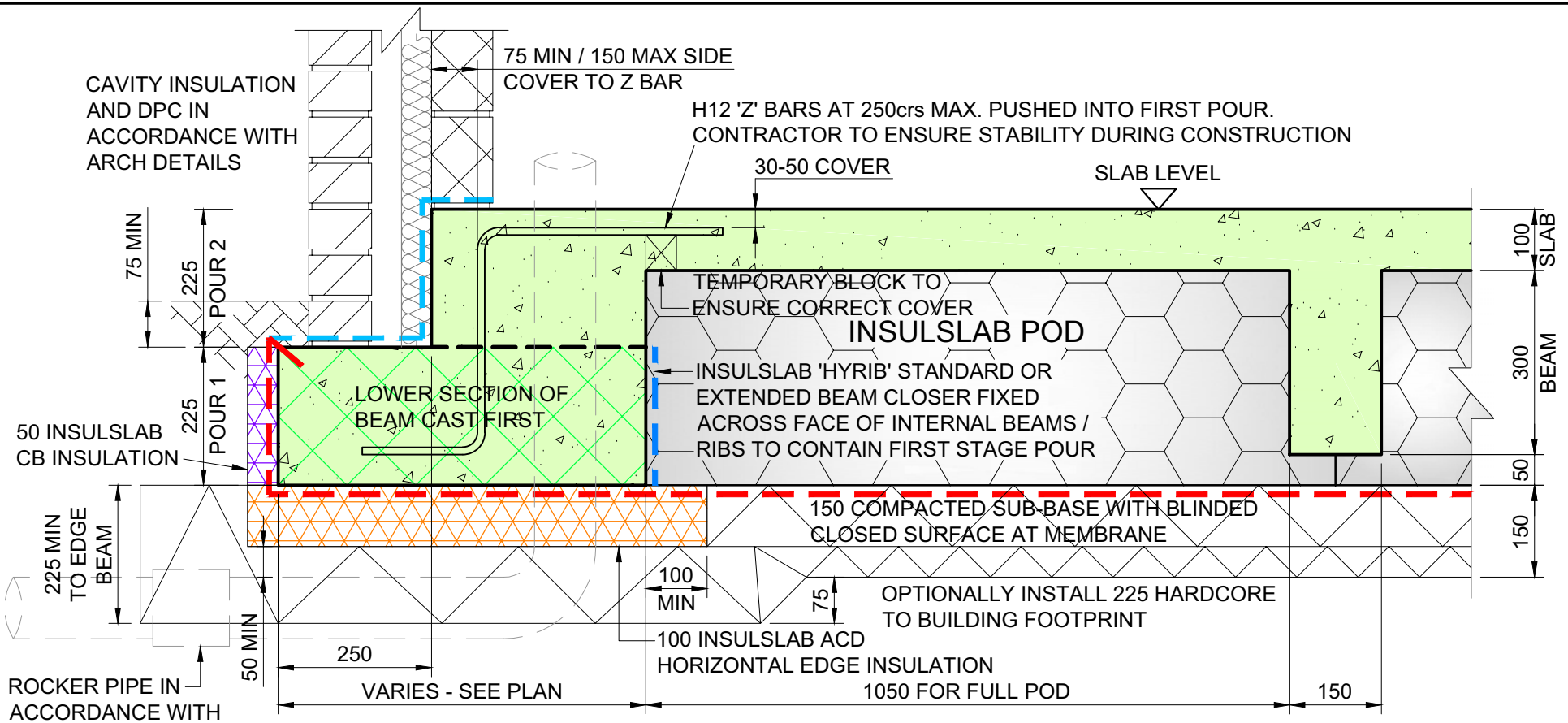
12-2999

TITLE: **Reinforcement details for Example Housetype**

DRAWN	CHECKED	APPROVED
DM	AW	AW

SCALE: A1 - 1:25, A3 - 1:50
DATE: Nov 2012

JOB NO.	DRAWING NO.	REVISION
INS12-0000	51	P1

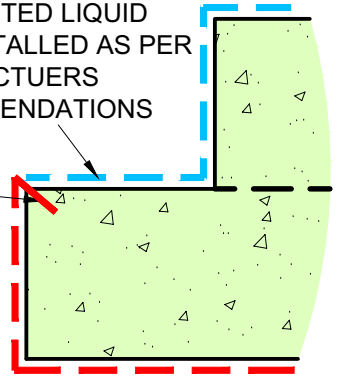


TYPICAL EDGE DETAIL AT SERVICE ENTRY POINTS (SECTION 1)

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

2 COATS OF RIW LAC OR SIMILAR 3RD PARTY ACCREDITED LIQUID DPM INSTALLED AS PER MANUFACTUERS RECOMMENDATIONS

DPM TUCKED INTO FIRST POUR



DPM DETAIL (WHERE GAS MEMBRANE REFER TO PLOT SPECIFIC DRGS)

TYPICAL EDGE DETAIL

INSULSLAB SFRC
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JOB NO.	DRAWING NO.	REVISION
INS 12-0	200	P1

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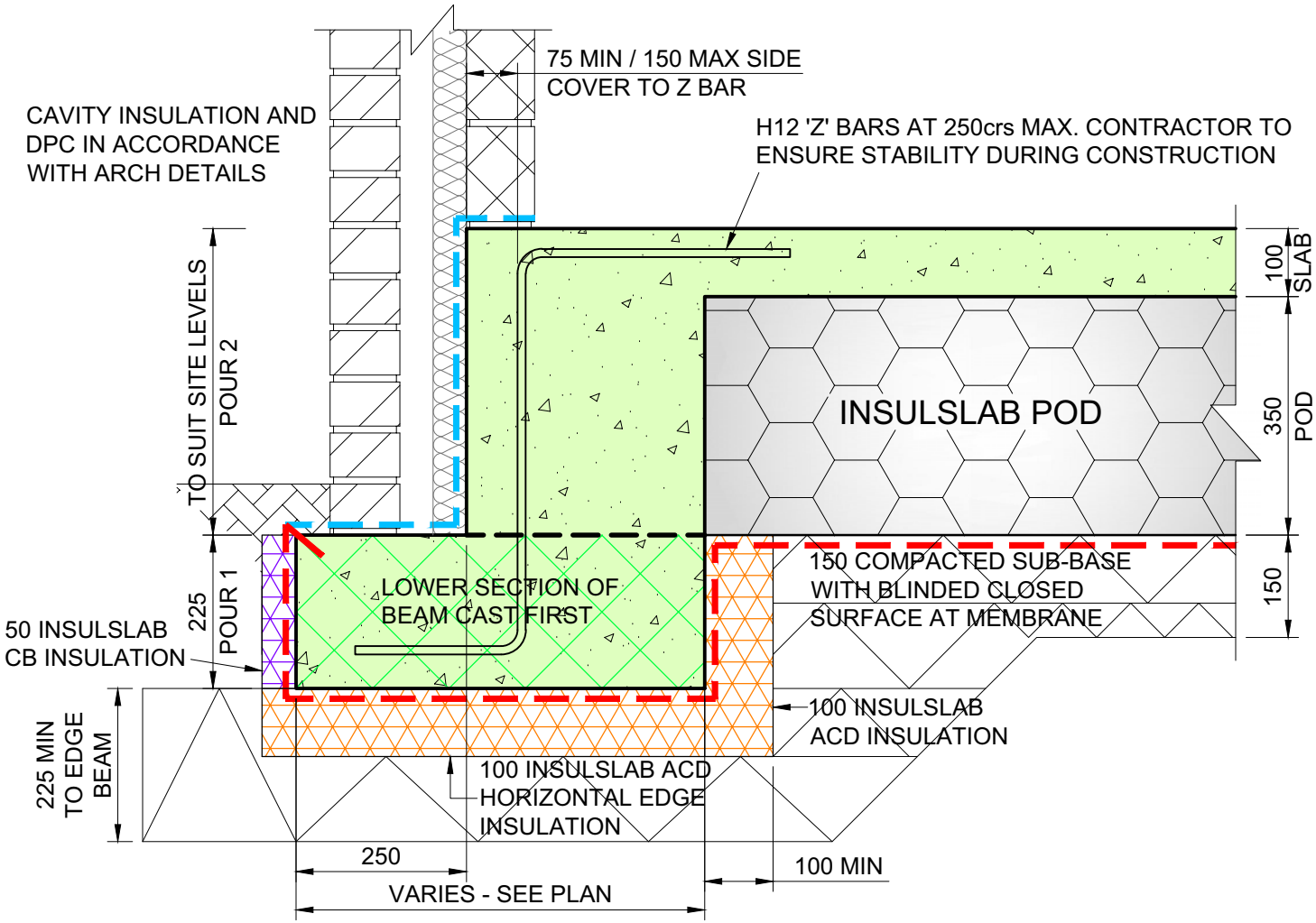

TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM (SECTION 3 - ALSO REFER TO /102)

HATCHED AREAS
DENOTES POUR ONE
OF TWO STAGE POUR -
SEE PLAN & SECTIONS

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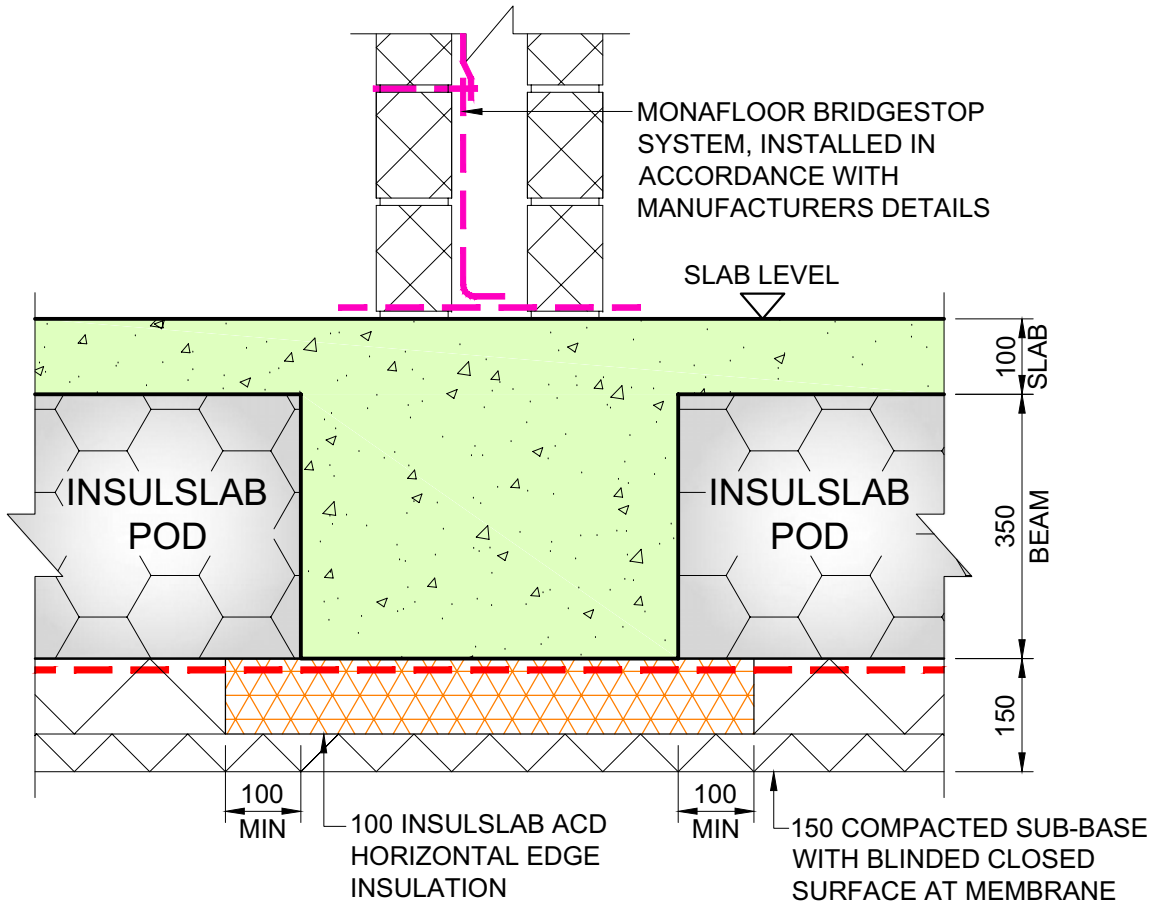
TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM/UNDERBUILD

JOB NO.	DRAWING NO.	REVISION
INS 12-0	202	P1



TYPICAL DETAIL AT INTERNAL/PARTY WALLS (SECTION 5)

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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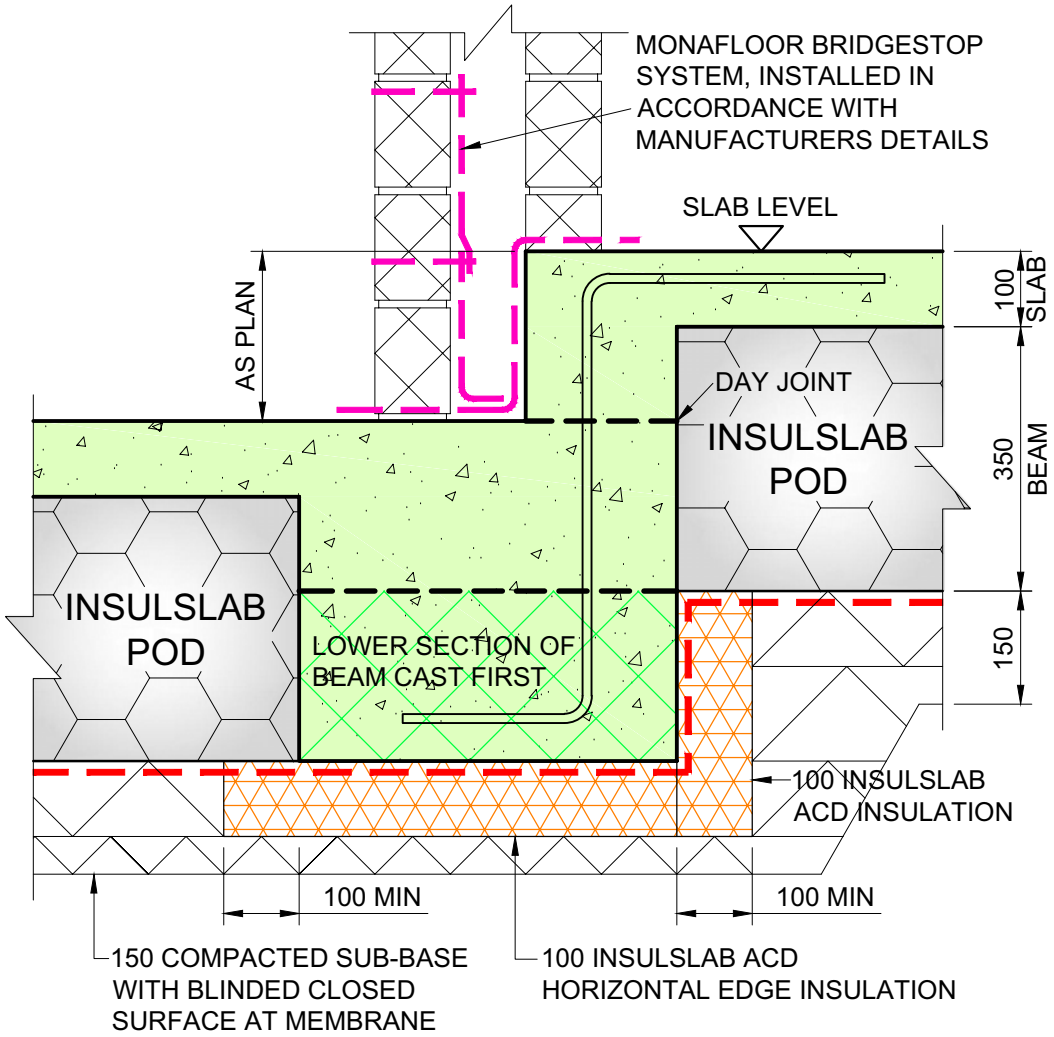
TYPICAL DETAIL AT INTERNAL/PARTY LOAD BEARING WALLS

JOB NO.	DRAWING NO.	REVISION
INS 12-0	203	P1



TYPICAL DETAIL AT CHANGE IN SLAB LEVEL AT PARTY WALLS (SECTION 6)

