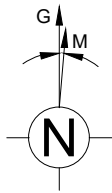


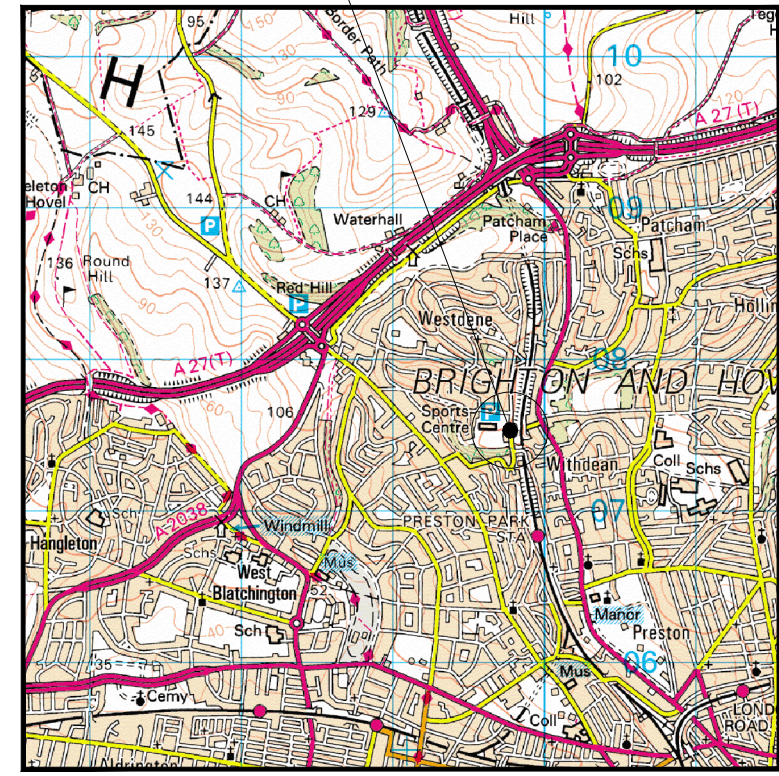


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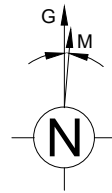
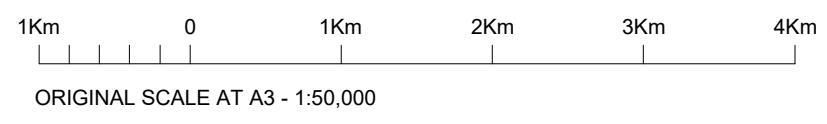
1. This drawing to be read in conjunction with drawing series 001-008.
2. All dimensions are in mm unless otherwise noted.



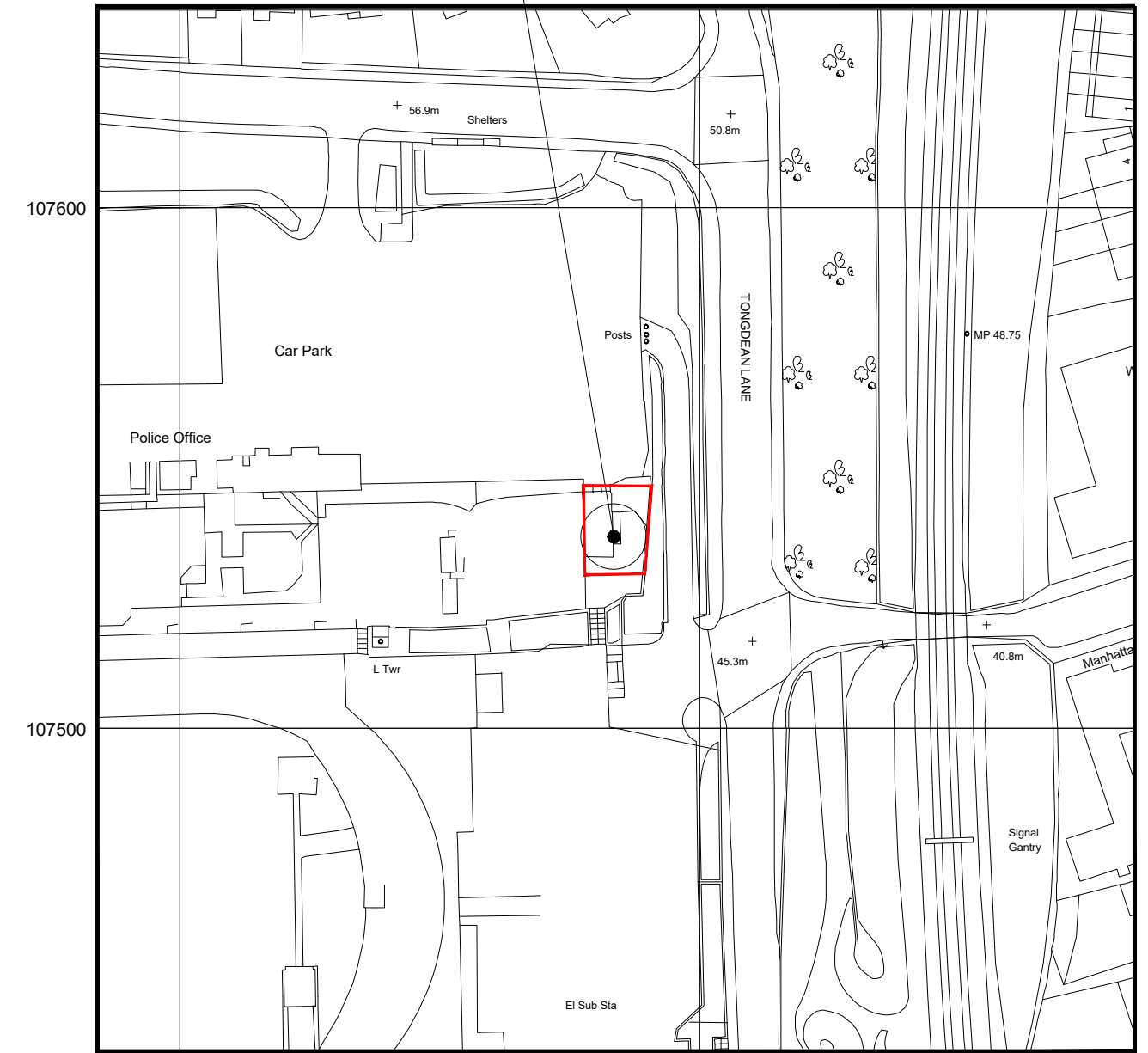
SITE LOCATION



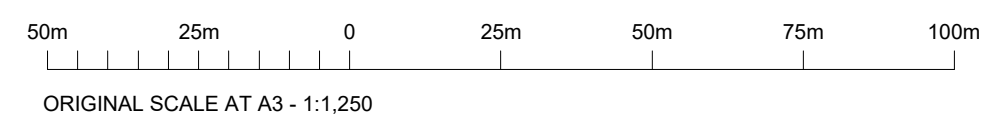
Site Location Plan  
(Scale 1:50,000)



SITE LOCATION



Site Demise Plan  
(Scale 1:1,250)



O.S. Ref. - E:529784 N:107539  
Based upon ordnance survey maps with the permission of the controller of Her Majesty's stationery office. © Crown Copyright.  
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REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK

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Drawing Title  
**SITE LOCATION PLANS**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

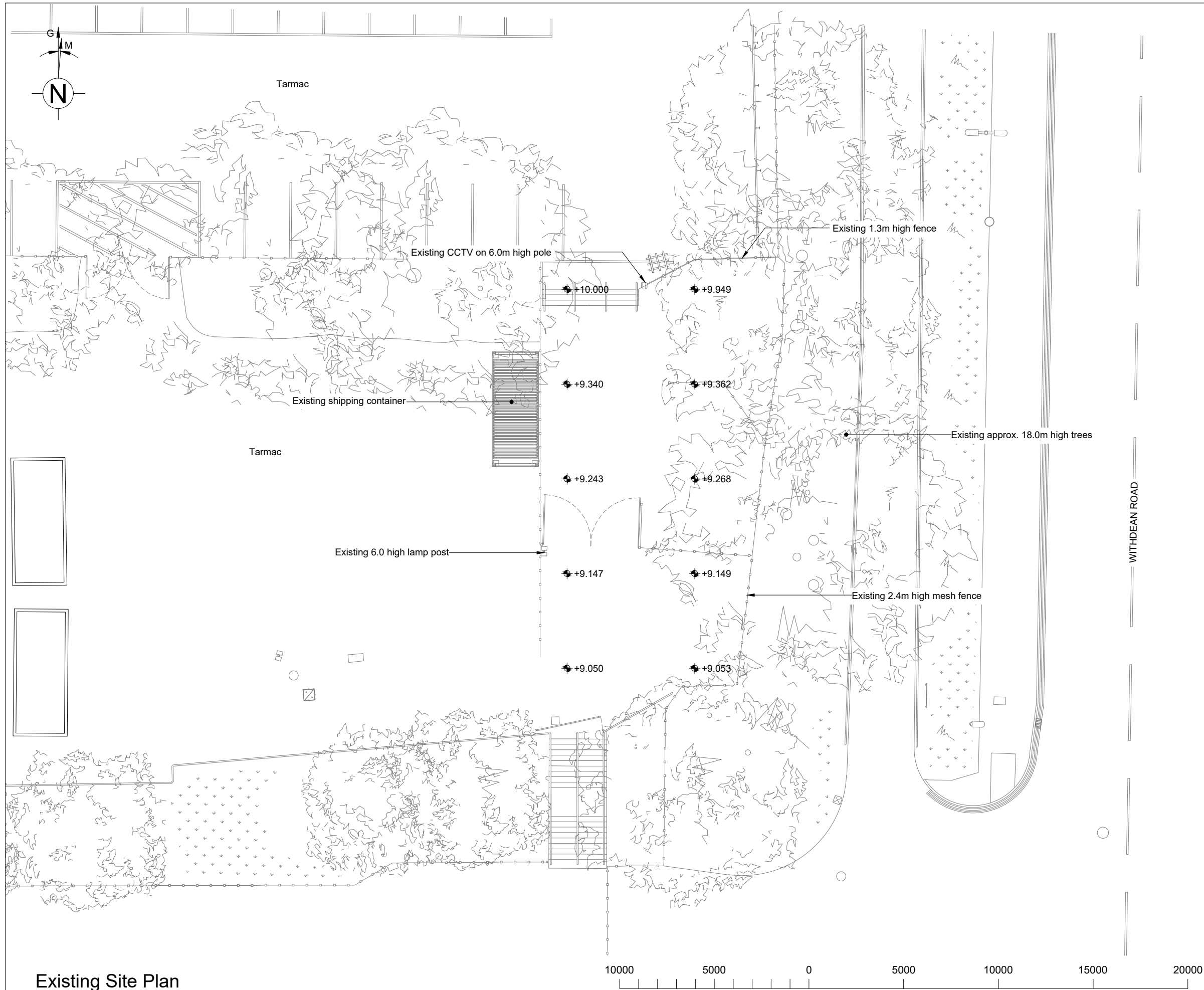
Drawn by SB	Checked by JR	Approved by JR
Date Drawn	Date Checked	Date Approved

Site Code  
**BRH2**

Drawing Number  
**P1808\_177-DD-001-A**

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.



**Existing Site Plan**  
(Scale 1:200)

10000 5000 0 5000 10000 15000 20000  
ORIGINAL SCALE AT A3 - 1:200 ALL DIMENSIONS IN MILLIMETRES

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REV	DESCRIPTION OF REVISION	DATE	BY



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Drawing Title  
**EXISTING SITE PLAN**

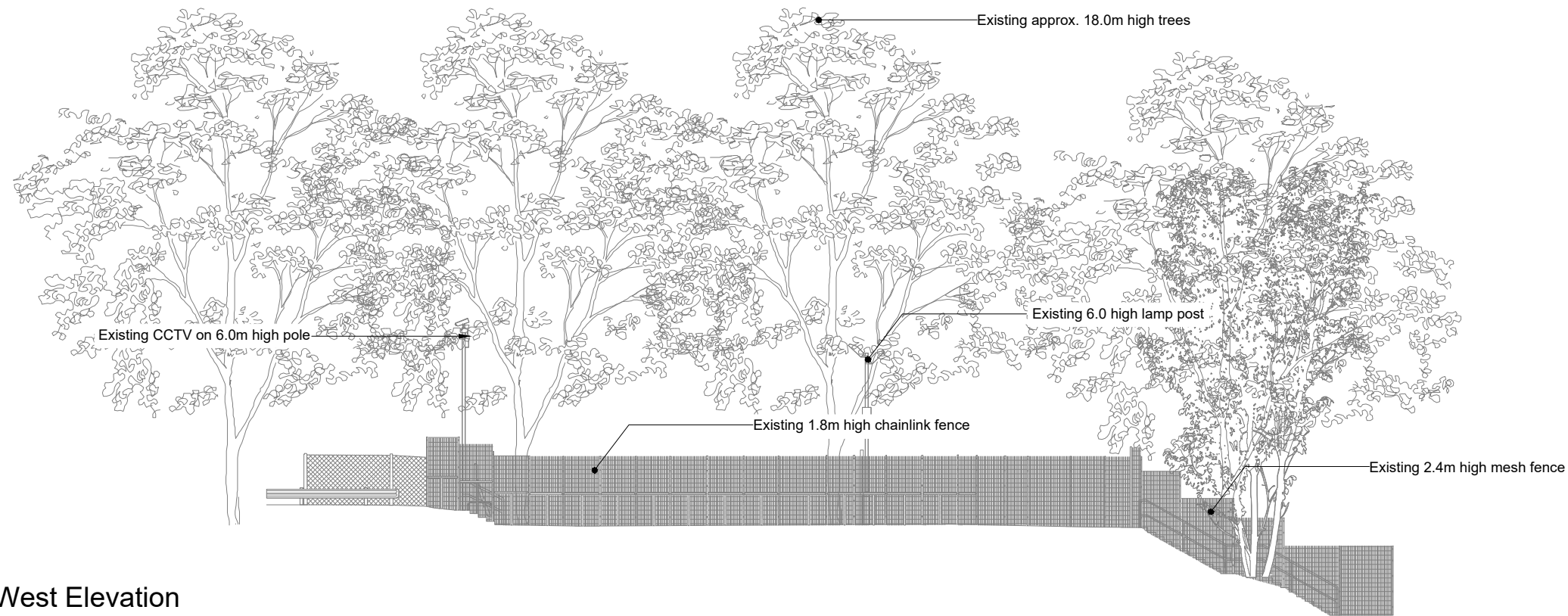
Site Location  
**WITHEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by SB	Checked by SB	Approved by JR
Date Drawn	Date Checked	Date Approved

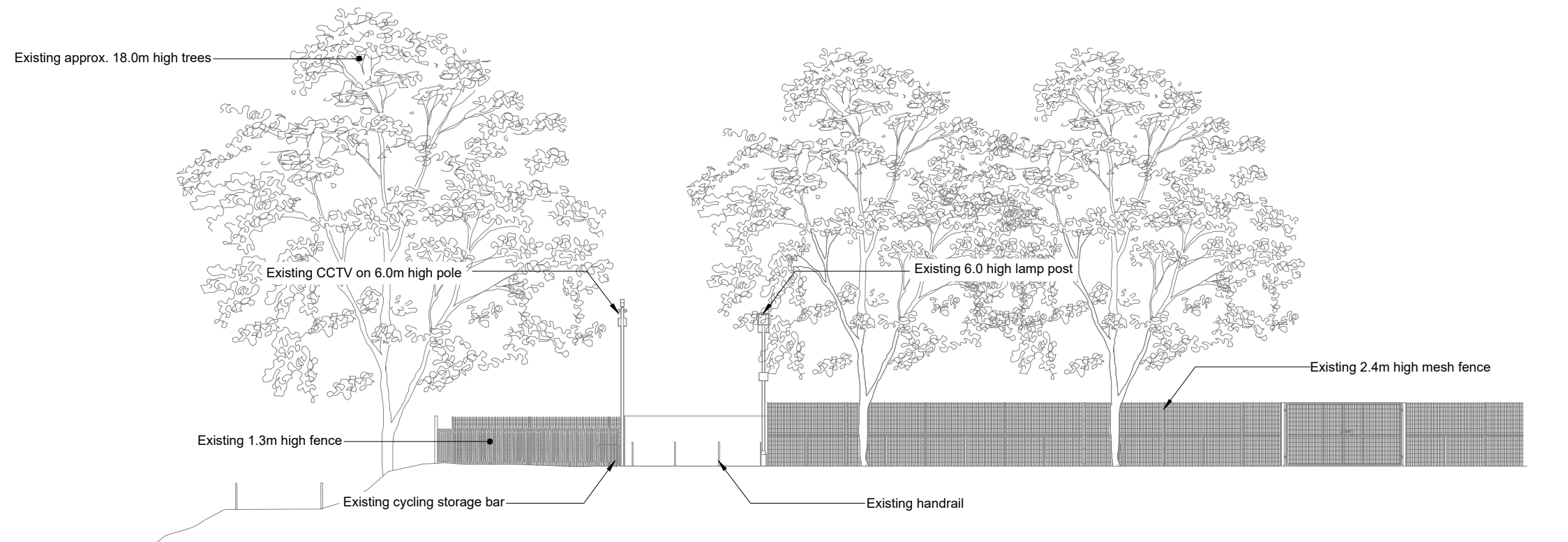
Site Code BRH2	Drawing Number P1808_177-DD-002-A
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NOTES

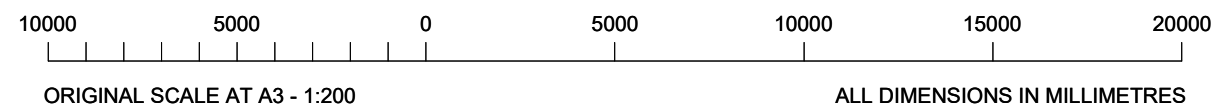
1. This drawing to be read in conjunction with drawing series 001-008.
2. All dimensions are in mm unless otherwise noted.



