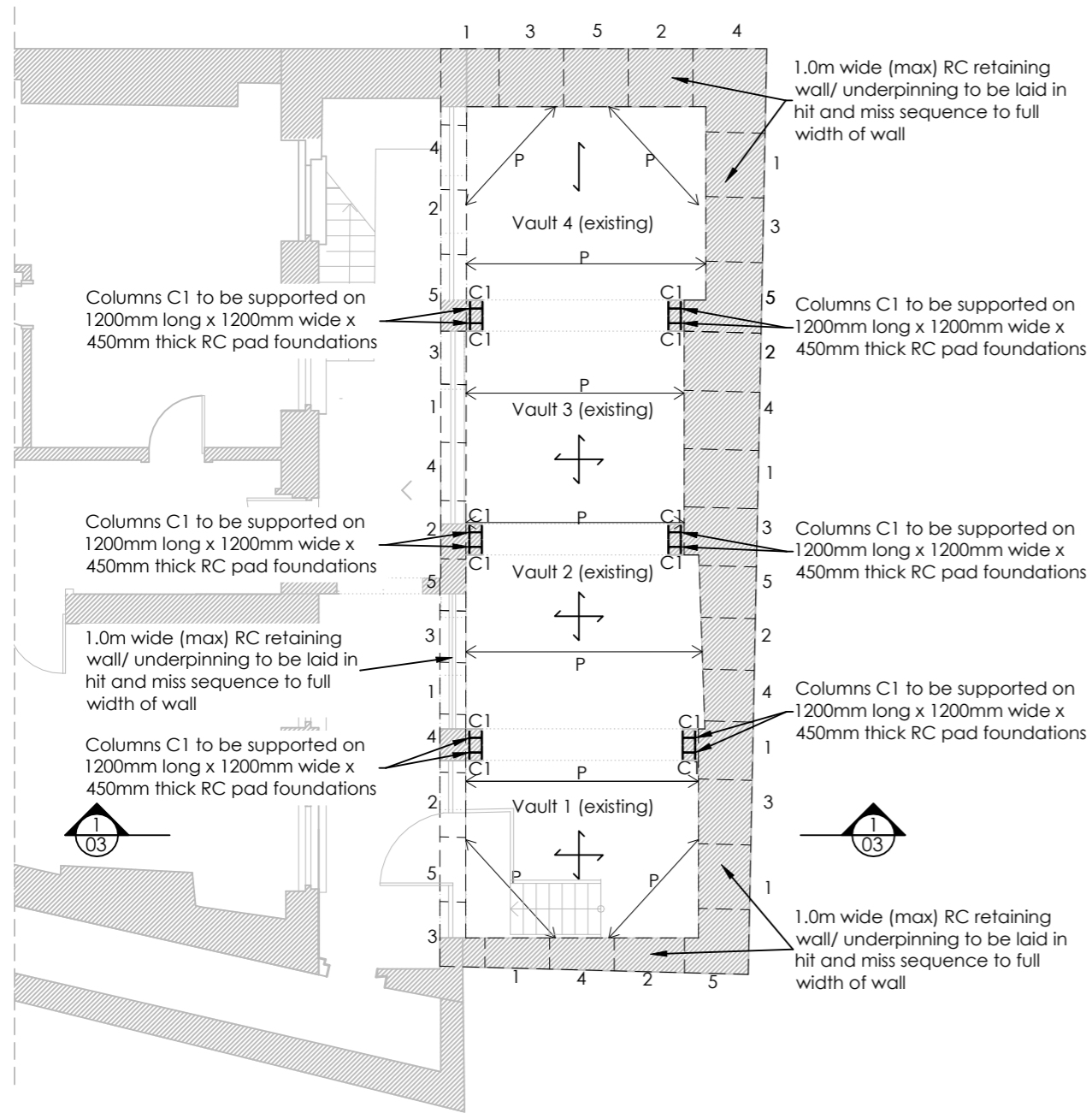