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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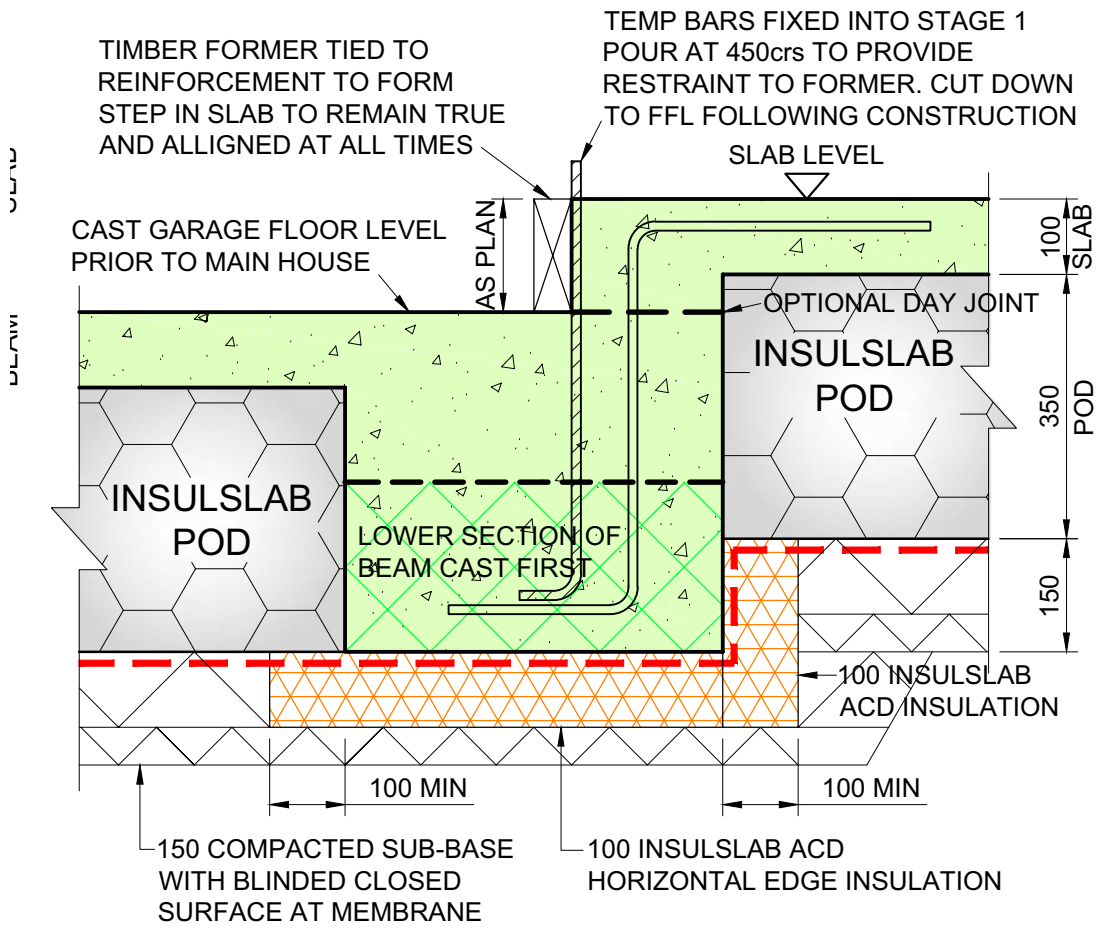
CHANGE IN SLAB LEVEL AT PARTY WALL BEAMS

JOB NO.	DRAWING NO.	REVISION
INS 12-0	204	P1



TYPICAL DETAIL AT CHANGE IN SLAB LEVEL TO GARAGE - 150 STEP MAX (SECTION 7)

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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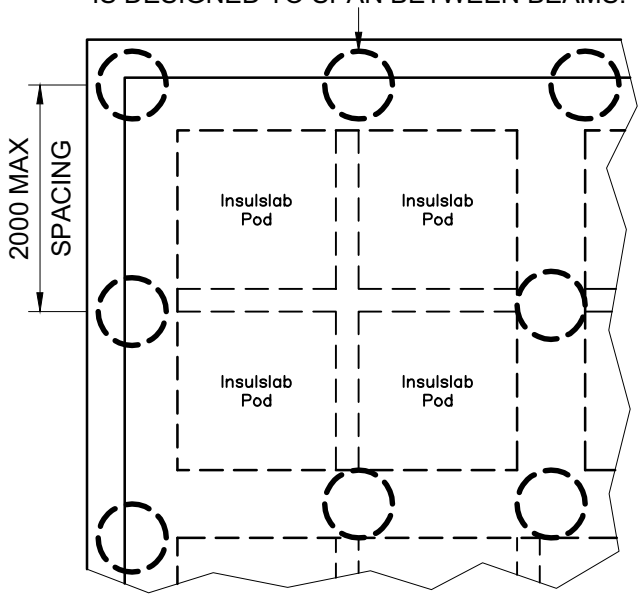
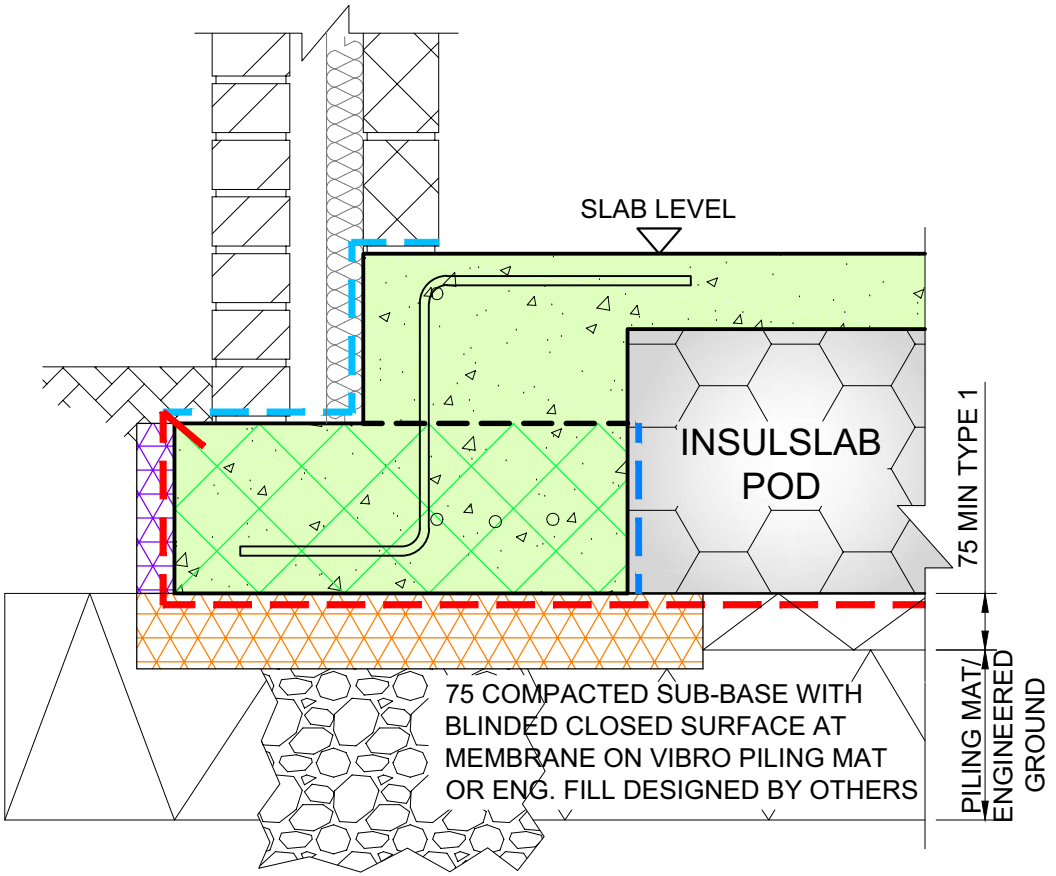
TYPICAL CHANGE IN SLAB LEVEL ADJACENT GARAGE

JOB NO.	DRAWING NO.	REVISION
INS 12-0	205	P1

VIBRO TO BE INSTALLED TO 100kN/m² UNDER EXTERNAL AND INTERNAL BEAMS ONLY. SLAB IS DESIGNED TO SPAN BETWEEN BEAMS.



