EGIP Strategic Review

Transport Scotland's Requirements

- Is it possible to deliver the key EGIP objectives whilst also substantially reducing the CAPEX and OPEX budgets?
- The key objectives for Transport Scotland are;
 - Increase capacity on the Edinburgh Glasgow Route
 - Deliver a reduction in journey time
 - Reduce the Carbon footprint

Jacobs' approach

- Assess the existing Scheme
 - Are all the infrastructure schemes on the E and G route required?
 - Is it possible to defer some of the infrastructure elements by extending the construction programme 5, 10 or 15 years and thus deferring cost?
- Is there an alternative solution that could deliver Transport Scotland's objectives?

Conceptual foundation of the existing Scheme

- There is a clear message throughout all the documentation reviewed that the overwhelming majority of infrastructure enhancements are driven by a 6 trains per hour service pattern. There is no evidence to suggest that this situation has changed
- From the evidence available, the Programme as currently proposed appears robust and will deliver the benefits identified

Opportunities to cancel work packages

- With the possible exception of the electrification to Stirling / Dunblane / Alloa, all of the main proposed work packages are considered essential to deliver the identified benefits
- It has not been possible to identify how substantial savings could be achieved through the deletion of works packages from the existing Scheme without a major reduction in benefits

Extension of the existing Programme

- It is perfectly feasible to extend the Programme by deferring individual works packages. However, this will lead to;
 - Greater cost
 - Longer period of disruption
 - The risk that new infrastructure might be rendered redundant by a new High Speed Line between Glasgow and Edinburgh
- Most importantly, the main benefits of the existing Scheme will not be realised until all the main works packages are complete

Could there be an alternative solution?

- There are two ways to increase passenger capacity
 - Operate more trains
 - Run longer trains
- There is no evidence that any serious work has been undertaken to examine the option to run longer trains
- It is likely that the primary reason for this is that it was not considered possible to fit longer trains into Queen Street station.
- Intermediate stations and Waverley platforming also require addressing

A once in a generation opportunity

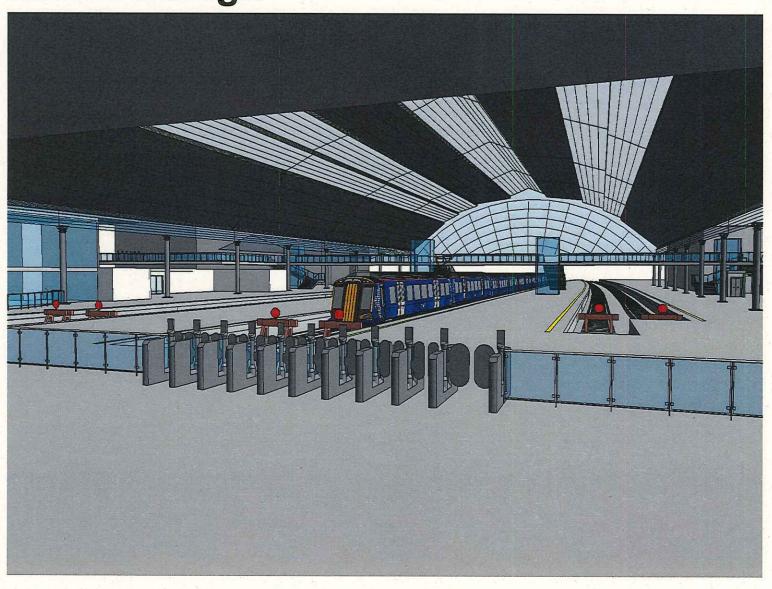


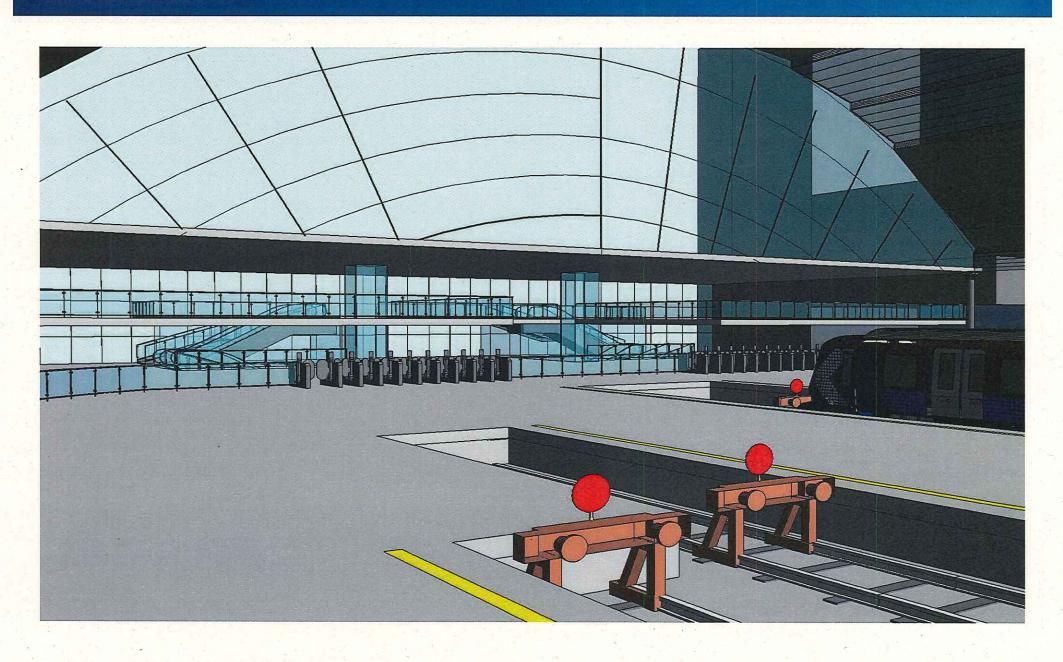
Network Rail announced proposals to redevelop Queen Street station

