

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Book of Plans

Doc Ref: **2.23**

Deptford Church Street

APFP Regulations 2009: Regulation **5(2)(k), (o)**

Hard copy available in
Box **62** Folder **B**
January 2013

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

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Application for Development Consent: Book of Plans

List of Volumes

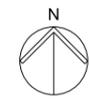
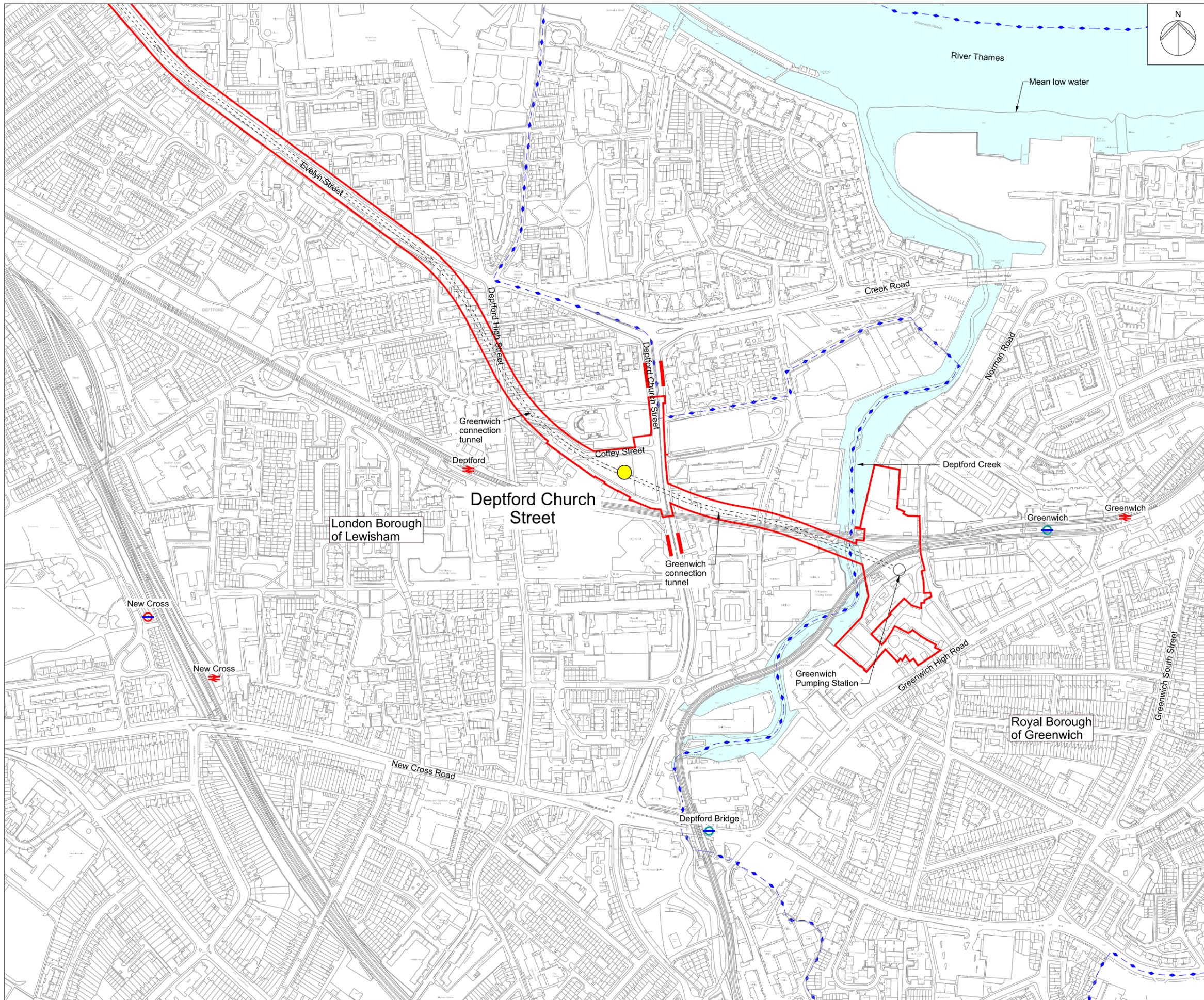
Box	Folder/Volume	Section	Location	Drawing type or site location
61	1	1	Project-wide drawings	Works plan and sections
		2	Project-wide drawings	Land acquisition plans
		3	Project-wide drawings	Land plans
		4	Project-wide drawings	Crown and special category land plans
	2	5	Site drawings	Acton Storm Tanks
		6	Site drawings	Hammersmith Pumping Station
		7	Site drawings	Barn Elms
		8	Site drawings	Putney Embankment Foreshore
		9	Site drawings	Carnwath Road Riverside
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		13	Site drawings	Cremorne Wharf Depot
		14	Site drawings	Chelsea Embankment Foreshore
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		21	Site drawings	Chambers Wharf
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		25	Site drawings	King Edward Memorial Park Foreshore
		26	Site drawings	Bekesbourne Street
		27	Site drawings	Abbey Mills Pumping Station
		28	Site drawings	Beckton Sewage Treatment Works.
		29	Project-wide drawings	Ventilation columns

This volume is Volume 5

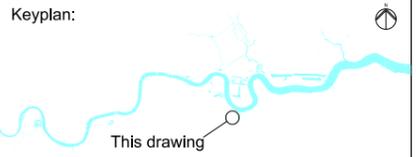
Volume 5

Drawing Title	Sheet No.	Drawing number
Section 23: Deptford Church Street		
Location plan		DCO-PP-22X-DEPCS-230001
As existing site features plan		DCO-PP-22X-DEPCS-230002
Access plan		DCO-PP-22X-DEPCS-230003
Demolition and site clearance		DCO-PP-22X-DEPCS-230004
Site works parameter plan		DCO-PP-22X-DEPCS-230005
Site works parameter key plan		DCO-PP-22X-DEPCS-230006
Permanent works layout		DCO-PP-22X-DEPCS-230007
Proposed landscape plan		DCO-PP-22X-DEPCS-230008
Section AA		DCO-PP-22X-DEPCS-230009
As existing and proposed east elevation		DCO-PP-22X-DEPCS-230010
As existing and proposed south elevation		DCO-PP-22X-DEPCS-230011
Kiosk design intent		DCO-PP-22X-DEPCS-230012
Construction phases - phase 1 Site setup and shaft construction		DCO-PP-22X-DEPCS-230013
Construction phases - phase 2 Construction of other structures		DCO-PP-22X-DEPCS-230014
Highway layout during construction - Phase 1*		DCO-PP-22X-DEPCS-230017
Highway layout during construction - Phase 2*		DCO-PP-22X-DEPCS-230018
Permanent highway layout*		DCO-PP-22X-DEPCS-230019

* Schedules of associated highway works are located in the *Transport Assessment*



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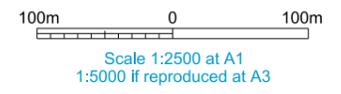


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Local authority boundary
 - Order limits
 - Tunnel
 - Shaft

Notes:

1. The alignment of the tunnels are illustrative within limits of deviation.



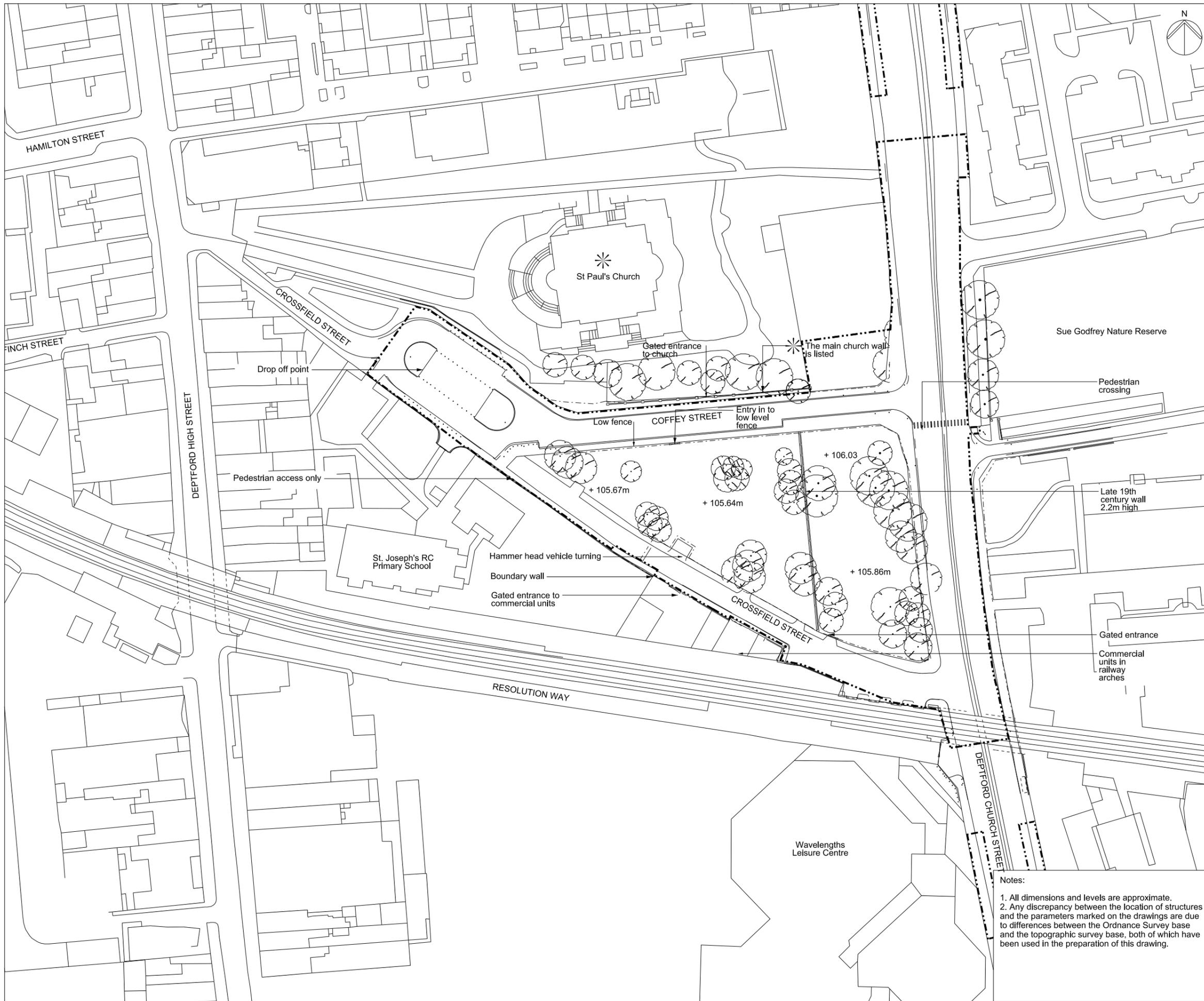
FOR INFORMATION

Location
Deptford Church Street
 London Borough of Lewisham

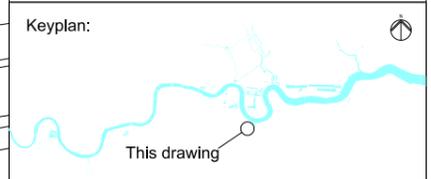
Document Information
Application for Development Consent
 Location plan