TYPICAL VIBRO PLAN



DETAIL SHOWING REDUCED HARDCORE ON VIBRO OR ENGINEERED GROUND

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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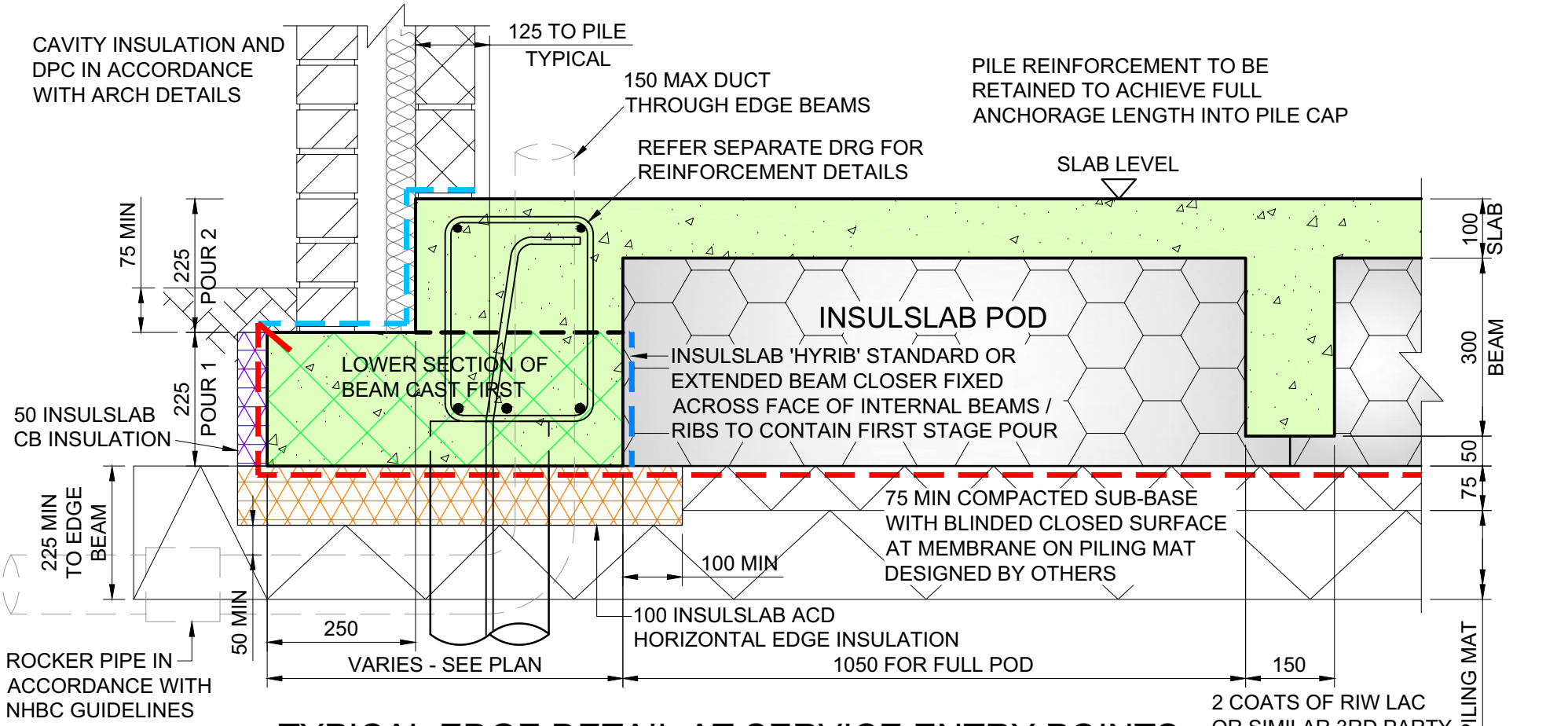
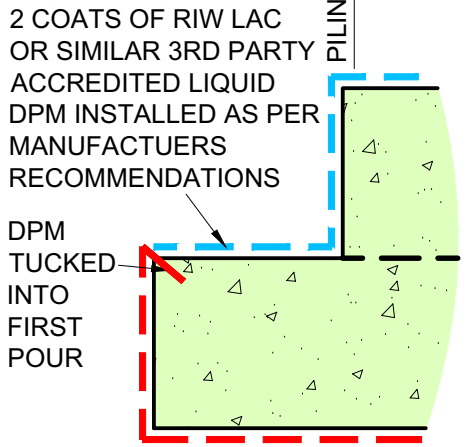
TYPICAL EDGE DETAIL FOR VIBRO OR ENGINEERED FILL SITES

JOB NO.	DRAWING NO.	REVISION
INS 12-0	210	P1



TYPICAL EDGE DETAIL AT SERVICE ENTRY POINTS (SECTION 1)

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS



DPM DETAIL (WHERE GAS MEMBRANE REFER TO PLOT SPECIFIC DRGS)

TYPICAL EDGE DETAIL

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JOB NO.	DRAWING NO.	REVISION
INS 12-0	220	P1

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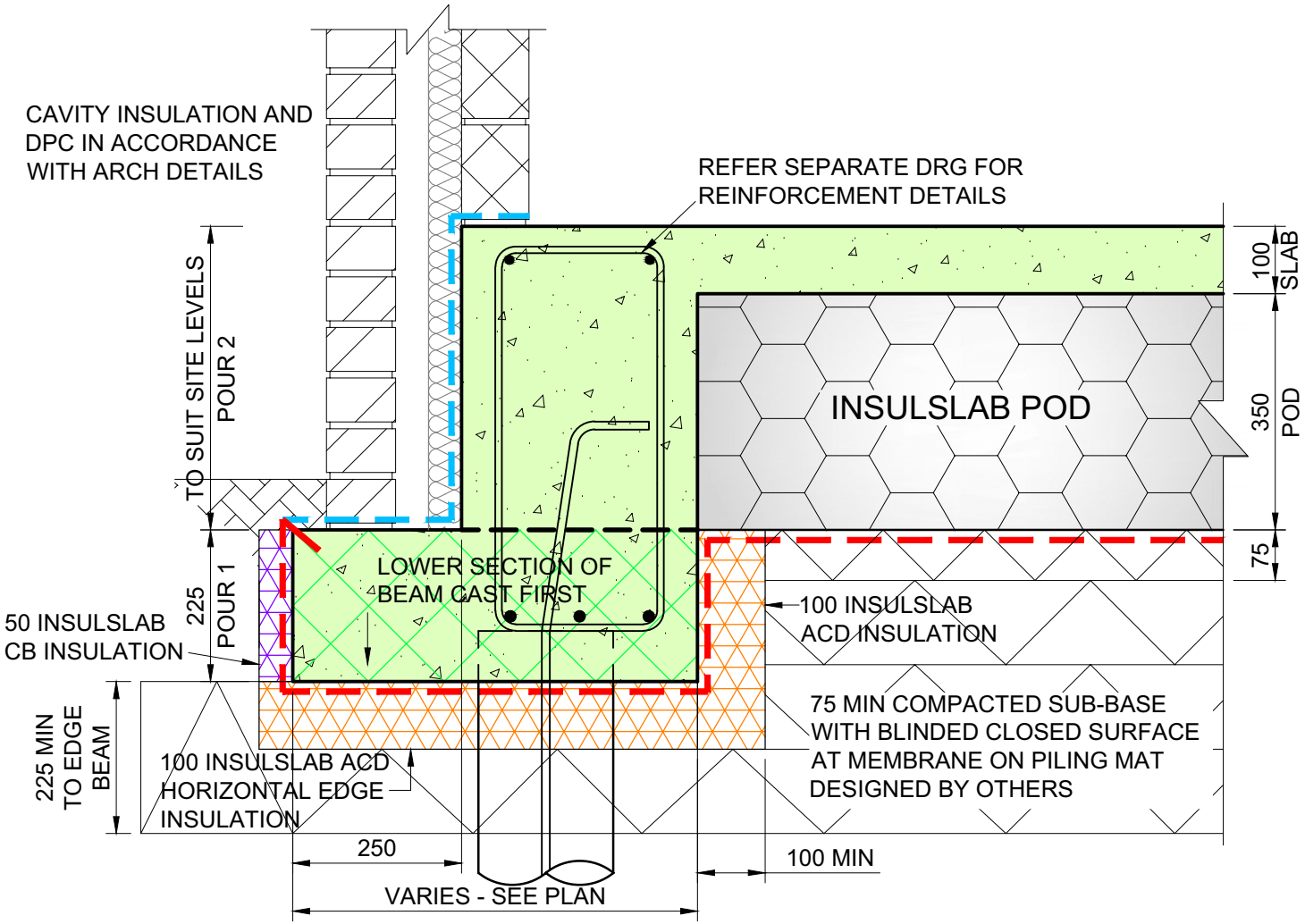

TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM (SECTION 3 - ALSO REFER /103)