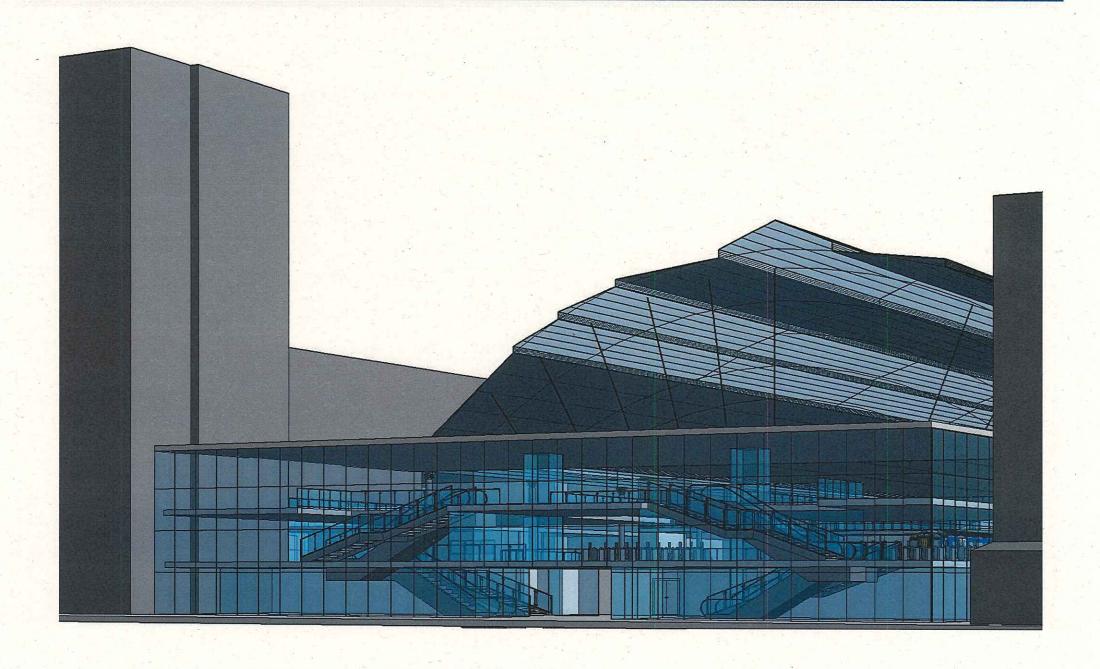
Queen Street Redevelopment

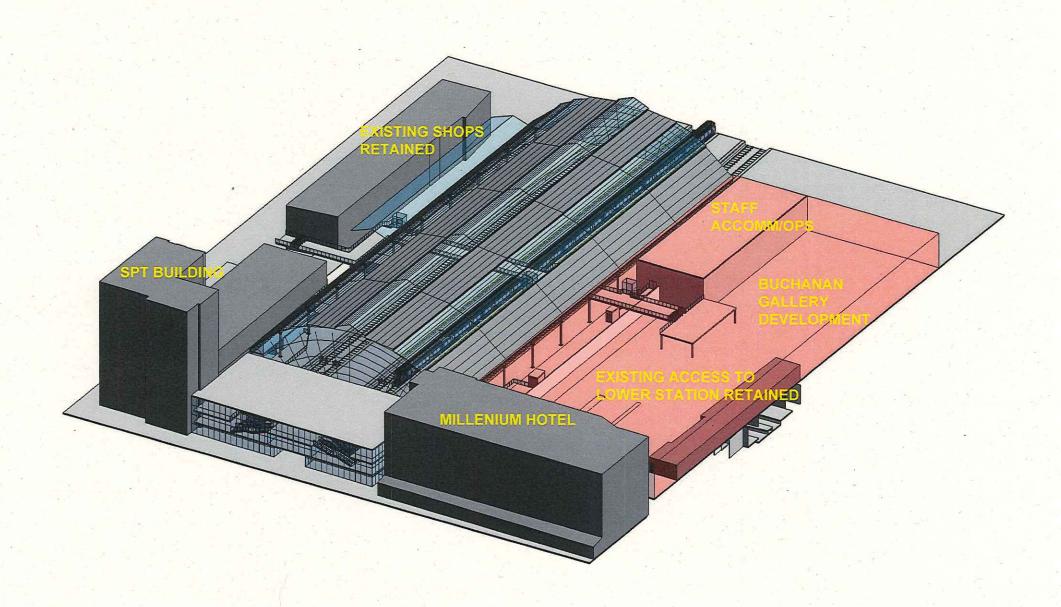
- Network Rail has published proposals to redevelop the station and demolish the Millennium Hotel extension
- Given this space, it would appear possible to remodel Queen Street station to accommodate 8 car trains for the Edinburgh service
- If 8 car trains could be introduced, a basic electric 4 train per hour timetable could be implemented, delivering improved journey times without requiring the majority of the infrastructure in the existing programme

