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Mini Piling works to lightwell complete

Sequence of enabling works for Piling rig access and works

- Excavate and install support to Area 4
- Prop and break out Area 1, including entrance columns, staircase & vaulted Arch
- Prop and fill Area 3 & Area 1
Ensure Area 1 propping locations and drain is noted for later piling operations in this area
- Excavate and locally D/Drill out 'heel' to existing retaining wall at pile locations at Area 2 along rear of existing retaining wall
- Prop Area 5 (existing retaining wall)
- Break out all harstanding and RFS - HL
- Lay piling mat and compact
- Fix guard rails to top of wall in area 2.
- Complete piling works at higher level

Piling works to the lower level can be carried out with a 'craned' in mini-rig.

Groundworks within the structure will be greatly disrupted if not impossible to continue during these and subsequent preparation and upper level piling works

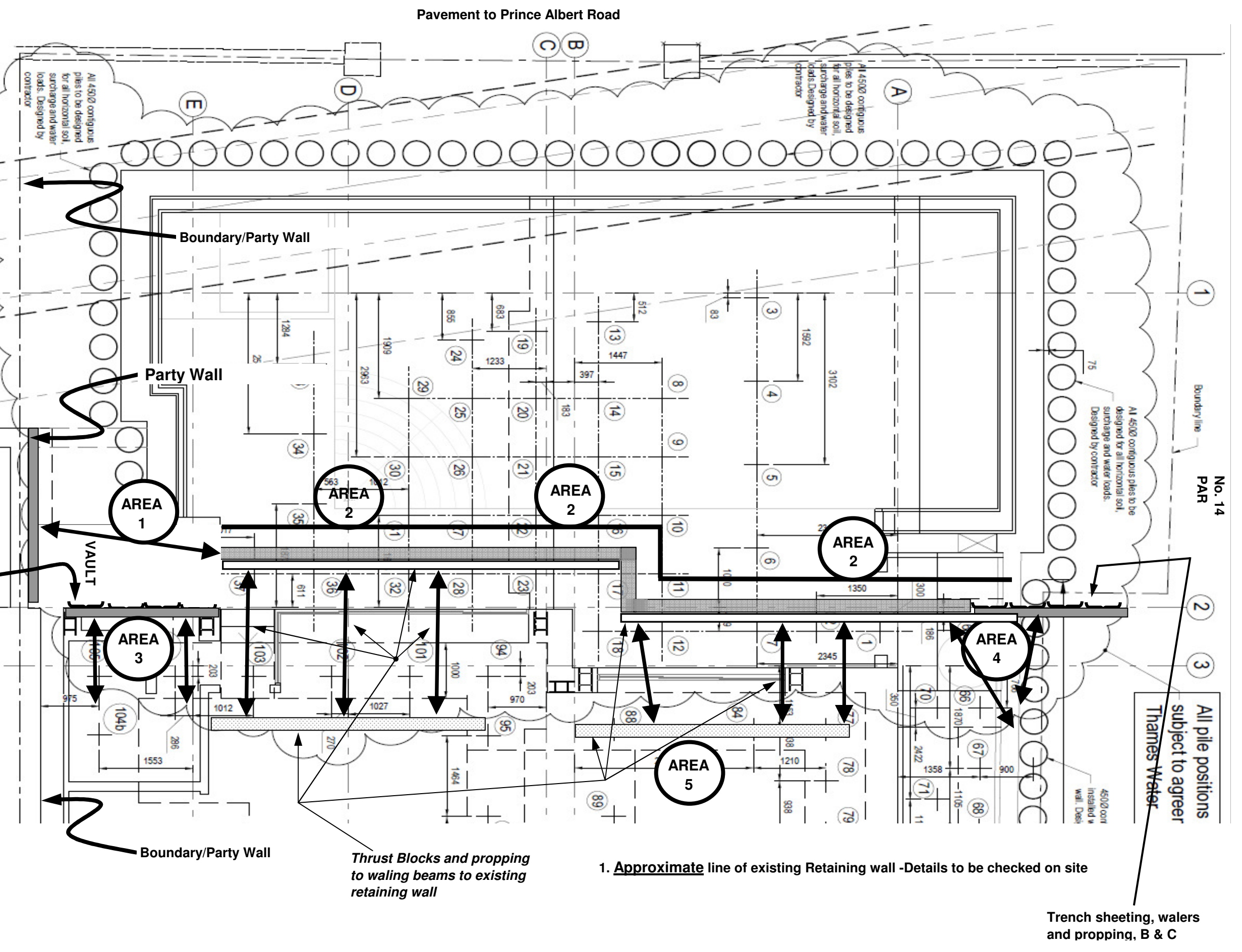
Trench sheeting, walers and propping, B & C