Existing West Elevation  
(Scale 1:200)



Existing North Elevation  
(Scale 1:200)



A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY



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Drawing Title  
**EXISTING SITE ELEVATION**

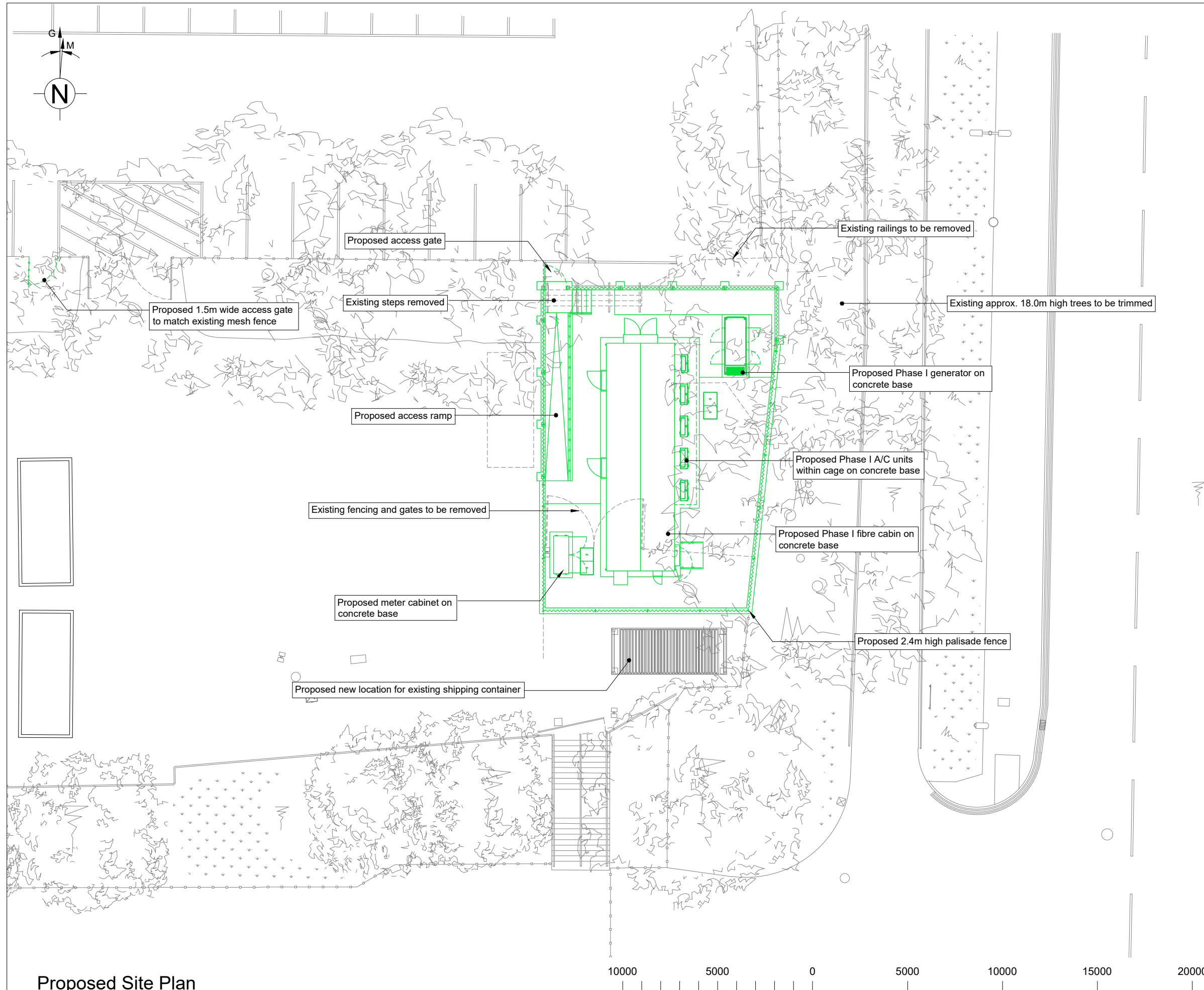
Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by SB	Checked by JR	Approved by JR
Date Drawn	Date Checked	Date Approved

Site Code BRH2	Drawing Number P1808_177-DD-003-A
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NOTES

1. This drawing to be read in conjunction with drawing series 001-008.
2. All dimensions are in mm unless otherwise noted.



**Proposed Site Plan**  
(Scale 1:200)

10000 5000 0 5000 10000 15000 20000  
ORIGINAL SCALE AT A3 - 1:200 ALL DIMENSIONS IN MILLIMETRES

REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK

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Drawing Title  
**PROPOSED SITE PLAN**

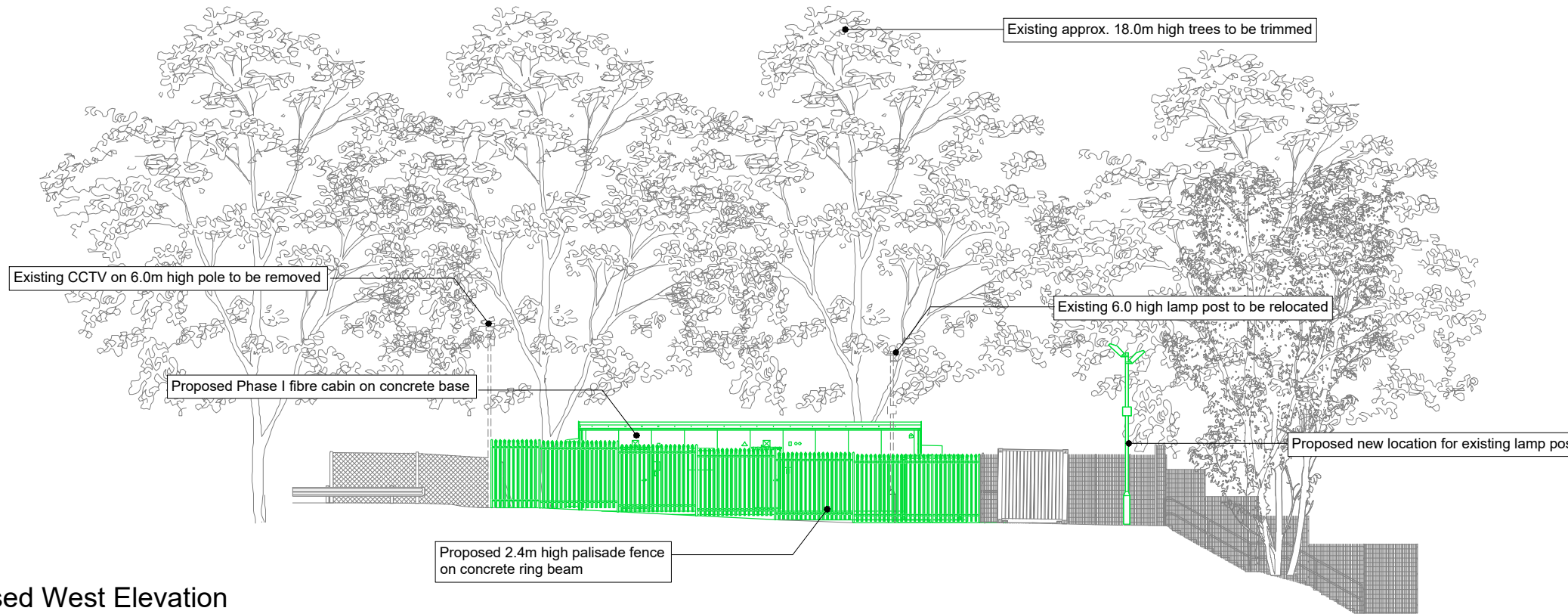
Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by SB	Checked by JR	Approved by JR
Date Drawn	Date Checked	Date Approved

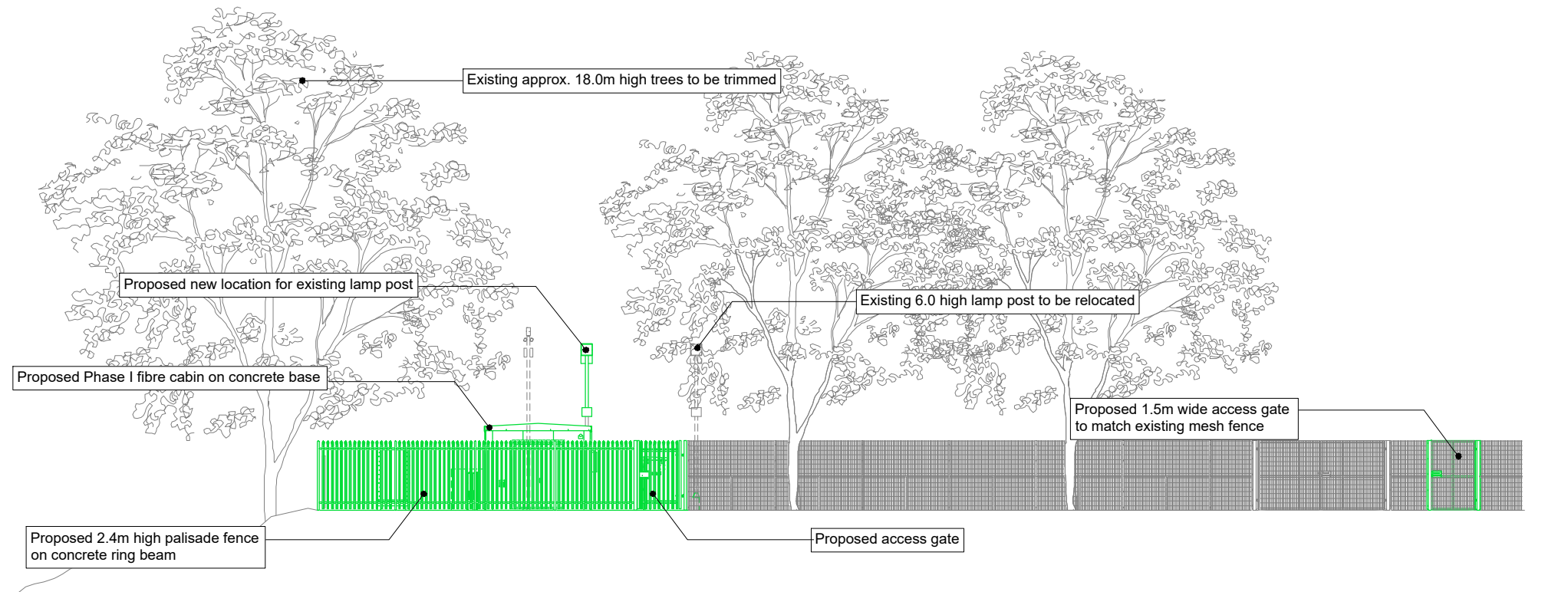
Site Code <b>BRH2</b>	Drawing Number <b>P1808_177-DD-004-A</b>
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NOTES

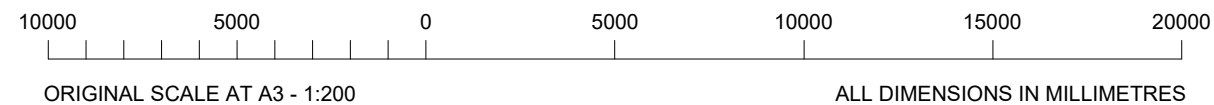
1. This drawing to be read in conjunction with drawing series 001-008.
2. All dimensions are in mm unless otherwise noted.



**Proposed West Elevation**  
(Scale 1:200)



**Proposed North Elevation**  
(Scale 1:200)



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REV	DESCRIPTION OF REVISION	DATE	BY



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Drawing Title  
**PROPOSED SITE ELEVATIONS**


Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by SB	Checked by JR	Approved by JR
Date Drawn	Date Checked	Date Approved

Site Code <b>BRH2</b>	Drawing Number <b>P1808_177-DD-005-A</b>
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NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. Site to be stripped of 150mm of top surface.
5. Site to be levelled with 75mm thick 20mmØ single size clean washed stone fill on weed control fabric on 75mm deep MOT type 1
6. Any existing underground services found during excavation that are not shown on this drawing are to be brought to the attention of the designer immediately.

 Potential for underground services. Trial digs required on site to determine exact location.

REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK



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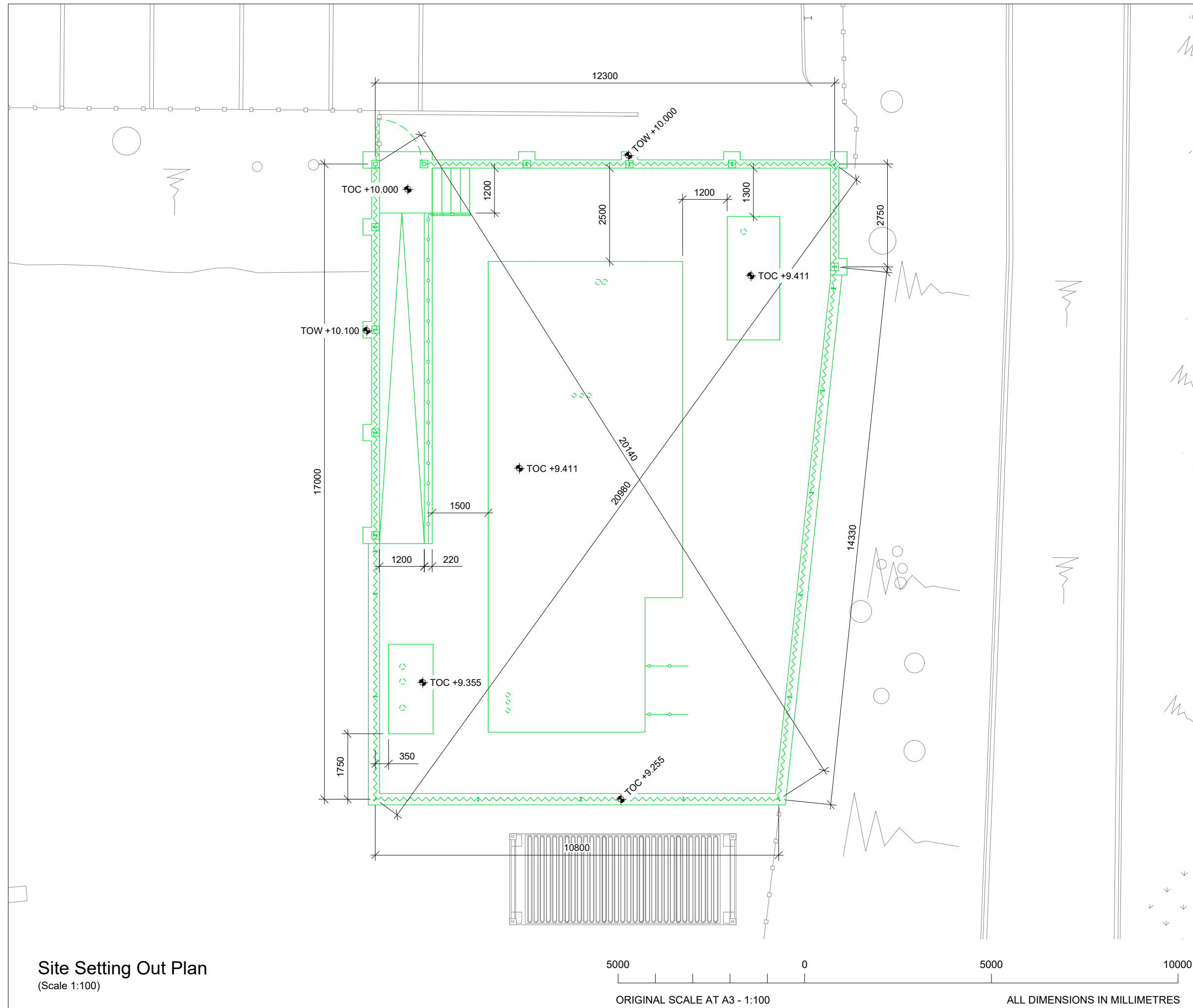
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title **SITE SETTING OUT PLAN**

Site Location **WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22




Site Code BRH2	Drawing Number P1808_177-DD-008-A
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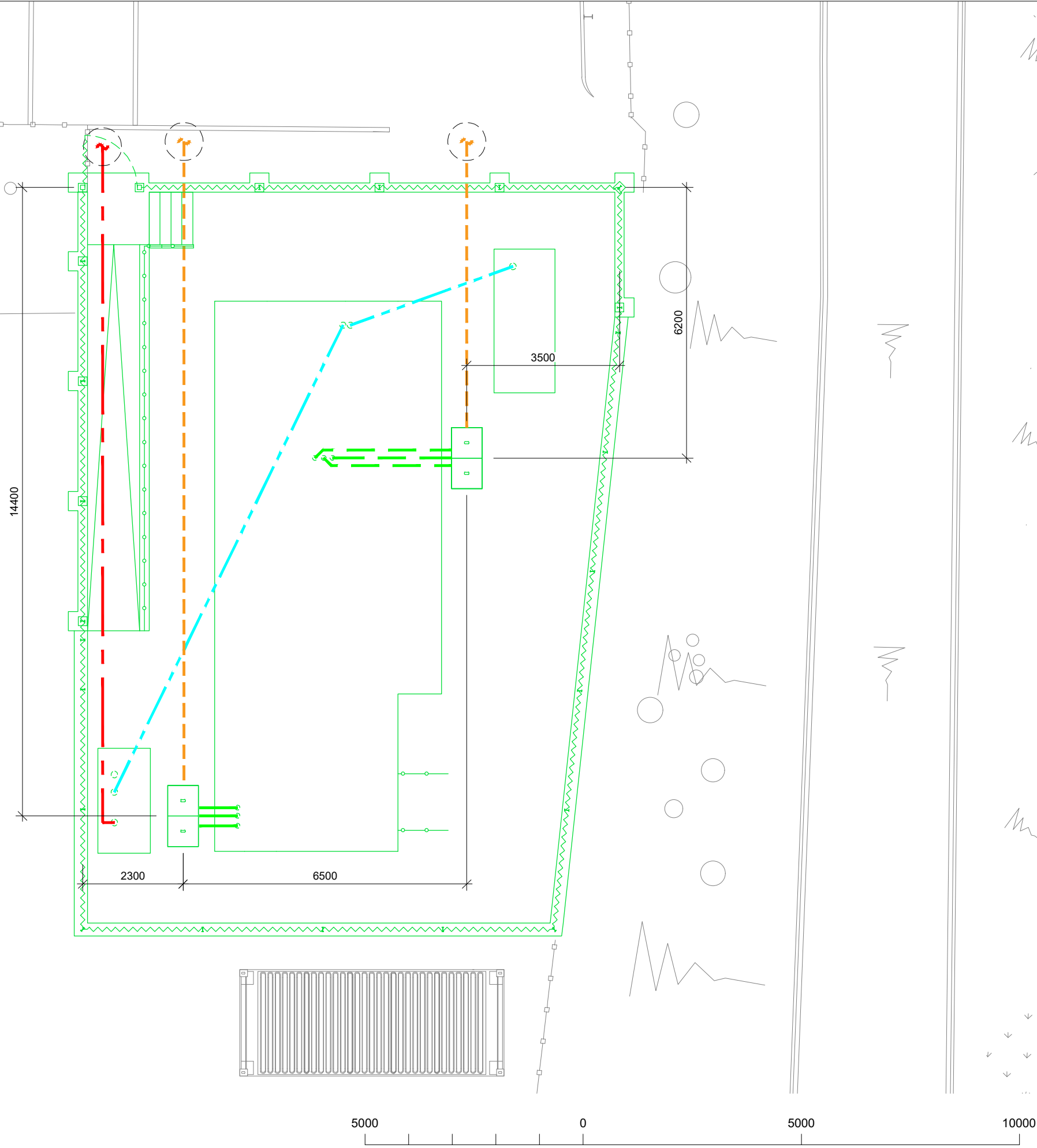


Site Setting Out Plan  
(Scale 1:100)

5000 0 5000 10000  
ORIGINAL SCALE AT A3 - 1:100 ALL DIMENSIONS IN MILLIMETRES


DUCT LAYOUT KEY:

-  FW6 Chamber (Cubis Fortress)
-  Incoming power duct to local DNO & ENATS 12-24 specification.
-  1 No. Ø54mm grey BT solid wall duct
-  1 No. Ø150mm black HDPE twin wall duct
-  4 No. Ø110mm purple CityFibre PVC solid wall ducts
-  1 No. Ø110mm purple CityFibre PVC solid wall duct



NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. Fire ducts to have 350mm min. cover.
5. Power ducts to have 1000mm radius bends.
6. Spare ducts to be capped below ground and be marked above ground with timber markers where required.
7. Fibre and power ducts to be fitted with draw cords and capped where installed for future use.
8. Fibre and power ducts are to extend approx. 50 -100mm above finished level and sprayed or marked with hazard tape to avoid trip hazard.
9. Power duct to be marked with wooden stake outside of compound to indicate installed location.
10. ADSL entry chamber location to be confirmed by CFH.