Book of plans - section 23
 DCO-PP-22X-DEPCS-230001
 January 2013



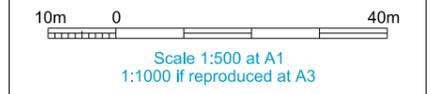


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - Listed buildings/structures
 - Existing trees within surveyed area (trunk sizes vary)



FOR INFORMATION

Location
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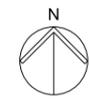
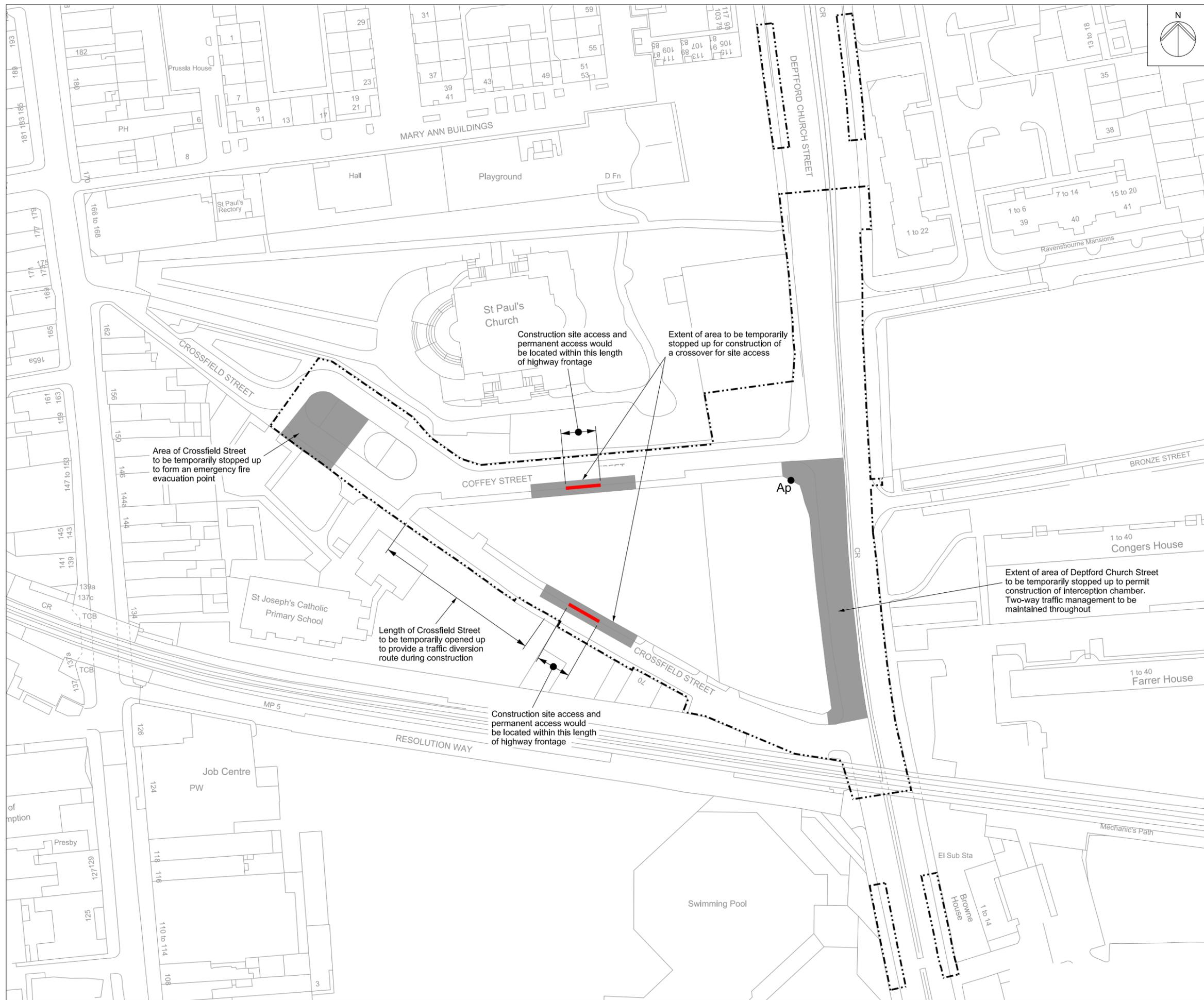
Document Information
Application for Development Consent

As existing
Site features plan
Book of plans - section 23
DCO-PP-22X-DEPCS-230002
January 2013

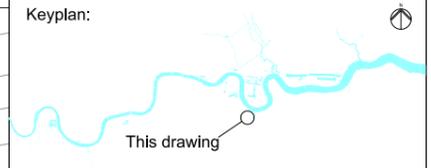


Notes:

1. All dimensions and levels are approximate.
2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.



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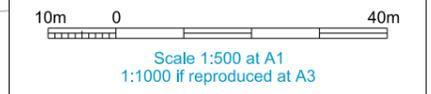


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Area of highway to be temporarily stopped up
 - Ap** ● Access to permanent works
 - Ac** ● Access to construction works
 - Highway frontage within which access would be located

Notes:

- This plan does not show stopping up and diversions of limited duration (eg hoarding erection, minor utility diversions and minor highway works).



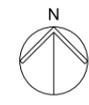
FOR APPROVAL

Location
 Deptford Church Street
 London Borough of Lewisham

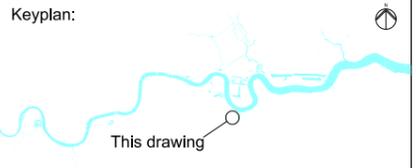
Document Information
 Application for Development Consent
 Access plan

Book of plans - section 23
 DCO-PP-22X-DEPCS-230003
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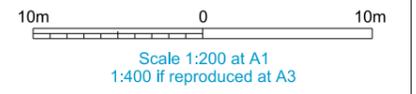
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Above ground structures to be removed

- Notes:**
1. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 2. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.



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Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
Demolition and site clearance

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January 2013

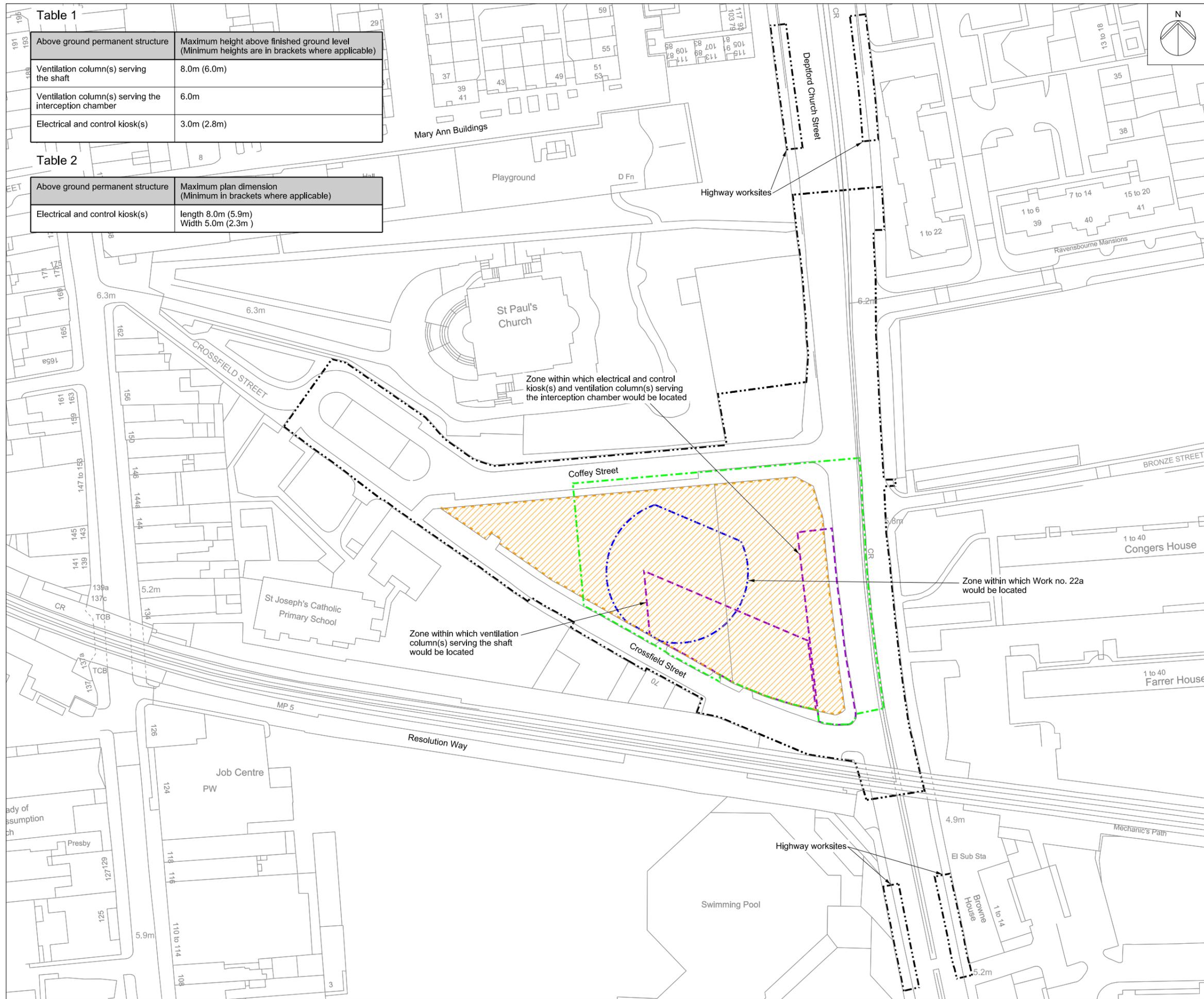


Table 1

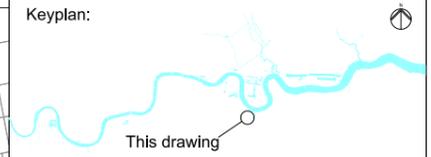
Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Ventilation column(s) serving the shaft	8.0m (6.0m)
Ventilation column(s) serving the interception chamber	6.0m
Electrical and control kiosk(s)	3.0m (2.8m)

Table 2

Above ground permanent structure	Maximum plan dimension (Minimum in brackets where applicable)
Electrical and control kiosk(s)	length 8.0m (5.9m) width 5.0m (2.3m)



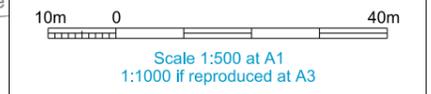
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located (those listed in Table 1)
 - Zone within which required landscaping would be located

- Notes:**
- All dimensions and levels are approximate.
 - The Site Works Parameter Key Plan identifies each zone independently.
 - The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.