HATCHED AREAS
DENOTES POUR ONE
OF TWO STAGE POUR -
SEE PLAN & SECTIONS

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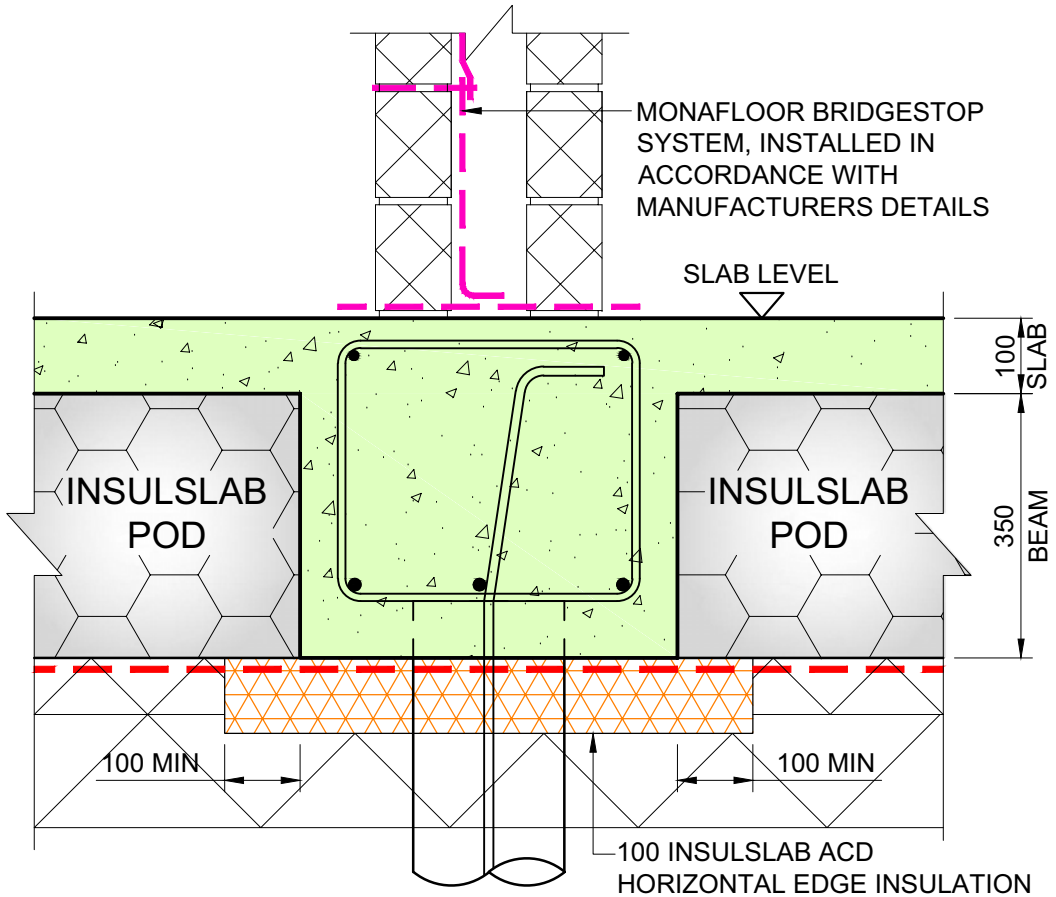
TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM/UNDERBUILD

JOB NO.	DRAWING NO.	REVISION
INS 12-0	222	P1



TYPICAL DETAIL AT INTERNAL/PARTY WALLS (SECTION 5)

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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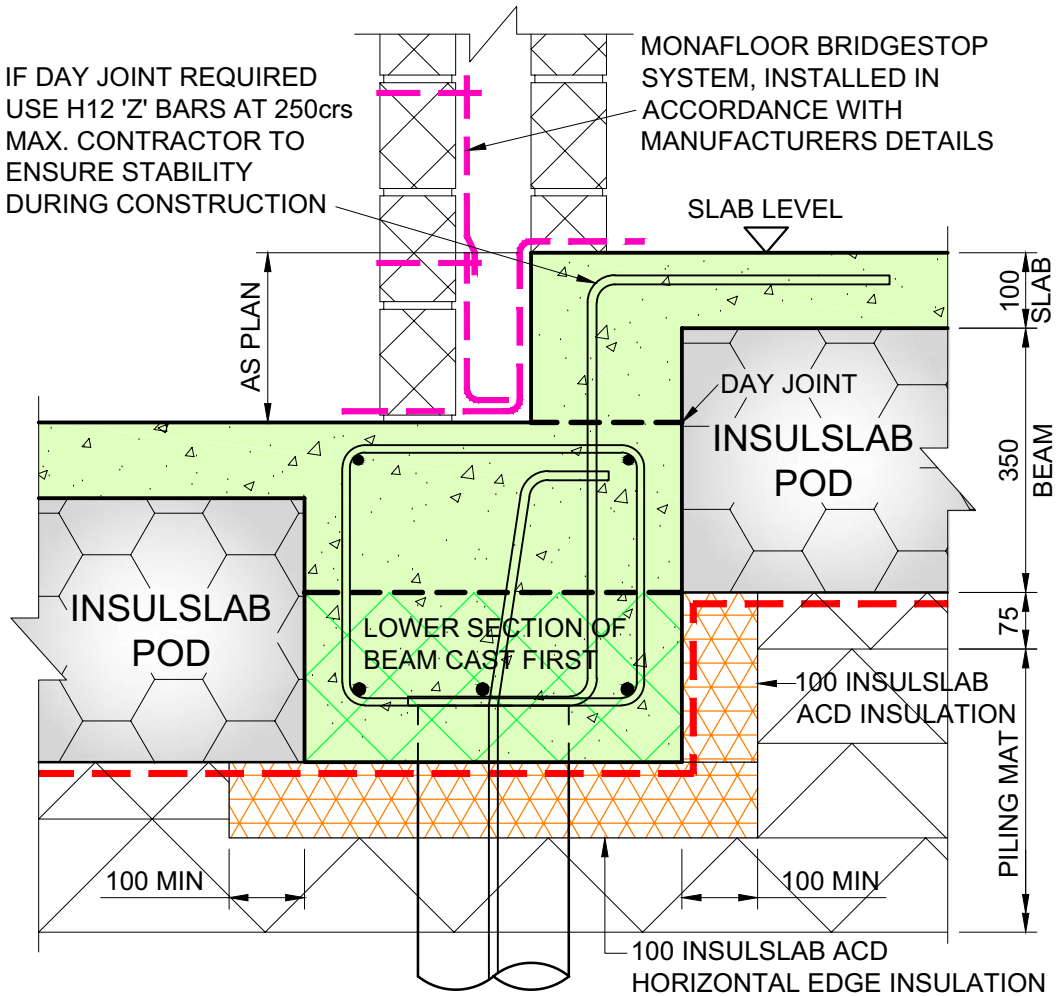
TYPICAL DETAIL AT INTERNAL/PARTY LOAD BEARING WALLS

JOB NO.	DRAWING NO.	REVISION
INS 12-0	223	P1



TYPICAL DETAIL AT CHANGE IN SLAB LEVEL AT PARTY WALLS (SECTION 6)

HATCHED AREAS
DENOTES POUR ONE
OF TWO STAGE POUR -
SEE PLAN & SECTIONS

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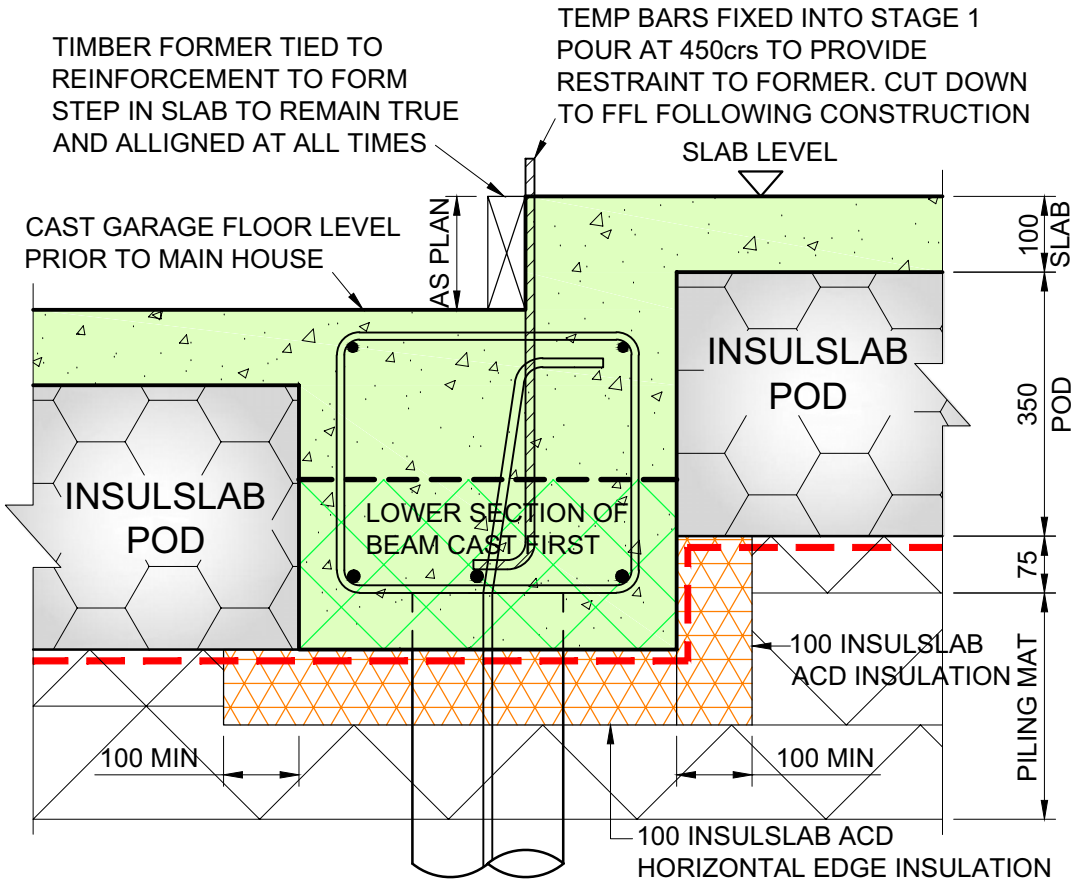
CHANGE IN SLAB LEVEL AT PARTY WALL BEAMS