 Potential for underground services. Trial digs required on site to determine exact location.

A	DETAILED DESIGN ISSUE	15.08.22	CK
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Drawing Title  
**DUCT SETTING OUT PLAN**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code  
**BRH2**

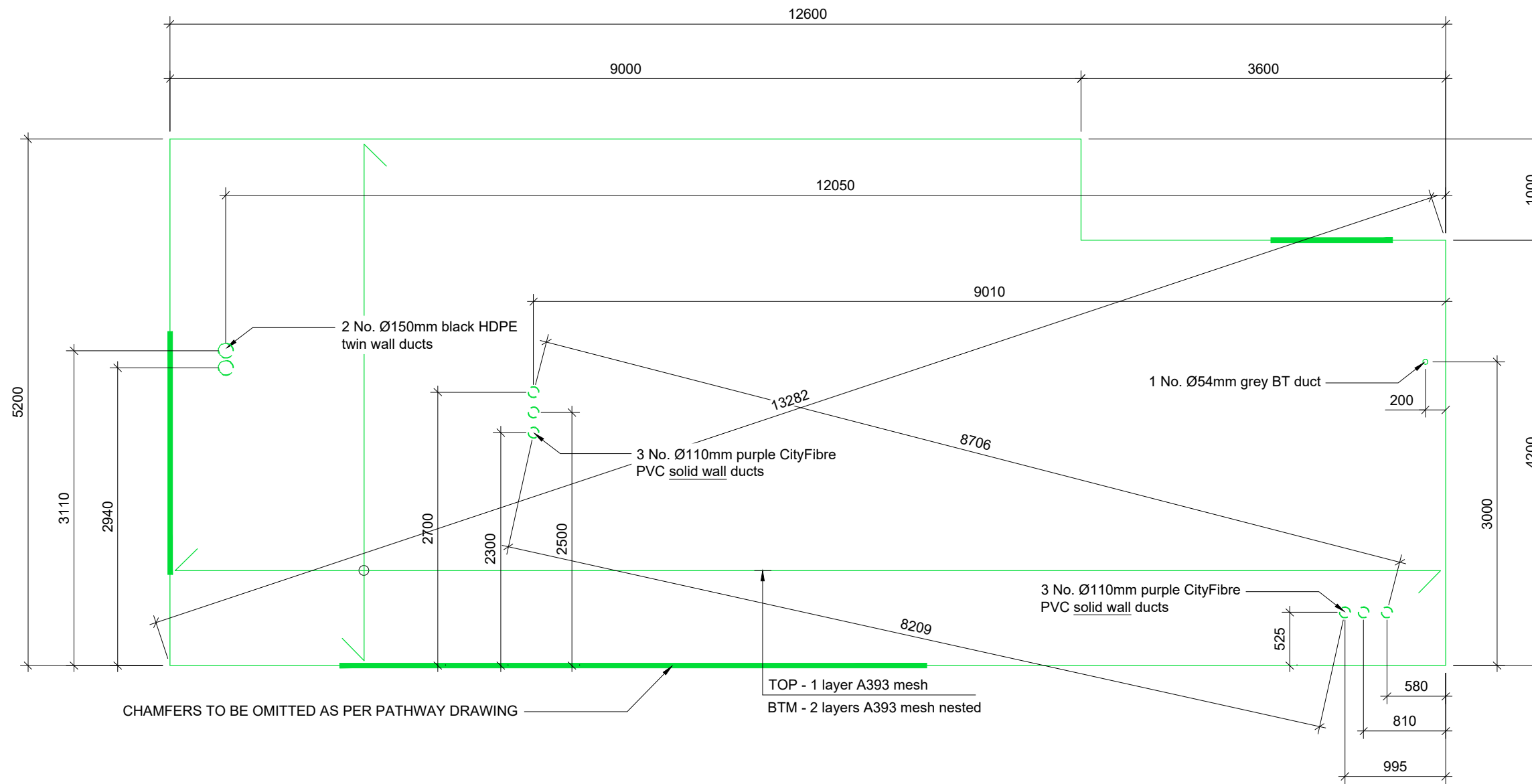
Drawing Number  
**P1808\_177-DD-009-A**

**Duct Setting Out Plan**  
(Scale 1:100)

ORIGINAL SCALE AT A3 - 1:100 ALL DIMENSIONS IN MILLIMETRES

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. Fibre ducts to have 350mm min. cover.
5. Power ducts to have 1000mm radius bends.
6. Fibre and power ducts to be fitted with draw cords and capped where installed for future use.
7. Fibre and power ducts are to extend 50-100mm above TOC and sprayed or marked with hazard tape to avoid trip hazard.
8. Either 25mm chamfer or bullnose finish is required to top edges. Finish must be consistent across all bases on site.
9. If base is poured adjacent path then chamfer on touching edges of bases is not required.
10. Foundation to be laid on a minimum of 300mm MOT Type 1 sub base compacted in layers of 150mm.



REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK

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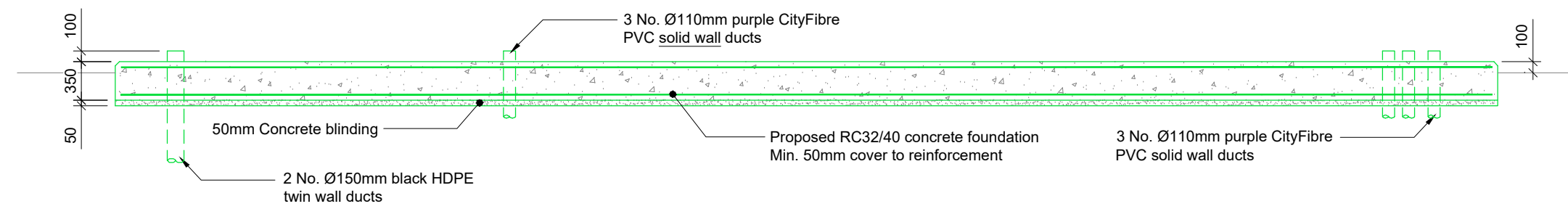
Drawing Title  
**PHASE I CABIN FOUNDATION**

Site Location  
**WITHDEAN SPORTS COMPLEX  
 TONGDEAN LANE  
 BRIGHTON  
 BN1 5JD**

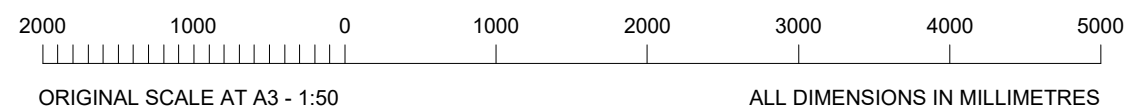
Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code  
**BRH2**

Drawing Number  
**P1808\_177-DD-010-A**

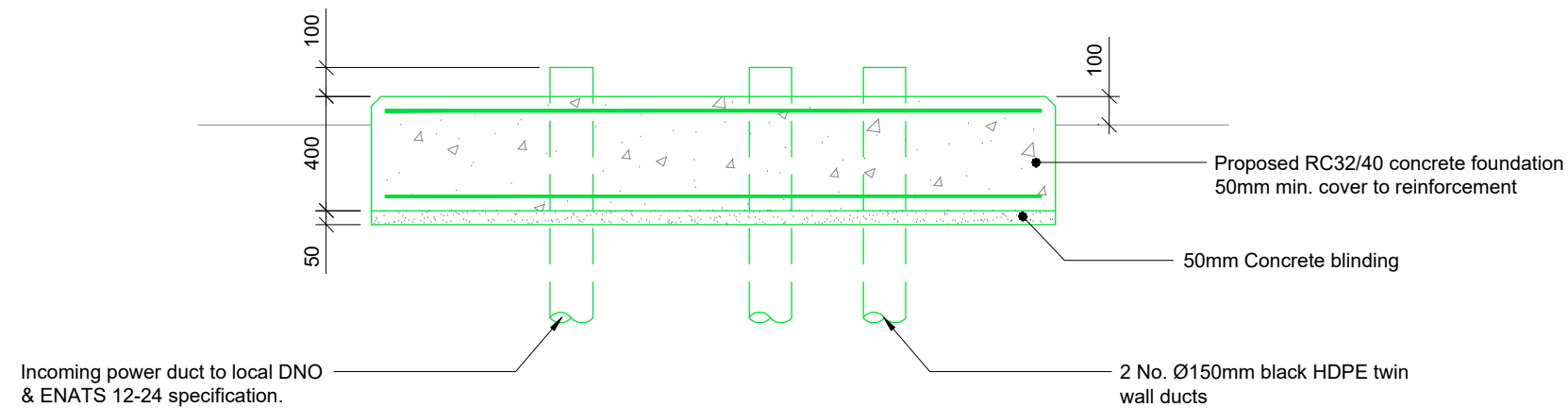
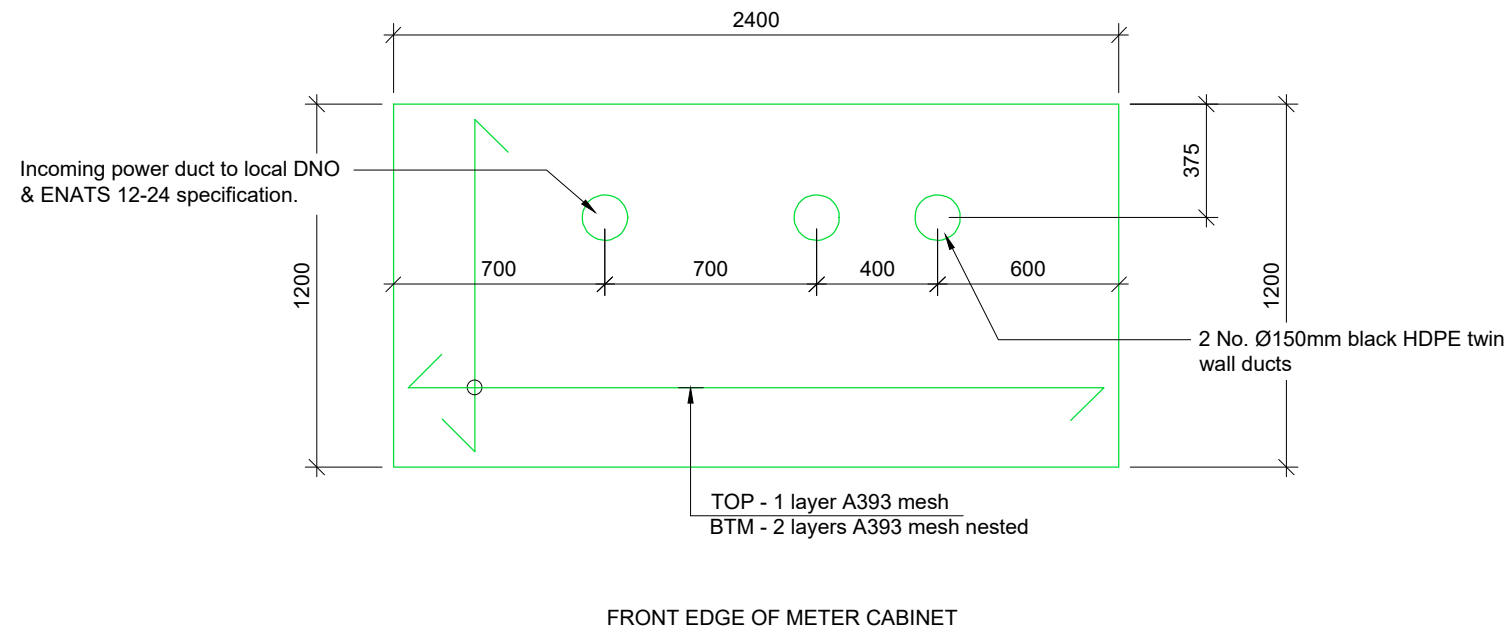


**Phase I Cabin Foundation**  
 (Scale 1:50)

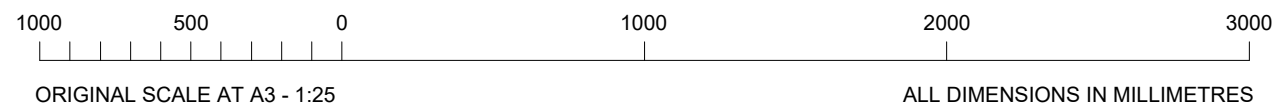


NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. Power ducts to have 1000mm radius bends.
5. Power ducts to be fitted with draw cords and capped where installed for future use.
6. Power ducts are to extend 50-100mm above TOC and sprayed or marked with hazard tape to avoid trip hazard.
7. Either 25mm chamfer or bullnose finish is required to top edges. Finish must be consistent across all bases on site.
8. If base is poured adjacent path then chamfer on touching edges of bases is not required.
9. Foundation to be laid on a minimum of 300mm MOT Type 1 sub base compacted in layers of 150mm.



Meter Cabinet Foundation Detail  
(Scale 1:25)



A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY

**Euro-Tel Design**

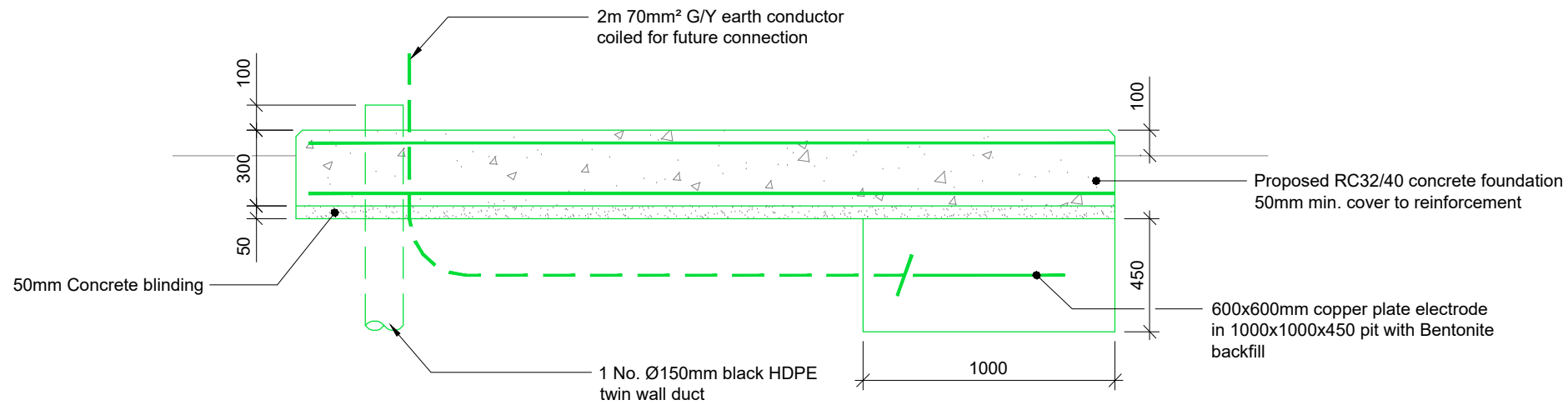
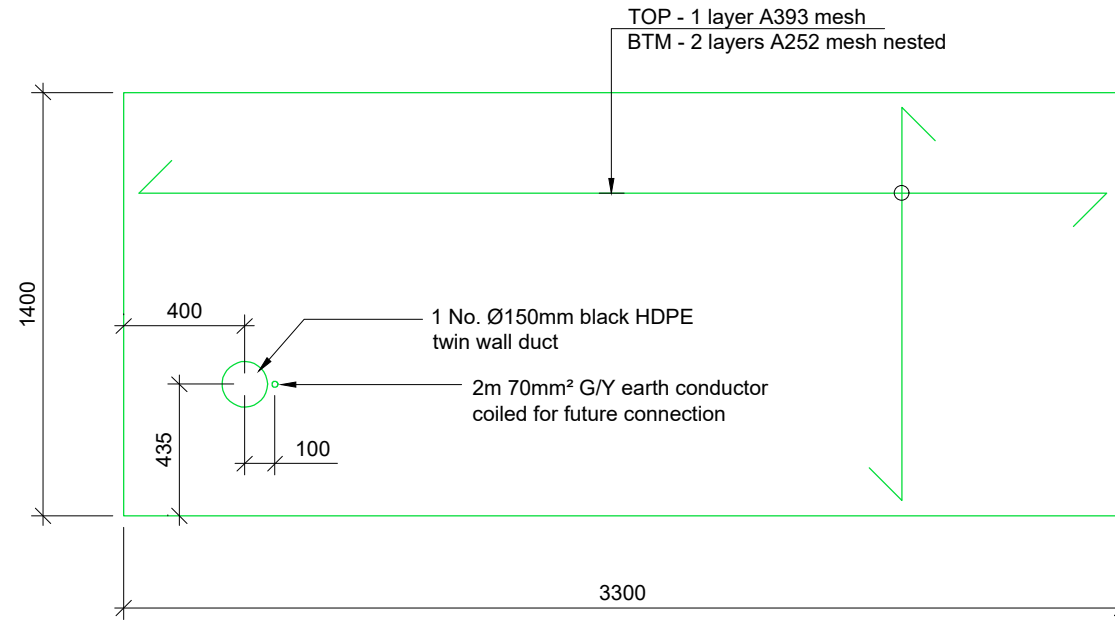
2 Charnwood House, Marsh Road, Bristol BS3 2NA  
tel :0117 966 5526 web: euro-tel-design.com

**CityFibre**

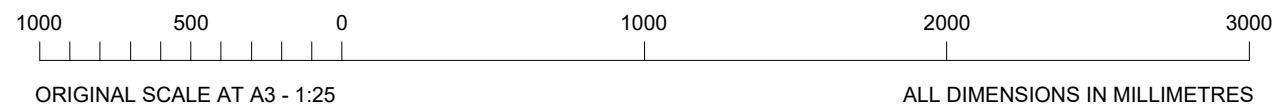
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title <b>METER CABINET FOUNDATION</b>		
Site Location <b>WITHDEAN SPORTS COMPLEX TONGDEAN LANE BRIGHTON BN1 5JD</b>		
Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22
Site Code BRH2	Drawing Number P1808_177-DD-011-A	

- NOTES
1. This drawing to be read in conjunction with drawing series 001-020.
  2. All dimensions are in mm unless otherwise noted.
  3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
  4. Power ducts to have 1000mm radius bends.
  5. Power ducts to be fitted with draw cords and capped where installed for future use.
  6. Power ducts are to extend 50-100mm above TOC and sprayed or marked with hazard tape to avoid trip hazard.
  7. Either 25mm chamfer or bullnose finish is required to top edges. Finish must be consistent across all bases on site.
  8. If base is poured adjacent path then chamfer on touching edges of bases is not required.
  9. Foundation to be laid on a minimum of 300mm MOT Type 1 sub base compacted in layers of 150mm.



