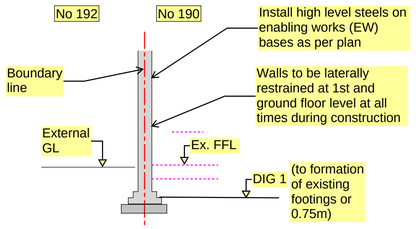
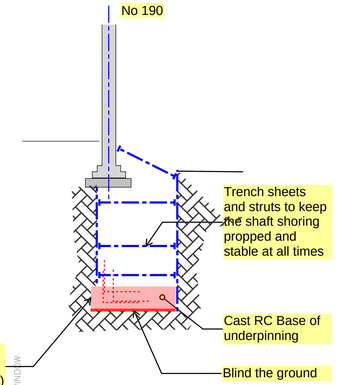
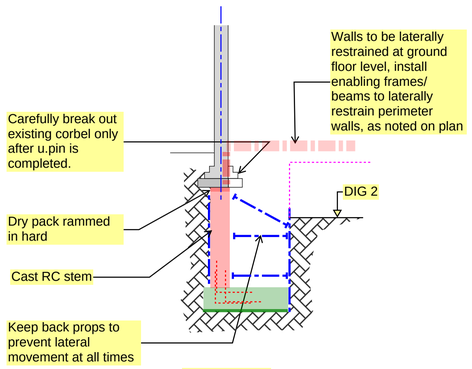


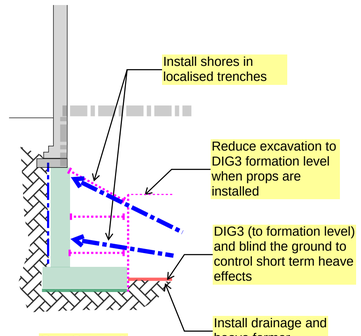
TYPICAL SECTION
STAGE 1-3



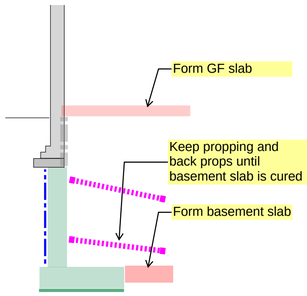
TYPICAL SECTION
STAGE 4



STAGE 4 - 6



STAGE 7 - 9



STAGE 9 - 10

NOTES:

1. If in doubt please ask.

2. Do not scale this drawing.

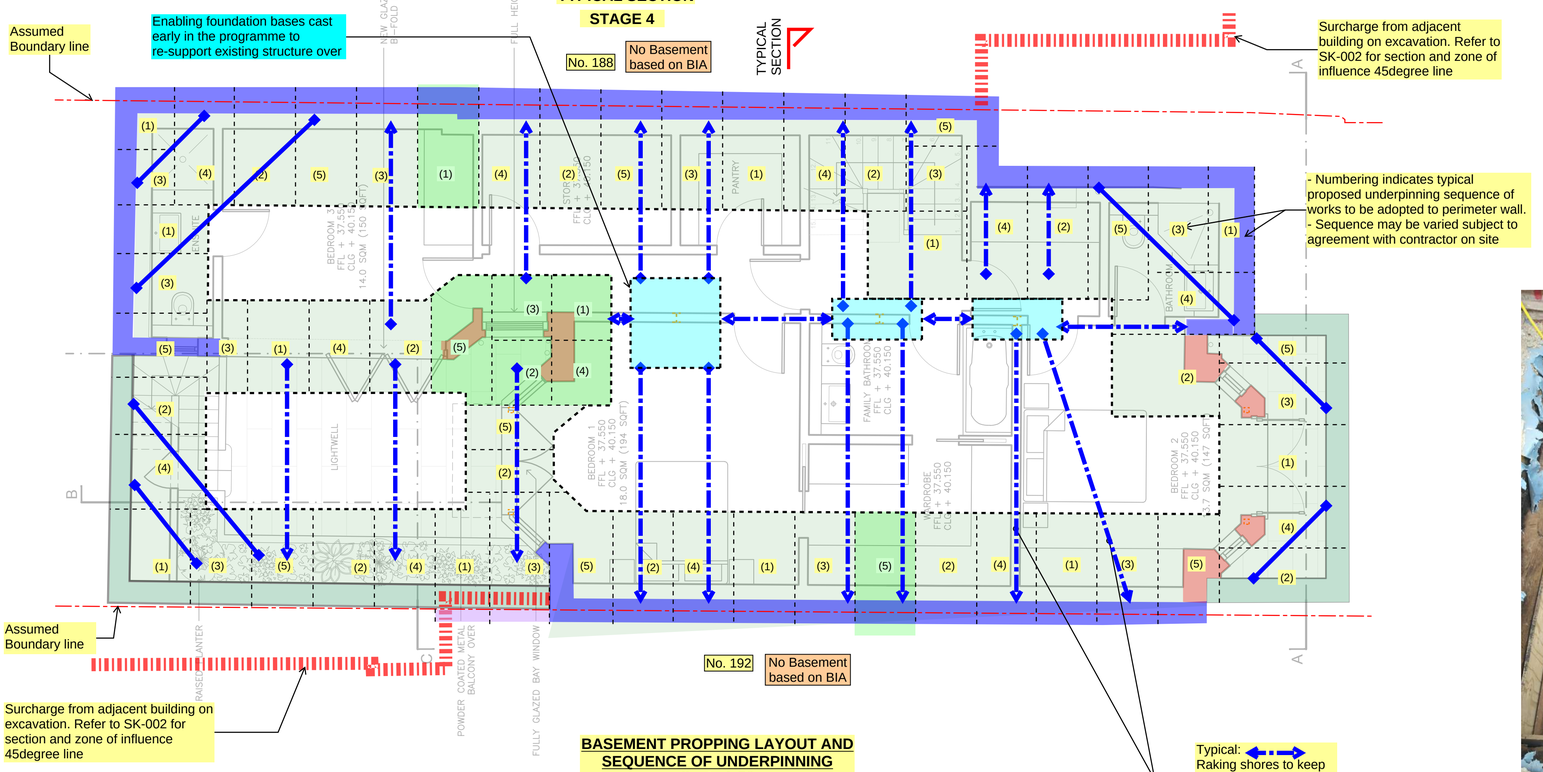
3. This drawing is to be read in conjunction with all Engineer's, Architect's or other relevant drawings and specifications.Any discrepancy is to be reported to the engineer immediately.