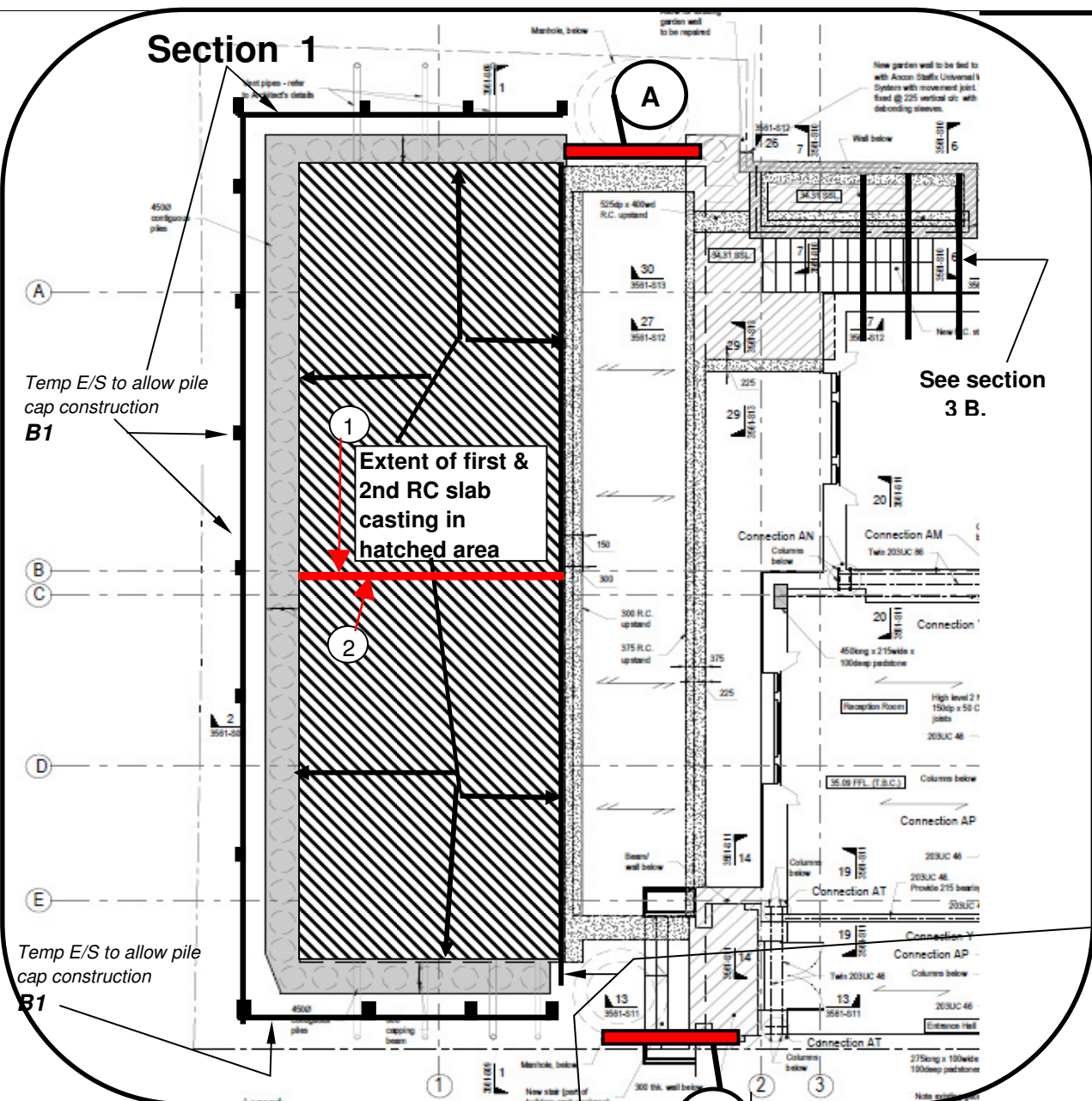
Boundary/Party Wall

Thrust Blocks and propping to waling