

Northern line extension Core Community Liaison Group Meeting 30.07.2015







Summary Update



- Code of Construction Part B (COCP B) approved earlier in the year
- Enabling and site establishment works started March 2015 and site accommodation is ready at Montford Place and Nine Elms. Progress is ongoing on all four sites
- Office cabins at Battersea have been installed and fit out is ongoing to allow project team to move in later this summer.
- Community Drop in Sessions held during April, May, June and July of 2015 at Kennington, Nine Elms and Battersea
- NLE 24/7 Helpdesk now on Option 1 of TfL number 0343 222 2424







NLE Summary timetable



Year	Key milestones
2014	Transport and Works Act Order decision, Design & Build contract signed
2015	Agreement on Code of Construction Practice Part B Start of main works at all sites
2016	Start of Tunnel Boring Machines
2017	Completion of tunnelling
2018	Fit out of new stations, Kennington shafts complete inc reinstatement, work at Kennington station complete
2019	Testing, commissioning, trial operations
2020	NLE complete and in service







Kennington Green progress



Year	Key milestones
• Mar- Jun 15	 Site establishment Obstruction clearance Surveying works Starting of diversionary utility works
• Jun – Aug 15	 Commence Kennington Road Installation of Hoarding on Green Removal Gingko tree Install Traffic Management for north and south utilities works Install Piling Mat Appoint pilling contractor
• Sep – Nov 15	 Complete pre-construction utilities diversionary works Install guide walls Commence Secant Piling Demolish Chivas wall by Montford Place







Summary Update March-June 2015







1) Cabin install at Montford Place



2) Traffic Management in place



3) Multi Utility Trench



4) Installation of Substation bases



5) Service trial holes



6) Montford Place Compound Set-up









Kennington Park progress

Year	Key milestones
• Mar- Jun 15	 Site establishment Obstruction clearance Surveying works Starting of diversionary utility works
• Jun – Aug 15	 Commence and complete hoarding Install construction accommodation onsite Demolish lodge Lay piling mat Complete surveys Appoint piling contractor Progress utilities diversionary works
• Sep – Nov 15	 Complete pre-construction utilities diversionary works Install guide walls Commence Secant Piling







Kennington Park March-June 2015





1) Hoarding Install



4) Laying New Gas main



2) Demolition of Lodge



5) Topsoil strip



3) Closing of Road for Gas Diversion



6) Piling Mat Install







Nine Elms progress



Nine Elms	Enabling Works
Mar – Jun 15	 Hoarding installation Installation of office cabins. Substation foundations Access ramp in Pascal Street Tarmac removal and piling mat excavation Piling mat construction Obstruction removal Boiler House and Covent House demolition. Chimney demolished
Jun – Sept 15	 Demolition of Banham's building Installation of hoarding and scaffold erection at the front of Banham's building Continue obstruction removal and build of piling platform and guide wall Piling enabling works (bentonite plant construction) Piling works in former Sainsbury's car-park Exit gate in Pascal Street will be used for site traffic Hoarding graphics installed to TfL standards







Nine Elms Update March-June 2015



FERROVIAL AGROMAN LAING O'ROURKE JV



1) Hoarding installation



2) Installation of office cabins. Fit-out being carrying out



3) Substation foundations



4) Access ramp in Pascal Street



5) Tarmac removal and piling mat excavation



6) Piling mat construction







Nine Elms Update March – June 2015





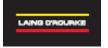


7) Obstruction removal



9) Covent House demolition







8) Boiler House demolition



10) Demolition of Chimney



Battersea Progress and Update



Year	Key milestones
Mar - Jun 15	 Surveys. Radar detection from ground level Construction of conveyor foundations Hoarding Survey Hoarding Installation Preparation site and sheet piling operations Continue diaphragm walling
July - Sept 15	 Install conveyor to Jetty Install tie-backs around sheet pile wall Install and commission Bentonite Plant Complete 4 storey office installation Provide access road around Crossover Box Complete services laying to site in Battersea Park Road (traffic management needed) Commence diaphragm walling operations
Oct - Dec 15	 Commence bored piling and plunge column installation Install new site access road and pedestrian crossing (continuation of traffic management scheme) Capping beam construction Commence excavation operations inside the Crossover Box