JOB NO.	DRAWING NO.	REVISION
INS 12-0	224	P1



TYPICAL DETAIL AT CHANGE IN SLAB LEVEL TO GARAGE - 150 STEP MAX (SECTION 7)

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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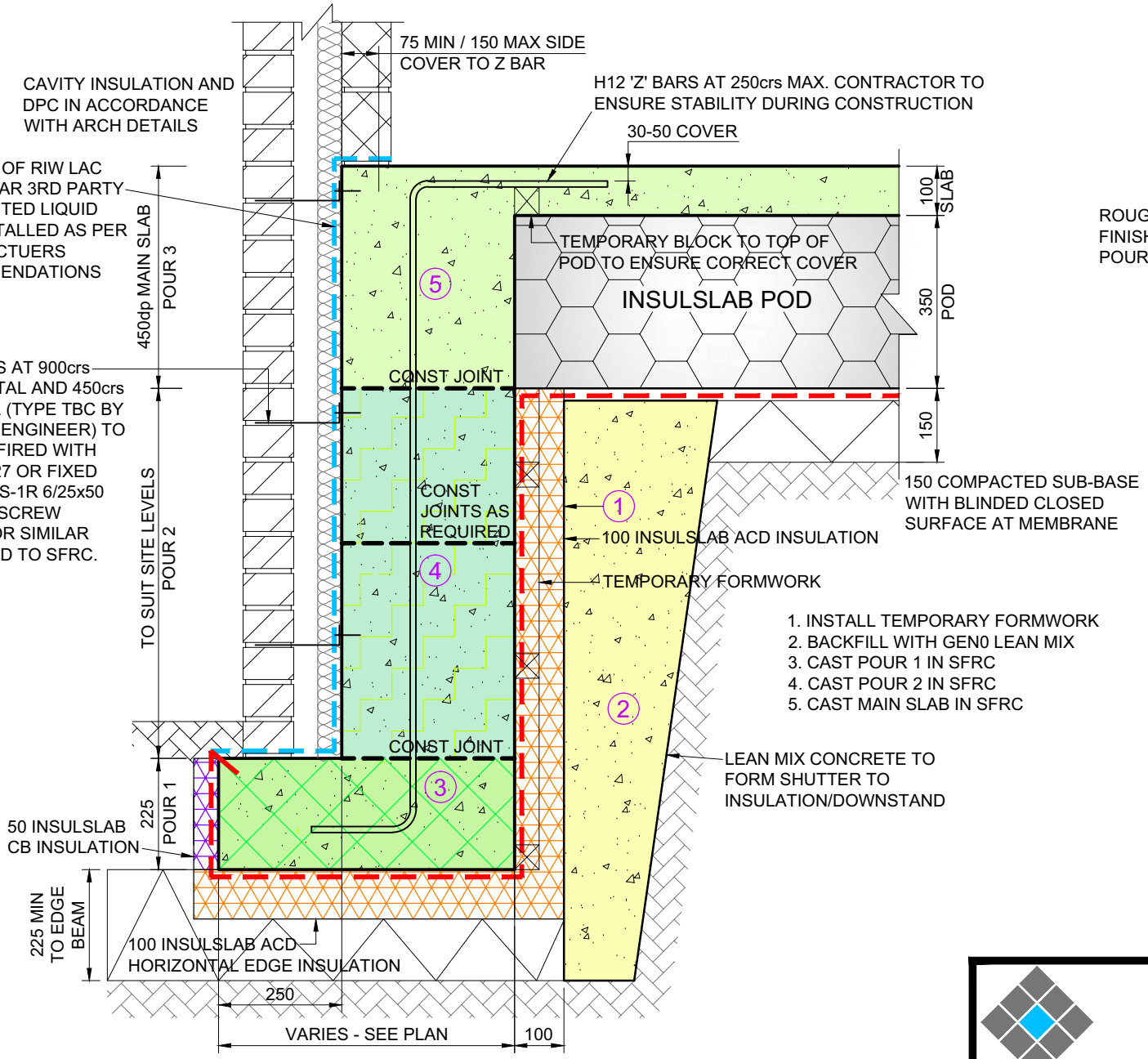
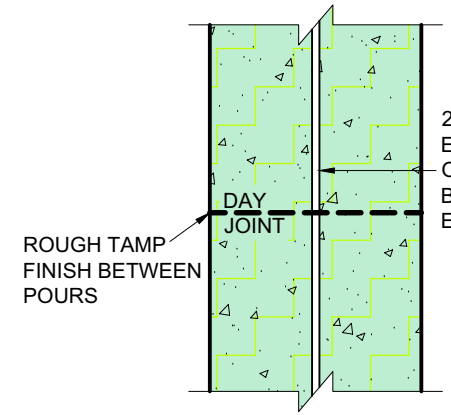
TYPICAL CHANGE IN SLAB LEVEL ADJACENT GARAGE

JOB NO.	DRAWING NO.	REVISION
INS 12-0	225	P1



TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM OPTION 1



DETAIL BETWEEN POURS

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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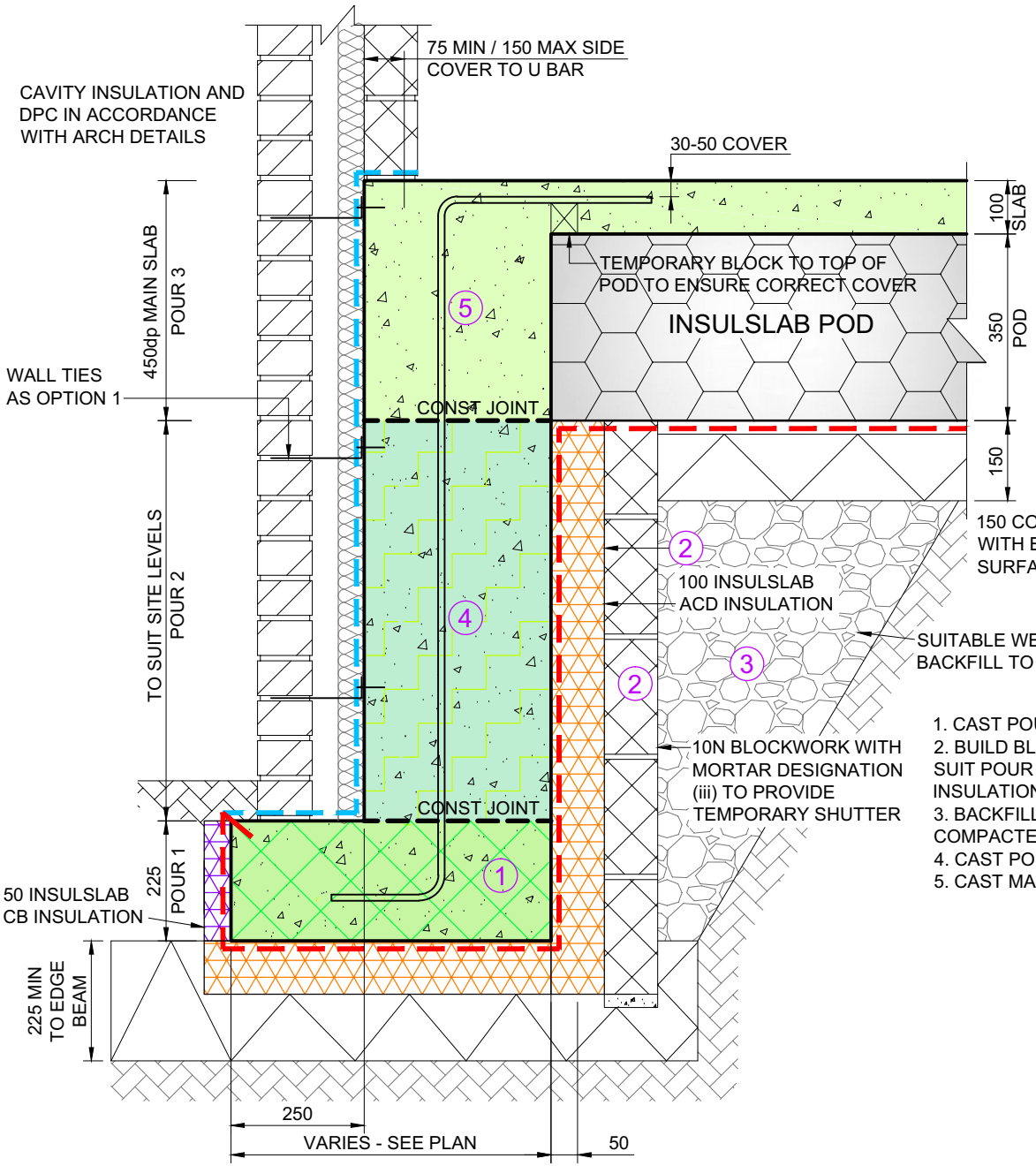
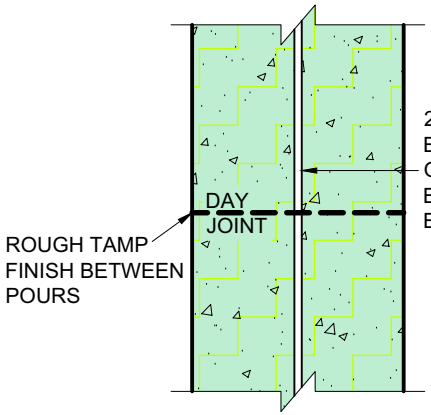
TYPICAL RAFT DETAILS AT UNDERBUILD