beams to existing retaining wall

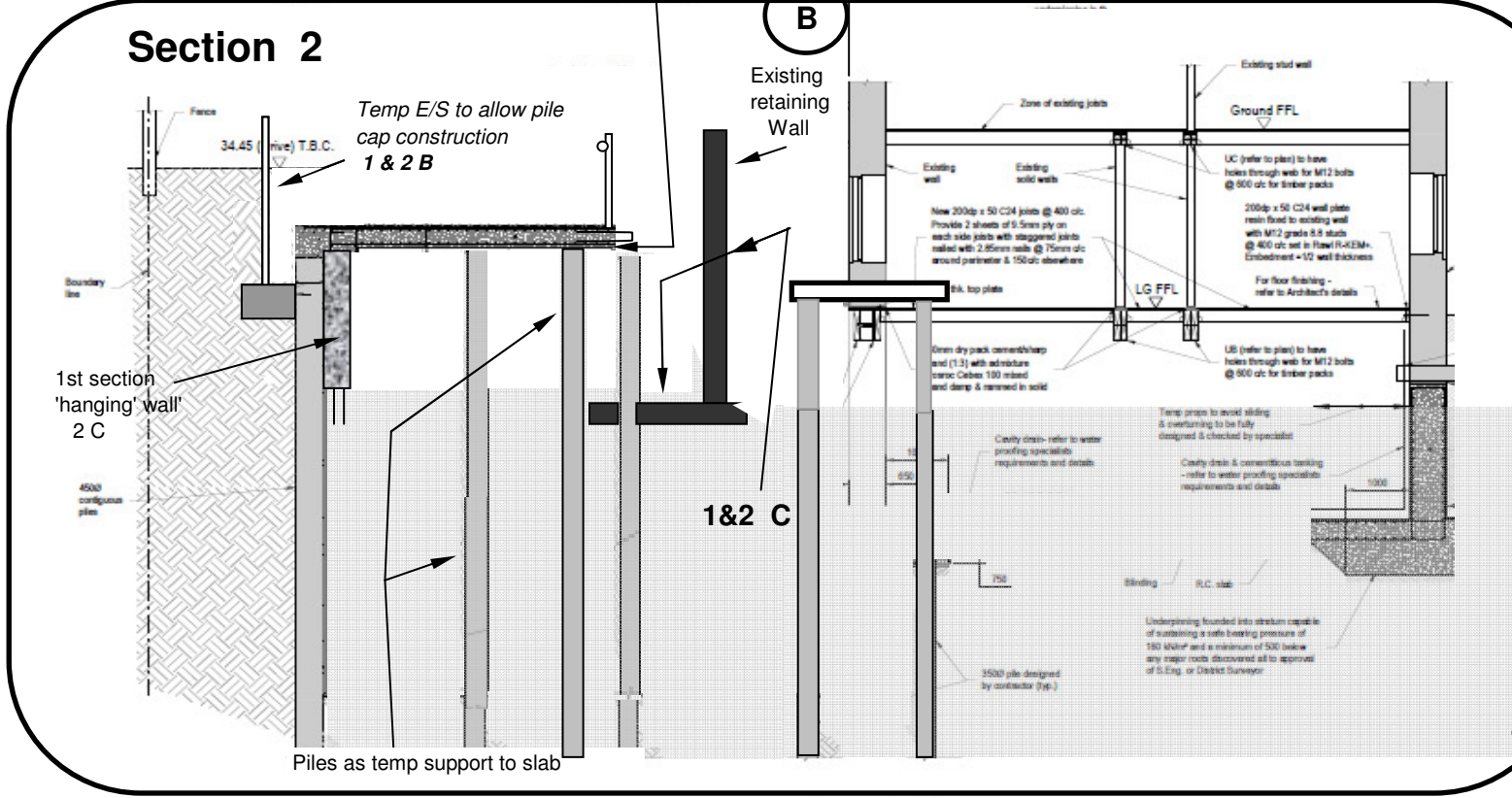
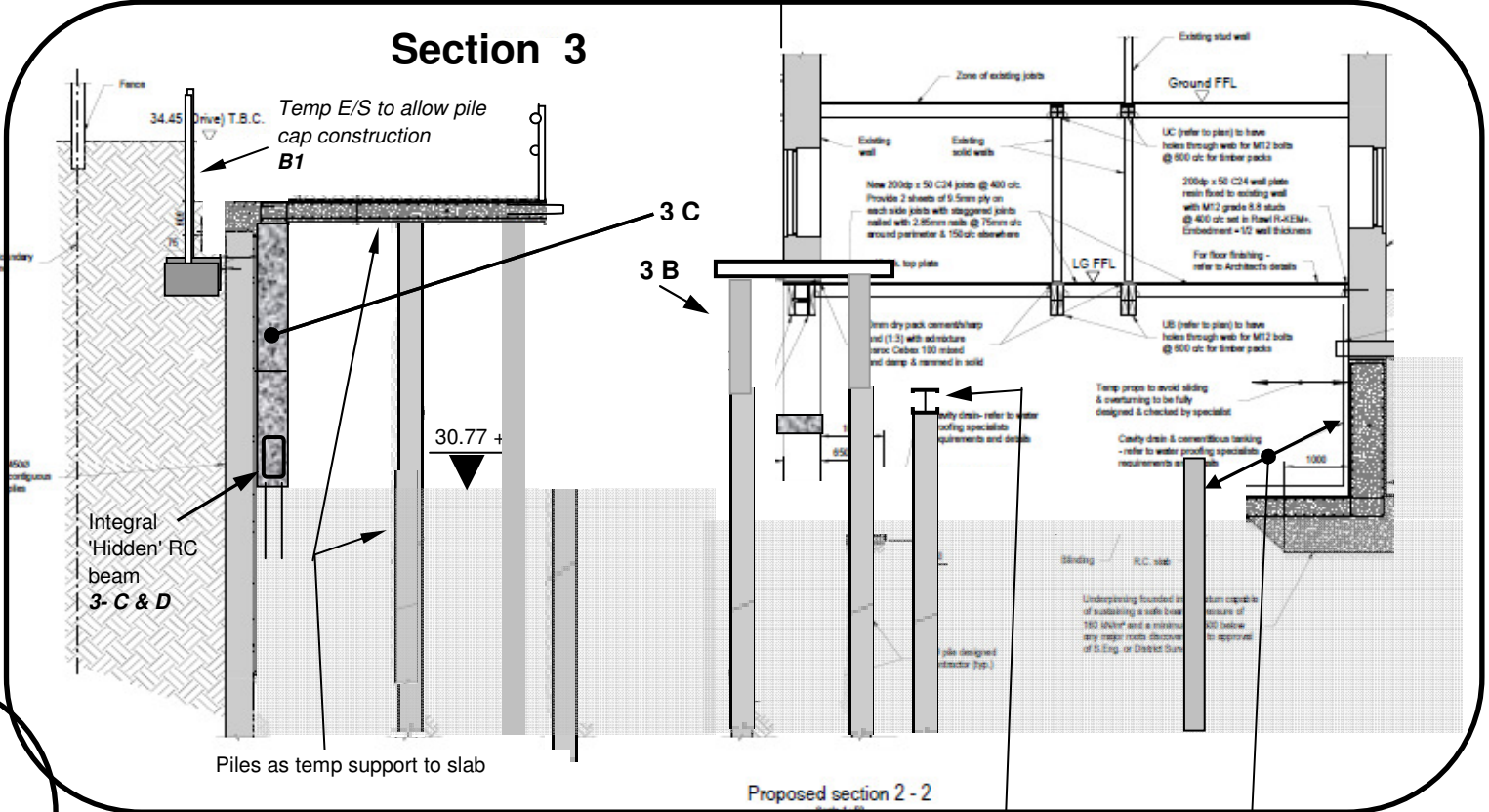
1. Approximate line of existing Retaining wall -Details to be checked on site