Battersea Progress Mar – June 15









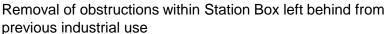
Battersea Crossover Box sheet piling operation completed

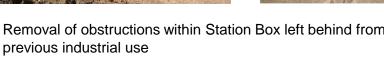
Conveyor Belt installation



Site Accommodation Establishment













Code of Construction Practice Part B



- The Code of Construction Practice was approved by the London Boroughs of Wandsworth and Lambeth in May. Consulted also with Southwark.
- The requirements of the Code of Construction Practice parts A and B have been incorporated into the FLO practices and procedures
- Core working hours are from
- 08:00 to 18:00hrs Monday to Friday and
- 08:00 to 13:00hrs on Saturdays







Update – Ground Investigations



- The NLE team is approaching completion of what is called concept design
- Early findings are consistent with expectations
- Compensation grouting is to be eliminated from the project.
 Detailed design planning has reduced the size of the two step plate junctions length. Armed with a smaller footprint, predicted settlement extents are reduced.
- Ground Conditions for tunnelling are predominantly London Clay, an ideal tunnelling medium.







Update – Ground Investigations



- Groundwater The step plate junction (SPJ) is predominately within a full face of impermeable London Clay.
- The invert of the Southbound SPJ (Kennington Park shaft) is adjacent to the bottom of London Clay / Top of the water bearing Lambeth Group.
- Local "de-pressurisation" wells from within the tunnel maybe utilised. Large scale dewatering will NOT be required.
- Tunnelling The main tunnel will be driven utilising a new Earth Pressure Balance Tunnelling Boring Machine. This will control settlement to tight acceptable parameters.
- Arrangements for archaeological works are being progressed