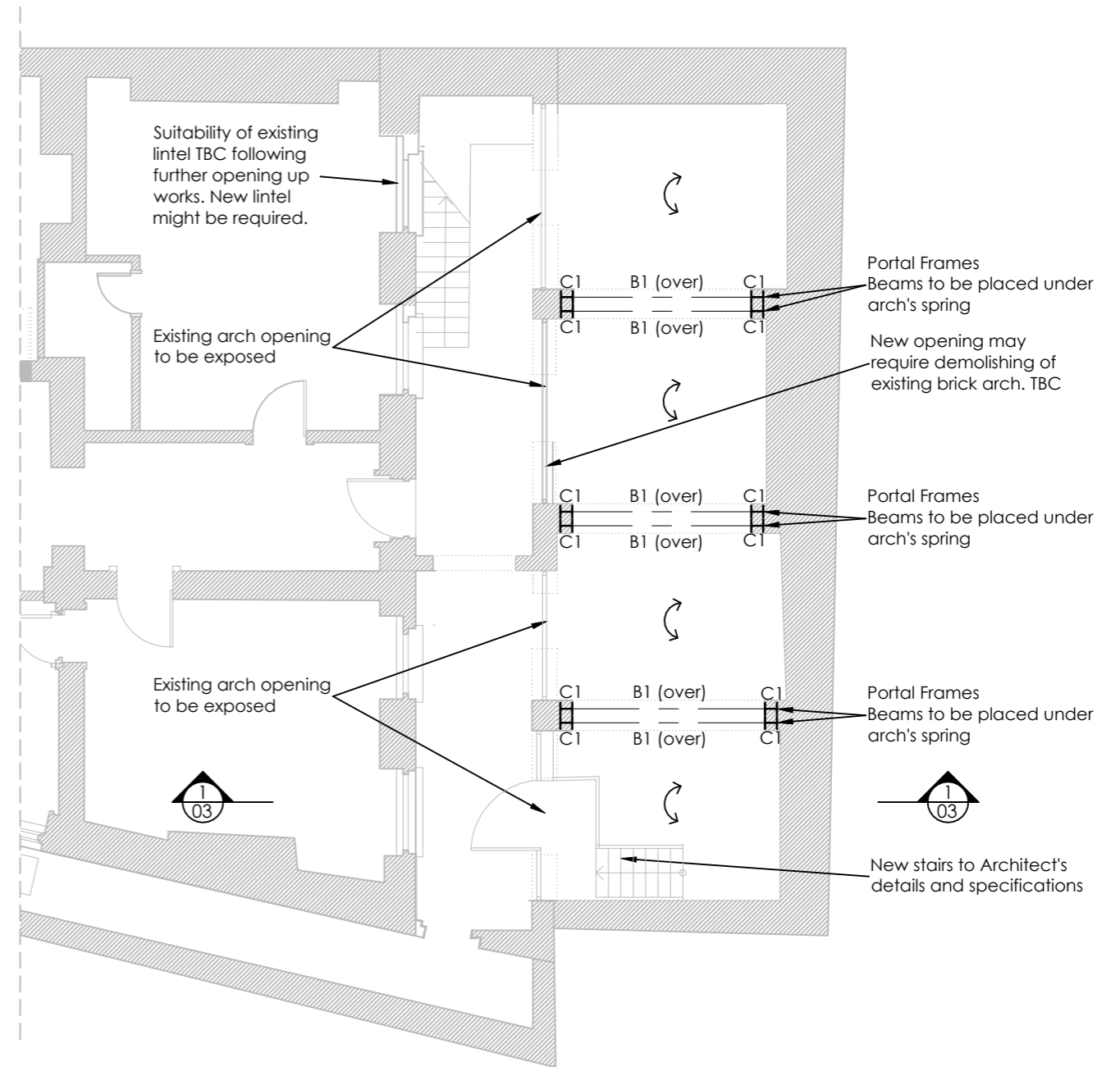


