



SUGGESTED CONSTRUCTION SEQUENCE FOR UNDERPINNING WALLS:

1. Excavate those bays marked 1 on the plan to a width at least as wide as the existing foundation. Excavation can be done from inside or outside building whichever the most convenient.
2. Clean the underside of the existing foundation to remove all debris and loose masonry etc. Shutter up the front face of the new pin.
3. Pour concrete into pin and thoroughly compact. Pour concrete up to within 75mm of underside of existing foundation.
4. After 24 hours pin up tight to the underside of the existing foundation with dry-pack and slate wedges.
5. Repeat 1 to 4 for those pins marked 2 on the plan.
6. Repeat 1 to 4 for those pins marked 3 on the plan.

NOTES:

1. Underpin and floor slab concrete to be grade RC25 min cement content 275kg/m³.
2. Before pouring concrete against an already concreted pin, thoroughly clean surface of all loose soil and hack to give a rough surface to pour against.
3. Min depth of new foundation to be 1000mm below external ground level. If soft spots or roots are found at this level then excavate deeper.
4. Dry-pack to be 3:1 sand cement with just sufficient water for the mixture to form a ball when compressed in the hand. Ram this well into the void and drive in slate wedges to refusal.

TYPICAL SECTION THROUGH UNDERPIN.

FIRST FLOOR (work above)

NOTES:

1. Do not scale from this drawing. Use only dimensions shown and those on the Architect's drawings.
2. Any discrepancies between this drawing and those of the Architect to be reported immediately.
3. All steelwork to be painted 75um Zinc Phosphate or other primer except concrete encased beam which is to be unpainted. Steel within the cavity to receive additional coat of bituminous paint.
4. All work construction details to be in accordance with the Building Regulations and current best practice.
5. Steel weight in kg/m shown at the end of steel mark up.
6. Contractors to comply with manual handling CDM regulations.

REV	DATE	AMENDMENTS	BY

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PROJECT: **WHEATSHEAF BARN**

TITLE: **STRUCTURAL DETAILS - 1**

SCALE: NTS
DRAWN BY: N.S
DATE: 31/12/18
PROJECT NO: BSA 17264
DWG NO: 101
REV: A

A visual inspection only was carried out. If anything untoward becomes noticeable once work begins, notify the Engineer.