JOB NO.	DRAWING NO.	REVISION
INS 12-0	240	P1



TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM
OPTION 2

1. CAST POUR 1 IN SFRC
2. BUILD BLOCKWORK OR SIMILAR SUIT POUR 2 HEIGHT AND INSTALL INSULATION
3. BACKFILL WITH SUITABLE WELL COMPACTED FILL
4. CAST POUR 2 IN SFRC
5. CAST MAIN SLAB IN SFRC



DETAIL BETWEEN POURS

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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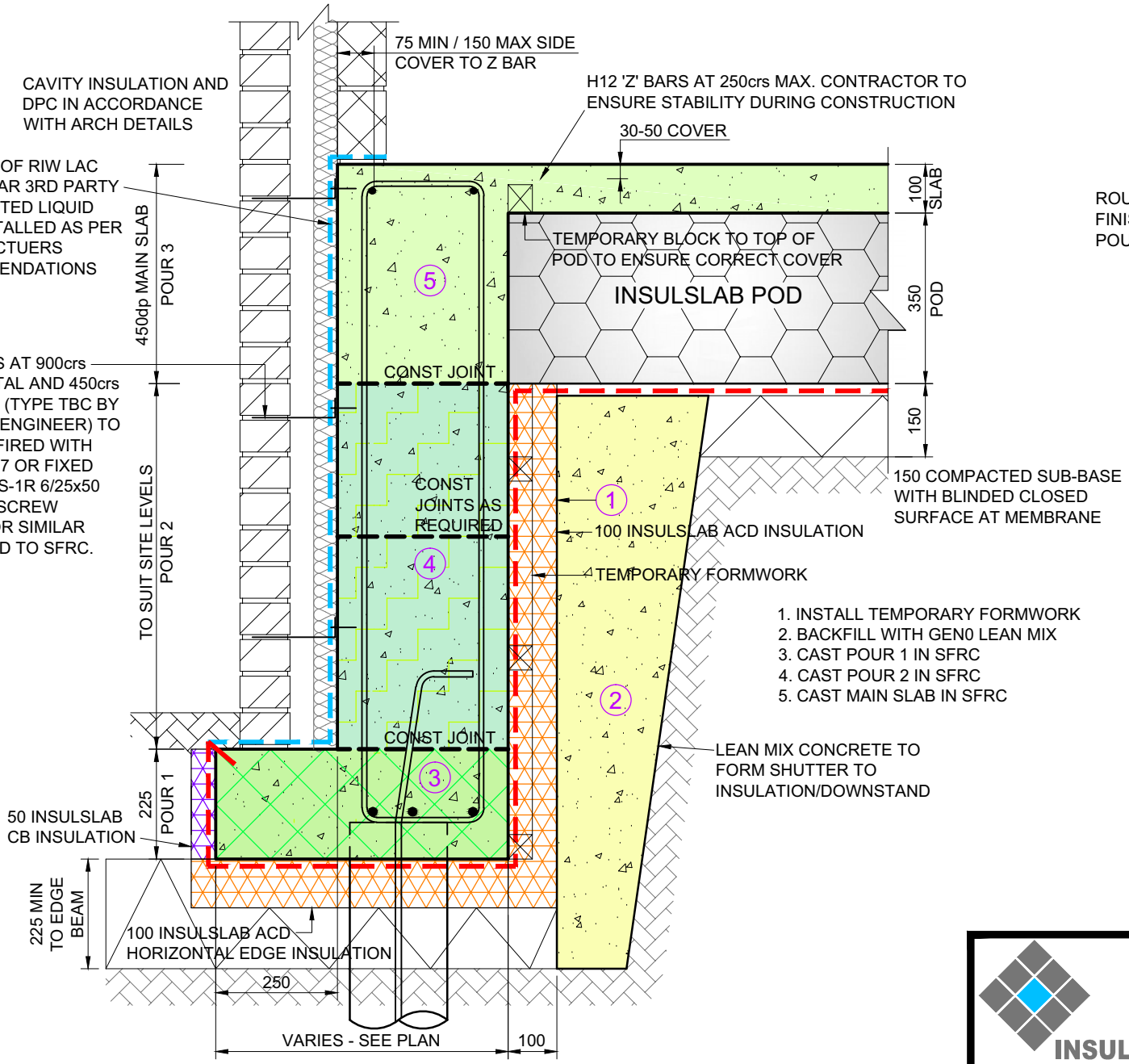
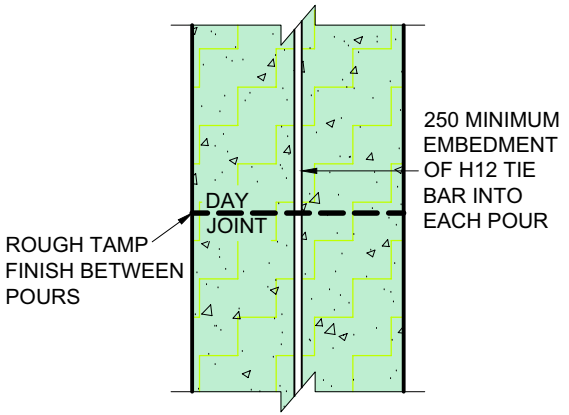
TYPICAL RAFT DETAILS AT UNDERBUILD OPTION 2