FOR APPROVAL

Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
Site works parameter plan

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January 2013





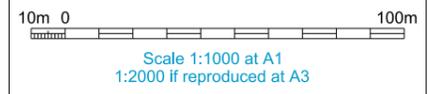
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Keyplan:

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located
 - Zone within which required landscaping would be located

- Notes:**
1. All dimensions and levels are approximate.
 2. The Site Works Parameter Key Plan identifies each zone independently. The zones are identical to those shown on the Site works parameter plans.
 3. The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.

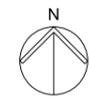
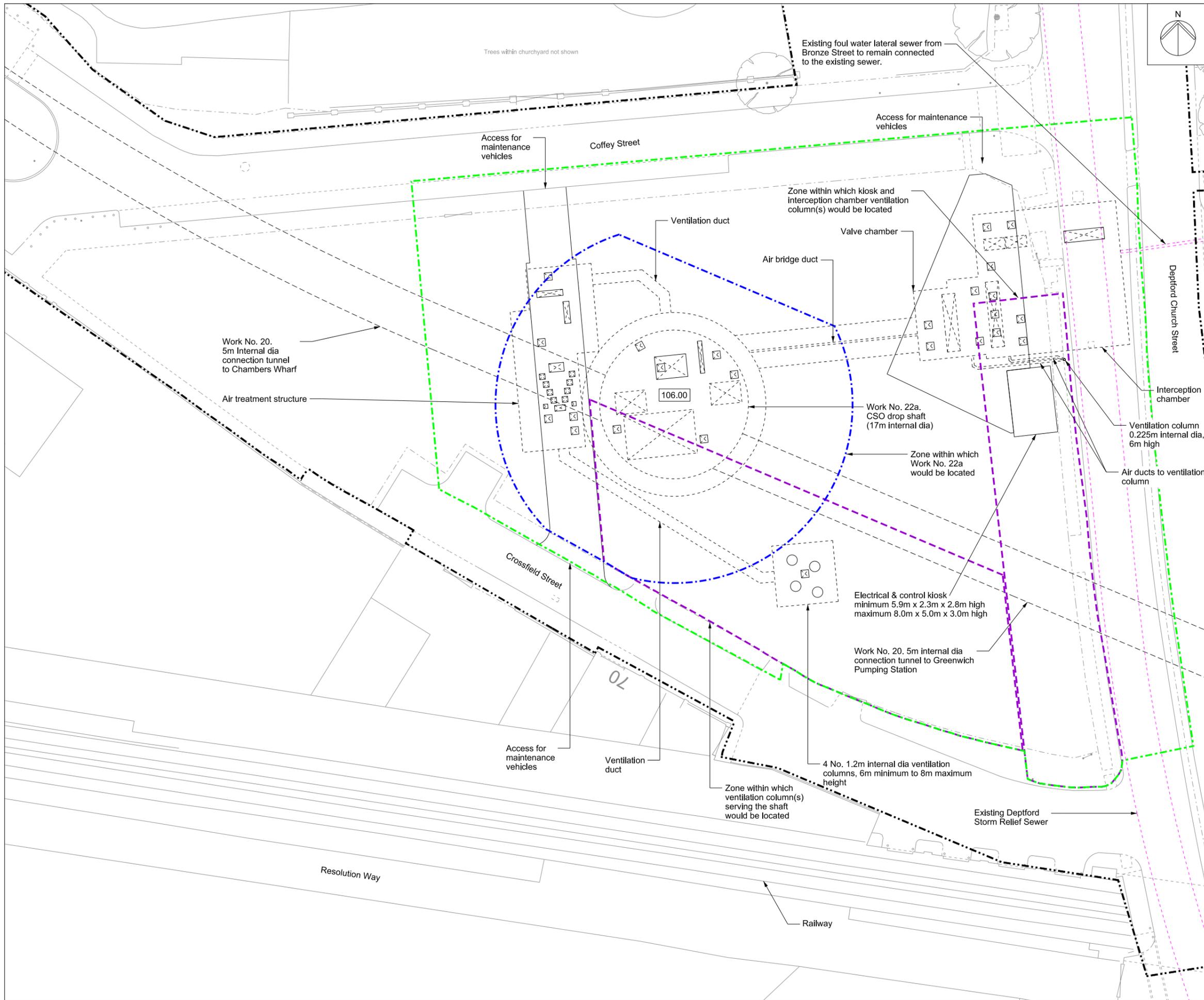


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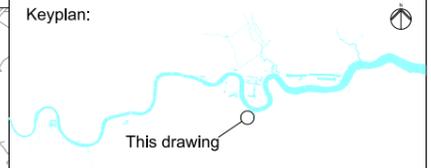
Location
Deptford Church Street
 London Borough of Lewisham

Document Information
Application for Development Consent
 Site works parameter key plan

Book of plans - section 23
 DCO-PP-22X-DEPCS-230006
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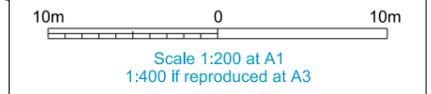
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing sewers
 - Proposed access cover
 - Proposed level (shown in metres above tunnel datum)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located

- Notes:**
1. All dimensions and levels are approximate.
 2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and topographical survey base, both of which have been used in the preparation of this drawing.
 3. This drawing shows permanent site structures only. Landscaping hard works and soft works are shown on the Proposed landscape plan and/or Proposed site features plan.



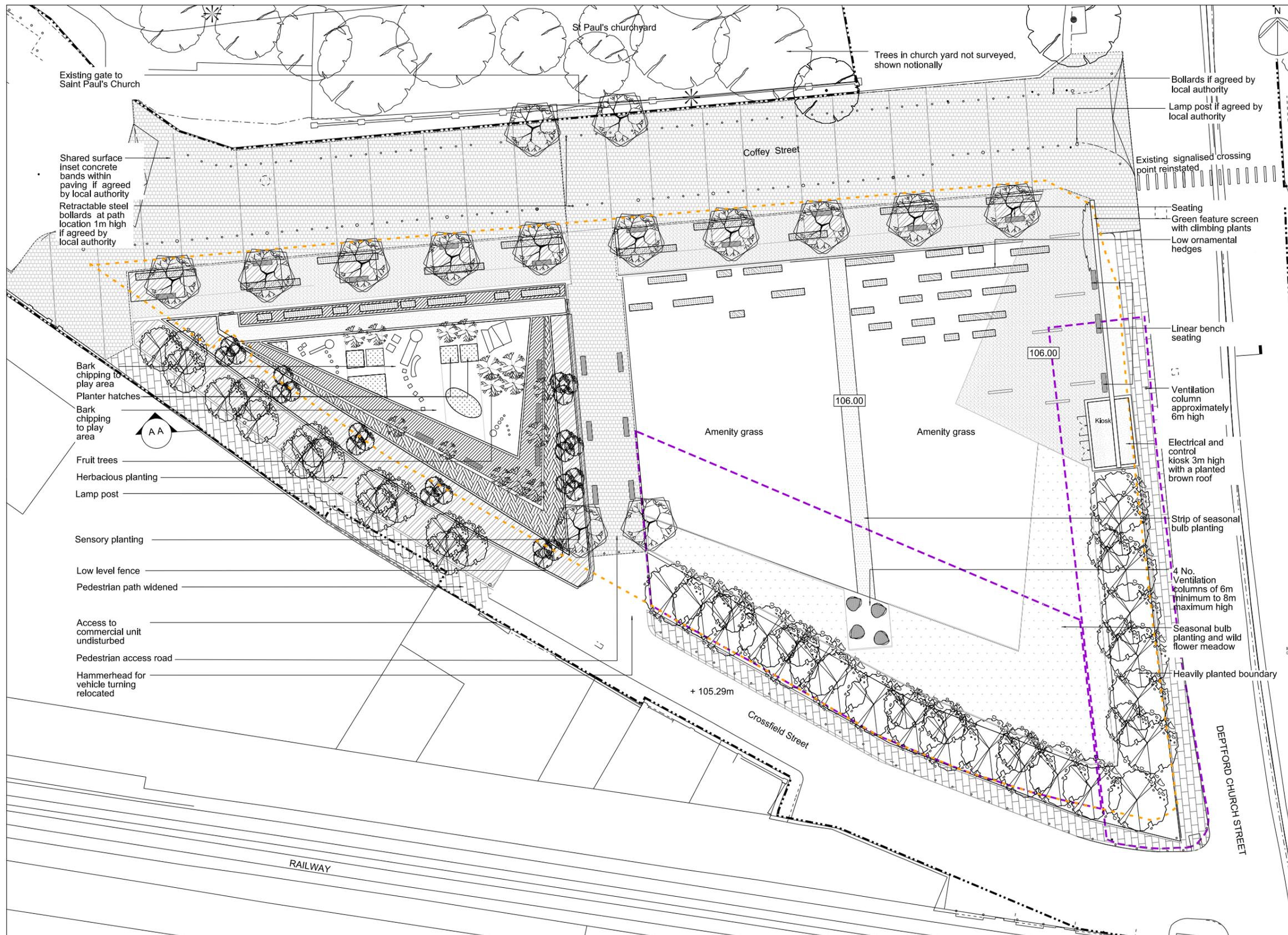
ILLUSTRATIVE

Location
Deptford Church Street
London Borough of Lewisham

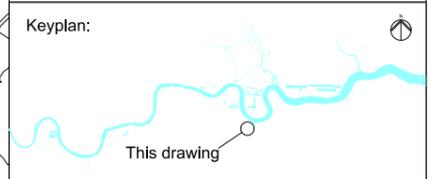
Document Information
Application for Development Consent
Permanent works layout

Book of plans - section 23
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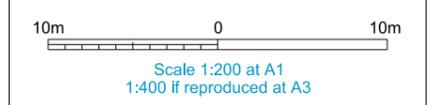


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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which permanent above ground structures would be located
 - Zone within which required landscaping would be located
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - Proposed levels (shown in metres above tunnel datum)
 - Listed buildings/structures
 - Existing trees within surveyed area (trunk sizes vary)



ILLUSTRATIVE
Save for the scale of above ground structures which is indicative

Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
Proposed
Landscape plan
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Landscape key

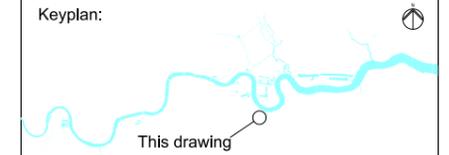
	Natural stone paving		Ground cover planting		Reinstated paving		Hedging		Lighting
	Timber decking		Herbaceous planting		Benches		Fencing		Gate
	Herbaceous perennial planting		Wildflower meadow		Natural Play equipment		Planter		Proposed soft landscaping
	Bound gravel		Seasonal bulb planting		Bollards		Strip recessed lighting		Native tree planting
									Fruit trees

Notes:

- All dimensions and levels are approximate.
- Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.
- Some planted areas around the shaft will have to be temporarily taken up to allow safe access for operation and maintenance access. Any areas that are moved will be reinstated upon completion.
- The above ground structures in the "save for the scale of above ground structures which is indicative" statement are those listed in Table 1 on the Site works parameter plan.