Alternative Design

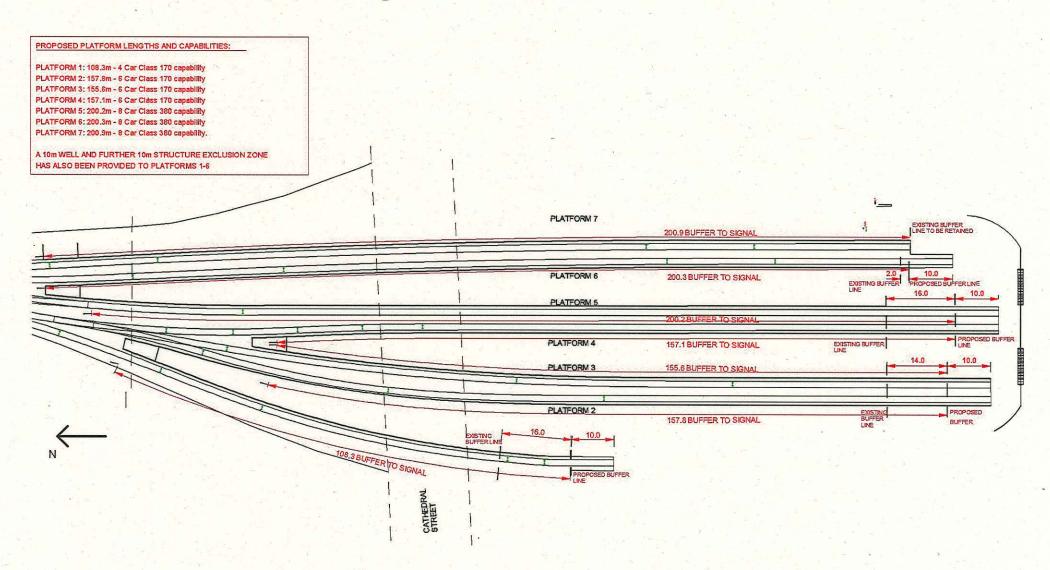




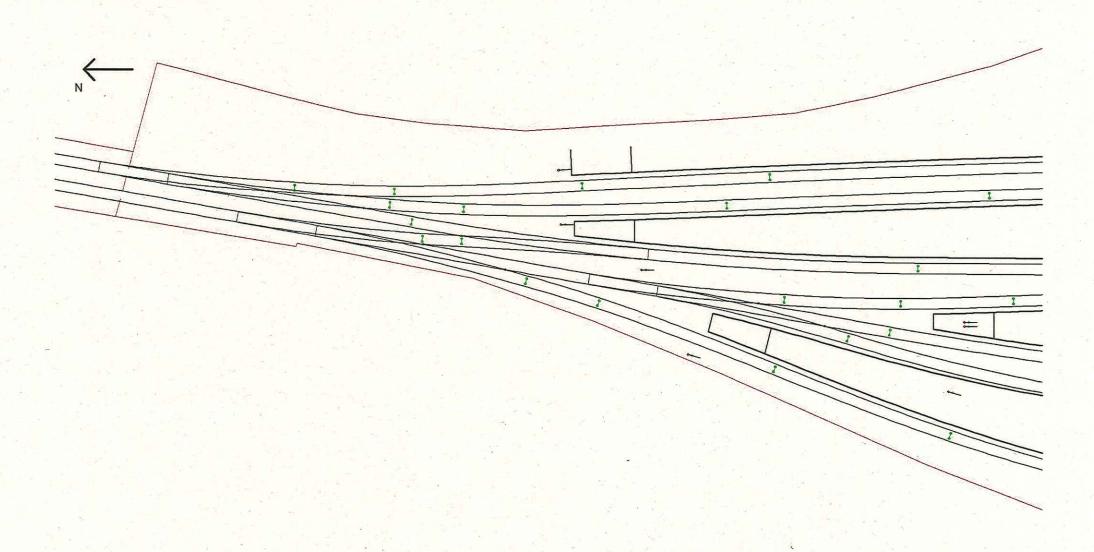




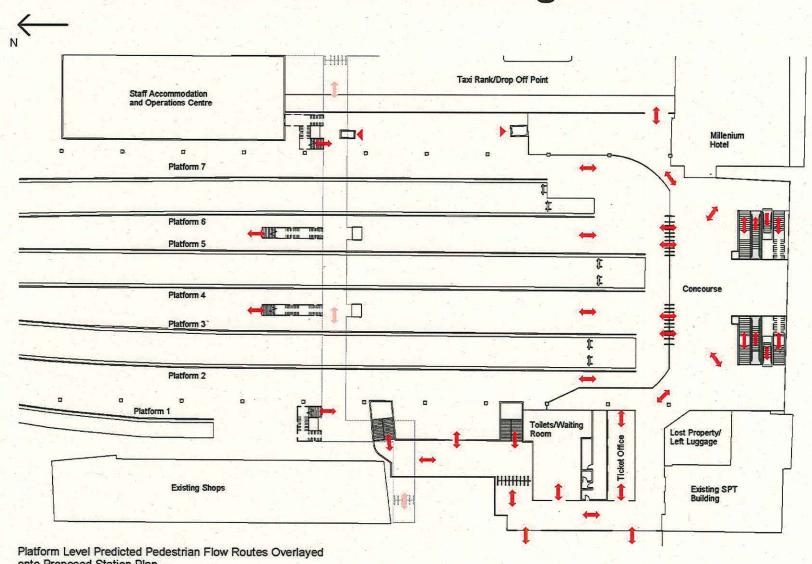
Platform Capability



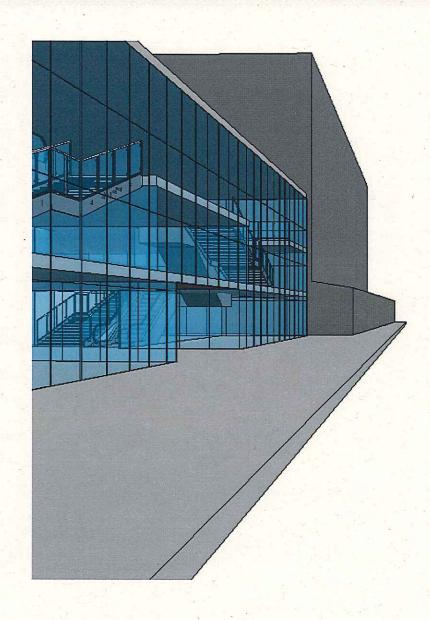
Station Throat



Revised Concourse and Passenger flows



onto Proposed Station Plan



Additional Requirements

- Four intermediate stations require platform extensions or the agreement to use Selective Door Operation
- Options for platform extensions at each location have been identified
- Glasgow services would need to be focused on 8 car platforms at Waverley
- Analysis of the proposed timetable and Waverley
 Docker indicates that whilst difficult, a solution to the
 platform requirements should be possible.

Additional 5th Peak Service (The Flyer)

- Capacity issues appear to be focused on a specific period of time in the morning peak around 08:00
- 4tph x 8 Car increases capacity
- A further capacity increase around 08:00 could be delivered by a single fast service in each direction
- Analysis of the proposed timetables indicate that one fast train a day, each way should be possible
- This one train will allow the service to be advertised with times below 40mins

Potential Benefits

- An electric 4 train per hour, 8 car scheme could deliver;
 - Increased Capacity
 - Reduced Journey Time of around 42 mins
 - Improved Performance
 - Additional capacity and headline journey time from one fast train, each way, per day
- This scheme does not require, Greenhill Jct, Dalmeny Chord or Croy Turnback

Additional Issues

- This proposal assumes that electrification to Stirling is deferred
- Gogar Station (Edinburgh Gateway) is included in our costs even though no Glasgow services will call there
- This proposal is based on the existing calling pattern, speeded up by electrification but omits new stops at Edinburgh Park for Glasgow services

Conclusion

 If the existing EGIP scheme is considered unaffordable in the current economic circumstances, then an alternative proposal that appears to meet both Transport Scotland's and EGIP's objectives should be urgently considered