JOB NO.	DRAWING NO.	REVISION
INS 12-0	241	P1



TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM OPTION 1



DETAIL BETWEEN POURS

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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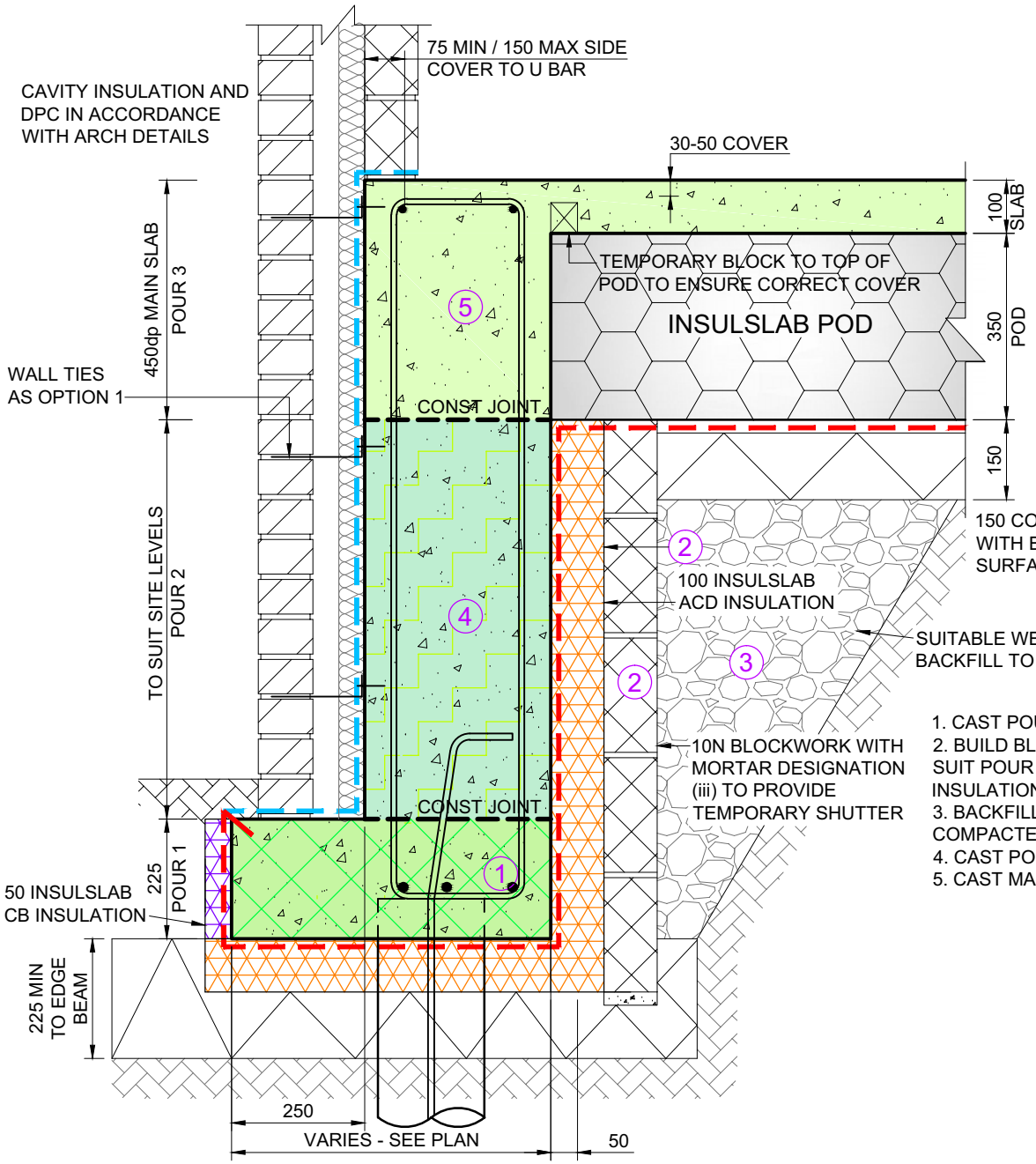
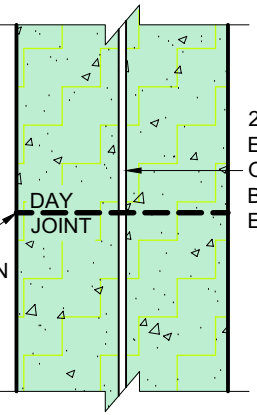
TYPICAL PILE DETAILS AT UNDERBUILD OPTION 1

JOB NO.	DRAWING NO.	REVISION
INS 12-0	242	P1



TYPICAL EDGE DETAIL AT DEEPENED EDGE BEAM OPTION 2



DETAIL BETWEEN POURS

1. CAST POUR 1 IN SFRC
2. BUILD BLOCKWORK OR SIMILAR TO SUIT POUR 2 HEIGHT AND INSTALL INSULATION
3. BACKFILL WITH SUITABLE WELL COMPACTED FILL
4. CAST POUR 2 IN SFRC
5. CAST MAIN SLAB IN SFRC

HATCHED AREAS DENOTES POUR ONE OF TWO STAGE POUR - SEE PLAN & SECTIONS

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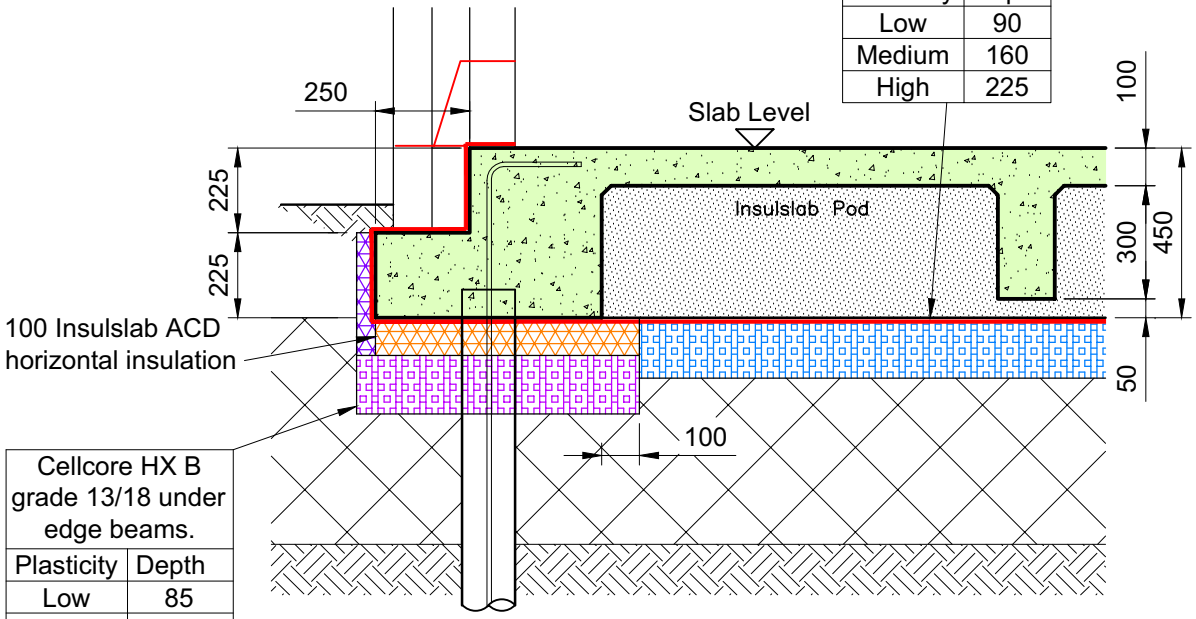
TYPICAL PILE DETAILS AT UNDERBUILD OPTION 2

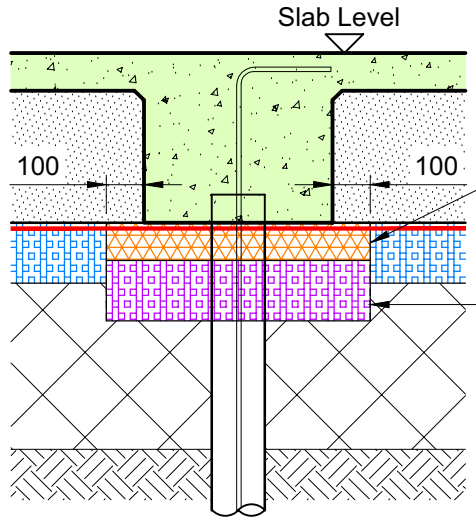
JOB NO.	DRAWING NO.	REVISION
INS 12-0	243	P1

Cellcore HX S grade 13/18 under slab.	
Plasticity	Depth
Low	90
Medium	160
High	225



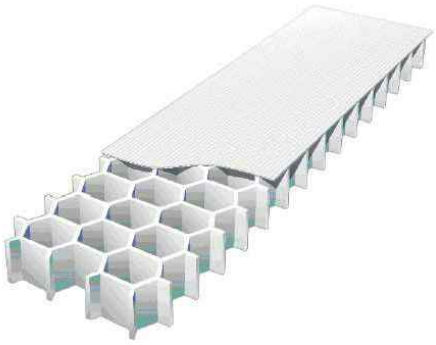
Cellcore HX B grade 13/18 under edge beams.	
Plasticity	Depth
Low	85
Medium	155
High	220

Typical Edge Detail Two Stage Pour

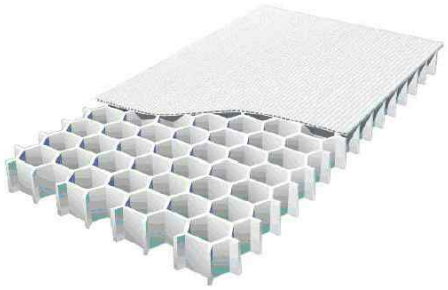


Cellcore HX B grade 13/18 under internal beams.	
Plasticity	Depth
Low	85
Medium	155
High	220

Typical Internal Beam Detail



Cellcore HX B



Cellcore HX S

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TYPICAL DETAIL OF VOID FORMER UNDER INSULSLAB PILED FOUNDATION

JOB NO.	DRAWING NO.	REVISION
INS 12-0	244	P1