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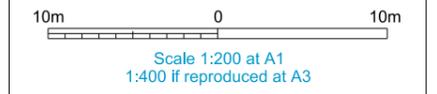
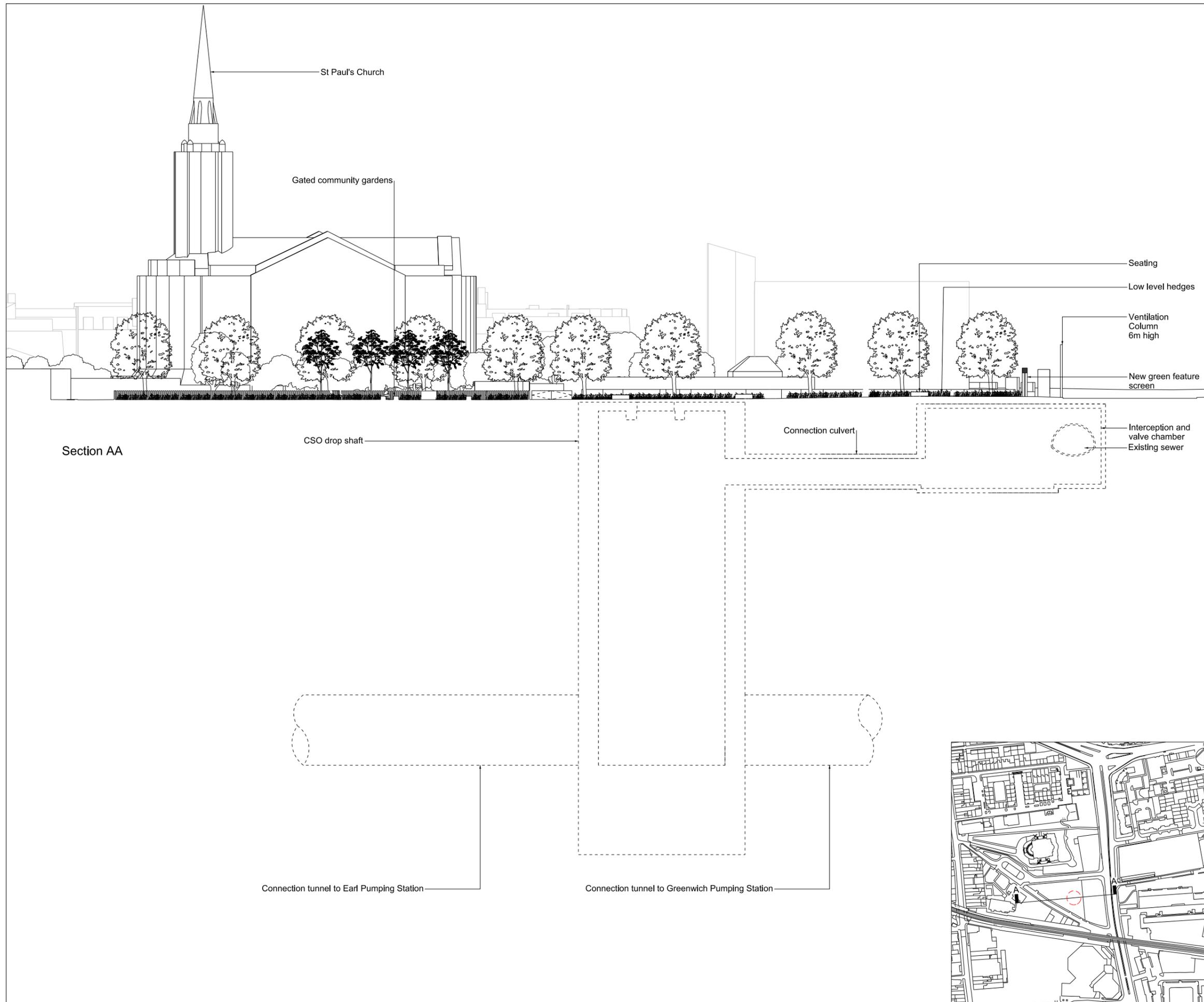
Keyplan:



Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Notes:

1. All dimensions and levels are approximate.
2. The purpose of this section is to show the scale of the below ground infrastructure to be provided.



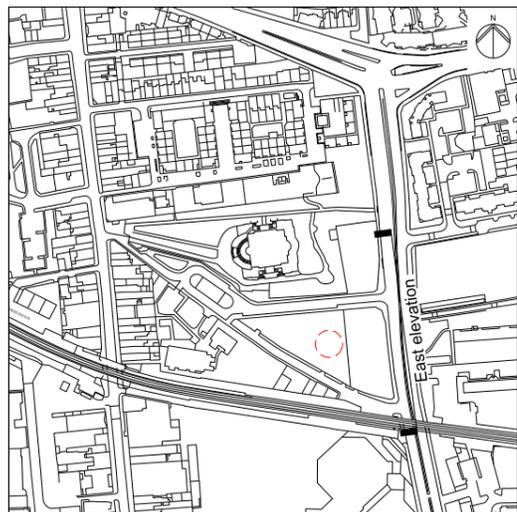
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Location
Deptford Church Street
London Borough of Lewisham

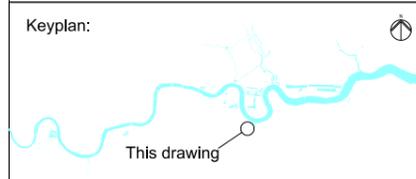
Document Information
Application for Development Consent
Section AA

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DCO-PP-22X-DEPCS-230009
January 2013



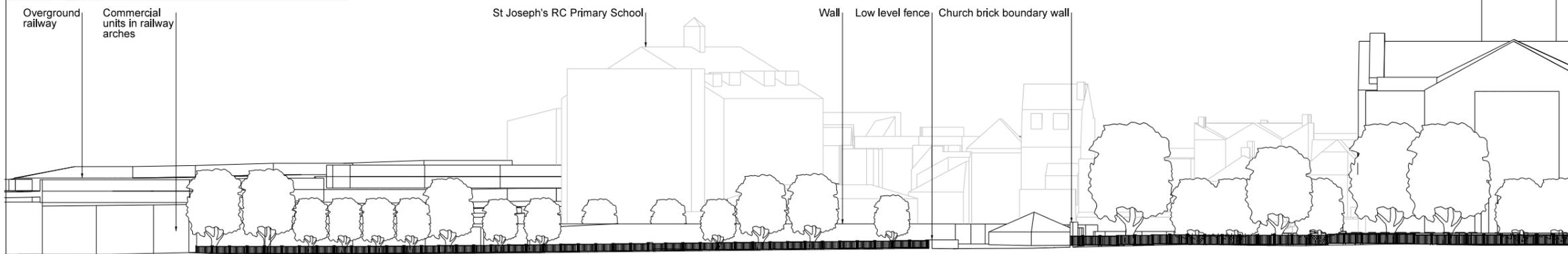


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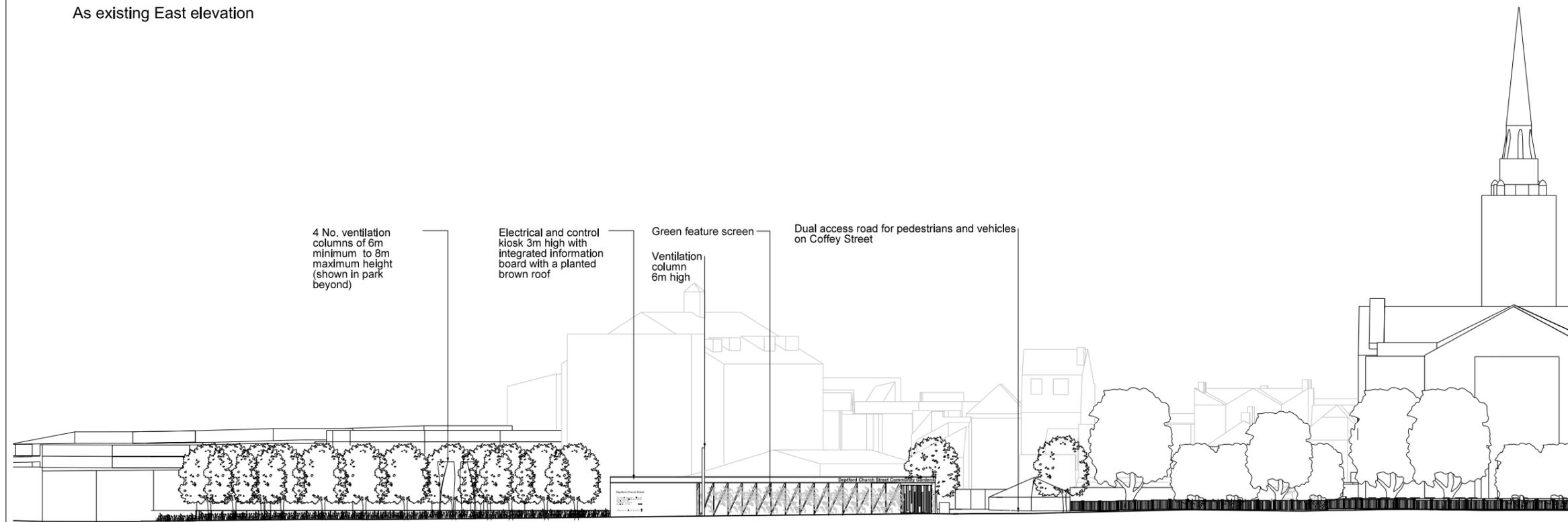
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Notes:
1. All dimensions and levels are approximate.