Generator Foundation Detail  
(Scale 1:25)



REV	DESCRIPTION OF REVISION	DATE	BY
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Drawing Title <b>GENERATOR FOUNDATION</b>		
Site Location <b>WITHDEAN SPORTS COMPLEX TONGDEAN LANE BRIGHTON BN1 5JD</b>		
Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22
Site Code BRH2	Drawing Number P1808_177-DD-012-A	

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All tape connections to be left with 1000mm coiled for connection to required equipment.
5. Tape to be buried 300mm minimum
6. Proposed type 1 + 2 combined surge protective device (SPD) to be fitted within meter cabinet (or within Phase I cabin) adjacent main earth terminal.

**KEY:**

-  25x3mm bare copper ring tape system.
-  25x3mm PVC covered copper ring tape system.
-  Proposed 1m earth rod c/w concrete inspection pit with cover.
-  Copper braid earth straps

A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY



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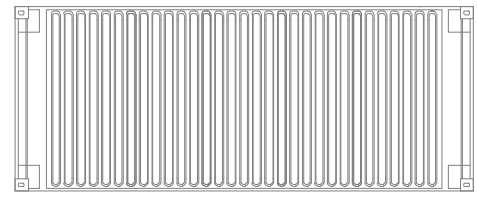
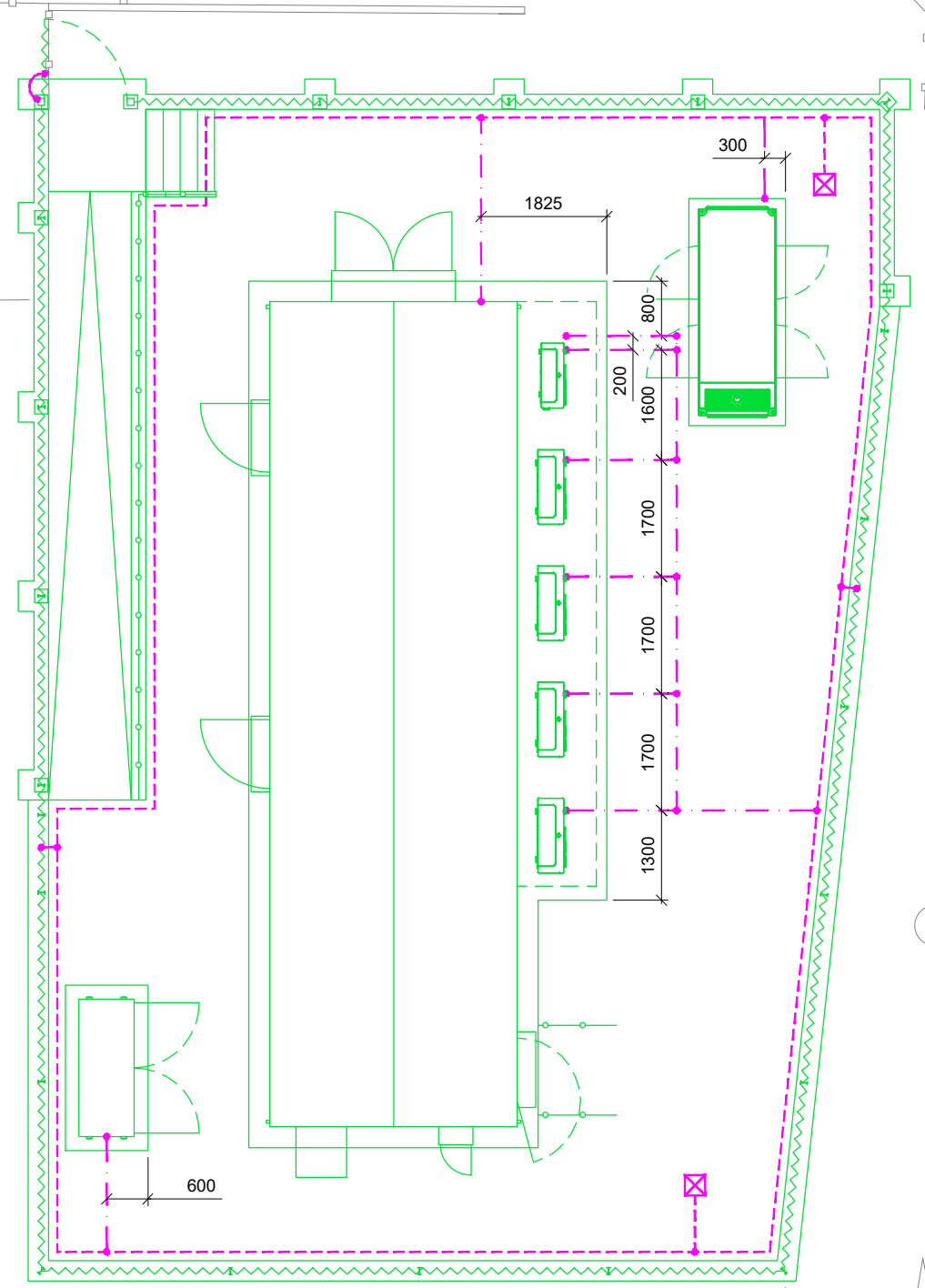
Drawing Title  
**LIGHTNING PROTECTION PLAN**

Site Location  
**WITHDEAN SPORTS COMPLEX  
 TONGDEAN LANE  
 BRIGHTON  
 BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code  
**BRH2**

Drawing Number  
**P1808\_177-DD-013-A**

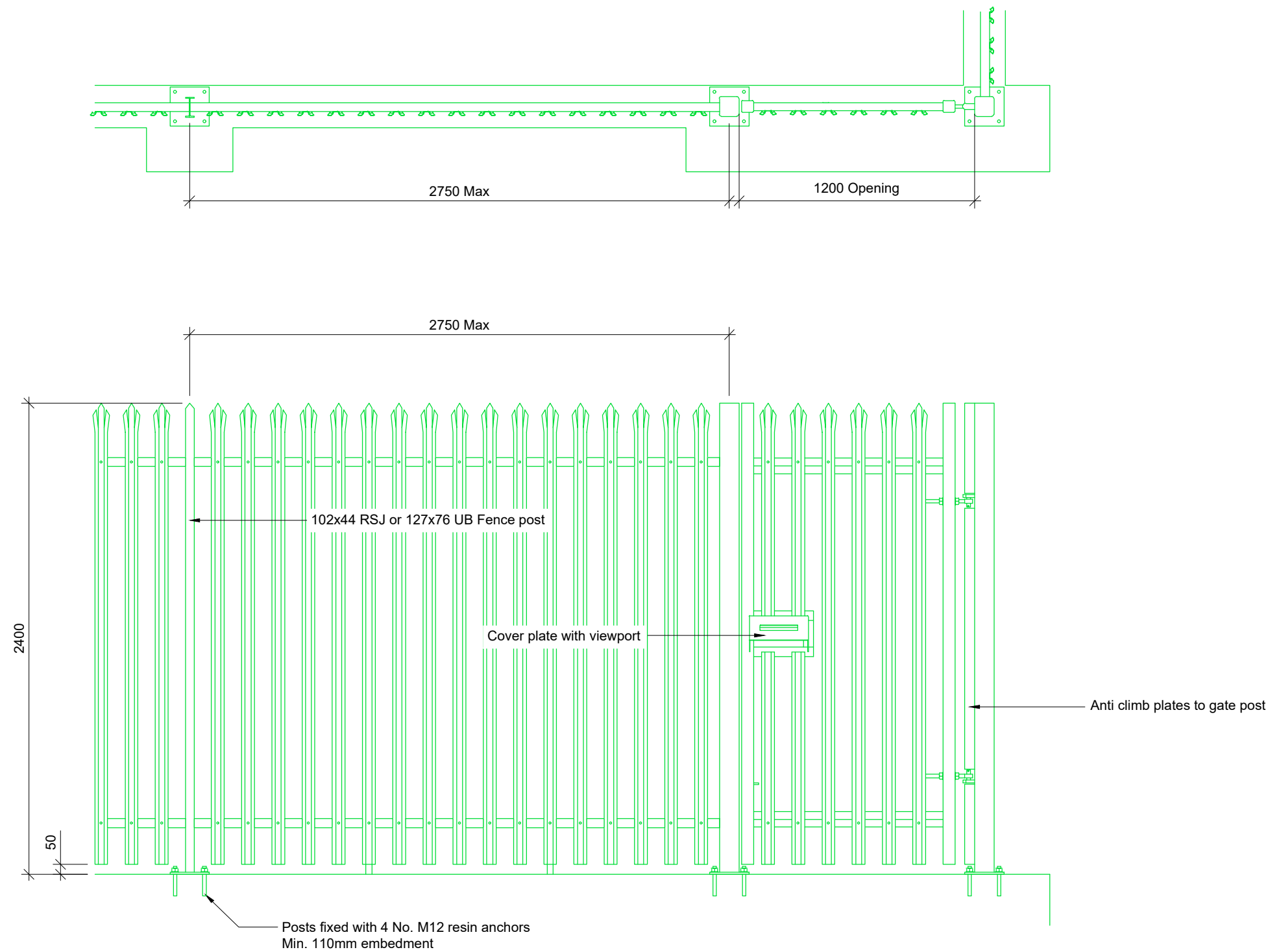


5000 0 5000 10000  
 ORIGINAL SCALE AT A3 - 1:100 ALL DIMENSIONS IN MILLIMETRES

**Lightning Protection Plan**  
 (Scale 1:100)

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. 2.4m Palisade fence installed to BS 1722-12:2016 type GP24 with security nuts to prevent unauthorised dismantling.
5. Fence to be pale type 'w' section, 3.0mm thick triple pointed and splayed head.
6. All steel components, including fixings, shall be hot dipped galvanised to BS EN ISO 1461:2009.
7. Gates to be checked after installation to ensure they cannot be opened when locked.



A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY


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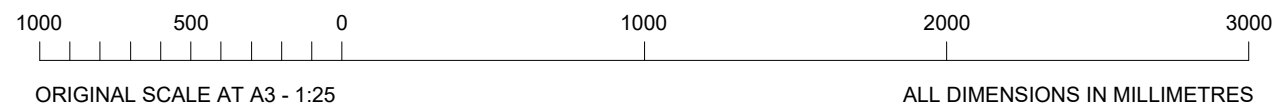
Drawing Title  
**BOLT-DOWN FENCE & GATE DETAIL**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code <b>BRH2</b>	Drawing Number <b>P1808_177-DD-014-A</b>
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**Bolt-down fence & gate detail**  
(Scale 1:25)



NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Movement joints, not less than 10mm wide, should be provided across the full width of the path at not more than 4m centers.
4. Movement joints to be non-dowelled joints, formed from compressible filler board, with sealant to top and exposed sides.

**KEY:**

 10mm thick movement joint.

REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK



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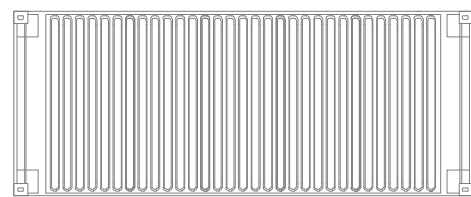
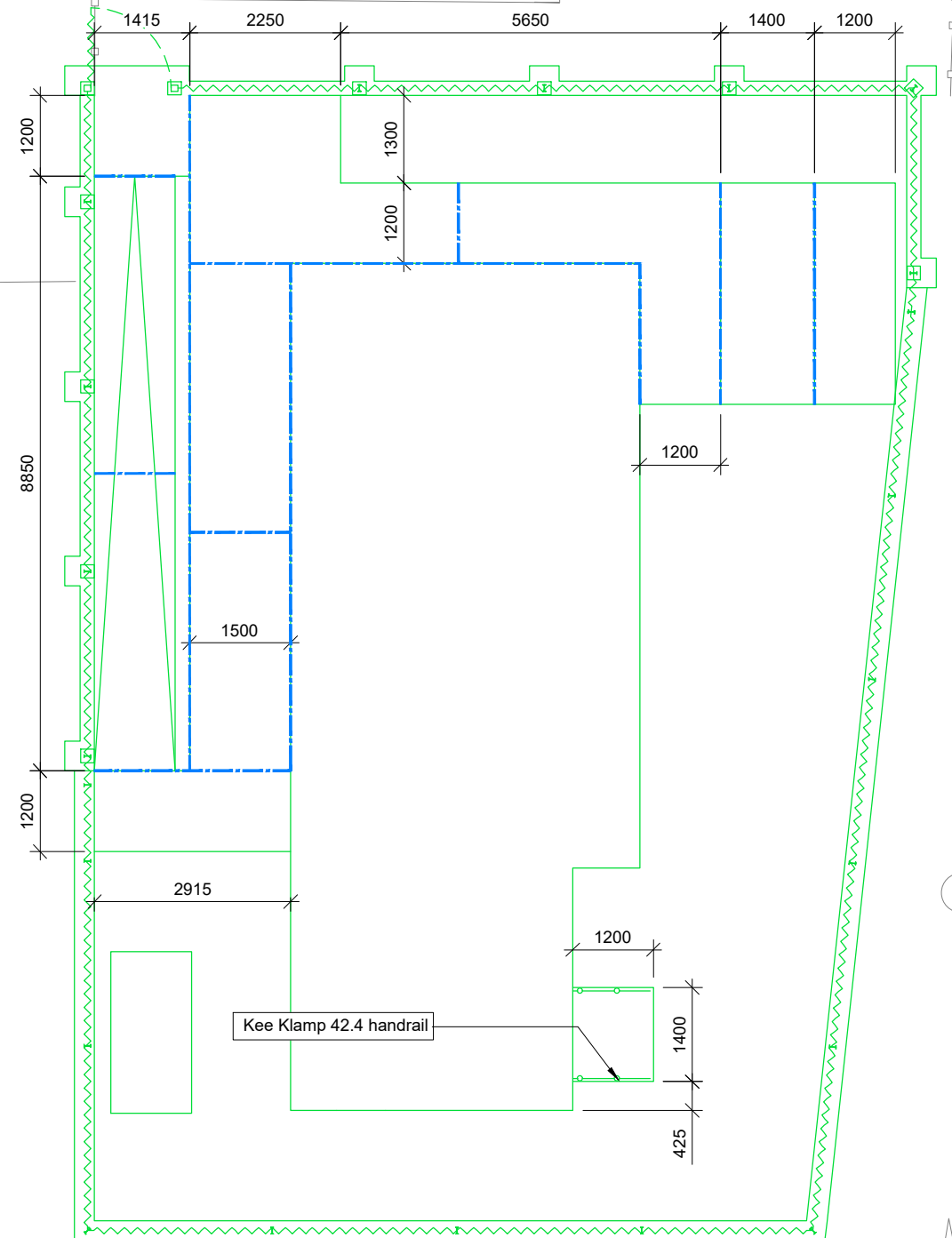
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title  
**PATHWAY SETTING OUT PLAN**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code BRH2	Drawing Number P1808_177-DD-015-A
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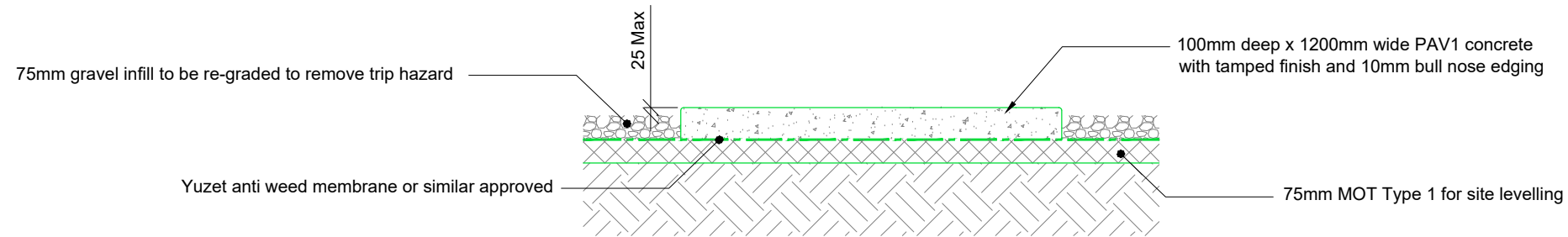
ORIGINAL SCALE AT A3 - 1:100

ALL DIMENSIONS IN MILLIMETRES

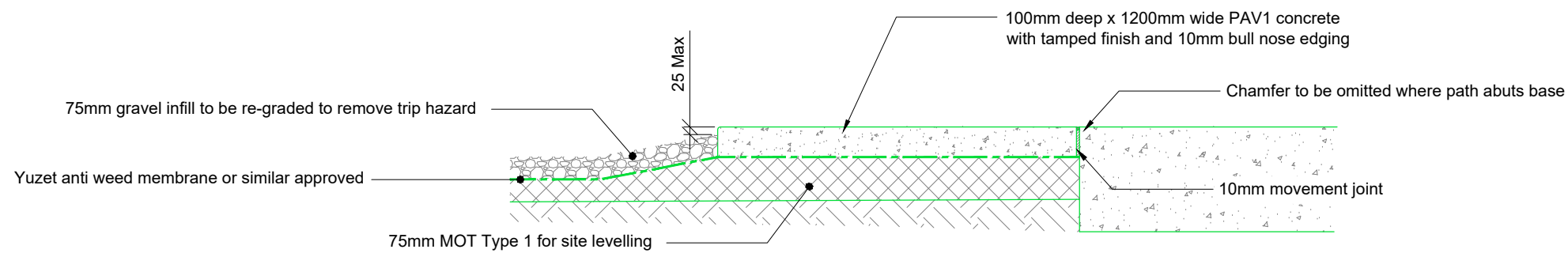
**Pathway Setting Out Plan**  
(Scale 1:100)

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Movement joints, not less than 10mm wide, should be provided across the full width of the path at not more than 4m centers.
4. Movement joints to be non-dowelled joints, formed from compressible filler board, with sealant to top and exposed sides.