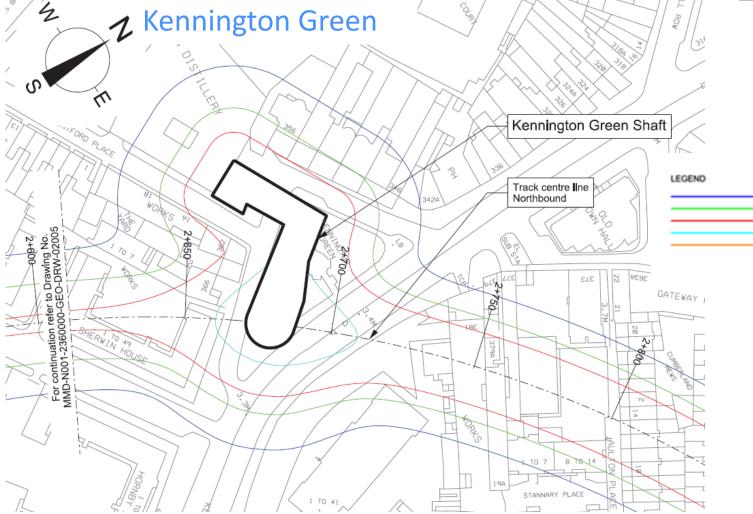


LAING O'ROURKE JV

1mm Settlement

5mm Settlement 10mm Settlement

25mm Settlement 50mm Settlement

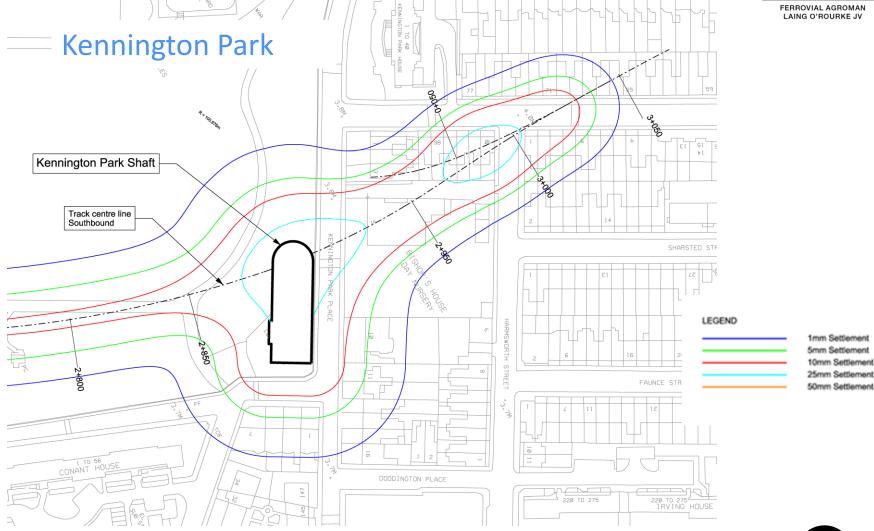
















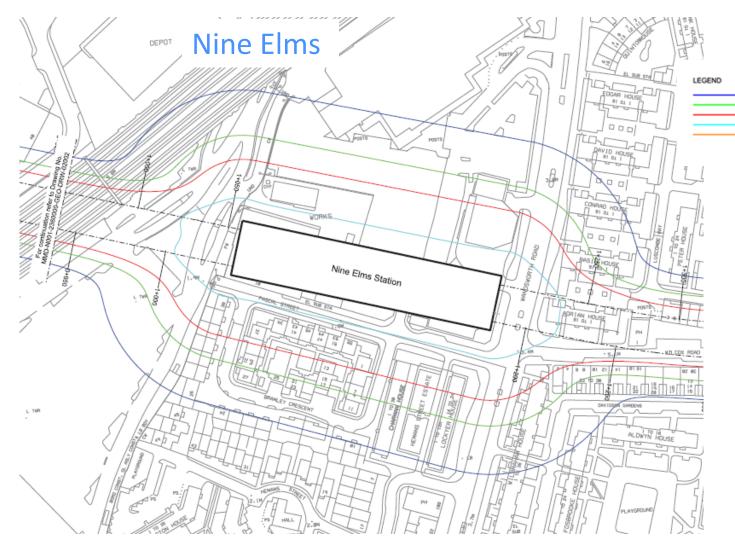




LAING O'ROURKE JV

1mm Settlement 5mm Settlement

50mm Settlement











LAING O'ROURKE JV







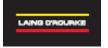


Defect / Condition Surveys



- To be undertaken on properties predicted to <u>experience 1mm or more settlement.</u>
- TfL has started contact to affected properties via introductory letter.
- Subcontract awarded to CPM Surveys Ltd.
- Defect Surveys progress:
 - 75 % of the properties within the zone of influence of the pilling works in the south area of Nine Elms have now been sucessfully completed.
 - Surveys commenced in July to properties around the Kennington shafts and to continue through August to ensure they are undertaken no earlier than 12 weeks, and no later than 4 weeks prior to the commencement of construction of the relevant part of the works.
- In areas of Spray Concrete Lining (SCL) works and Step Plate Junctions surveys will be undertaken at a later date in advance of construction (second half of 2016 and first half of 2017)
- Where necessary, a second survey will be undertaken to establish the difference between the two assessments. Report is photographic and written.





Settlement Deeds



- TfL has contacted affected properties via letter about Settlement Deeds.
- Settlement deeds have been offered to property owners where the property falls within the NLE Limits of Deviation (limits on which the NLE tunnels are to be built)
- A further letter, answering Frequently Asked Questions, was sent out following the initial one.
- Differences between Settlement deeds and Defect Surveys discussed at March and June 2015 CLG meetings.







Instrumentation & Monitoring



- Consultants finalising damage assessments which will inform the detailed monitoring scope which is crucial for programme success required in this period.
- Monitoring tender returns are currently under review. Monitoring subcontract award is imminent.
- A minimum of 4 weeks notice is given to building owners prior to the installation of monitoring equipment.
- Monitoring equipment will comprise Building Research Establishment (BRE) studs (structure levelling studs) and 3D geodetic prisms.
- Installation of ground monitoring studs around shafts/stations areas commenced April 2015. Base readings have been taken.
- Installation of BRE and Prisms started already in the residential area at the south of Nine Elms.







Monitoring techniques Buildings – Real time data: 3D geodetic prisms







Automatic Total Station (ATS)



ATS: an electrical/optical instrument used in modern building construction to measure slope distances from the instrument to a particular point.







