

*Railway Engineers Forum Scotland*

*2013 Young Railway Professionals' Presentation Competition*

# *Edinburgh Waverley Station Renewals*

*Package 3 – Market Street Entrance & Platform 8/9 Canopies*

*Douglas Craig, Network Rail*

# *Edinburgh Waverley Station*



# *Existing Market Street footbridge*



# *Existing platform 8/9 canopy*



## *Package 3*

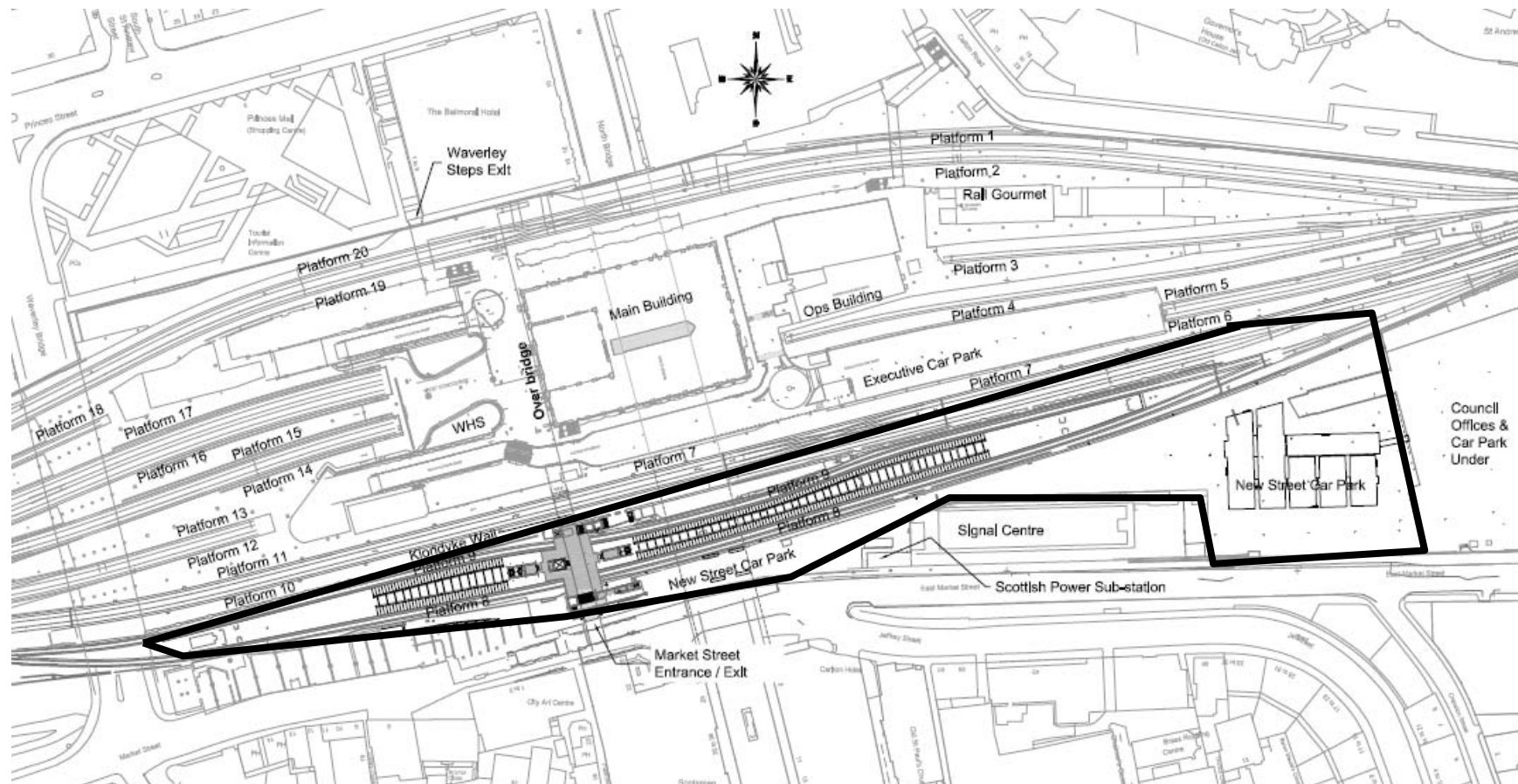
- Client - Network Rail
- Principal Contractor - Charlie Spencer Ltd
- NR12 Design & Construct Target Cost contract
- Contract value - £9.8m
- Civils/structural design completed by Spencer in-house design team
- Construction start date - 4<sup>th</sup> July 2011
- Anticipated construction completion – November 2013