- Notes:
1. Temporary propping works designed by contractor to be approved by Structural Engineer.
 2. Existing FFL (Vault 1, 2 & 3) to be lowered by 1450mm approx.
 3. Existing FFL Vault 4 to be lowered by 1.0m approx.
 4. Ground bearing pressure = 200 kN/m². Refer to Soils Limited Hydrology and Geology report (15616/BIA).



FOUNDATION PLAN



LOWER GROUND FLOOR PLAN

ISSUED FOR INFORMATION

- Notes:
1. This Drawing is to be read in conjunction with all relevant Architect's Engineer's and specialists' drawings and specifications.
 2. This Drawing is the copyright of Chapero Marsh Ltd.
 3. Do not scale from this drawing. Use written dimensions only



- Legend:
- Proposed 250mm RC suspended slab
 - Proposed 250mm RC suspended slab
 - Proposed lateral propping during works
 - Denotes Arch

L1 - Hi-Spec Range R6 (100w x 145dp)
Naylor Concrete Lintel (or similar approved)
No. to suit wall width. Provide min. 150mm end bearing for precast lintels.

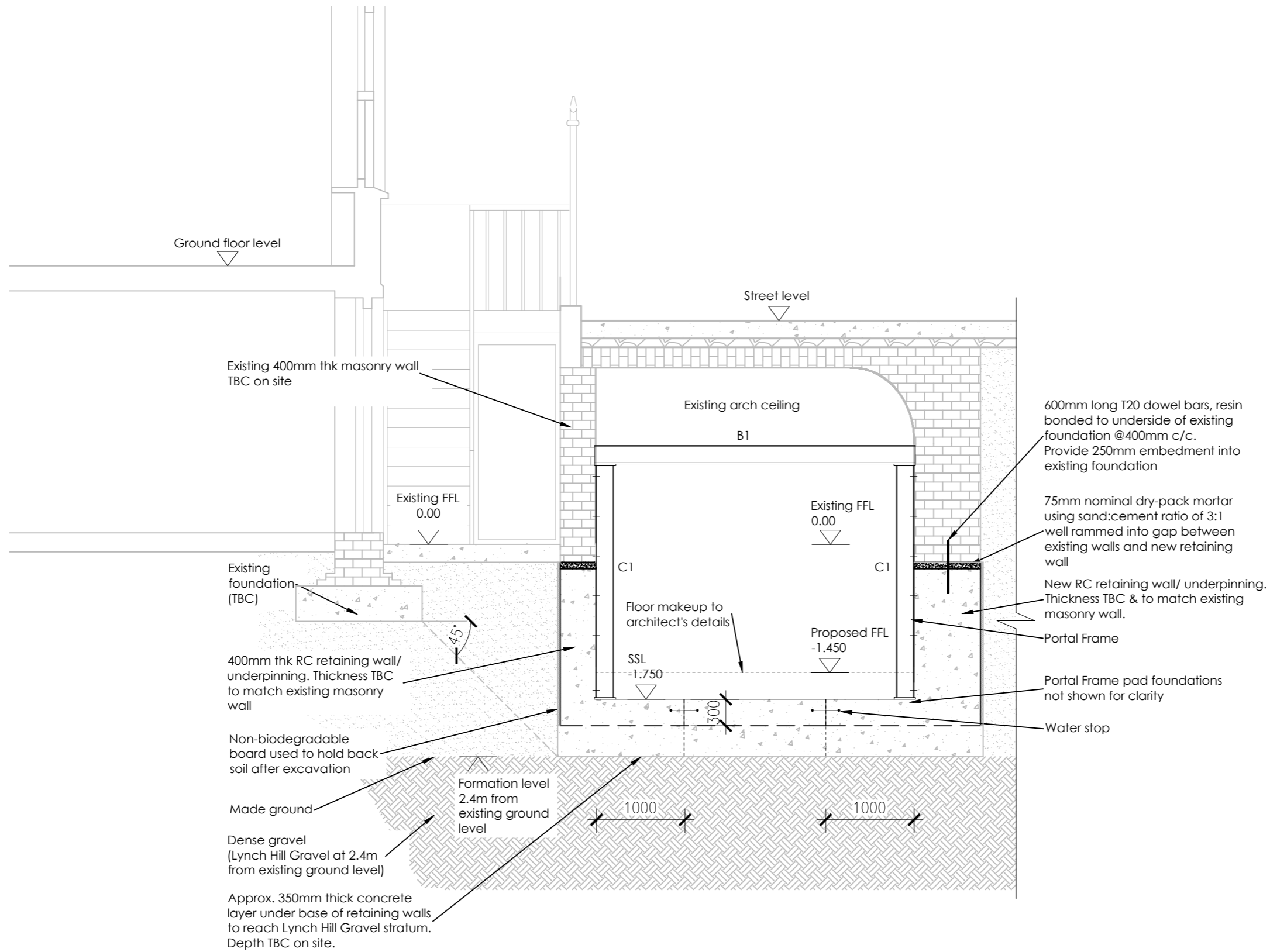
Portal Frames: Beams B1 - 203x203x60 UC
Columns C1 - 203x203x52 UC

Rev	Date	Drawn	Eng	Amendment
P1	22.06.21	JP	PCh	Issued for information
I	21.09.16	JP	PCh	Issued for information

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FOUNDATION AND LOWER GROUND
FLOOR PLANS
GENERAL ARRANGEMENT

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Drawing No	16003/01
Rev	P1
Drawn	JP
Eng	PCh
Scales	1:100@A3



Existing 400mm thk masonry wall
TBC on site

Existing
foundation
(TBC)

400mm thk RC retaining wall/
underpinning. Thickness TBC
to match existing masonry
wall

Non-biodegradable
board used to hold back
soil after excavation

Made ground

Dense gravel
(Lynch Hill Gravel at 2.4m
from existing ground level)

Approx. 350mm thick concrete
layer under base of retaining walls
to reach Lynch Hill Gravel stratum.
Depth TBC on site.