Monitoring techniques Buildings – Manual data:



BRE studs (structure levelling studs)









Construction Environmental Monitoring



- Works have been assessed using the NLE construction noise and vibration mitigation scheme and no properties were found to be above the threshold for secondary glazing or temporary re-house
- Unattended noise monitors are installed at Kennington Green.
- Unattended monitoring for Battersea and Nine Elms will also be completed over the coming weeks.
- Attended monitoring is currently being undertaken by specialist consultant (Temple) on all sites.
- Noise predictions show that an acoustic shed will be needed at Kennington sites to minimise the noise associated with 24/7 tunnelling works.
- Noise modelling is being updated from the Environmental Statement, to include more detailed construction methodologies and mitigation measures for the duration of the scheme





Construction Environmental Monitoring...



- Passive dust monitoring in place. Dust glass slides installed at strategic locations outside sites boundaries. Data analysed on a fortnightly basis.
- Unattended air quality monitoring to be installed within 6 weeks.
 Prior to major sites works commencing.
- Noise predictions will be reviewed on a 6 monthly basis to capture any design changes and informs Section 61 consents
- Best Practicable Means will be applied to mitigate noise and vibration at source
- We are contacting other developers and Nine Elms on the Southbank to share data







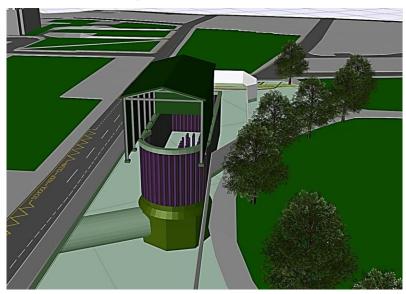
Proposed Acoustic Enclosures



Kennington Green



Kennington Park



- Dimensions : Approx. 14m high x 34 long x 18m wide
- In place for over 18months whilst tunnelling operation is ongoing
- Colour to complement the existing environment







Traffic Management Plans



- Traffic Management Plans are with Local Authorities. Approval sought for every change
- Val Shawcross, AM, visited Kennington with community representatives to review all traffic management plans
- Vehicles entering and leaving are being modelled for traffic flows
- Road sweepers will operate in the area as required
- LGVs vehicle drivers are required to be trained and vehicles required to comply with cycle safety legislation. NLE check and audit these requirements
- Traffic Management regularly reviewed and adjusted. TfL Surface ride cycle routes integrated into temporary traffic management and road schemes