# *Project deliverables*

- **Removal & replacement of Market St footbridge, platform 8/9 lift, platform 8/9 staircase & New St car park staircase**
- Installation of new western platform 8/9 staircase & canopy
- Re-cladding of existing platform 10 liftshaft
- Modification and re-cladding of existing New St car park lift
- Demolition of existing buildings on platform 8/9
- **Removal & replacement of platform 8/9 canopy (down to retained lattice beams)**
- **Preparation & painting of existing platform 8/9 canopy support columns & lattice beams**
- Resurfacing of platform 8/9 including drainage, tactile & coping works
- Resurfacing of New St car park
- Cleaning & repairs to Market St wall and south elevation of Klondyke wall

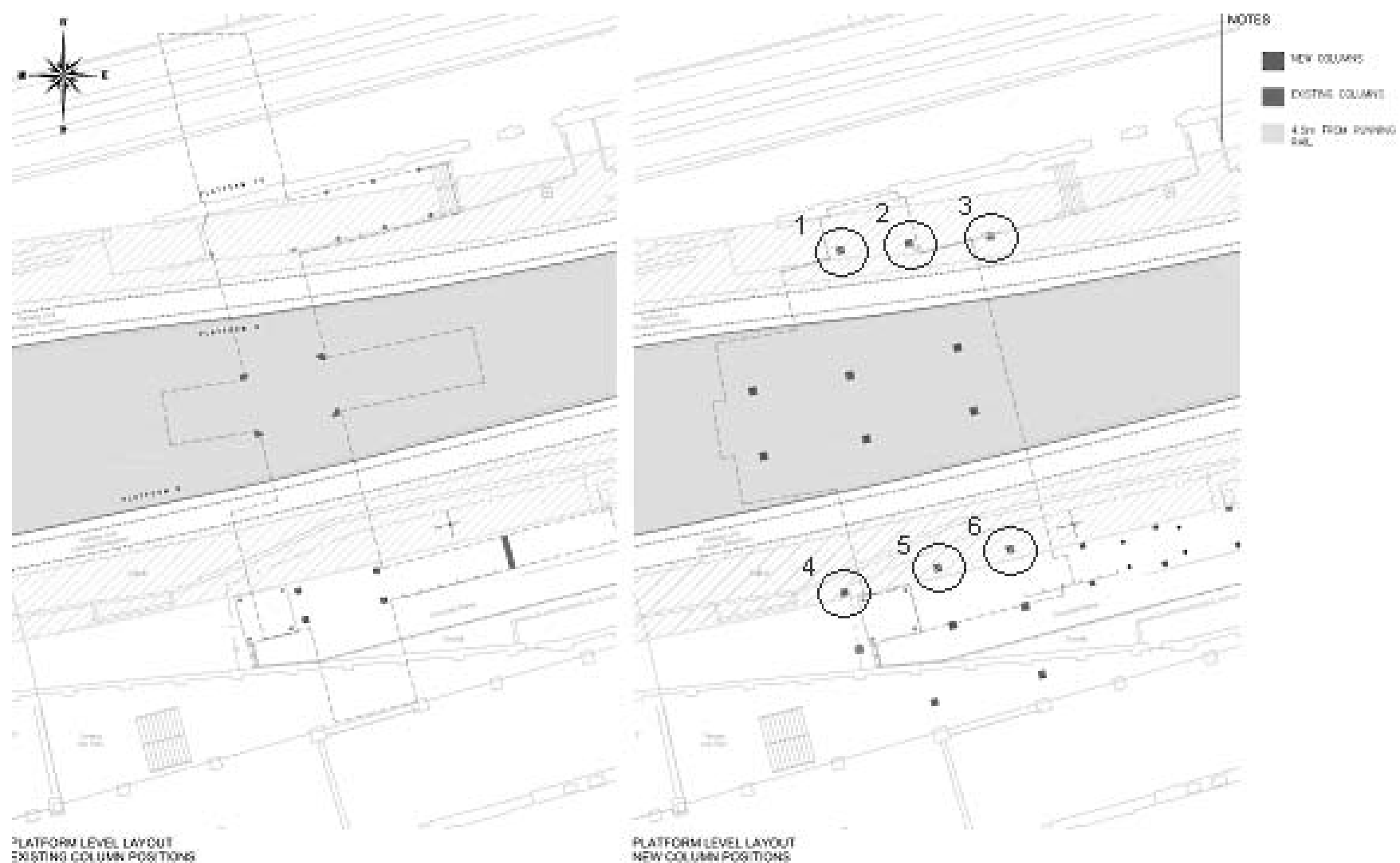
# Site layout

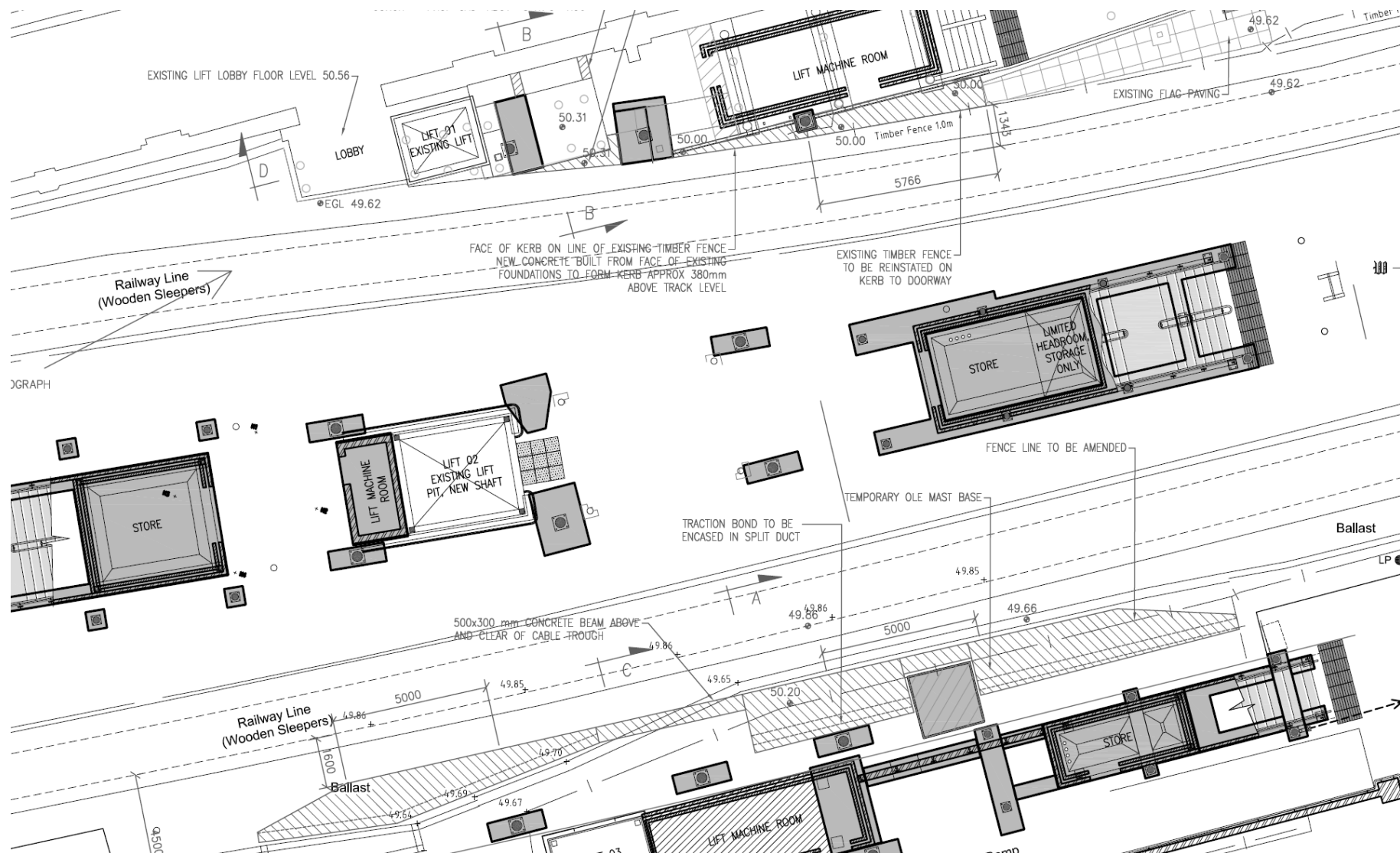




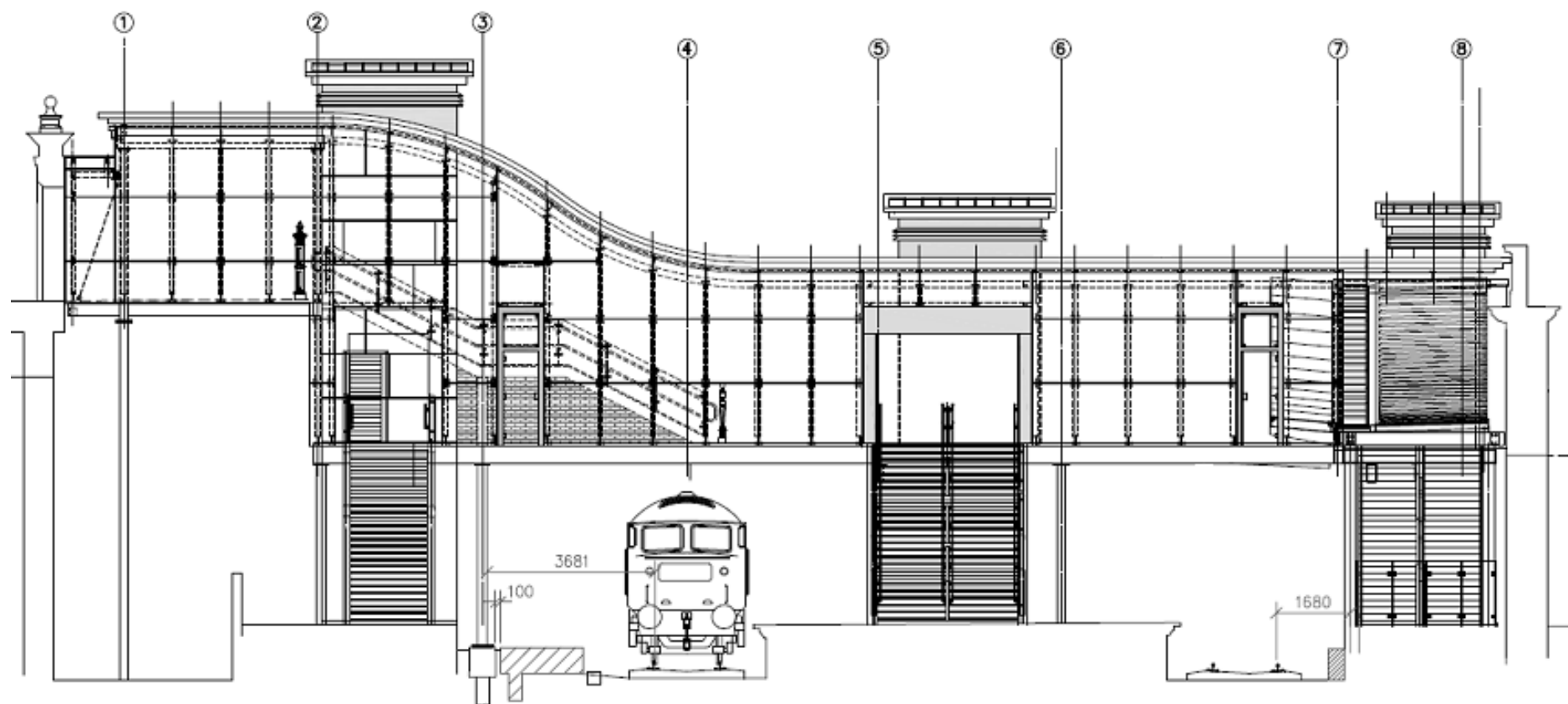


# Engineering assurance





# *Robust kerb*



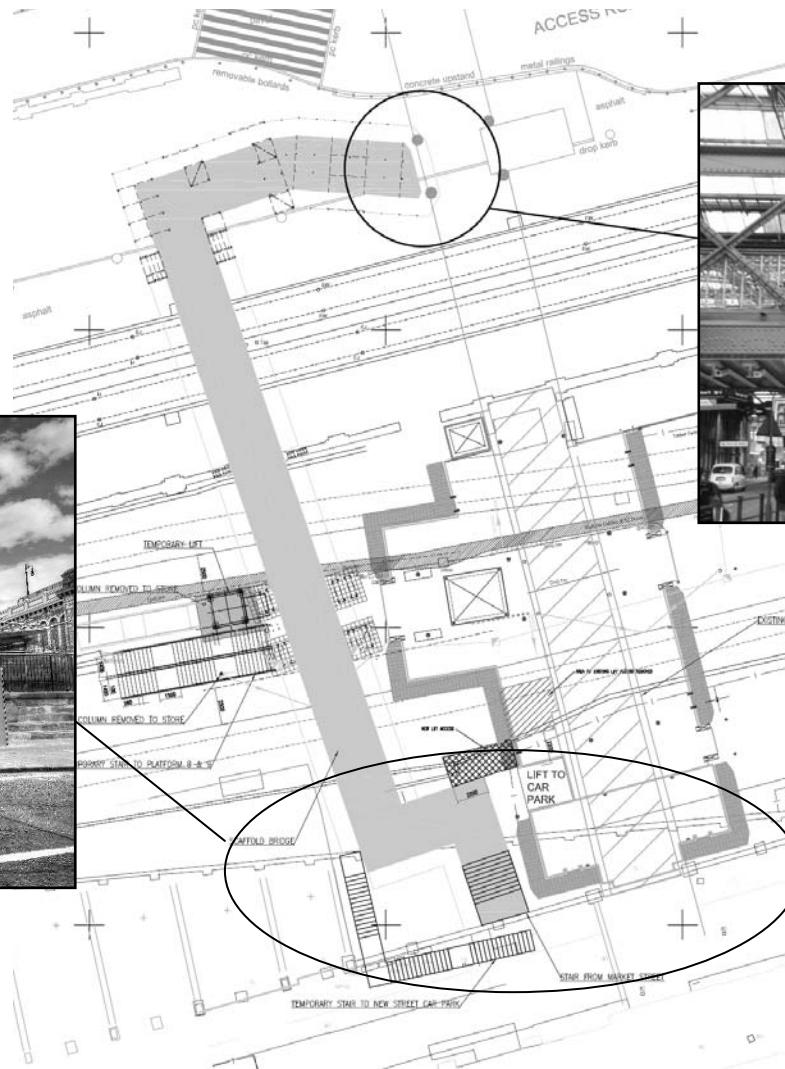