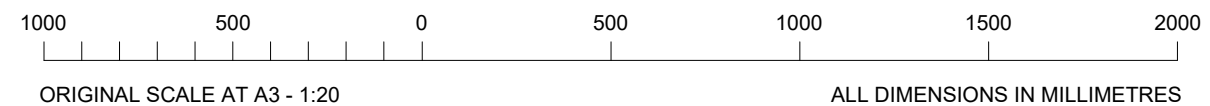


**Path Detail - General**  
(Scale 1:20)



**Path Detail - Adjacent Foundation**  
(Scale 1:20)

**Path Details**  
(Scale 1:20)



A	ISSUED FOR DETAILED DESIGN	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY

**Euro-Tel Design**  
2 Charnwood House, Marsh Road, Bristol BS3 2NA  
tel :0117 966 5526 web: euro-tel-design.com

**CityFibre**  
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title: **PATH DETAIL**

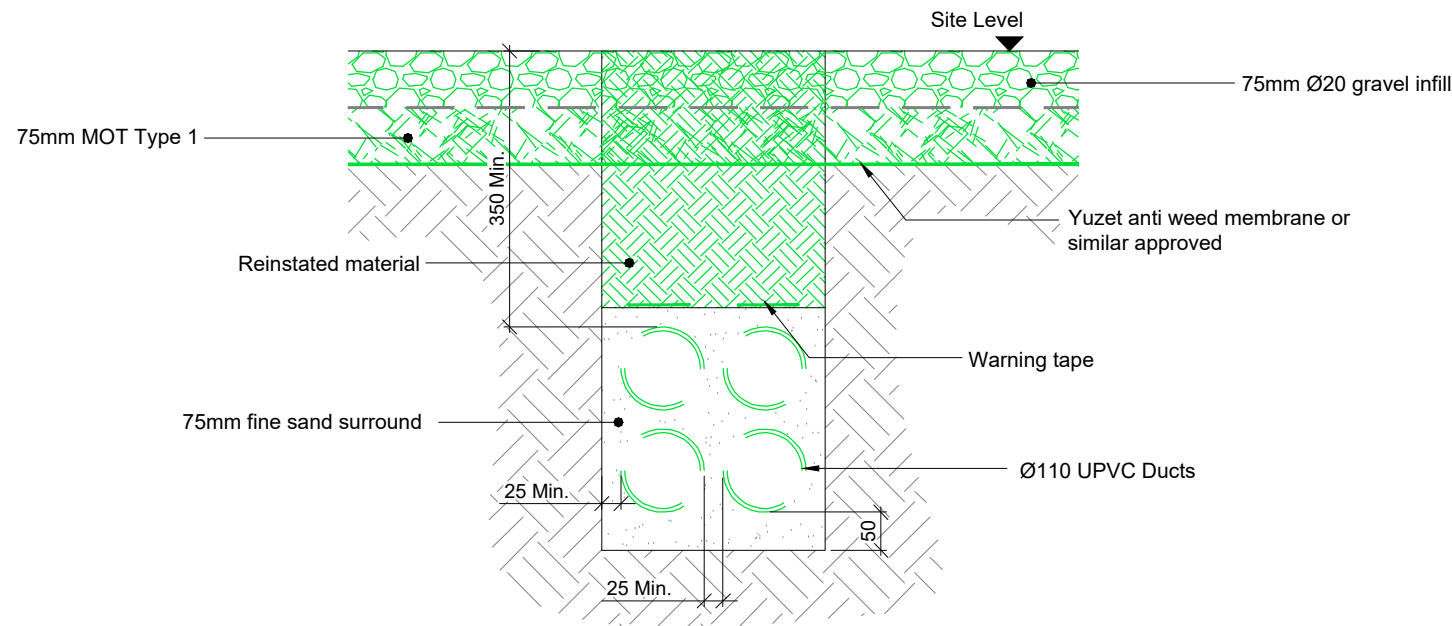
Site Location: **WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

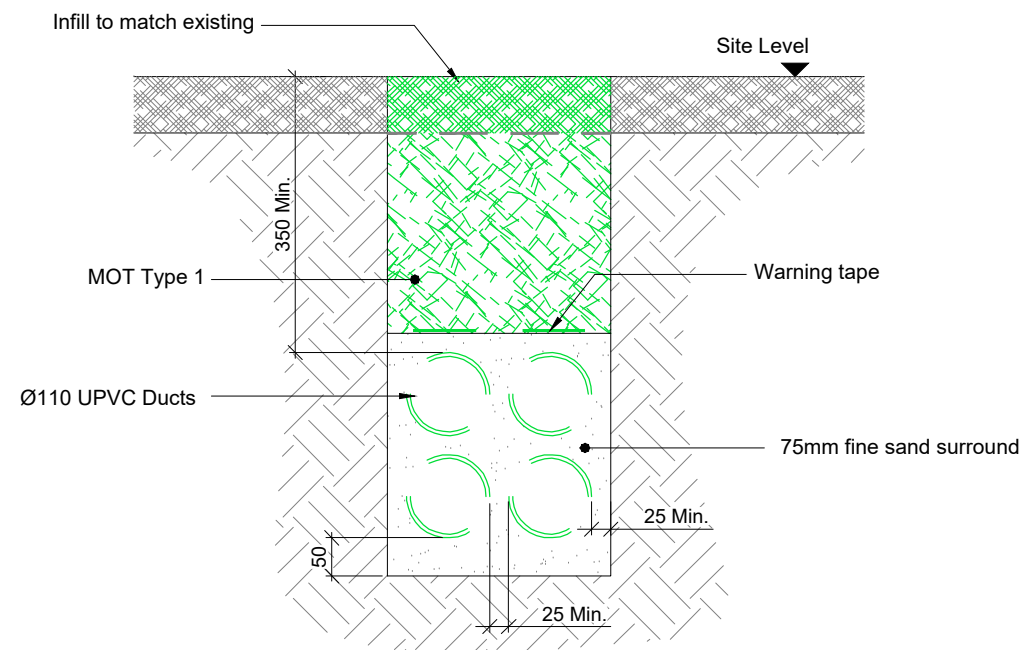
Site Code: **BRH2**      Drawing Number: **P1808\_177-DD-016-A**

NOTES

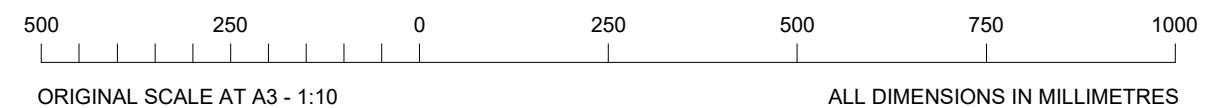
1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All materials and workmanship to be in accordance with specification.
5. Standard backfill requirements shall be type 1 in all circumstances unless further support is required then concrete backfill is recommended
6. Where applicable Reinstatement to comply with the requirements of the NRSWA (subject to category).



Trench Detail - Within Compound  
(Scale 1:10)



Trench Detail - Outside Compound  
(Scale 1:10)



Duct Trench Details  
(Scale 1:10)

A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY



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tel :0117 966 5526 web: euro-tel-design.com



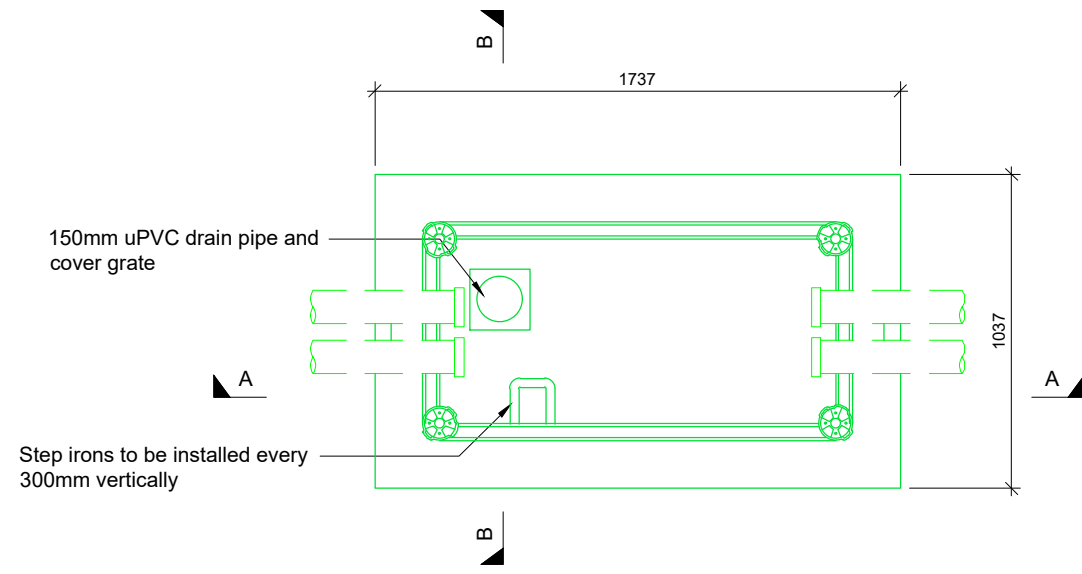
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title <b>DUCT TRENCH DETAILS</b>		
Site Location <b>WITHDEAN SPORTS COMPLEX TONGDEAN LANE BRIGHTON BN1 5JD</b>		

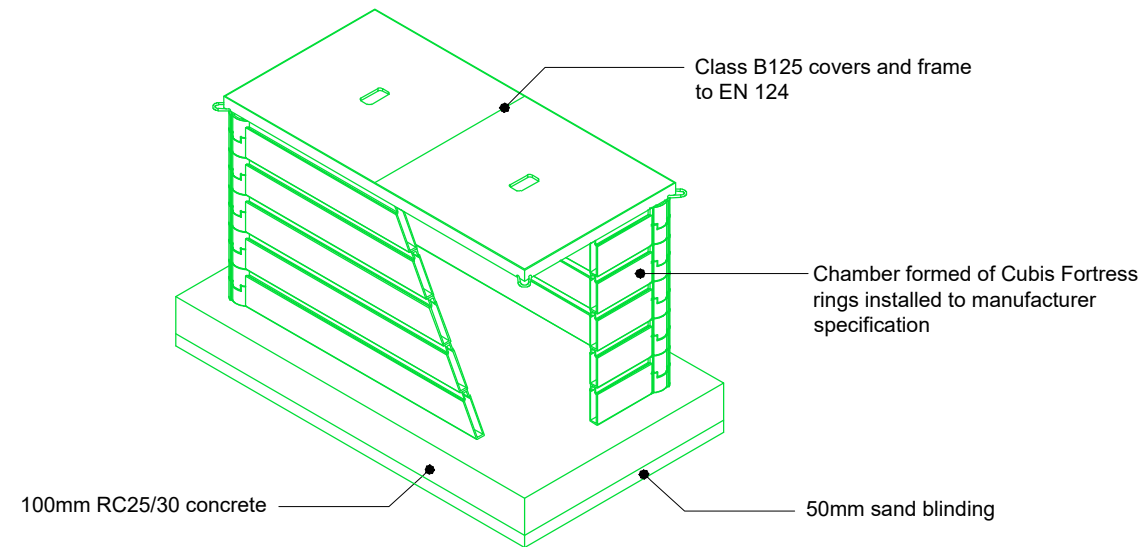
Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22
Site Code BRH2	Drawing Number P1808_177-DD-017-A	

NOTES

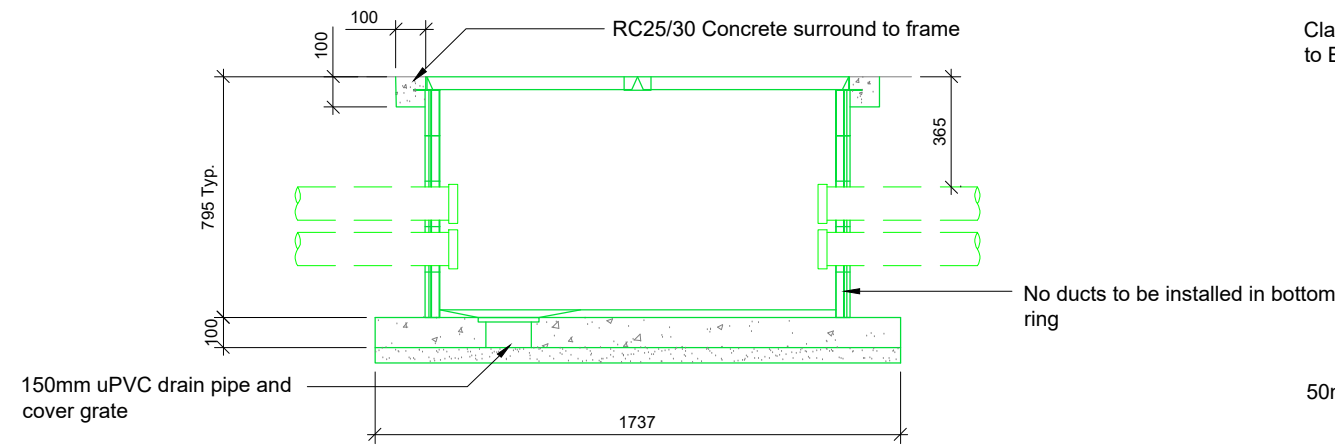
1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All materials and workmanship to be in accordance with specification and PEA\_FG\_009\_v1.0
5. Chamber to be centrally braced during backfilling and compaction
6. Standard backfill requirements shall be MOT Type 1 in all circumstances unless further support is required then concrete backfill is recommended
7. All duct ends to be finished 50mm from edge of interior wall with plastic end caps fitted



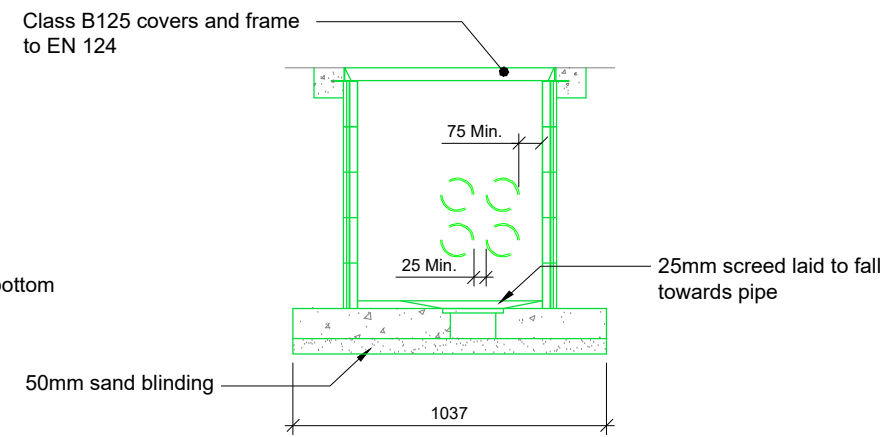
FW6 Chamber Plan



Isometric View

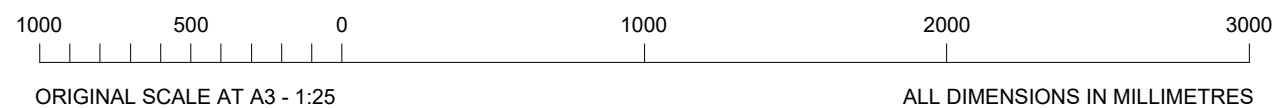


Section A-A



Section B-B

Chamber Details  
(Scale 1:25)



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Drawing Title  
**FW6 CHAMBER DETAILS**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