Existing FFL
0.00

Formation level
2.4m from
existing ground
level

Floor makeup to
architect's details

SSL
-1.750

Existing FFL
0.00

Proposed FFL
-1.450

Existing arch ceiling

B1

C1

C1

600mm long T20 dowel bars, resin
bonded to underside of existing
foundation @400mm c/c.
Provide 250mm embedment into
existing foundation

75mm nominal dry-pack mortar
using sand:cement ratio of 3:1
well rammed into gap between
existing walls and new retaining
wall

New RC retaining wall/ underpinning.
Thickness TBC & to match existing
masonry wall.

Portal Frame

Portal Frame pad foundations
not shown for clarity

Water stop

Notes:

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Legend:

Portal Frames: Beams B1 - 203x203x60 UC
Columns C1 - 203x203x52 UC

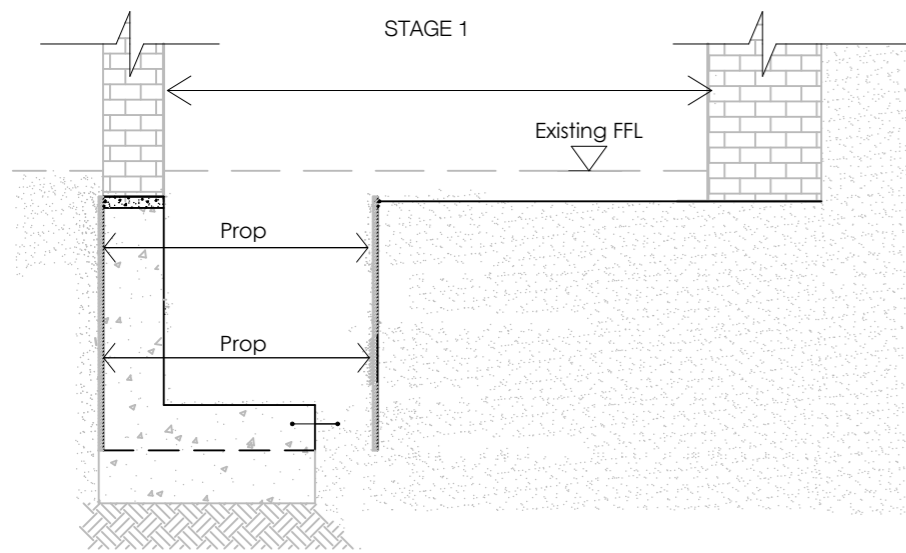
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P1	22.06.21	JP	PCh	Issued for information
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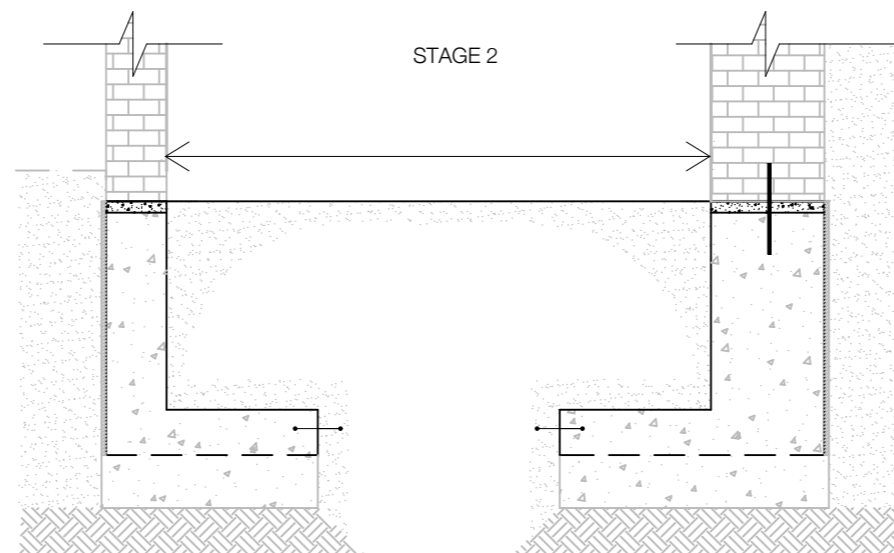
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SECTION A-A