# *Site access*



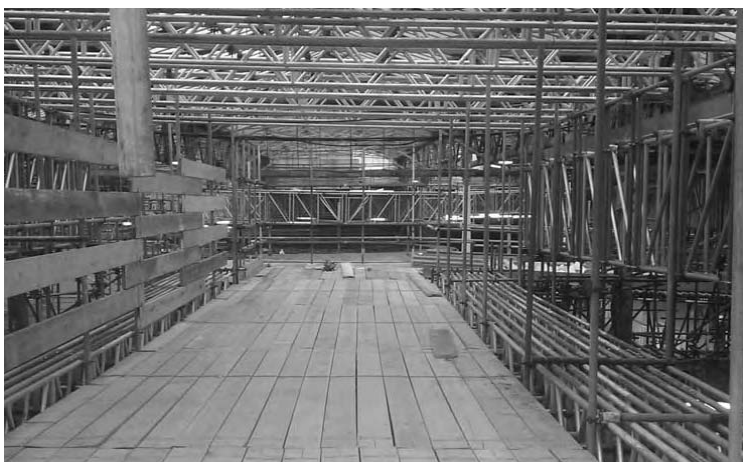
# *Temporary ramp*



# Temporary bridge



# *Temporary bridge*



# *Footbridge removal*





# *New Market Street Footbridge*



Waverley Station Edinburgh - Market Street Footbridge view from North Bridge