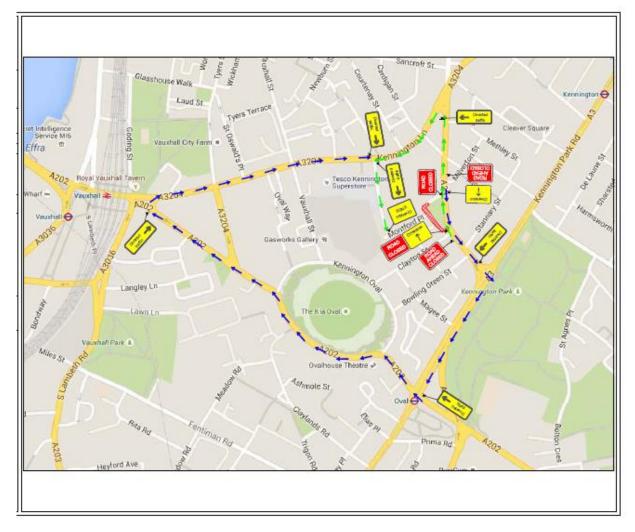






Traffic Management Plan Kennington Green August 2015







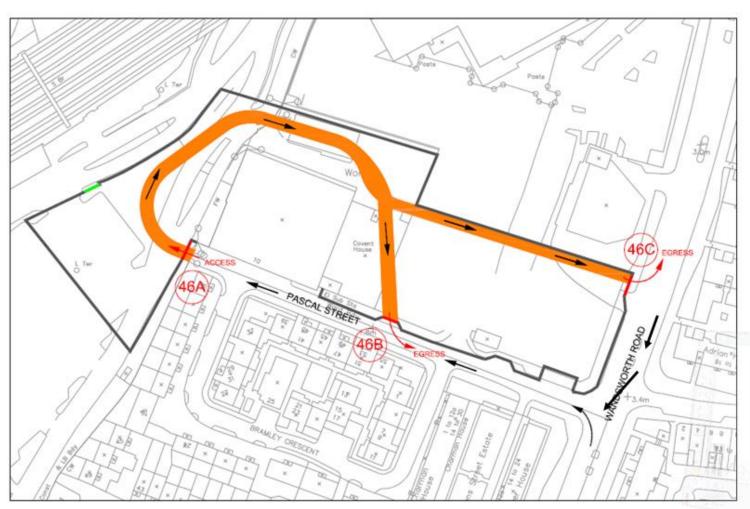




Traffic Management Plan Nine Elms 2015



FERROVIAL AGROMAN LAING O'ROURKE JV



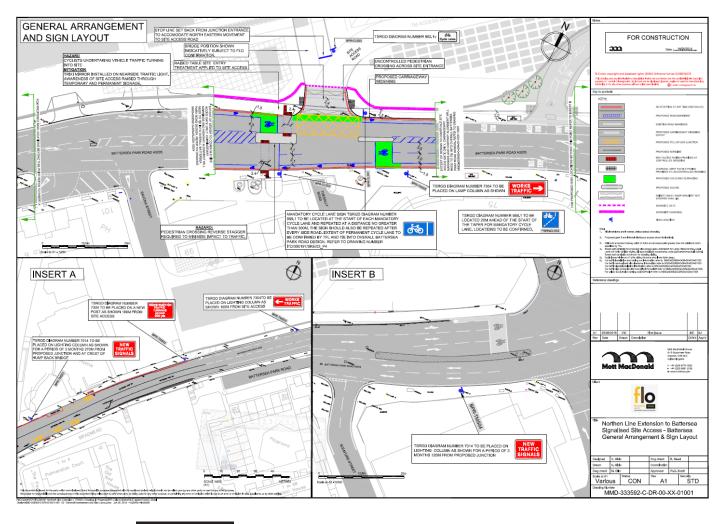






Traffic Management Plan Battersea from October 2015







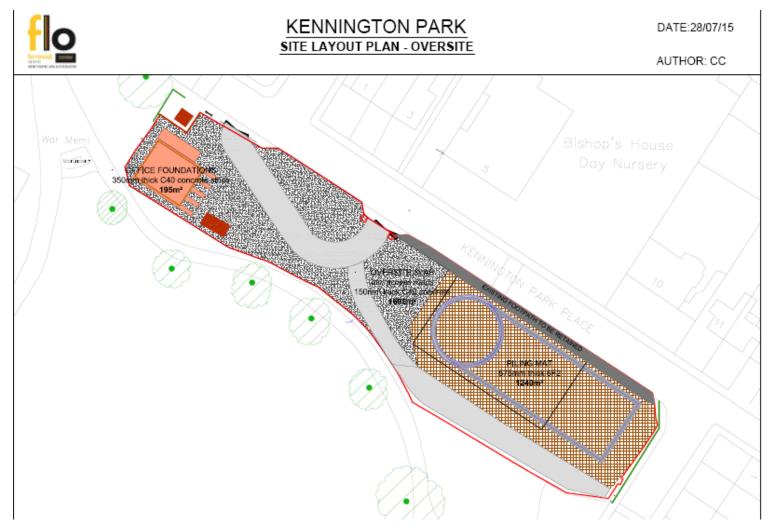




Traffic Management Plan Kennington Park



LAING O'ROURKE JV









Traffic Management Plans





Traffic management around Kennington Green June 2015



Battersea Road June 2015





Lorry movements.

- Montford Place used as lorry holding for Kennington Park and Kennington Green.
- Peak Lorry Movements to date at Battersea 40 movements per day average 28
- Av. movements Nine Elms 20 per day
- Av. Kennington's sites & Montford 20 total



Hoardings

- Hoardings procured for all sites and installed at Nine Elms and Kennington Park
- TfL design team working on design options sympathetic with the environment.
- Hoardings will be 2.4 metres high
- Corporate TfL standards to be followed
- Battersea hoardings to be updated and new graphics to be installed to recognise NLE presence













Consents



Key approvals granted since the last CLG meeting	AN
Code of Construction Practice Part B (planning condition 7) – all sites	L B Lambeth, Wandsworth
All sites – application to discharge planning condition 10 - Archaeology – all sites	L B Lambeth, Wandsworth
Approval of the Yellow Box Junction (planning condition 18) – Kennington Park	LB Southwark
Marine approvals (TWAO protective provisions) - Battersea	Environment Agency, Marine Management Organisation, Port of London Authority