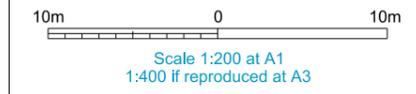
Crossfield Street Crossfield open space Coffey St. Church grounds St. Paul's Church

As existing East elevation



Open space Shaft site Green feature screen Coffey Street

As proposed East elevation



ILLUSTRATIVE

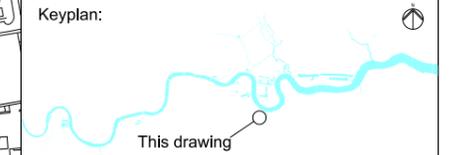
Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
As existing and proposed
East elevation
Book of plans - section 23
DCO-PP-22X-DEPCS-230010
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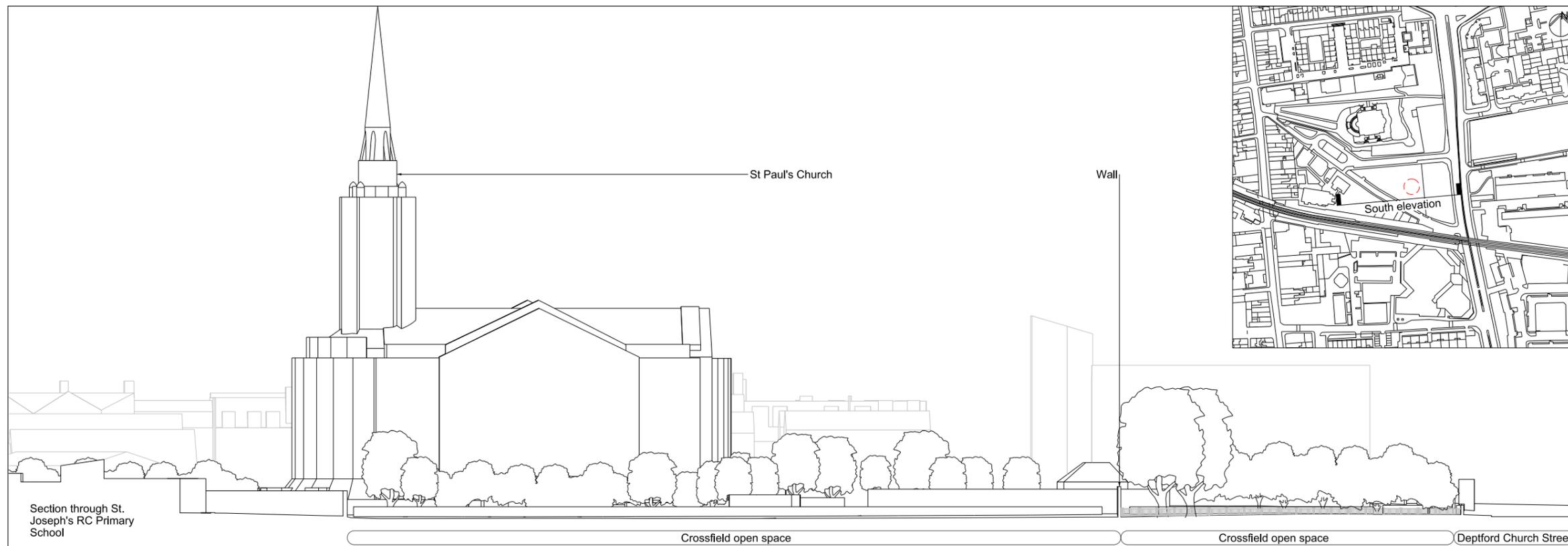


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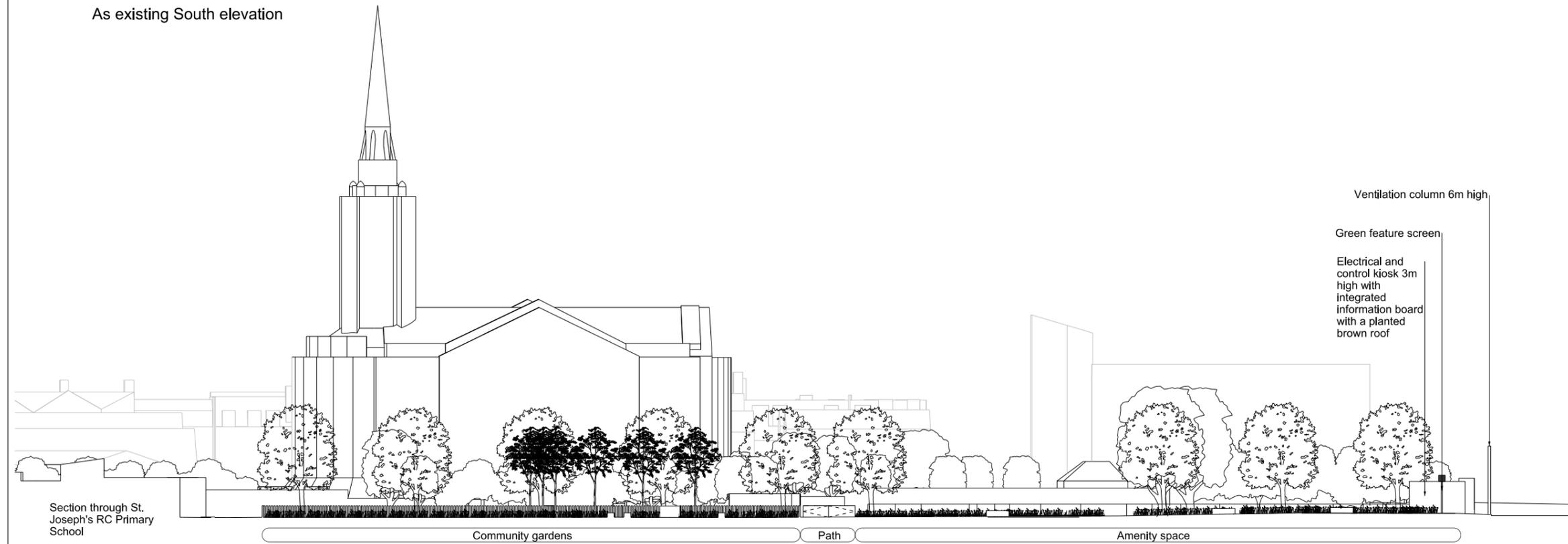
Keyplan:



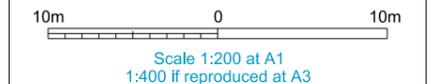
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.



As existing South elevation



As proposed South elevation

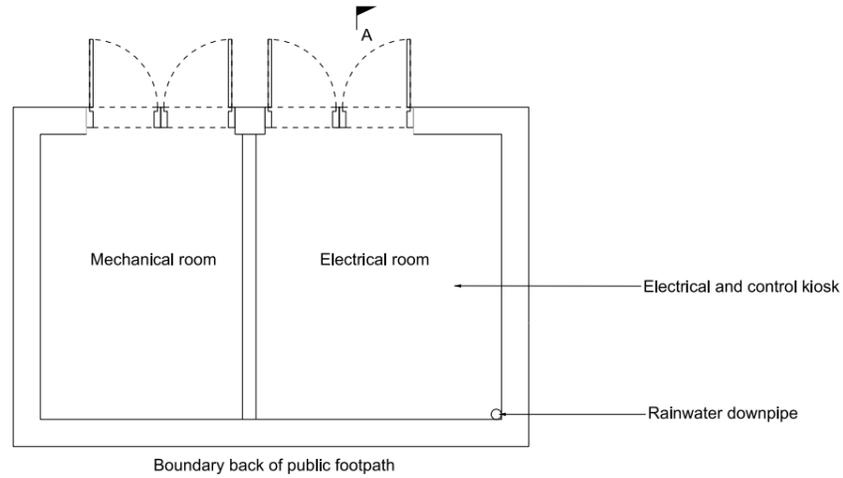
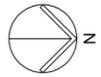


ILLUSTRATIVE

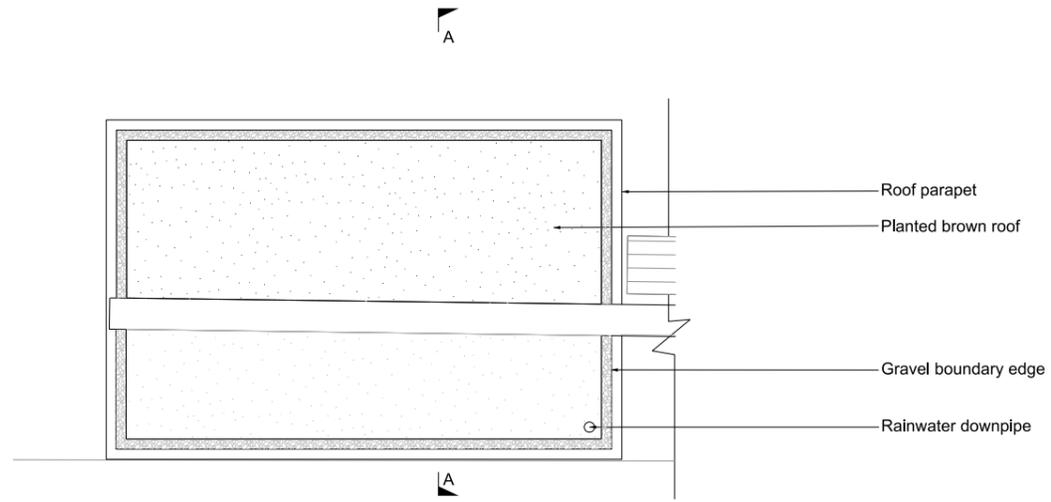
Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
As existing and proposed
South elevation
Book of plans - section 23
DCO-PP-22X-DEPCS-230011
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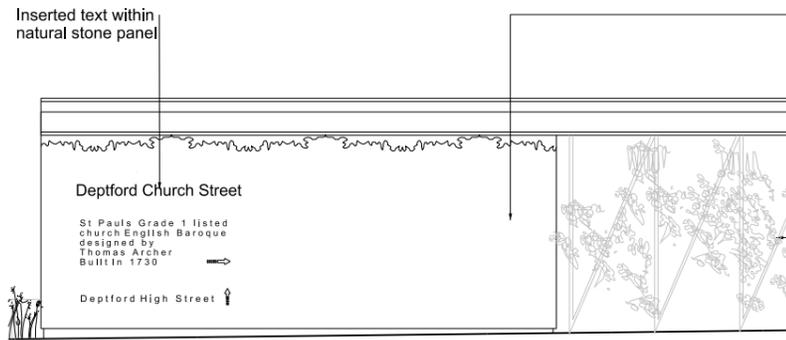