Trench sheeting, walers and propping, B & C





- Sequence - Piling works complete at higher and lower levels**
- A. Install walers/CB/propping to Areas A & B (3 & 4 on sheet 1)
 - B. Install perimeter earthwork support to allow excavation to form capping beam
 - C. Break out existing retaining wall & foundation, forming batter to rear edge of excavation - See Section 2
 - D. Excavate to soffit of Roof slab + formwork depths (18mm ply to 'head trees, to props onto blinding), allow batter formation to rear edge (dwelling side) of excavation
- NOTE: Temporary propping (L-B piles) to slab to allow for plant loading + spoil + material deposit/storage**
- E. Reduce piles not being used as temporary support with excavation
 - F. Cast capping beam, roofslab and initial hanging wall sections with continuity as item C as per RTA drawings, allow to cure
- 2 sequece operation**
- NOTE: Prop and fix waler to front Portico and Vault below, prior to removal of existing retaining wall within 3 metres of Vault**

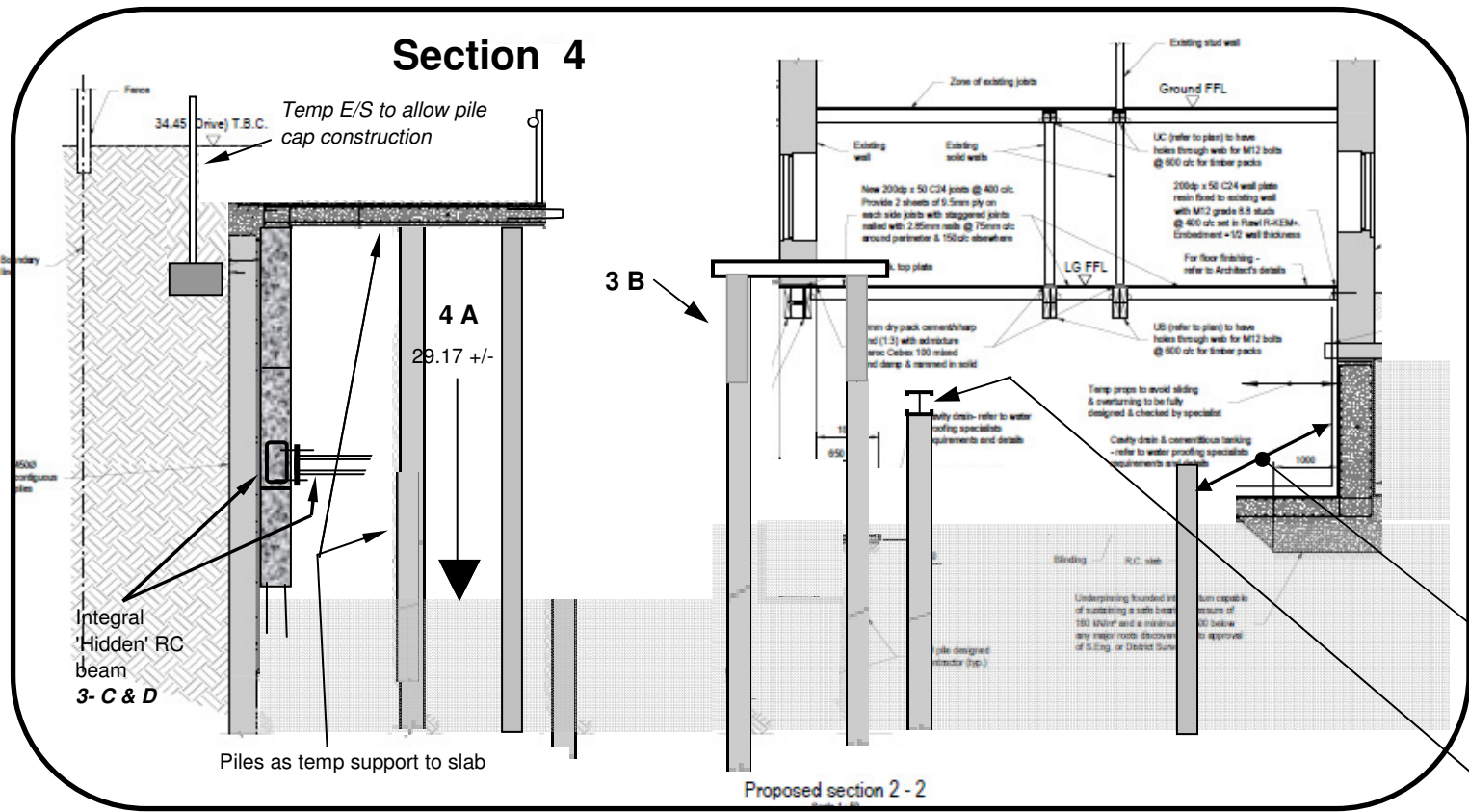


All Temporary works and detailing as per D Berle + WT & L sketches, drawings and calculations

- Sequence - Section 3**
- A. Excavate and expose piles to be used as temporary support to front elevation (grids 2 & 3)
- NOTE: Check existing foundation levels to dwelling, if formation levels exceed depth of proposed excavation, install needle beams to elevations, 2, 3 & A prior to main front and internal excavations, to avoid undermining of dwelling supports**
- B. Install temporary works to Grid lines 2, 3 & A (See section 1 for area on Grid line A)
 (See Section 4 for sequence of this element) in advance of excavations
 - C. Cast 'hanging' RC wall to 30.770 in new front basement to level of excavation, install continuity reinforcement for lower level walls, including integral 'hidden' RC beam allow to cure, excavation and wall construction to be sequenced - concurrent operations
 - D. Install plan struts to integral 'hidden' beam in front basement in tandem with excavations