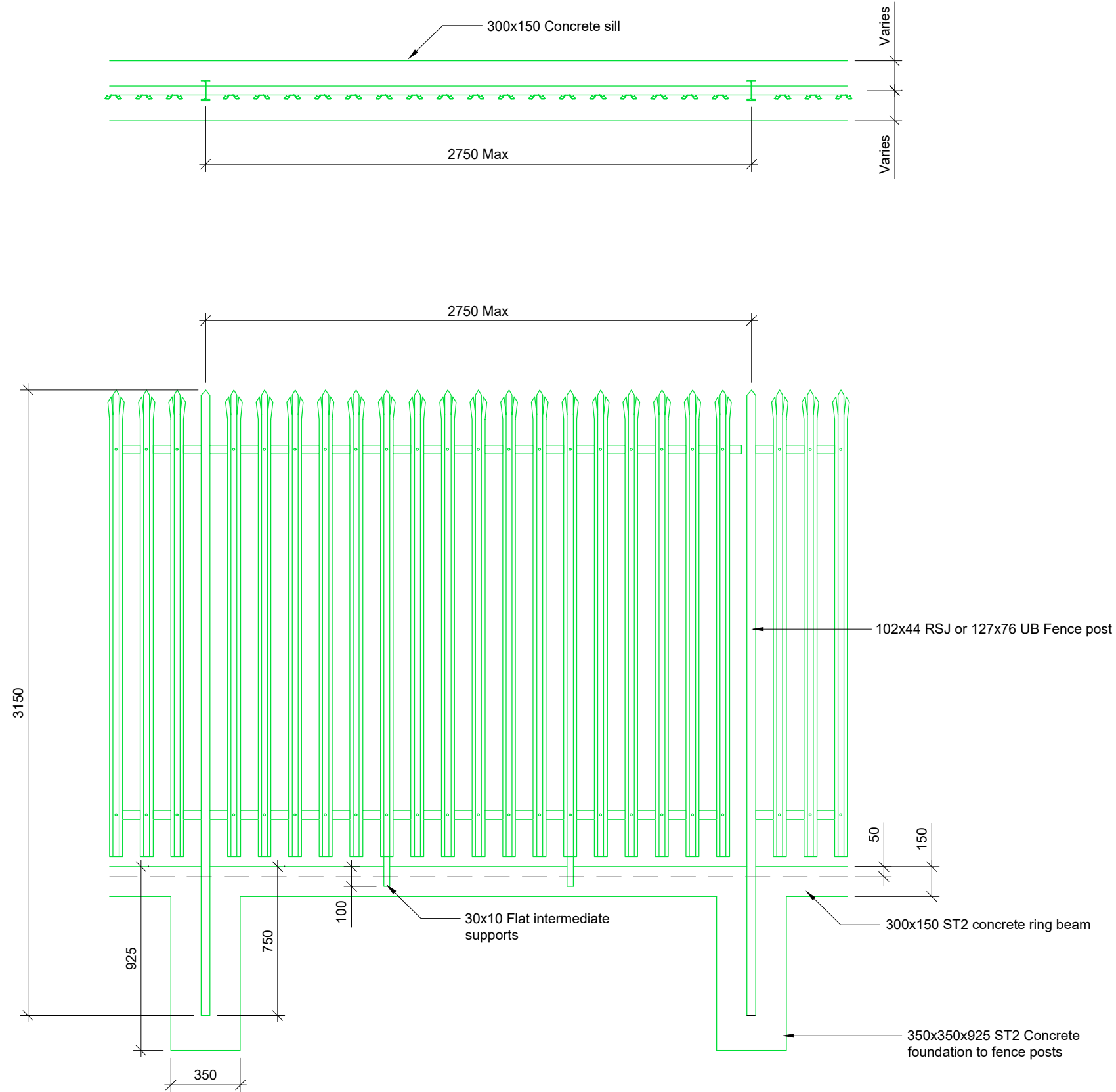
Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code  
**BRH2**

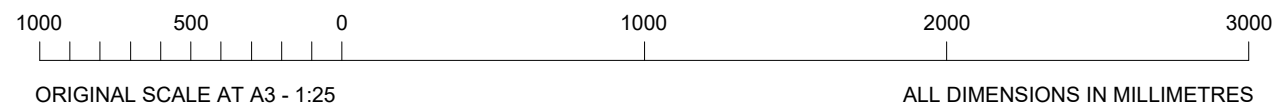
Drawing Number  
**P1808\_177-DD-018-A**

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. 2.4m Palisade fence installed to BS 1722-12:2016 type GP24 with security nuts to prevent unauthorised dismantling.
5. Fence to be pale type 'w' section, 3.0mm thick triple pointed and splayed head.
6. All steel components, including fixings, shall be hot dipped galvanised to BS EN ISO 1461:2009.
7. Concrete ring beam to be to be brush finished with bull nose edge
8. Construction joints to be installed in ring beam to ease construction sequence. Form joints with bulkhead and 2no. 300mm H10 dowels
9. Gates to be checked after installation to ensure they cannot be opened when locked.



Cast-in fence detail  
(Scale 1:25)



REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK



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Drawing Title  
**CAST-IN FENCE DETAIL**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code BRH2	Drawing Number P1808_177-DD-019-A
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NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. 2.4m Palisade fence installed to BS 1722-12:2016 type GP24 with security nuts to prevent unauthorised dismantling.
5. Fence to be pale type 'w' section, 3.0mm thick triple pointed and splayed head.
6. All steel components, including fixings, shall be hot dipped galvanised to BS EN ISO 1461:2009.
7. Concrete ring beam to be to be brush finished with bull nose edge
8. Construction joints to be installed in ring beam to ease construction sequence. Form joints with bulkhead and 2no. 300mm H10 dowels
9. Gates to be checked after installation to ensure they cannot be opened when locked.

A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY



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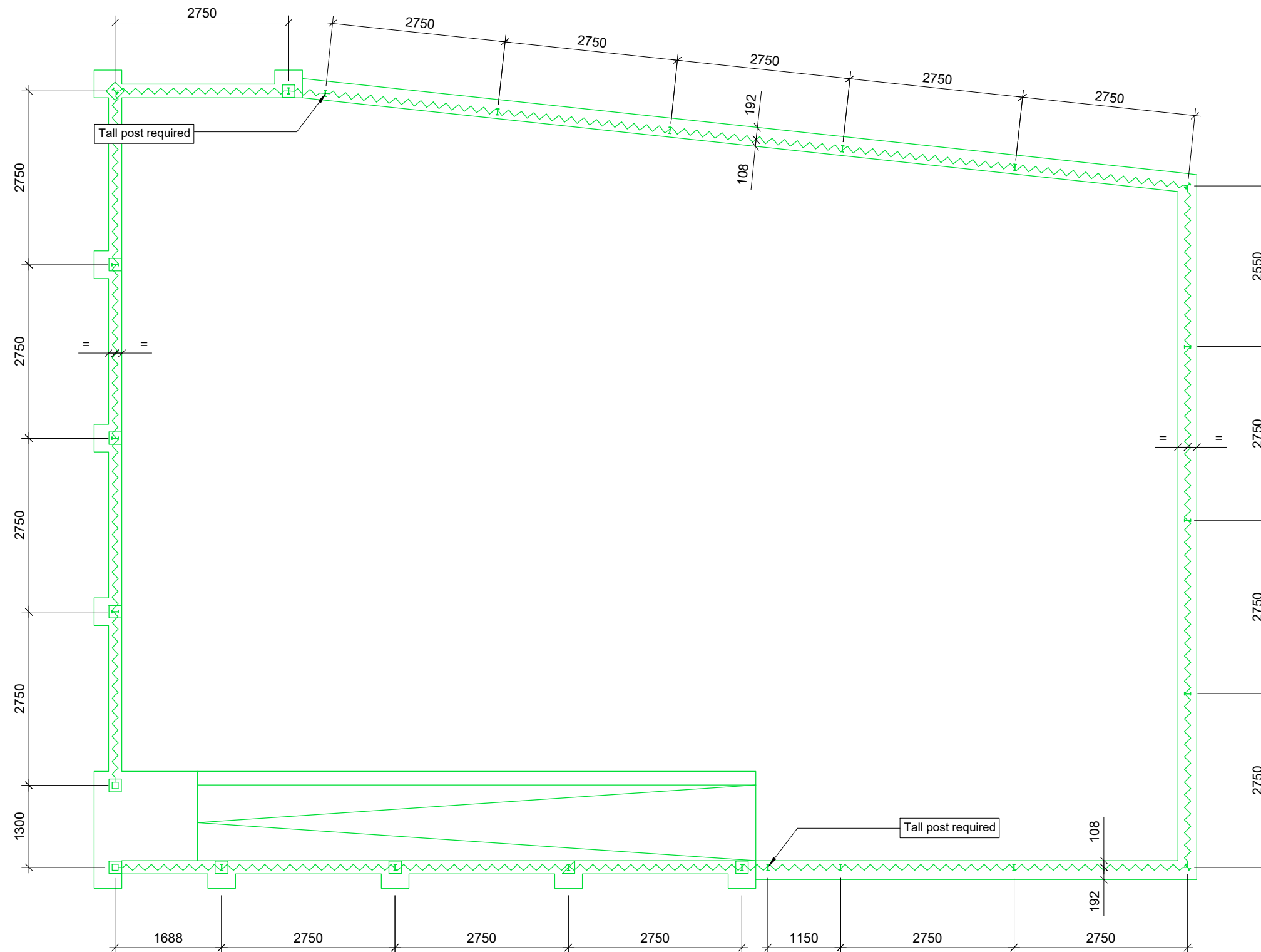
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title **FENCE SETTING OUT**

Site Location **WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

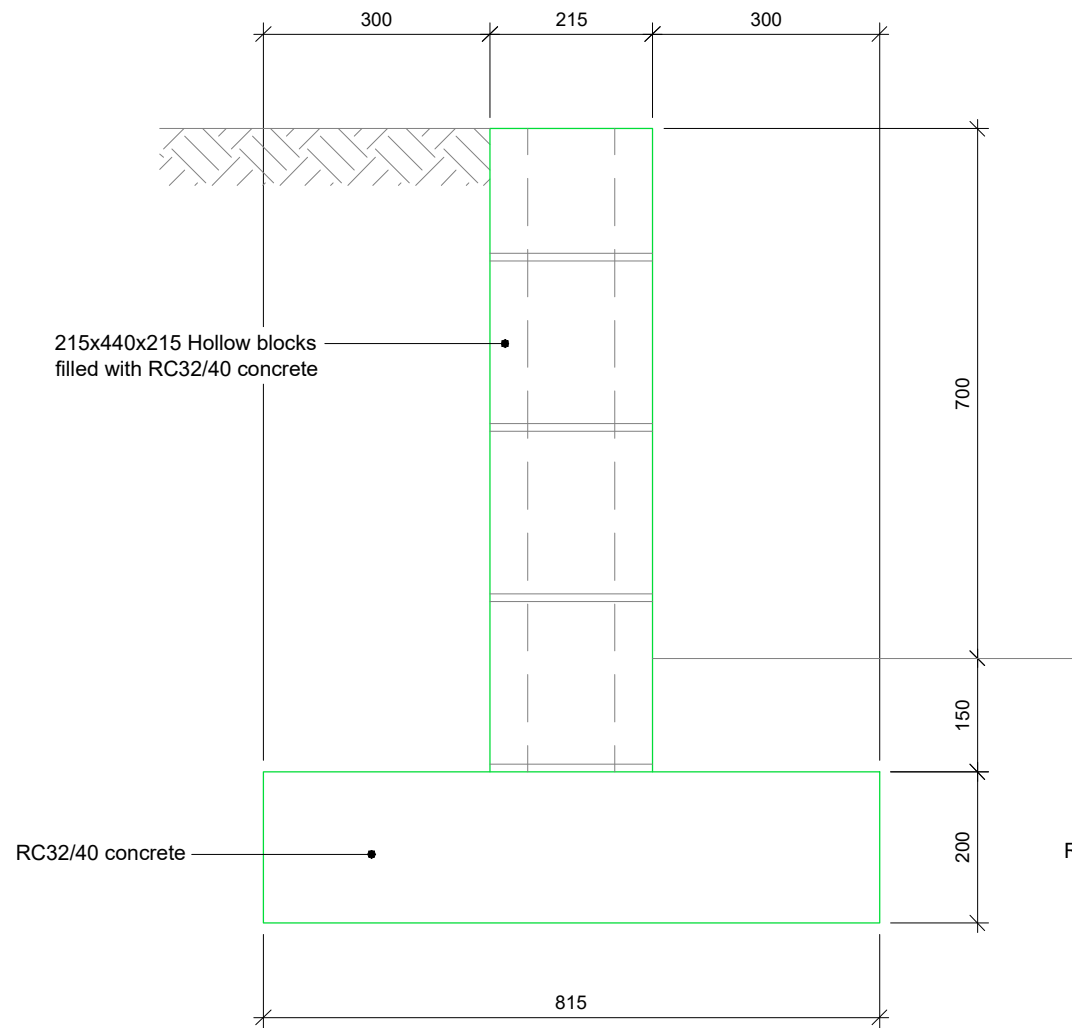
Site Code BRH2	Drawing Number P1808_177-DD-020-A
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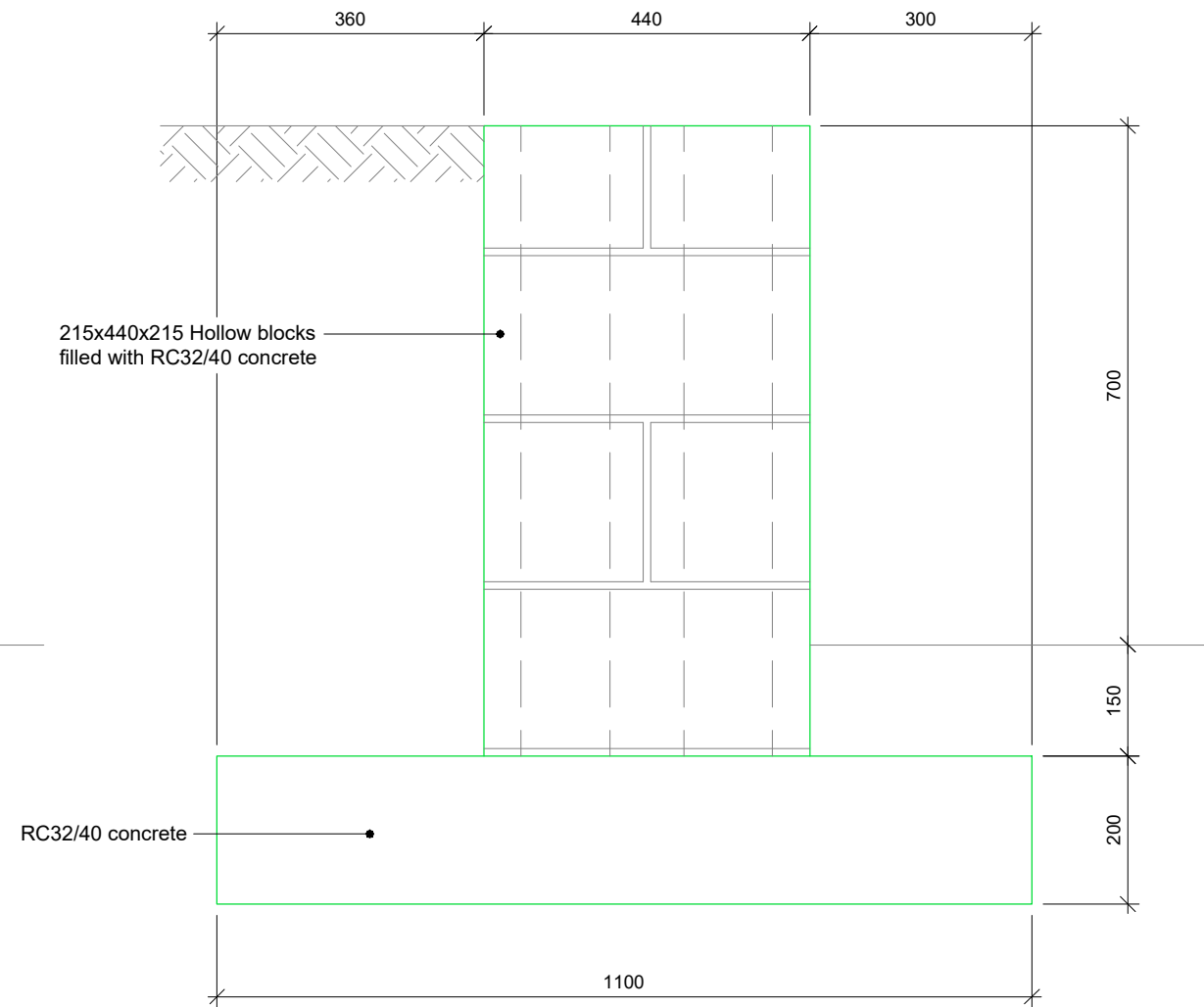
Fence Setting Out  
(Scale NTS)

NOTES

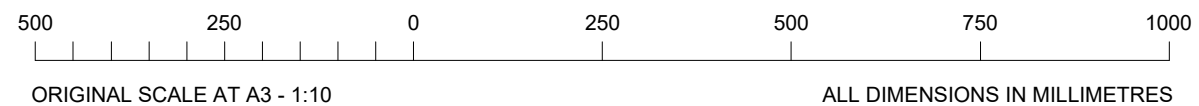
1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All materials and workmanship to be in accordance with specification.
5. Standard backfill requirements shall be type 1 in all circumstances unless further support is required then concrete backfill is recommended



Retaining Wall - Details  
(Scale 1:10)



Fence Pier - Details  
(Scale 1:10)



REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK



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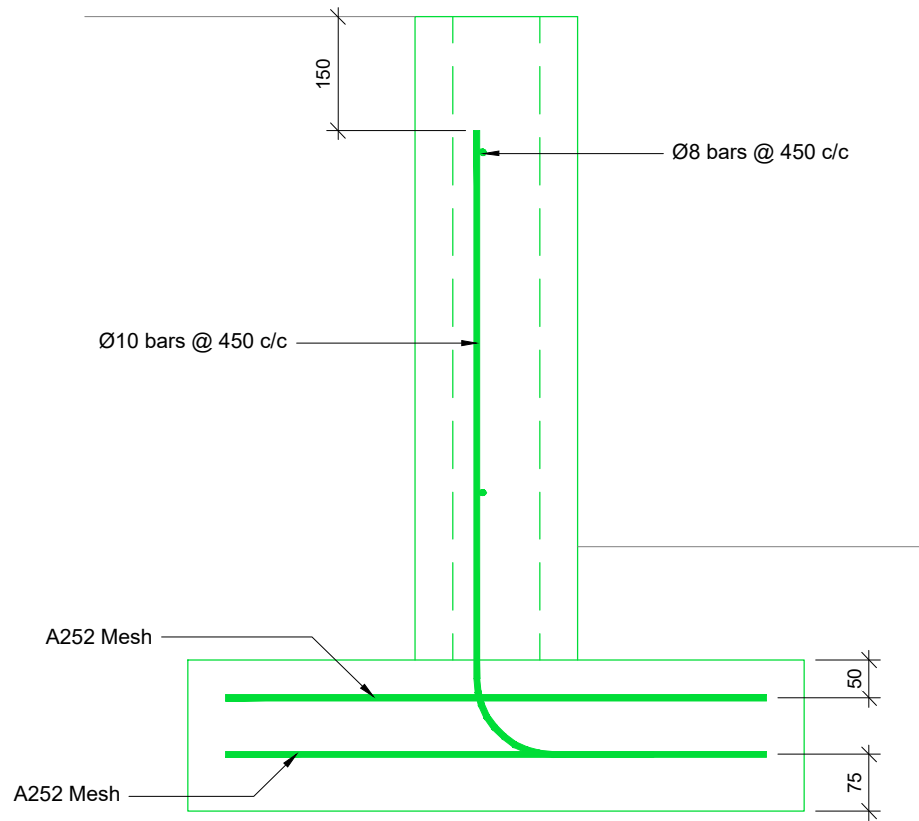