# *New Market Street Footbridge*



Waverley Station Edinburgh - Market Street Footbridge East Elevation

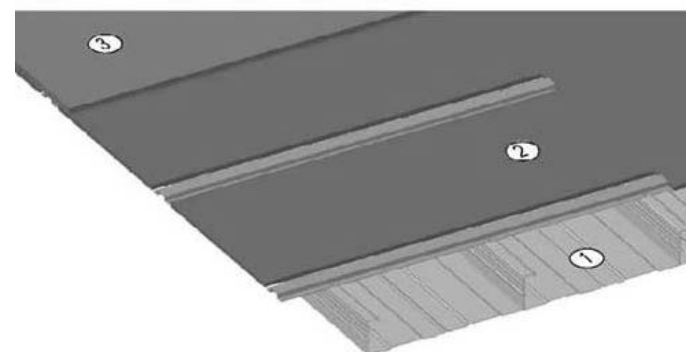
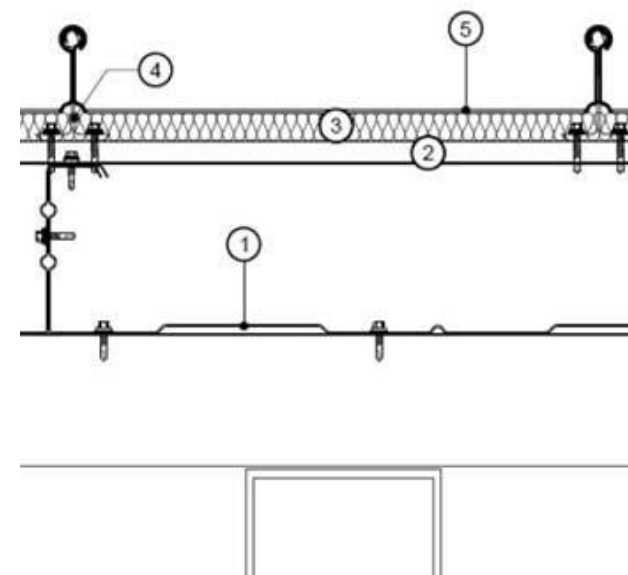
# Glazing



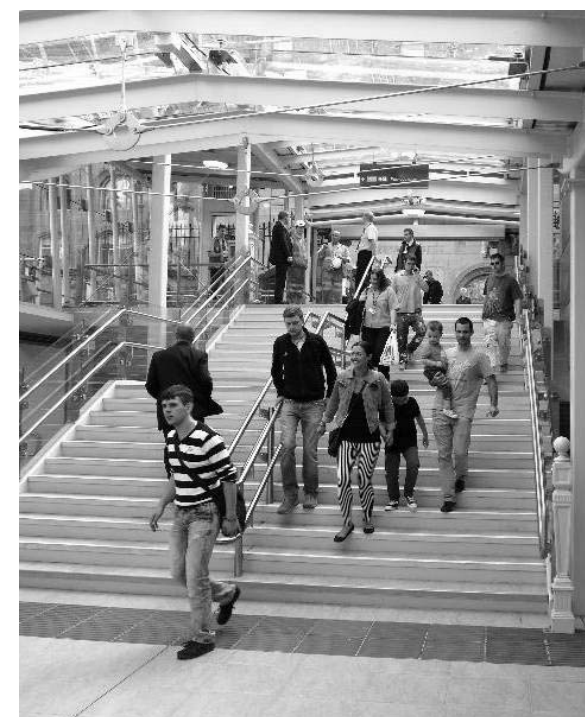
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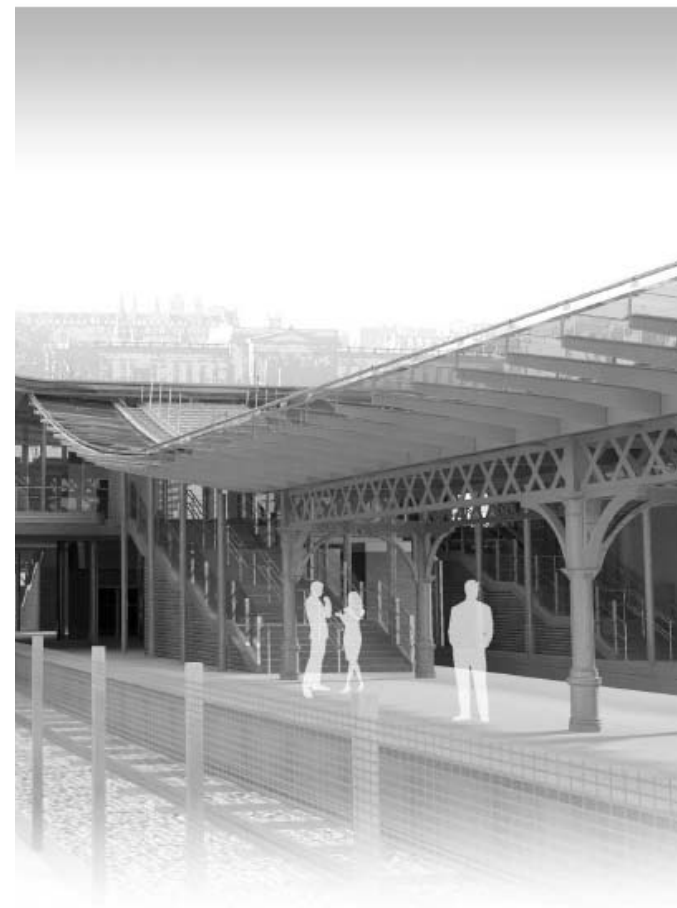
# Cladding