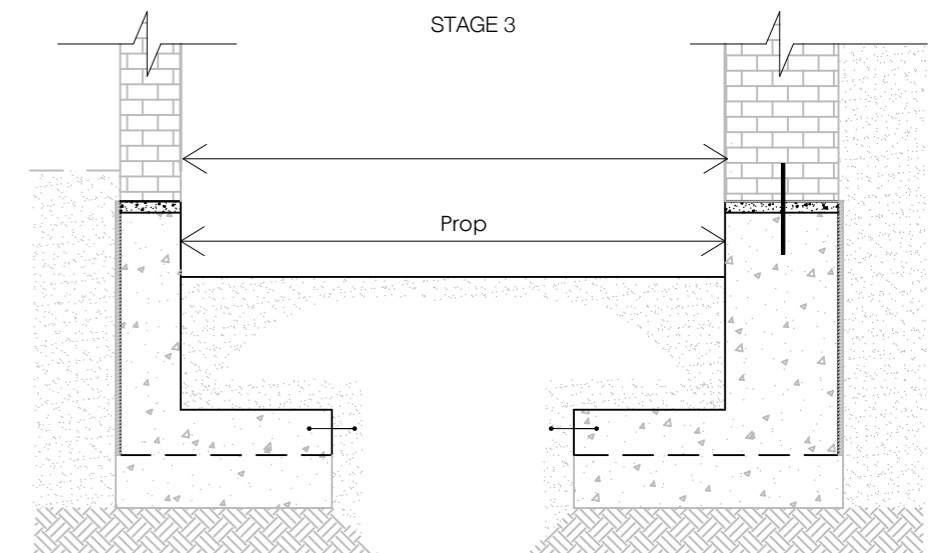
Chapero Marsh Construction Consultants www.chaperomارش.com	
Drawing No	16003/03
Rev	P1
Drawn	JP
Eng	PCh
Scales	1:50@A3



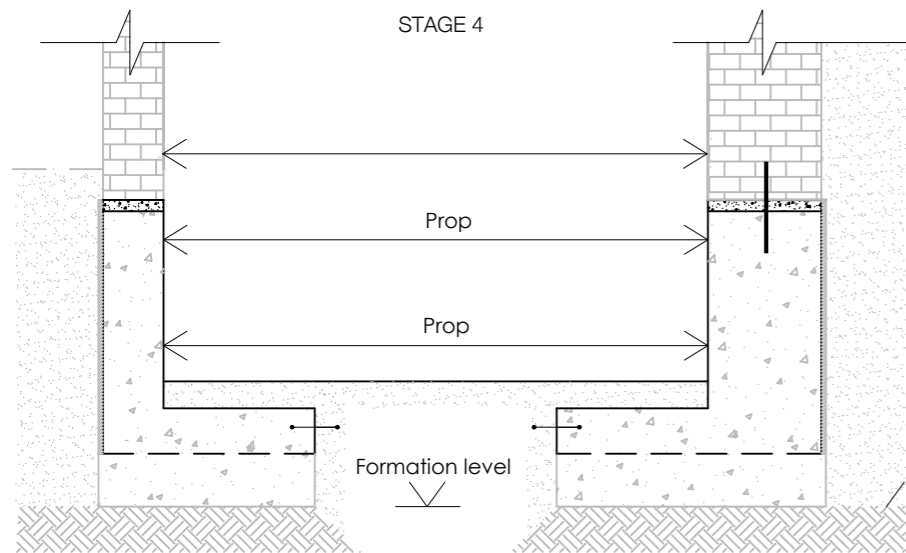
1. Excavate down approx. 200mm above foundation level.
2. Break out and remove existing vaults floor.
3. Excavate underpins in sequenced bays 1.0m wide (max). Non-biodegradable boards to be used to hold back soil after excavation. Insert the rear shutter of non-biodegradable board.
4. Cast approx. 350mm thick concrete layer under base of retaining wall to reach Lynch Hill Gravel stratum.
5. Place reinforcement, dowel bars and water stops. Erect formwork with a "letterbox" at the top. Front formwork to be propped against the undisturbed soil.
6. Cast base and stem of retaining wall / underpins. Terminate concrete 75mm below the underside of the existing footing and backfill each underpin excavation in compacted layers prior to moving to the next bays in sequence.
7. 24 hours after casting concrete, ram dry-pack mortar onto the gap between pre-existing footing and new RC underpin.