15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

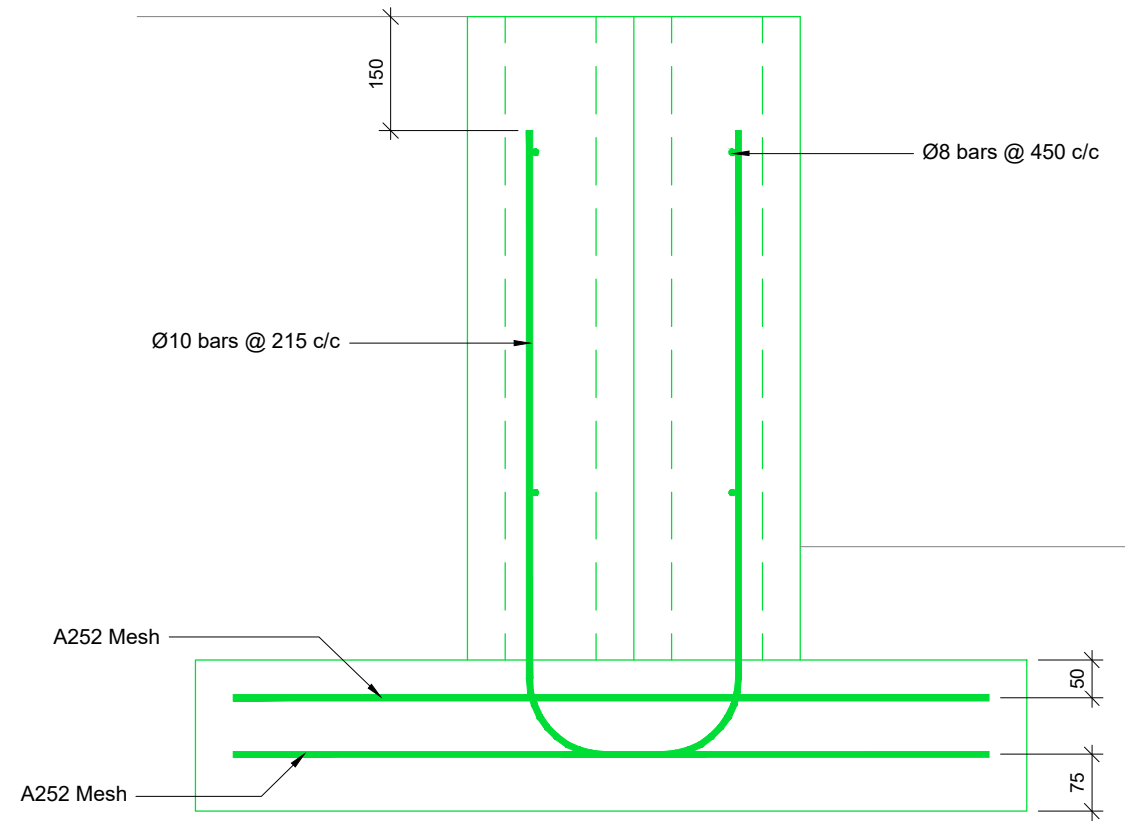
Drawing Title <b>RETAINING WALL DETAILS</b>		
Site Location <b>WITHDEAN SPORTS COMPLEX TONGDEAN LANE BRIGHTON BN1 5JD</b>		
Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22
Site Code BRH2	Drawing Number P1808_177-DD-021-A	

NOTES

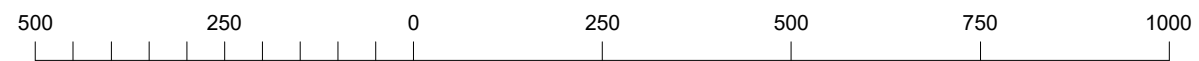
1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All materials and workmanship to be in accordance with specification.



Retaining Wall - Rebar  
(Scale 1:10)



Fence Pier - Rebar  
(Scale 1:10)



ORIGINAL SCALE AT A3 - 1:10

ALL DIMENSIONS IN MILLIMETRES

REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK



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15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title  
**RETAINING WALL - REBAR**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

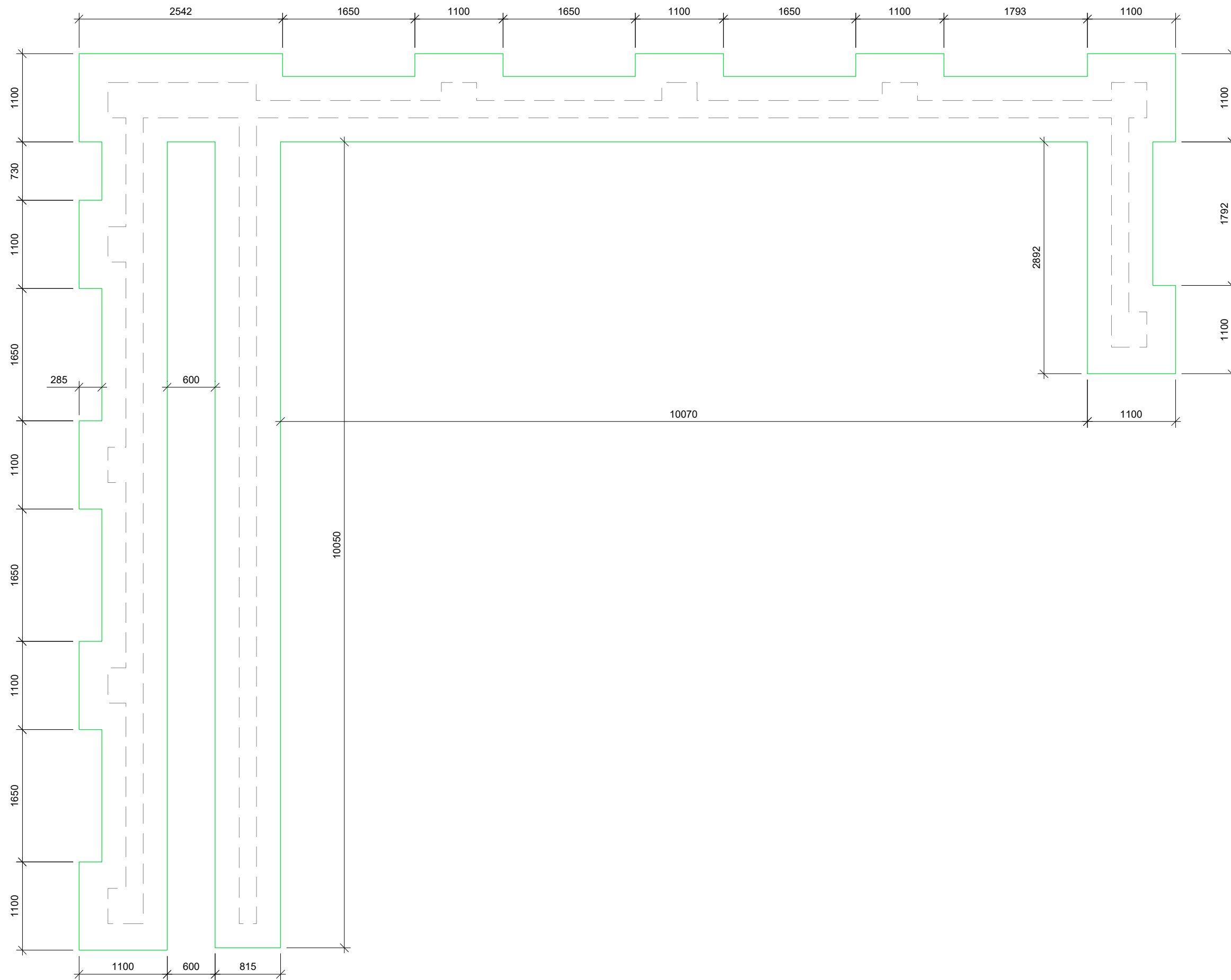
Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code  
**BRH2**

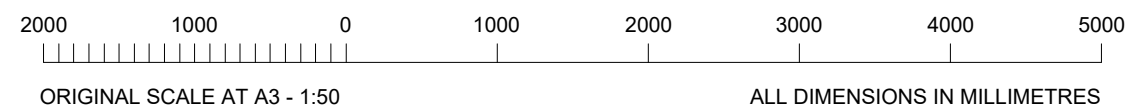
Drawing Number  
**P1808\_177-DD-022-A**

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All materials and workmanship to be in accordance with specification.



**Retaining Wall - Foundation**  
(Scale 1:50)



A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY

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tel :0117 966 5526 web: euro-tel-design.com

**CityFibre**  
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title  
**RETAINING WALL - FOUNDATION**

Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code <b>BRH2</b>	Drawing Number <b>P1808_177-DD-023-A</b>
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NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All materials and workmanship to be in accordance with specification.

REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK



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tel :0117 966 5526 web: euro-tel-design.com



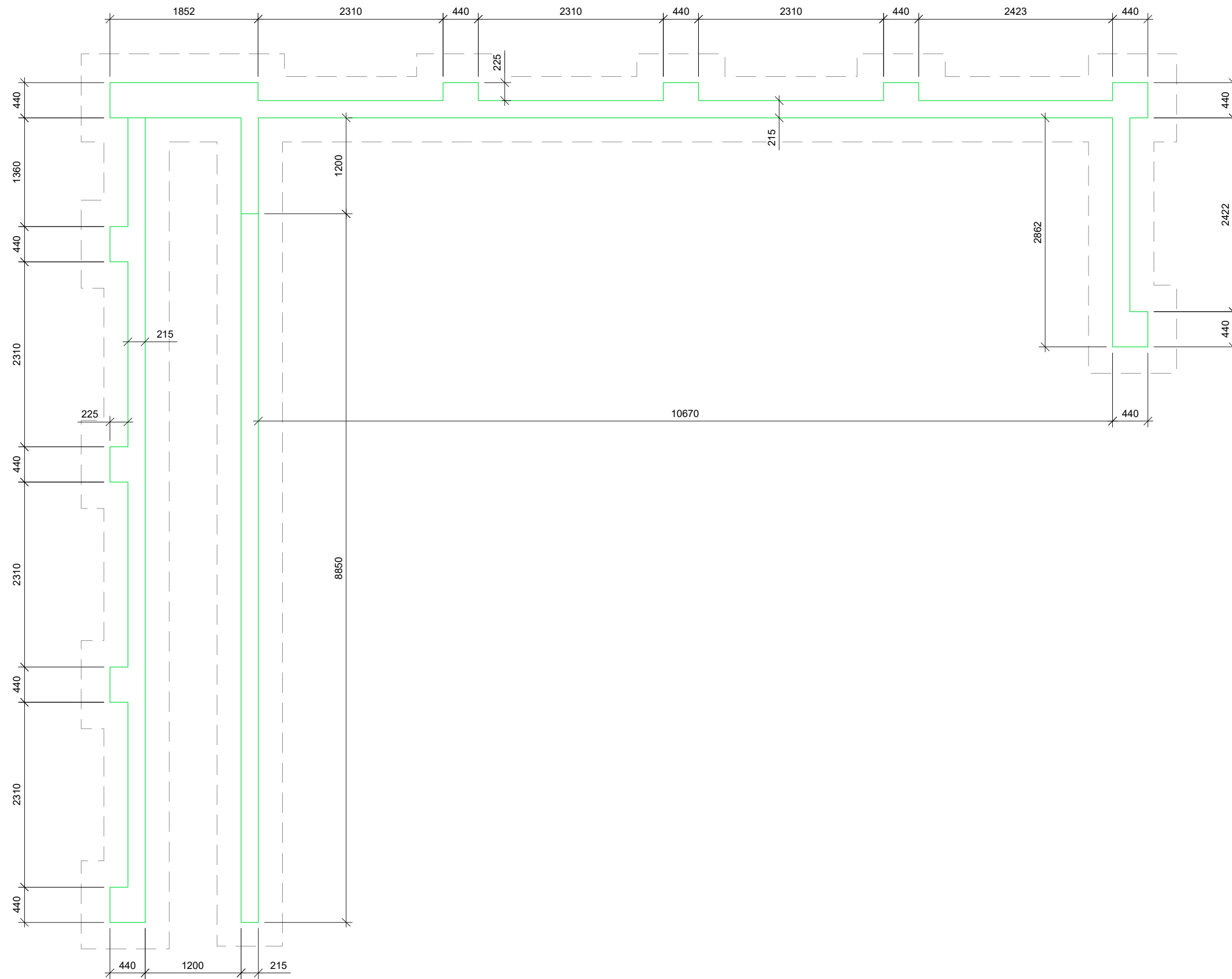
15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title  
**RETAINING WALL - SETTING OUT**

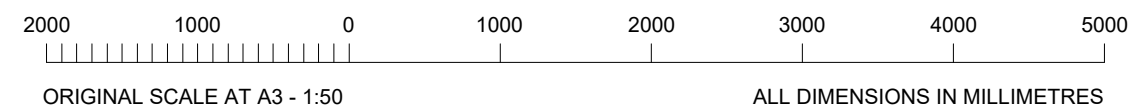
Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

Site Code BRH2	Drawing Number P1808_177-DD-024-A
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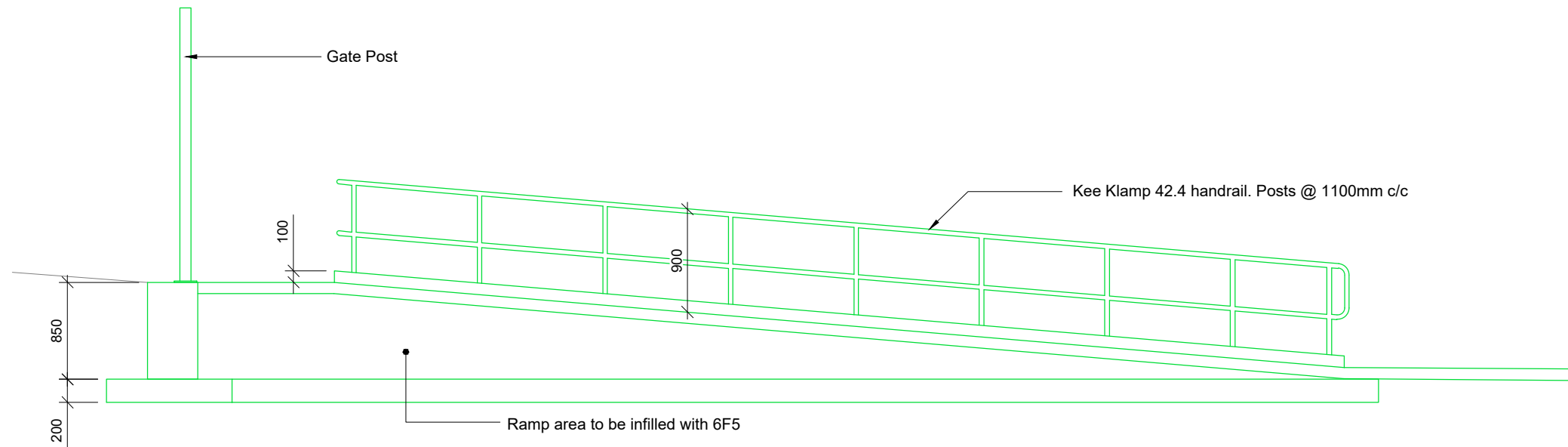


**Retaining Wall - Setting Out**  
(Scale 1:50)

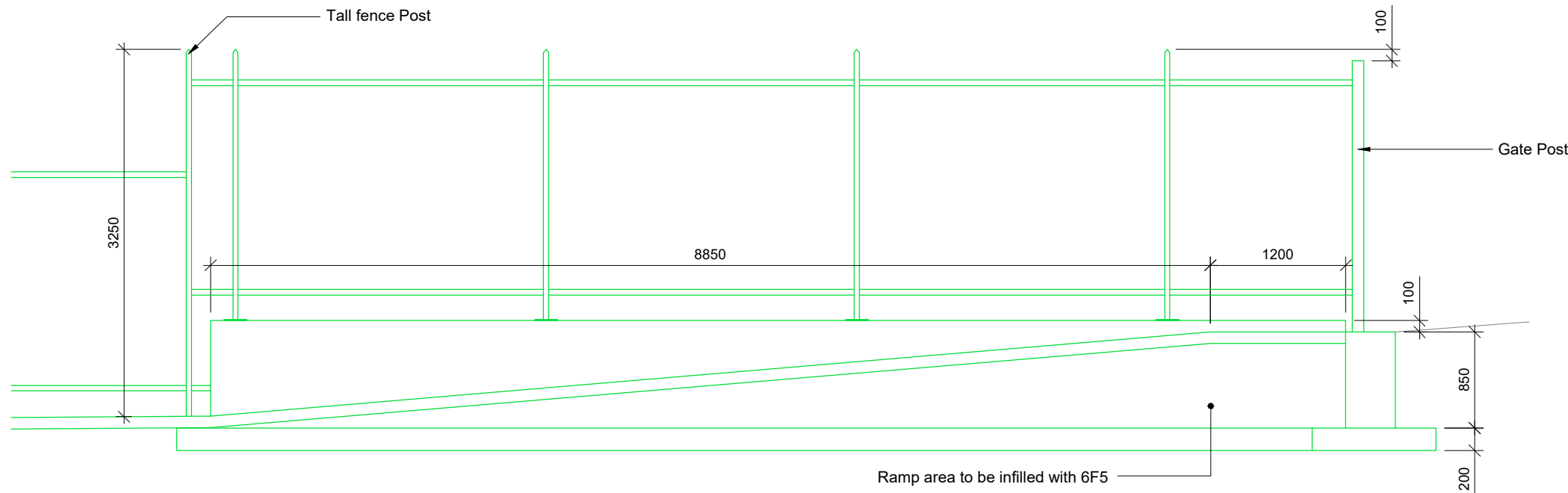


NOTES

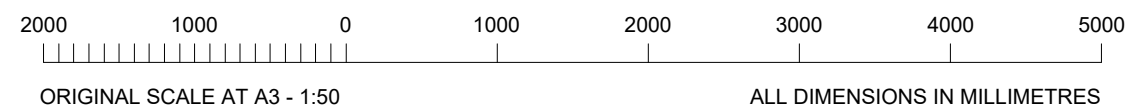
1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!