4. The contractor must ensure and will be held responsible for the overall stability of the building/structure/ /excavation at all stages of the work.

5. All existing details shown are based on limited opening up. Assumptions have been made regarding existing construction. Framing and spans of existing slab joist and walls to be confirmed on site.

6. To be Read with General Notes GN-001

Please Note:
Electronic Design Information can be intentionally or unintentionally modified. It is a misconception that Electronic Design Information is by default accurate. Any modification or reuse of the Electronic Design Information issued herewith that results in erroneous setting-out and/or any other design, costing, measuring or construction inaccuracy are the responsibility of the recipient of this Electronic Design Information.



BASEMENT PROPPING LAYOUT AND SEQUENCE OF UNDERPINNING
Scale 1:50

GENERAL KEY:

- Boundary line
- Enabling works bases (cast in fully shored shafts)
- Enabling works underpinning to existing walls/ piers
- Underpinning to existing walls cast in underpinning sequence
- New External RC walls to form lightwells, constructed in hit and miss sequence
- Mass concrete transition underpins
- Temporary Raking shores, allow for RMD S/SLIM (Fswl=100kN) or similar with prop jacks, as per typical details
- Horizonal shores, allow for RMD S/Slim push pull props with s/slim prop jacks (SWL=100kN) at ends

TYPICAL SHAFT SHORING (to enable underpinning to existing footings) (MEF)

PROPOSED SEQUENCE OF WORKS ASSUMED IN STRUCTURAL DESIGN

SUBJECT TO DETAILED DESIGN

1. Soft strip out and review existing condition of the superstructure. Ensure that ground floor wall is positively tied to external walls for walls lateral restraint.

2. Cast initial pins and foundation bases; install transfer structures at 1st and ground floor to support superstructure and enable groundworks
- Prop structure over in conventional way using needles and props.

3. Break existing concrete slab / remove timber floor,
DIG1 - reduce ground level by about 0.75m and prepare area for underpinning.

4. Underpinning in shaft excavation to perimeter walls.
4.1 Install trench sheeting, struts and walings as excavation proceeds in small shafts.
4.2 Cast mass concrete footing and RC base and stem (the following day).
4.3 Dry pack.
4.4 Individual pins to be backfilled with well compacted ground in layers. Keep back props to minimise risk of movement.
4.5 Carefully break out existing corbel only after u.pin is completed.

5. Install remaining permanent cross beams at ground floor level and additional members to laterally restrain boundary walls at ground floor as reduction of central earth mount in the existing house progresses.

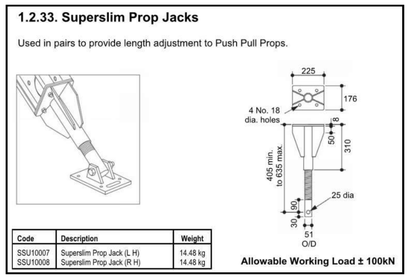
6. DIG2 = Subject to final design, reduce earth to about 1.5m below ground floor level. Keep earth adjacent to party walls.

7. Install temporary cross and raking shores in fully shored trenches as works progressing.

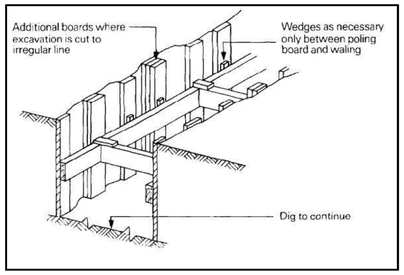
8. DIG3 = Permit to Dig.
Carry out excavation to formation level, blind the ground at formation level and control short term heave effects. Bend straight any rebar to enable connection with main basement slab.

9. Install below ground drainage and cast remaining slabs (at basement and ground floor levels.)

10. Remove horizontal line of props when basement and ground floor slabs gained design strength



TYPICAL CROSS SHORING DETAIL



TYPICAL SHALLOW SHORING FOR SHAFT EXCAVATION

THIS IS A PROPOSED WORKS DRAWING TO SUIT PLANNING CONDITIONS AND IS SUBJECT TO FULL DETAIL DESIGN AND STRUCTURAL CALCULATIONS

Rev	Date	Amendments	By	Chk'd
P3	25.11.21	Preliminary Issue	RN	AP
P2	13.10.21	Preliminary Issue	RN	AP
P1	31.08.21	Preliminary Issue	RLu	AP

PRELIMINARY

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Drawing title:
TEMPORARY WORKS

Date:	Scale at A1:	Scale at A3:
08/2021	AS SHOWN	/
Drawn by: RLu	Designed by: RLu	Chk'd by: AP

Drawing No.: **21108-ASL-SK-TW-040** Revision: **P3**