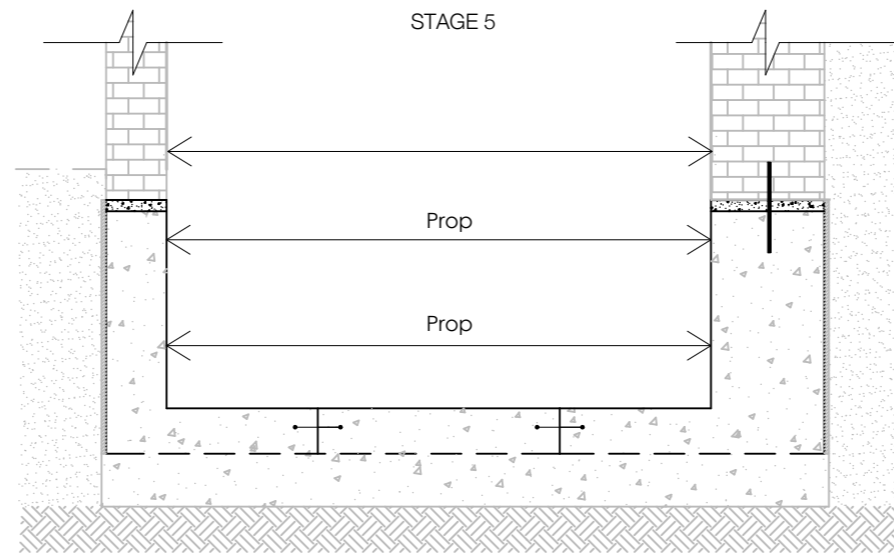
8. Complete a pin in the corresponding position in the opposite wall then prop across the site to the undisturbed soil between.
9. Backfill around props with excavated spoil to form a working platform. This backfill is not to be used as lateral support for the underpins.
10. Continue until all perimeter walls have been completely underpinned following standard timings for underpinning, ensuring no excavation is carried out until at least 48 hours after casting an adjacent underpin.



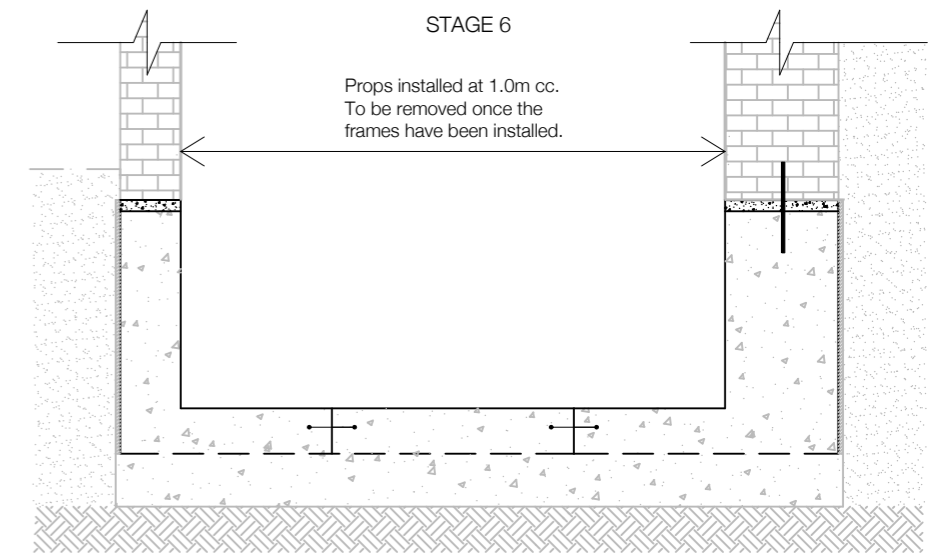
11. Once underpinning has been completed excavate down 500mm (approx) and install horizontal prop.



12. Reduce dig to 2/3 the required depth and prop underpins.
13. Continue excavation to formation level.



14. Cast approx. 350mm thick concrete layer under middle part of slab to reach Lynch Hill Gravel stratum.
15. Arrange reinforcement and cast 300mm RC slab. Lapping with starter bars from toe of RC walls and place waterstop bars.



16. Once all concrete has cured, remove temporary upper level props.

Notes:

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Legend:

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PROPOSED CONSTRUCTION
SEQUENCE

Rev	Date	Drawn	Eng	Amendment
P1	22.06.21	JP	PCh	Issued for information
I	21.09.16	JP	PCh	Issued for information

Drawing No	Rev
16003/10	P1
Drawn	Eng
JP	PCh
Scales	1:50@A3

