NORTH OF THE RIVER TYNE

Northern approaches and toll plaza
Tunnel portal
Shallow cut and cover section
Crossover section
Tyne View Terrace
Deep cut and cover
Transition structure

Aerial photograph 08 September 2009
NORTHERN APPROACHES
Southbound toll plaza

Bulk earthworks for southbound toll plaza complete

Position of toll booths
Toll plaza building location
Existing tunnel ventilation building

Tunnel portal
Bus link to East Howdon bypass roundabout

Aerial photograph 08 September 2009
TUNNEL PORTAL
P1 AND P2 RETAINING WALLS

Bulk excavation works complete through north tunnel sections

Future works to construct base slabs between P1 and P2 retaining walls

Photographs 16 September 2009

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
NORTH CUT AND COVER
Crossover section

Base slabs now complete through crossover section
Crossover section backfilled and base slabs complete

View through crossover section looking south

View south from inside crossover section

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
NORTH CUT AND COVER
Deep excavation south of Tyne View Terrace

Escape passage

View south within deep excavation beneath Tyne View Terrace towards moving roof formwork

Ten of eighteen roof slabs now completed. These four are adjacent to north transition. (View north)

Photographs 16 September 2009

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
NORTH CUT AND COVER
Deep excavation south of Tyne View Terrace

Photograph 16 September 2009

Escape passage

Moving formwork system on rails to enable construction of roof slabs

Dwarf wall to vehicular tunnel

Couplers for roof slab reinforcement
Current: North transition structure completed August 2009

Construction of box structure behind transition shaft complete
All concrete works complete

Finishing works including painting of end frames and installation of seals in progress

Completion and handover by end of September
RIVER – IMMERSED TUBE UNITS

Painting of end frames completed
Installation of “Gina gasket” seal to units (TE 1 shown)

Tunnel element 1 end frame
South transition frame
NEWTYNE CROSSING – CONSTRUCTION PROGRESS – SEPTEMBER 2009

South of the River Tyne

Open box section
CFA Piled section
Sprayed concrete lined tunnel 2 (SCL2)
D-Wall cut and cover deep sections
D-Wall cut and cover shallow sections
Sprayed concrete lined tunnel 1 (SCL1)

South transition

South Junction

Aerial photograph 08 September 2009
RIVER AND TRANSITIONS

South transition

Current:- South transition structure nearing completion in September 2009. Excavation and propping behind transition structure complete

Next stage:- Construct tunnel box structure behind transition shaft rear wall and install access door

Access door
Bulk excavation and propping nearing completion.

Access shafts for Sprayed Concrete Lining tunnel (SCL) complete

Preparation works for SCL tunnelling ongoing

Aerial photographs 08 September 2009
SOUTH TUNNELS
South Tunnels Chaytor Street to Monastery Court

Bulk excavation and propping is nearing completion.

Access shafts for Sprayed Concrete Lining tunnel (SCL) complete

Preparation works for SCL tunnelling ongoing

Aerial photographs 08 September 2009

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
SOUTH TUNNELS

Sprayed concrete lining sections

Photograph shows installation of canopy rods for SCL 1 - shaft 2

SCL section tunnelling construction to start in September 09

Photographs 16 September 2009

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
SOUTH TUNNELS
Monastery Court to South Portal

All excavations and temporary propping to South Tunnels nearing completion - est. end September 2009

Base slab concreting works to open box and CFA piled sections ongoing

Aerial photographs 08 September 2009
SOUTH TUNNELS
Open cut box structure
Construction of reinforced concrete box structures ongoing

Existing retaining wall to be demolished

Base slabs

Photographs 16 September 2009

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009

SOUTH JUNCTION

Overview

P4 Bridge (Howard street)

P6 Bridge

P7 / P8 Retaining walls

P14 Ventilation Gallery

A185 Straker Street widening

Southern Extract Building

Aerial photographs 08 September 2009
SOUTH JUNCTION
P4 and P6 Overbridges

Bridge construction ongoing
Concrete decks and parapet beams currently being constructed
Completion of structures by end October / early November 2009
Existing Howard Street Bridge to be demolished late 2009 early 2010

P4 Bridge (New Howard Street Bridge)
P6 Bridge
P14 ventilation shaft
E4 Bridge (Existing Howard Street Bridge)

Aerial photographs 08 September 2009
NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
SOUTH JUNCTION

P5, P7 & P8 reinforced earth retaining walls and southern radial route

P7 and P8 Structures completed July 2009

Construction of P5 reinforced earth retaining wall started September 2009

Southern radial highway works at formation level

Southern radial route

Aerial photographs 08 September 2009

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009
SOUTH JUNCTION
A 185 Straker Street Highway Works

Widening and re-alignment of A185 Straker Street ongoing. Currently running 2 lanes from Jarrow / 1 lane into Jarrow

Hamburger Lane close permanently on 21st September 2009

Main southern junction highway works due to start October 2009

Aerial photograph 08 September 2009

NEW TYNE CROSSING – CONSTRUCTION PROGRESS - SEPTEMBER 2009