**Ramp Section A**  
(Scale 1:50)



**Ramp Section B**  
(Scale 1:50)



A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY



2 Charnwood House, Marsh Road, Bristol BS3 2NA  
tel :0117 966 5526 web: euro-tel-design.com



15 Bedford Street, London WC2E 9HE t: 0203 5100 602 www.cityfibre.com

Drawing Title **RAMP DETAILS**

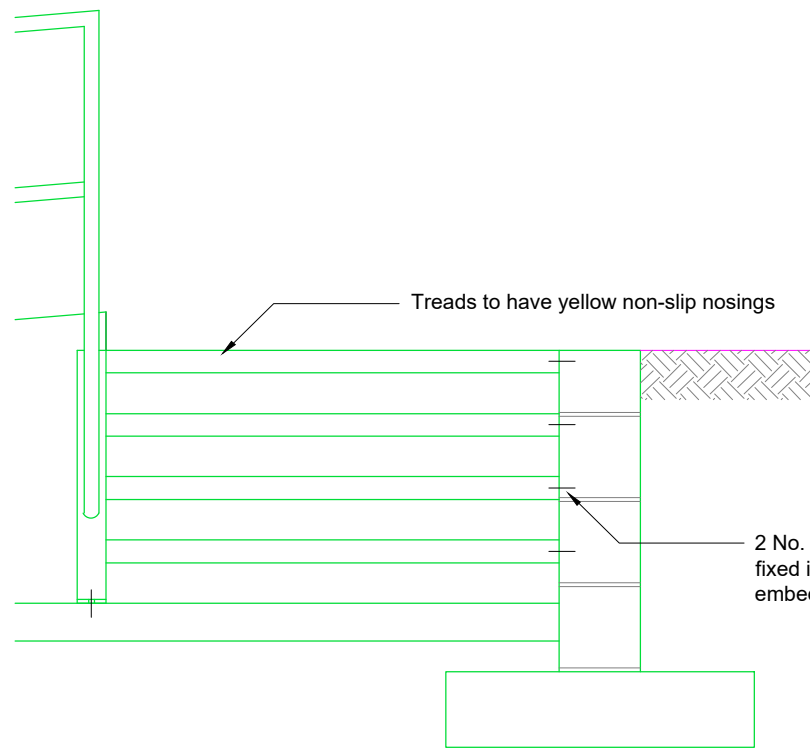
Site Location  
**WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

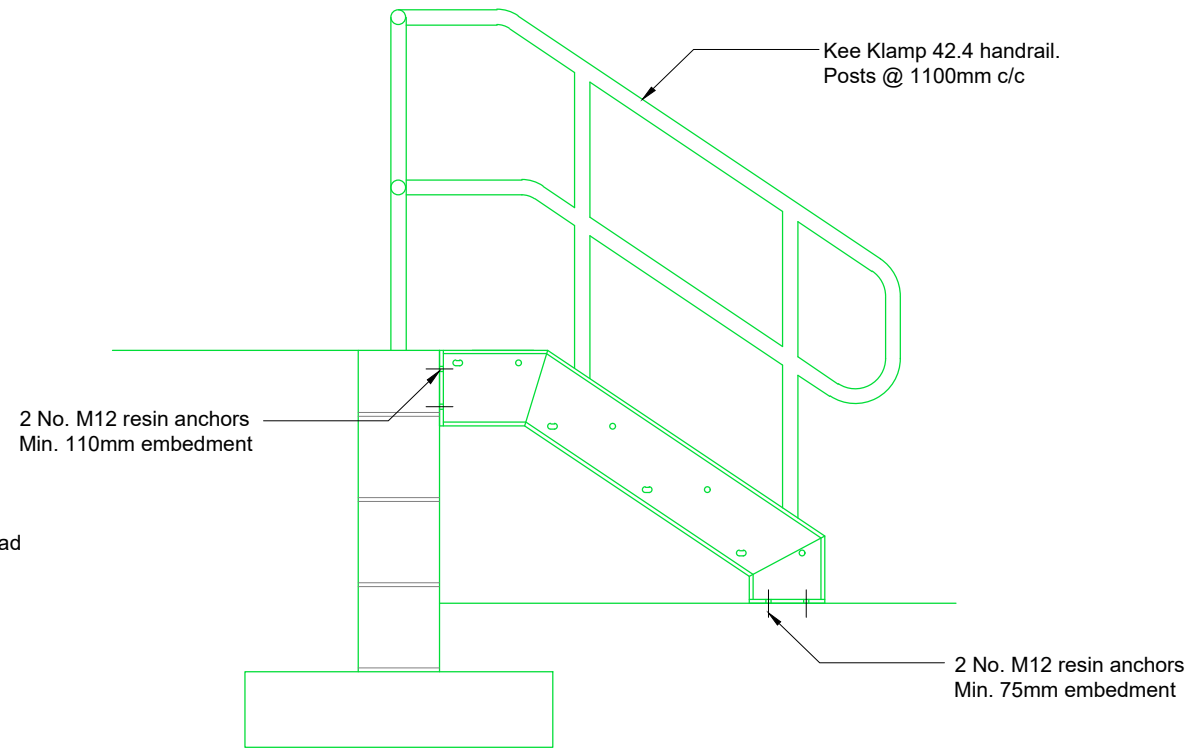
Site Code <b>BRH2</b>	Drawing Number <b>P1808_177-DD-025-A</b>
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NOTES

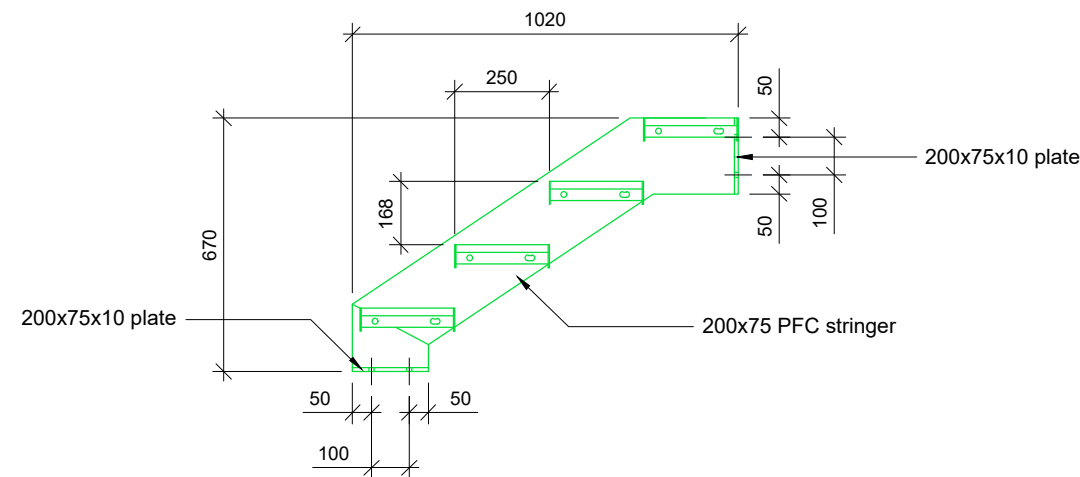
1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.
3. Do not scale from this drawing, use figured dimensions only. If in doubt, ask!
4. All materials and workmanship to be in accordance with specification.
5. Standard backfill requirements shall be type 1 in all circumstances unless further support is required then concrete backfill is recommended
6. Where applicable Reinstatement to comply with the requirements of the NRSWA (subject to category).



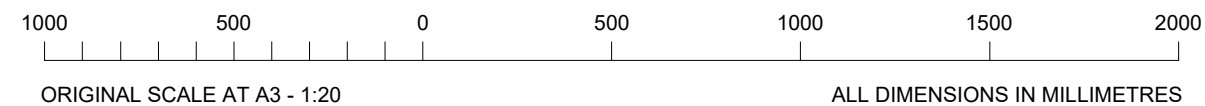
Stair - Front Elevation  
(Scale 1:20)



Stair - Side Elevation  
(Scale 1:20)



Stair - Section  
(Scale 1:20)



REV	DESCRIPTION OF REVISION	DATE	BY
A	DETAILED DESIGN ISSUE	15.08.22	CK



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tel :0117 966 5526 web: euro-tel-design.com



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Drawing Title		STAIR DETAILS	
Site Location		WITHDEAN SPORTS COMPLEX TONGDEAN LANE BRIGHTON BN1 5JD	

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22
Site Code BRH2	Drawing Number P1808_177-DD-026-A	

NOTES

1. This drawing to be read in conjunction with drawing series 001-020.
2. All dimensions are in mm unless otherwise noted.

**1.0 General**

- 1.1. Do not scale drawings.
- 1.2. All dimensions in mm unless noted otherwise.
- 1.3. The contractor shall be responsible for confirming dimensions and levels on site prior to the commencement of construction or fabrication.
- 1.4. The contractor shall be responsible for setting out the project on site.
- 1.5. The contractor shall be responsible for the stability and integrity of existing structures and ground profiles within and adjacent to the works, from the date of taking possession of the site until practical completion of the works. The contractor shall be responsible for the design, installation and maintenance of all necessary temporary works to comply with this requirement.
- 1.6. The contractor shall ensure that tolerances are integrated and co-ordinated throughout the works to ensure the efficient implementation of the works.
- 1.7. Where the existing weatherproof envelope is pierced to implement the works, the contractor shall be responsible for ensuring that ingress of water does not occur during the construction period.
- 1.8. Deviations between site dimensions, levels or existing details to those shown on the drawings shall be brought to the attention of the Engineer for comment and resolution.
- 1.9. Preparation, handling and application of the proprietary products shall be all in accordance with the recommendations of the product manufacturer, Health and Safety legislation and the specifications and details of the Engineer. Where contradictions occur between these requirements, reference should be made to the Engineer for resolution.
- 1.10. Where specific proprietary products are referenced an equal product approved by the engineer may be substituted, unless noted otherwise.

**2.0 Fasteners and Connections - Steel to Steel**

- 2.1. All bolts shall be M16 grade 8.8 to BS 4190:2014 unless noted otherwise.
- 2.2. All bolts shall be Spun Galvanised finish in accordance with BS 7371-6:1998 +A1:2011.
- 2.3. All bolts shall be sized in length to give a minimum extension beyond the nut of three threads.
- 2.4. Where connections are made using dissimilar materials, all connections shall be provided with neoprene, 'top-hat' washers, spring washers or other approved barrier between connector and main material, to minimise the risk of bi-metallic (electrolytic) corrosion.
- 2.5. Where appropriate, taper washers shall be used in bolted connections.
- 2.6. Where a connection is subject to vibration or cyclic loading use shall be made of locknuts, lockwashers or spring washers or other approved methods at locations indicated on the drawing by the Engineer to minimise the risk of loosening of the connectors.

**3.0 Fasteners and Connections - Steel to Concrete or Masonry**

- 3.1. The preferred method of fixing structural fixings into solid concrete or masonry walls shall be through-bolt fixings unless specified otherwise. Where the through-bolt fixings cannot be achieved resin anchor fixings should be utilised upon consultation with engineer.
- 3.2 All resin anchors into solid concrete shall be HIT-HY150 resin injection system with HAS-R stainless steel anchor components, or similar approved, unless noted otherwise.
- 3.3. All resin anchors into solid brickwork or other solid masonry shall be Hilti HIT-HY150 resin injection system with HIT-V stainless steel anchor components, or similar approved, unless noted otherwise.
- 3.4 Where a connection is made between dissimilar metals, all connections shall be provided with neoprene, 'top-hat' washers/spring washers or other approved barrier between connector and main material, to minimise the risk of bi-metallic (electrolytic) corrosion.
- 3.5. Minimum embedment depth for anchors shall be as follows

Material	Anchor Ø	Min embedment
Solid Brick or stone	M12	110mm
Solid Concrete	M12	110mm
Solid Concrete	M16	125mm

- 3.6. Anchors shall be tested in accordance with 'Construction Fixings Association Guidance Note : Procedure for Testing Construction Fixings' and 'BS 5080-1:1993 - Structural fixings in concrete and masonry' or manufacturers recommendations.
- 3.7. All nuts, bolts and studdings used in connections to porous materials shall be stainless steel.
- 3.8. The Engineer shall be advised a minimum of 48 hours in advance to afford the opportunity of witnessing the test.
- 3.9. All tests shall be documented with location sketches and unique references for each bolt tested, in such a manner that each test location can be identified on site from the documentation.
- 3.10. All tests should be carried out to the following loads:

Material	Anchor Ø	Test Load
Solid Brick or stone	M12	3.5kN
Solid Concrete	M12	9.5kN
Solid Concrete	M16	12.1kN

**4.0 Concrete**

- 4.1.1 Unless noted otherwise all concrete shall be:
  - a. Concrete grade: RC32/40
  - b. Minimum cement content: 330kg/m<sup>3</sup>
  - c. Nominal aggregate size: 20mm
  - d. Maximum free water/cement ratio: 0.5
- 4.1.2 Unless noted otherwise all reinforcement shall be:
  - a. High yield (fy = 460 Nmm<sup>2</sup>) type 2 deformed bar reinforcement to BS 4449:2005+A3:2016
  - b. Mild steel (fy = 250 Nmm<sup>2</sup>) plain round reinforcement bars to BS 4449:2005+A3:2016
  - c. Welded steel mesh reinforcement to BS EN 10080:2005
  - d. Scheduled and dimensioned to BS 8666:2005
- 4.2 All concrete spacer bars and chairs to be placed at minimum 1 No. unit per m<sup>2</sup> and staggered to avoid planes of weakness. All supports to positively located in position prior to casting of the concrete.
- 4.3 Minimum cover to reinforcement as noted on base detail drawings. Nominal cover deviance +10mm.
- 4.4 Concrete tolerances to be in accordance with NSCS - Edition 4 Part 10.6.
- 4.5 The mix design certificate shall be submitted to the Engineer, for the opportunity to comment, a minimum of 72 hours prior to commencement of casting.
- 4.6 Concrete cube testing to be carried out in accordance with BS 1881-124:2015. The results to be forwarded to the Engineer for evaluation.
- 4.7 Where concrete is to be cast against an existing concrete surface, the existing surface shall be scabbled to remove laitance and other deleterious materials. Scabbling shall expose the aggregate and sound material. A bonding agent is to be applied to the scabbled surface a maximum of two days before casting.
- 4.8 Concrete in each base shall be cast in a single continuous operation.
- 4.9 Concrete shall not be cast where the ambient temperature is 5 degrees centigrade and falling or less than 2 degrees on a rising thermometer.
- 4.10 Finishes where stated shall be :
  - a. Formed finish - basic as struck.
  - b. Worked finish - brush finish.

**5.0 Steelwork**

- 5.1 All steelwork fabrication and erection shall comply with the "National Structural Steelwork Specification" 6th edition
- 5.2 Linear dimensions to be within ±1.0mm
- 5.3 All steelwork to be grit blasted to SA 2.5, pickled and hot dip galvanised (100 microns nominal thickness) all in accordance with BS EN ISO 1461
- 5.4 Minor site erection damage to be made good with Galvalfroid or similar approved alternative to achieve a minimum of 100 microns dft
- 5.5 All welds to be minimum 6mm continuous fillet unless otherwise noted

- Welding to be in accordance with BS EN 1011-1:2009. Welding symbols to BS EN 22553:1995. All weld sizes are final size. All welded joints are to be pickle tight.
- 5.6 All welds to be visually inspected in accordance with BS EN 970 subject to magnetic particle inspection to bs 6072-1981 or dye penetrant testing to BS 571-1 1997 unless otherwise stated
  - 5.7 All profile edges to be dressed and sharp corners removed
  - 5.8 For plates, flats and rolled sections: grade s275 to BS EN 10025. For RHS sections: grade s355. For CHS sections: grade s355
  - 5.9 All steel products manufactured to harmonised BS EN standards shall be supplied complete with CE marking as follows:
    - Steel sections to BS EN 10025-1
    - Hot finished hollow sections to BS EN 10210-1 cold
    - Formed hollow sections to BS EN 10219-1
    - Fabricated sections to BS EN 1090-1
    - Fabrication Execution Class 2

**6.0 Electrical & Lightning Protection**

- 6.1 Electrical works shall be carried out in keeping with BS 7671:2008+A3:2015.
- 6.2 The lightning protection installation shall be supplied, installed, tested, commissioned and set to work in keeping with BS EN 62305-1 to -4. Works shall encompass best working practices by suitably experienced and qualified personnel.
- 6.3 Earthing and bonding works shall comply with BS 7430:2011+A1:2015.
- 6.4 Connection of existing or insitu equipment, normally not associated with the installation shall be kept to a minimum. This does not include existing services that may affect the integrity of the equipment under fault conditions.
- 6.5 All conductive parts located within the equipotential zone shall be cross-bonded and tied to earth. This shall include non equipment that may effect the equipment or personnel under fault conditions,
- 6.6 Continuous containment system runs shall be bonded directly to the lightning protection system at a maximum 20 metre interval. Where bonded directly to the lightning protection system bond's shall be 25x3mm CU. Tape or braid as required. Parallel or dissimilar tray runs shall be cross-bonded, as should conductive fences and gates. 25x3mm CU. Tape or braid as required.
- 6.7 Cables shall be supplied in accordance with following :
  - a) Earth cables shall be single core Ref. 6491X to BS 6004.
  - b) SWA tpye cables 2,3 or 4core Ref. 6943X to BS 5467.
  - c) MIC Alarm cable 2 pair 1/0.50mm Cel-PE/PJF/PE/SWA/PE Black to CS1128/1198 (eg Batt cables P/N 42125).
  - d) PCM Cables shall be SWA RG59 (VPN 303-223) for external use, complete with IP66 gland CW205/16 (VPN 303-688). Internal use BS20S (VPN 303-224).
- 6.8 Where buried electrical cables shall be installed in keeping with the construction drawings and project specification. Prior to the opening of any trenches the Contractor shall demonstrate that the area to be excavated is free from other services and all necessary safeguards have been put in place to negate risk to site personnel, building fabric, members of the public and Site Provider Employee's.
- 6.9 Excavation and electrical isolations shall be done with the full consent of the site provider and under cover of a permit to work system.
- 6.10 Distribution boards, Fuse switches and sundries shall be supplied in accordance with the following :
  - a. 100amp switch disconnector shall be to BS EN 60947-3:2009+A2:2015.
  - b. MCB's to BS EN 60898-2:2006
  - c. RCD's to BS EN 61009-1:2012+A12:2016
  - d. Distribution boards in accordance with BS EN 60529:1992+A2:2013
  - e. Switch fuses in accordance with BS EN 60947-3:2009+A2:2015
  - f. Plugs and sockets in accordance with BS EN 60309-2:1999
- 6.11 Accessories shall be supplied in accordance with the following:
  - a. Warning labels in accordance with BS EN ISO 7010:2012+A5:2015

A	DETAILED DESIGN ISSUE	15.08.22	CK
REV	DESCRIPTION OF REVISION	DATE	BY



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Drawing Title **SPECIFICATION**

Site Location **WITHDEAN SPORTS COMPLEX  
TONGDEAN LANE  
BRIGHTON  
BN1 5JD**

Drawn by CK	Checked by SB	Approved by JR
Date Drawn 15.08.22	Date Checked 15.08.22	Date Approved 15.08.22

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