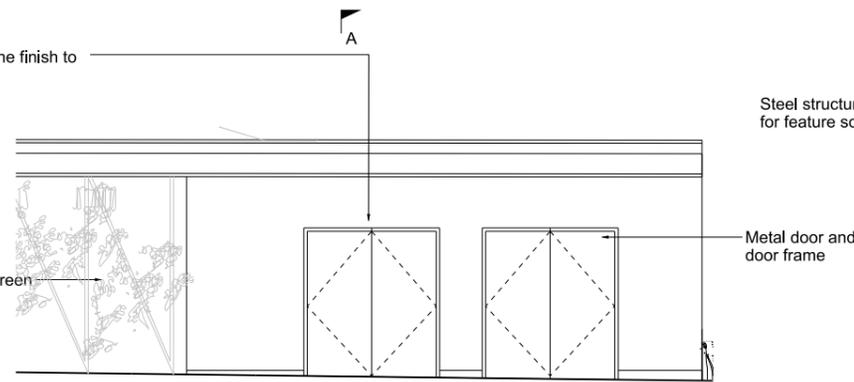
Plan at Ground Level



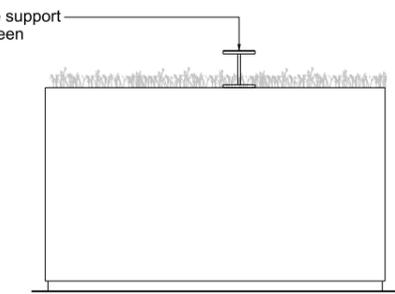
Roof Plan



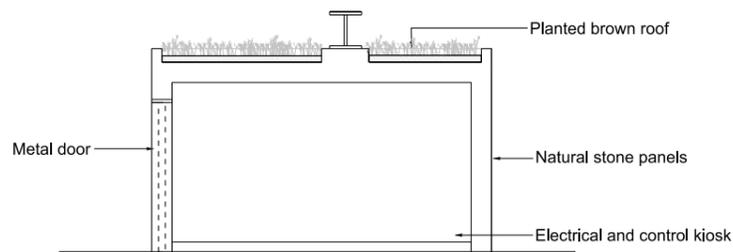
East Elevation



North Elevation

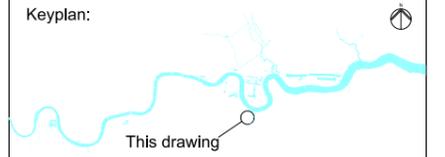


West Elevation

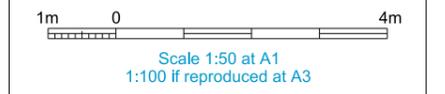


Section AA

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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.



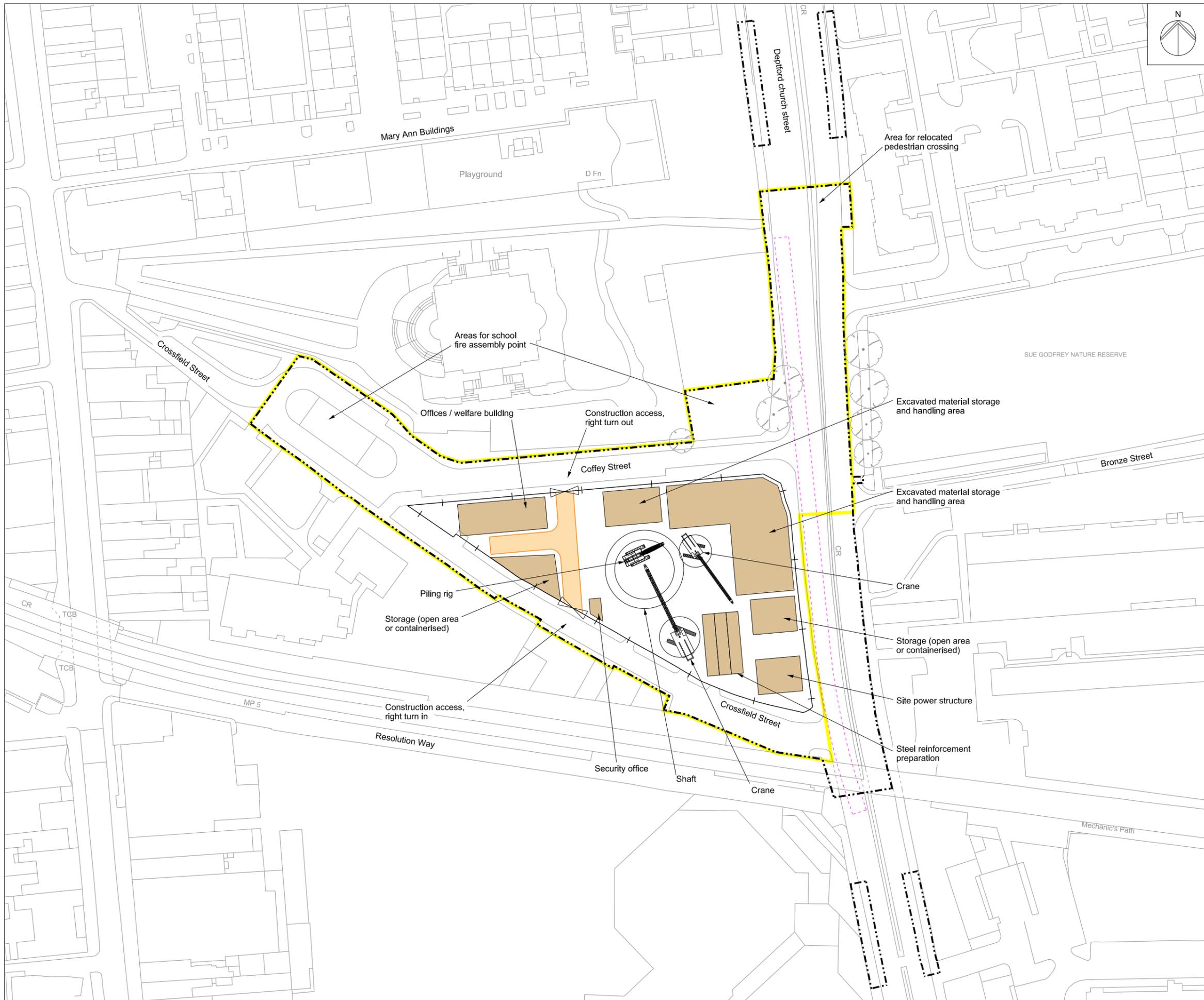
ILLUSTRATIVE

Location
Deptford Church Street
London Borough of Lewisham

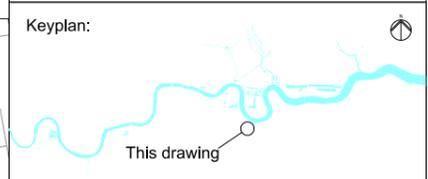
Document Information
Application for Development Consent
Kiosk design intent

Book of plans - section 23
DCO-PP-22X-DEPCS-230012
January 2013





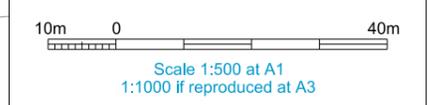
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Site access
 - Access / haul route
 - Existing sewers

- Notes:**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
 2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
 4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.

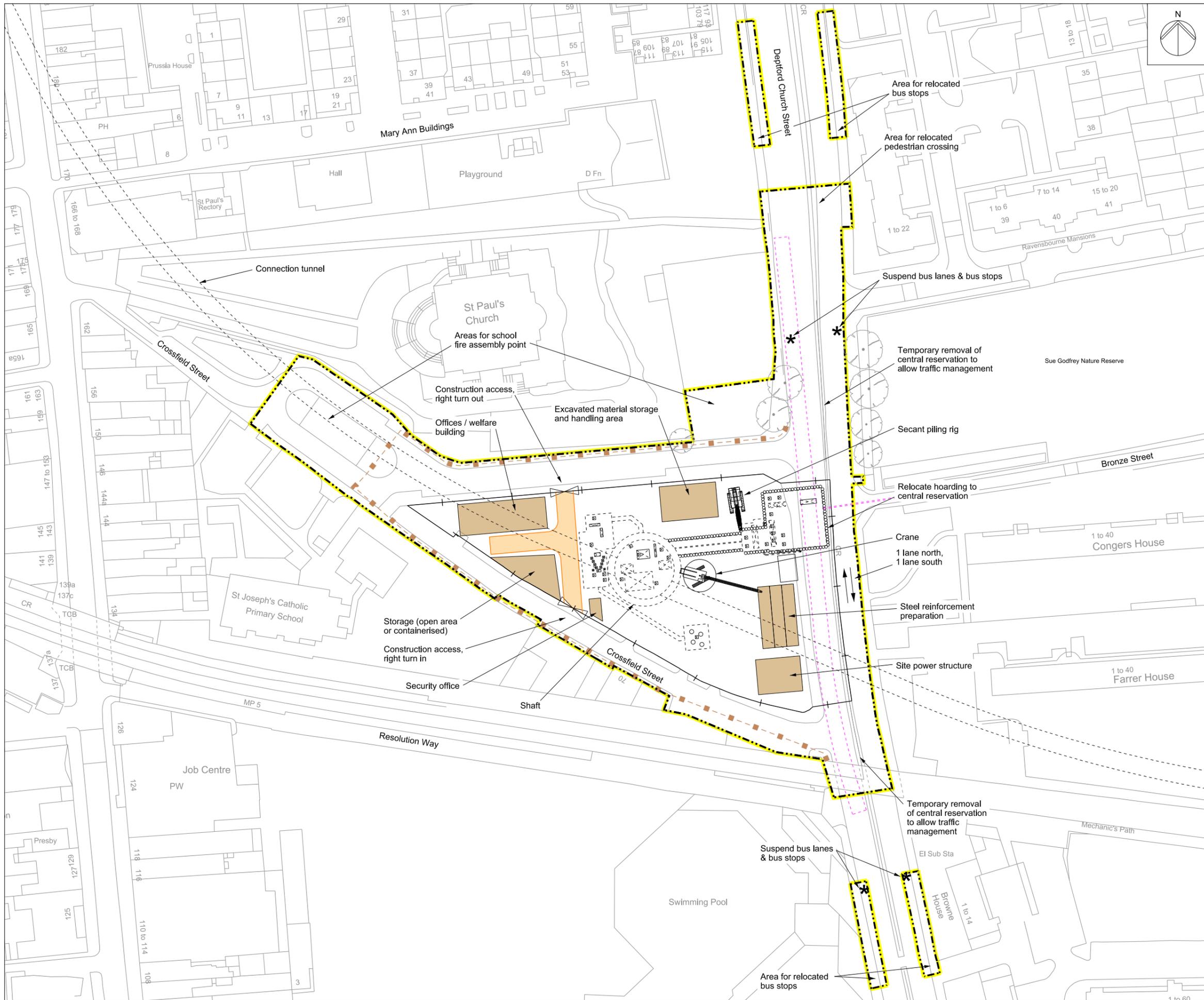


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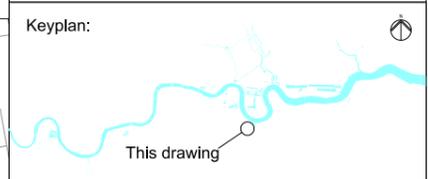
Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
Construction phases - phase 1
Site setup & shaft construction
Book of plans - section 23
DCO-PP-22X-DEPCS-230013
January 2013





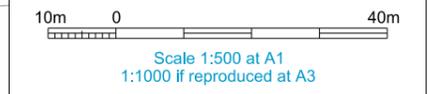
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Route of temporary diversion of footway
 - Site access
 - Access / haul route
 - Existing sewers

- Notes:**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
 2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
 4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.