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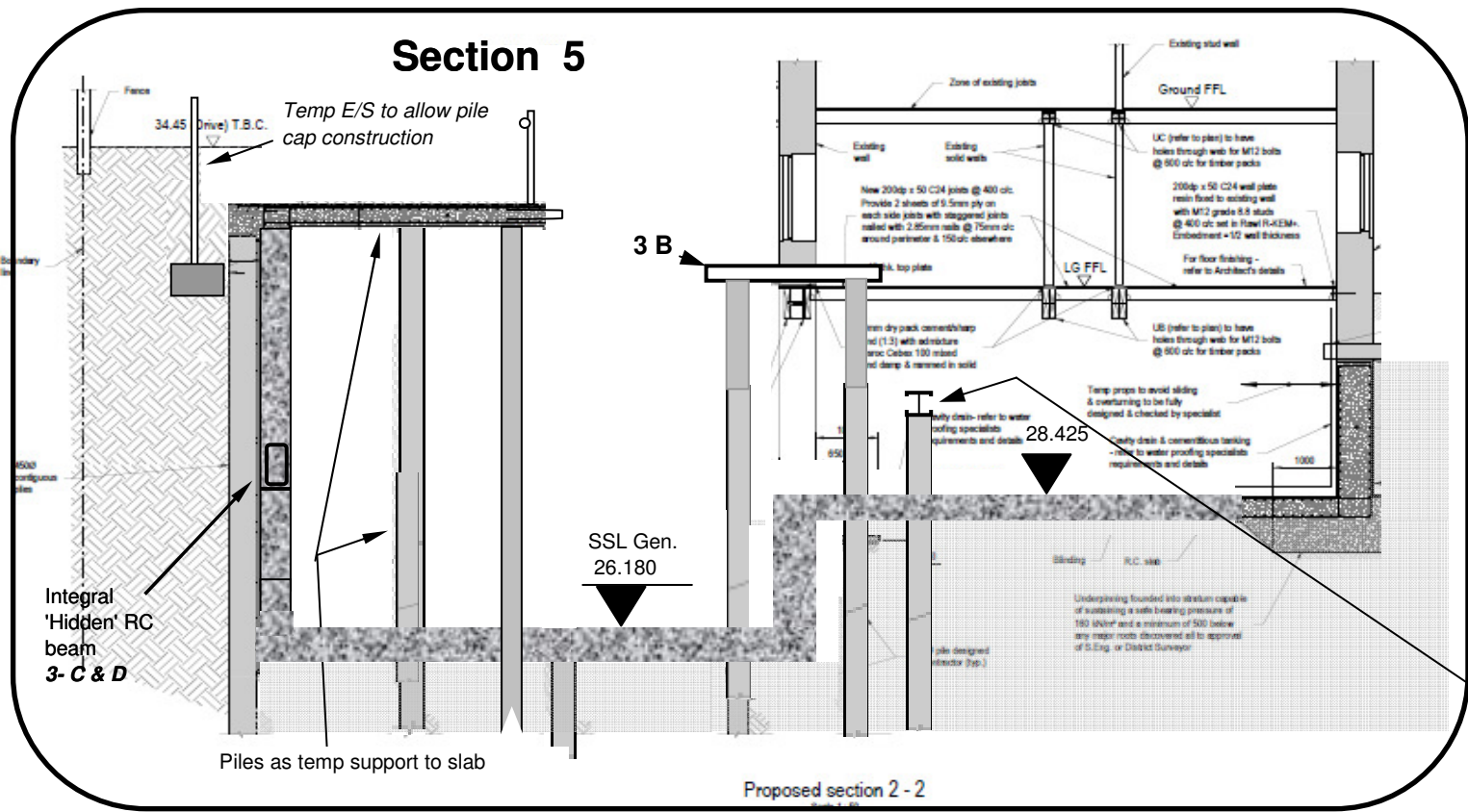


Section 4

- A. Excavate to 29.17 level +/- level to external basement, installing propping to internal underpinned walls in advance of excavation to existing foundation formation levels
- B. Cast 'hanging' wall
- C. Progress excavation to internal and external basements, including temporary propping works
- F. Commence Drainage and blinding works to internal and external basements
- G. Fix reinforcement including cross drilling through permanent L/B piles for incorporation into main slab pour
- H. Cast section of RC basement slab to Dwelling
- I. Commence installation of Structural Steel columns, Basement & LGround - top down bolting and grouting

4 A
3 B

All Temporary works and detailing as per D Berle + WT & L sketches, drawings and calculations