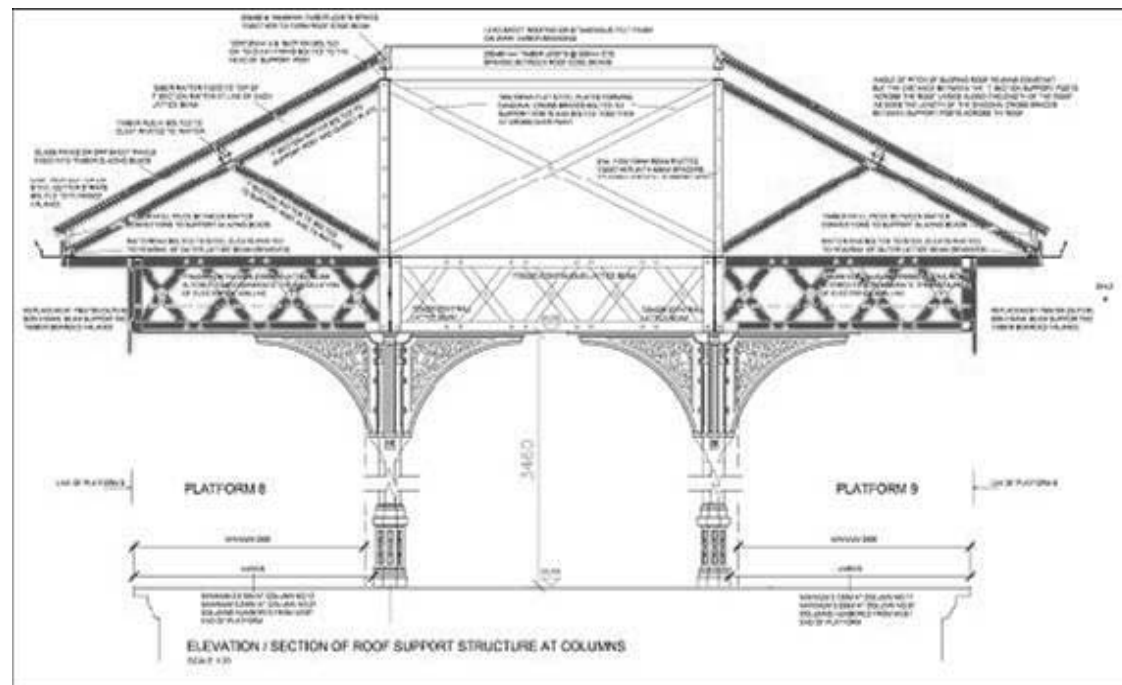
# *Open to the public...*



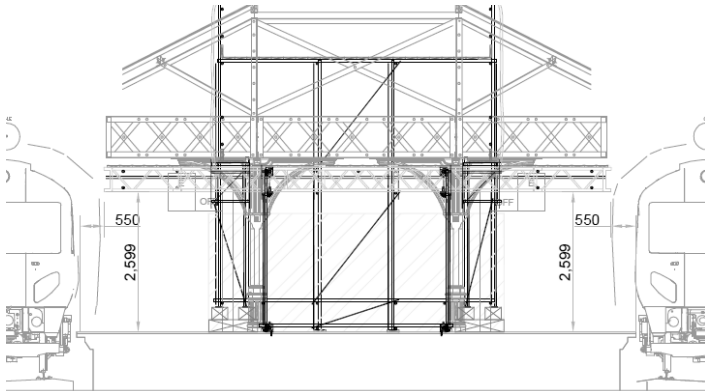
# *Platform 8/9 canopy*



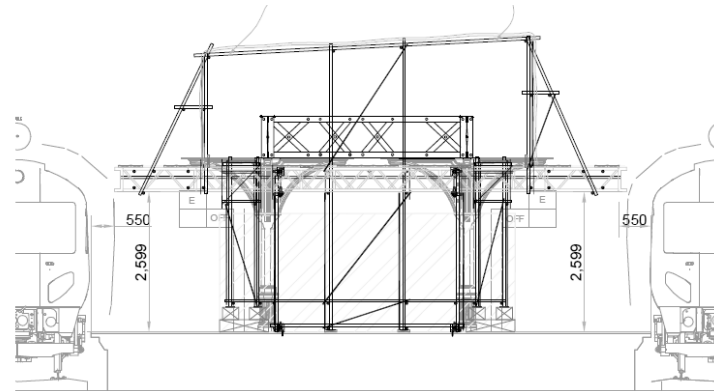
## Canopy removal



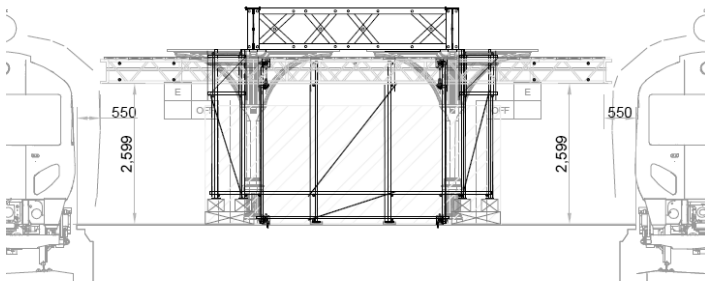
# Canopy removal



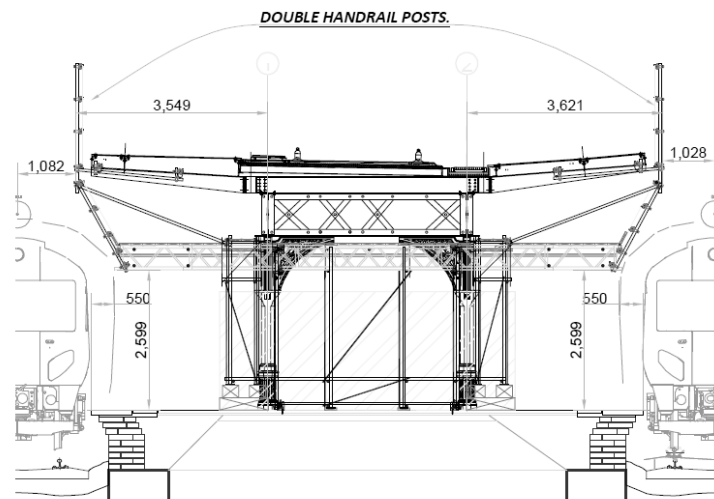
**PHASE 1: ERECT CANOPY  
DEMOLITION SCAFFOLD**



**PHASE 2: ERECT ENCAPSULATED BLAST  
AREA SCAFFOLD.**



**PHASE 3: ENCAPSULATED BLAST AREA  
SCAFFOLD REMOVED.**



**PHASE 4: NEW STEELWORK CONSTRUCTION**



# *Canopy removal*



# *Canopy removal*



# *Grit blasting*



# *New canopy*





*...October 2014*