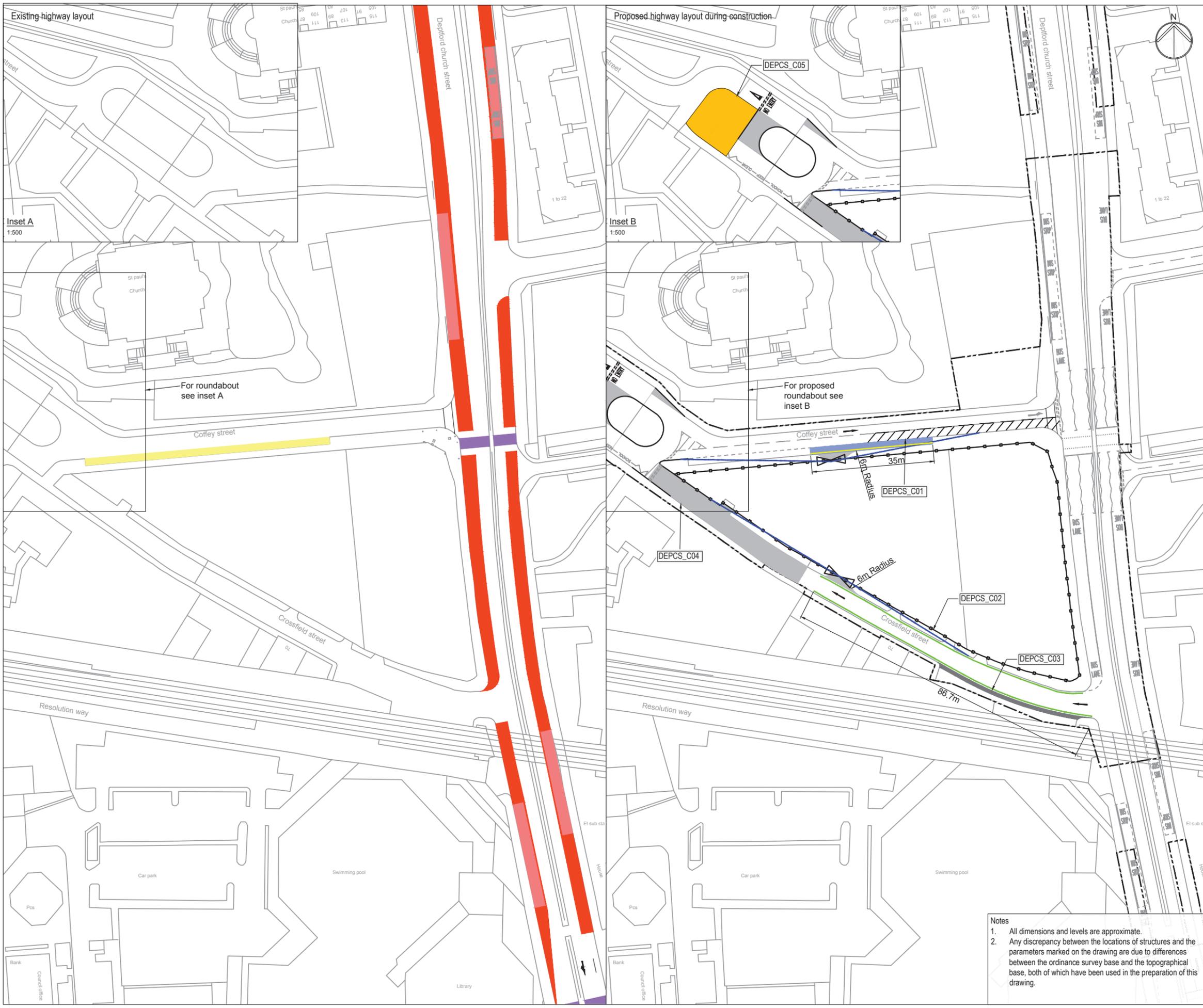


ILLUSTRATIVE

Location
Deptford Church Street
 London Borough of Lewisham

Document Information
Application for Development Consent
 Construction phases - phase 2
 Construction of other structures
 Book of plans - section 23
 DCO-PP-22X-DEPCS-230014
 January 2013





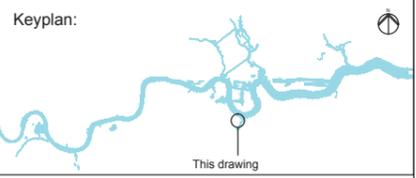
Existing highway layout

Inset A
1:500

Proposed highway layout during construction

Inset B
1:500

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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing
 - On street parking
 - Bus stop / stand
 - Bus lane
 - Pedestrian crossing
 - Cycle lane / advance stop line
- Revised**
- L.L.A.U.
 - Removal of footway / central reserve / pedestrian refuge / verge
 - Suspended on street parking
 - Temporary pedestrian area
- DEPCS CODE**
- See schedule of works
 - Hoarding line
 - Site access
 - Temporary parking restrictions
 - Visibility splay - 2.4m x 43m (ssd adjust for bonnet length)
 - Temporary footway

On street parking

Bus lane
bus / cycle / taxi lane
7:00am - 7:00pm

On street parking
unrestricted parking
at all times

- Standards**
- Design manual for roads and bridges, DfT, 1992
 - Traffic signs regulations & general directions, TSO, 2002
 - Traffic signs manual, DfT, 2006
 - Manual for streets, DfT, 2007
 - Manual for streets 2, CIHT, 2010
 - Designing for deliveries, Fta, 1998
 - Cycle infrastructure design Ltn 2/08, DfT, 2008
 - Design of pedestrian crossings Ltn 2/95, DfT, 1995
 - Guidance for the use of tactile paving, DfT, 1998
 - Accessible bus stop design guidance, TfL, 2006

Stage
Construction phase

Scale 1:500 at A1
1:1000 if reproduced at A3

ILLUSTRATIVE

Location
Deptford Church Street
London Borough of Lewisham

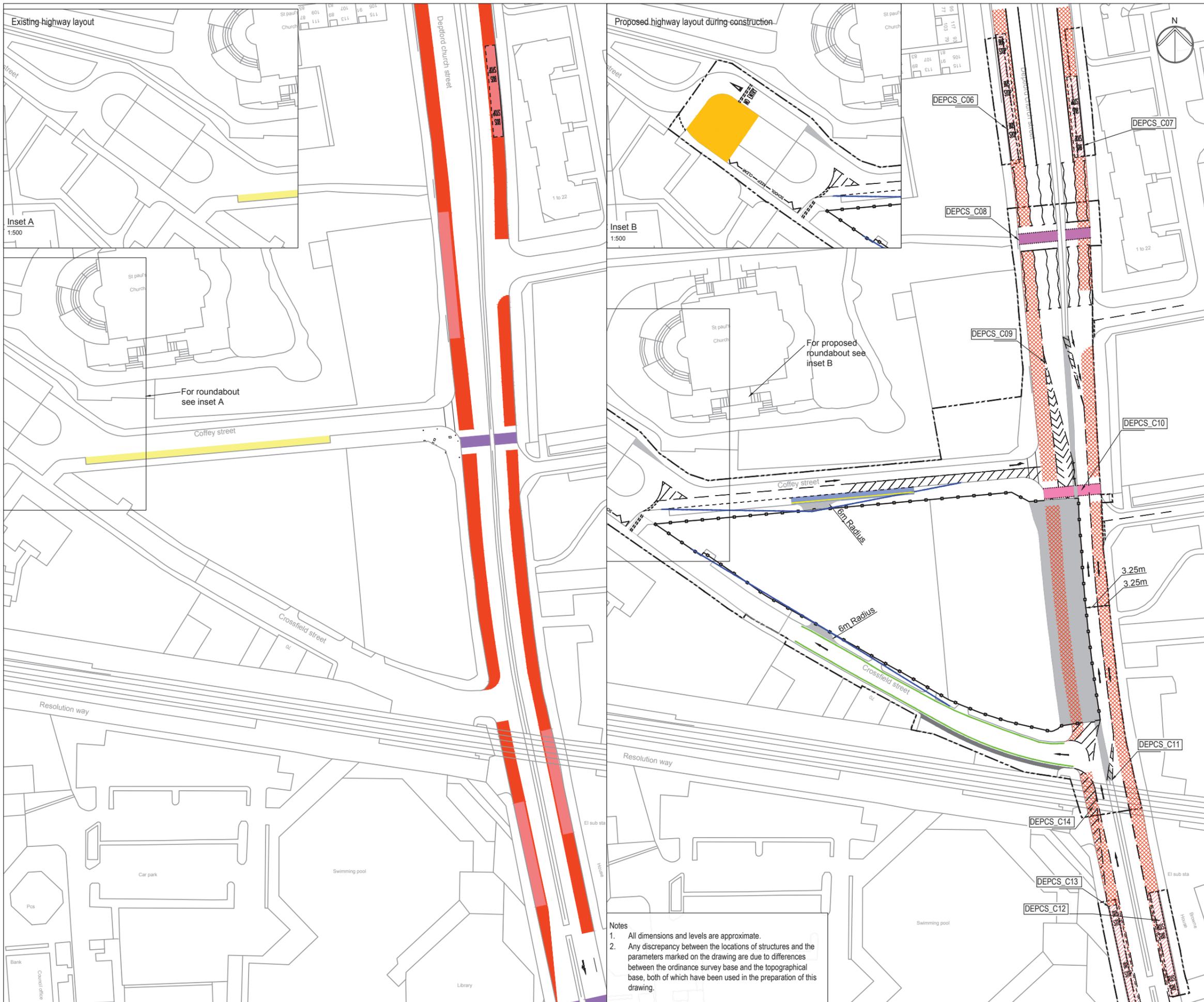
Document Information
Application for Development Consent
Highway layout during construction
Phase 1

DCO-PP-22X-DEPCS-230017
January 2013



Notes

1. All dimensions and levels are approximate.
2. Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the Ordnance Survey base and the topographical base, both of which have been used in the preparation of this drawing.