Section 5

- A. Cast remaining basement slabs, upstands, kickers & walls

3 B

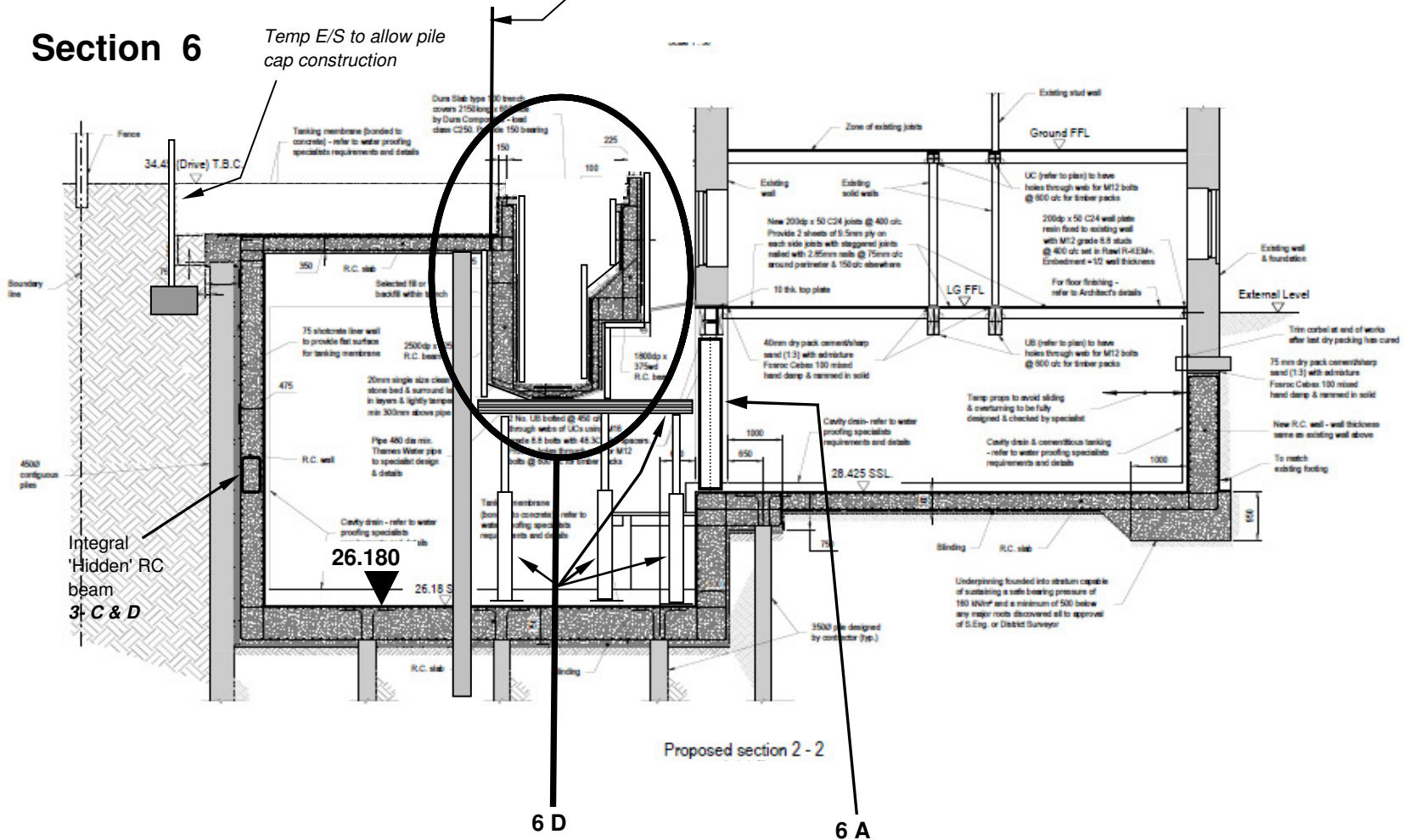
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Stop end location to 1st roof slab casting, does not include any section of the RC pipe trough, see item X in sections 1 & 2 (sheet 2)

Section 6



Section 6

- A. Permanent Steel sections installed onto slab and connected to previously installed sections and 'grouted in'.
- B. Construct Basement RC walls, allowing for later casting of Sewer RC 'trough'
- C. Remove Temporary works steels and piles -Reverse to item 3B and make good apertures
- D. Erect formwork and cast RC trough including connecting and associated RC works (multiple sequenced process)
 Note curing time allowance to be made prior to striking - 4 weeks dependant on 'crush test' results
- E. Erect formwork (during curing process of item C and complete RC slab to front dwelling entrance and ancillary RC 'tie and connecting' RC beams to RC 'trough'
- F. Proceed with Dampproofing and above SSL elements

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