Current applications under determination	
Removal of a single tree (planning condition 5)– Kennington Green	LB Lambeth
Application for the fixing of monitoring to Listed structures (planning condition 11)– Kennington Park and Kennington Green	LB Lambeth and LB Southwark







NLE Complaints summary



- 63 registered complaints since 1st April
- 98% Closed
- Main issues around traffic management, site management
- NLE is coordinating with other developers for interfacing complaints procedures.
- Helpdesk issues are now resolved and there is an Option 1 for NLE.
- Feedback received on complaints handling positive but needs to improve





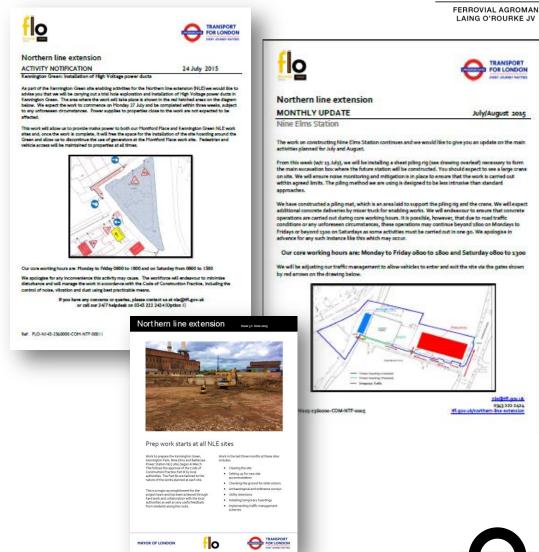




Updates and newsletters

flo

- Activity Notifications are being sent to notify works on all four sites
- Emailing list is updated regularly and notifications are also sent electronically
- TfL NLE Quarterly
 Newsletters sent in March
 & June 2015
- Once site offices are completed, the intention for Flo to have regular site "Surgeries" between CLG meetings, so that the community members can visit and speak to site staff should they have concerns or queries.







Skills and apprenticeships



- Employment & Skills targets agreed with TFL Supplier Skills team
- Targets outline various opportunities for workless people in London including placement & taster positions, apprenticeships, skills development for staff, engagement with schools
- Delivery Plan for Schools and Young People currently being developed with LA and TfL.
- FLO offered 5 work experience placements for students from Ernest Bevin College, Wandsworth from the 22 June – 3rd July 2015, 4 students attended and gained experience across the 3 sites and various office functions
- Dates being discussed with BEST for work experience academic year 2015/16
- FLO currently have 2 candidates on work placement from the Southwark charity 2nd Chance for 2 days per week for 8 weeks in site based roles

Employment/Skills/Diversity on the NLE programme

- FLO is working in partnership with TfL and the local authorities including the Nine Elms Vauxhall Strategy Board Employment, Training & Business Charter, Wandsworth Chamber of Commerce and Nine Elms Supply Chain
- Processes being implemented to ensure employment / training opportunities are advertised through the local borough brokerages across Southwark, Lambeth & Wandsworth
- Engagement with our supply chain to ensure they follow same processes as well as developing targets for the sub-contractors around employment & skills







Jobs and Business Opportunities

LAING O'ROURKE JV

- Attended the Nine Elms Regeneration event at Lambeth College careers fair in July 2015
- Will also attend a similar event in Wandsworth on 6th August
- Vacancies advertised so far:
 - Receptionist (1 candidate offered)
 - IT Technician (2 candidates submitted)
 - Cleaners x 2 (2 candidates submitted)
 - IT Assistant (2 candidates submitted)
- Opportunities will increase as work progresses
- Small and medium business had the opportunity to meet with major contractors at an event in BPSD.
 FLO in attendance.
- FLO continues to engage with small and medium companies through events and endeavours to recruit / source locally when possible.









Community engagement strategy

- Site specific strategy 6 month Look Ahead.
- Includes community comments and forecast activities
- 6 months look ahead includes:
- Engagement with local groups
- Community Drop-in sessions
- School activities (Started Sacred Heart School, Southwark)
- Identification of new resident groups



Ernest Bevin College Student . Work Experience







LAING O'ROURKE JV

THANK YOU