Existing highway layout

Proposed highway layout during construction

Inset A
1:500

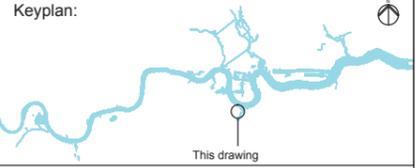
Inset B
1:500

For roundabout see inset A

For proposed roundabout see inset B

Notes
 1. All dimensions and levels are approximate.
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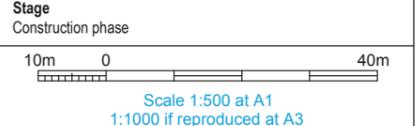


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing**
- On street parking
 - Bus stop / stand
 - Bus lane
 - Pedestrian crossing
 - Cycle lane / advance stop line
- Revised**
- L.L.A.U.
- Removal of footway / central reserve / carriageway / verge
 - Suspended on street parking
 - Relocated pedestrian crossing
 - Suspended pedestrian crossing
 - Temporary pedestrian area
 - Suspended bus stop / bus lane
 - Temporary bus stop
 - See schedule of works
 - Hoarding line
 - Site access
 - Temporary parking restrictions
 - Visibility splay - 2.4m x 43m (ssd adjust for bonnet length)
 - Temporary footway

- On street parking**
- Bus lane
 - bus / cycle / taxi lane
 - 7:00am - 7:00pm
 - On street parking unrestricted parking at all times

- Standards**
- Design manual for roads and bridges, Dft, 1992
 - Traffic signs regulations & general directions, TSO, 2002
 - Traffic signs manual, Dft, 2006
 - Manual for streets, Dft, 2007
 - Manual for streets 2, CIHT, 2010
 - Designing for deliveries, Fta, 1998
 - Cycle infrastructure design Ltn 2/08, Dft, 2008
 - Design of pedestrian crossings Ltn 2/95, Dft, 1995
 - Guidance for the use of tactile paving, Dft, 1998
 - Accessible bus stop design guidance, TfL, 2006



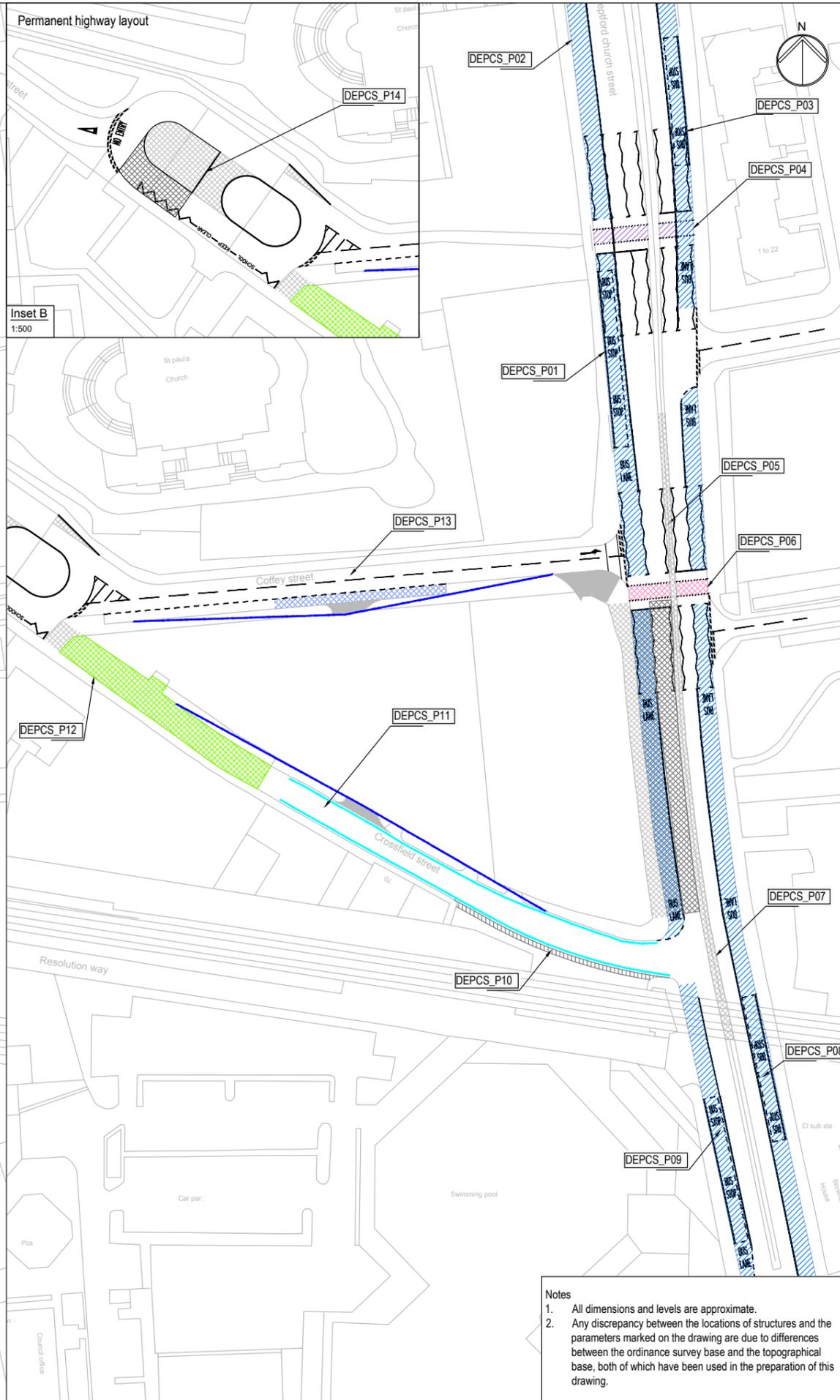
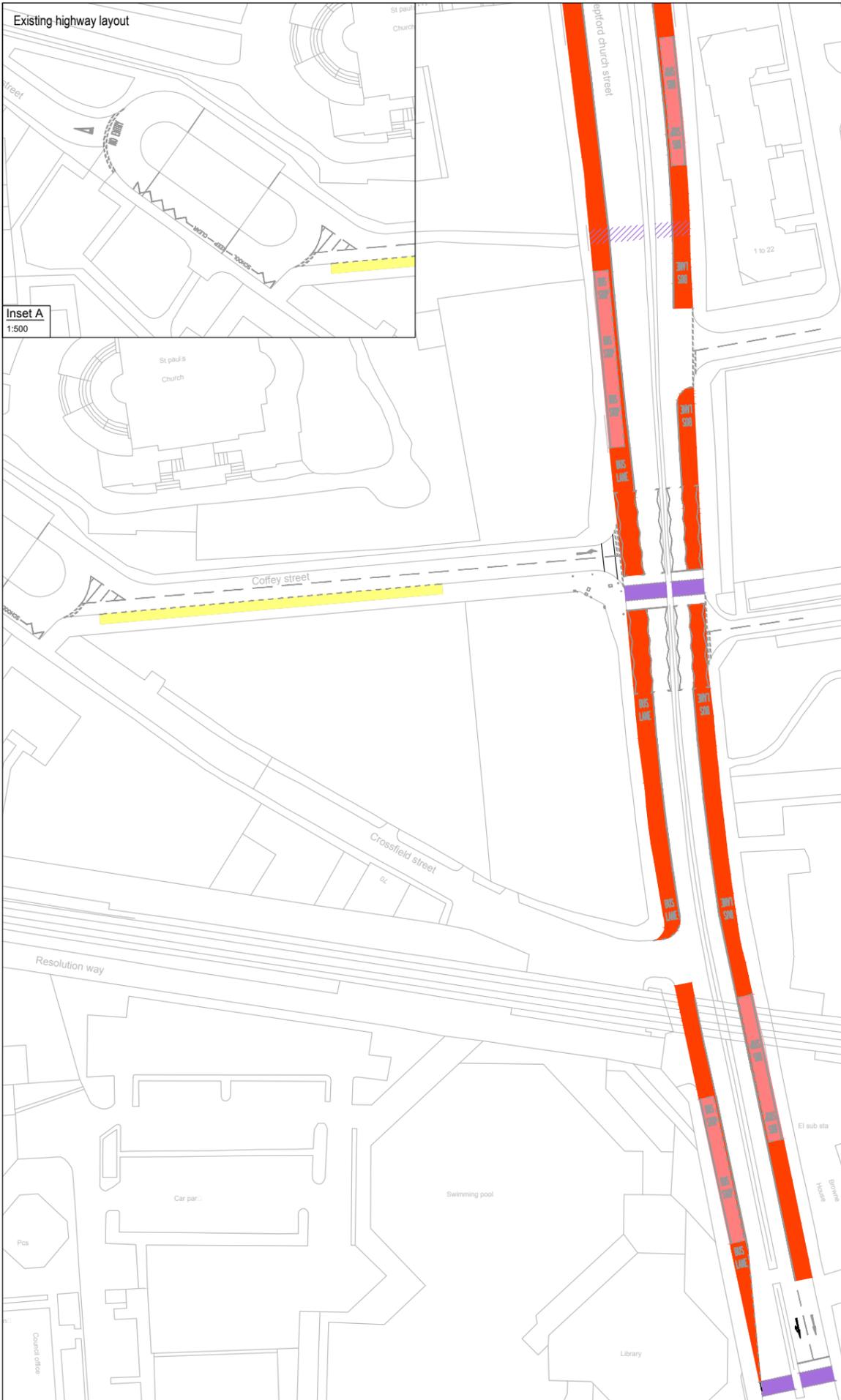
ILLUSTRATIVE

Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
Highway layout during construction
Phase 2

DCO-PP-22X-DEPCS-230018
January 2013





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Keyplan:

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Key

Existing

- On street parking
- Bus stop / stand
- Bus lane
- Pedestrian crossing
- Cycle lane / advance stop line

Revised

- Reinstated footway / central reserve / pedestrian refuge / verge
- Reinstated verge
- Reinstated carriageway
- Reinstated on street parking
- Reinstated pedestrian crossing
- Reinstated bus stop / bus lane
- Pedestrian crossing removed
- Temporary footway route removed

DEPCS P00

- See schedule of works
- Remove temporary parking restrictions
- Vehicle crossover
- Visibility splay - 2.4m x 43m (ssd adjust for bonnet length)

On street parking

Bus lane
bus / cycle / taxi lane
7:00am - 7:00pm

On street parking
unrestricted parking
at all times

Standards

- Design manual for roads and bridges, Dft, 1992
- Traffic signs regulations & general directions, TSO, 2002
- Traffic signs manual, Dft, 2006
- Manual for streets, Dft, 2007
- Manual for streets 2, CIHT, 2010
- Designing for deliveries, Fta, 1998
- Cycle infrastructure design Ltn 2/08, Dft, 2008
- Design of pedestrian crossings Ltn 2/95, Dft, 1995
- Guidance for the use of tactile paving, Dft, 1998
- Accessible bus stop design guidance, TfL, 2006

Stage
Permanent phase

10m 0 40m
Scale 1:500 at A1
1:1000 if reproduced at A3

ILLUSTRATIVE

Location
Deptford Church Street
London Borough of Lewisham

Document Information
Application for Development Consent
Permanent highway layout

DCO-PP-22X-DEPCS-230019
January 2013

Notes

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Thames Water Utilities Limited

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