



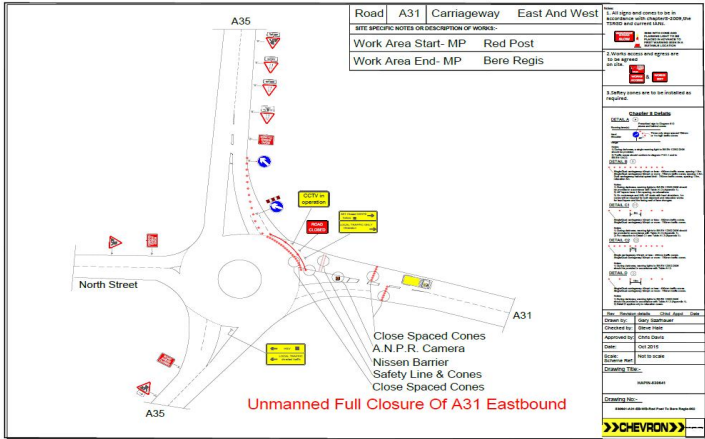
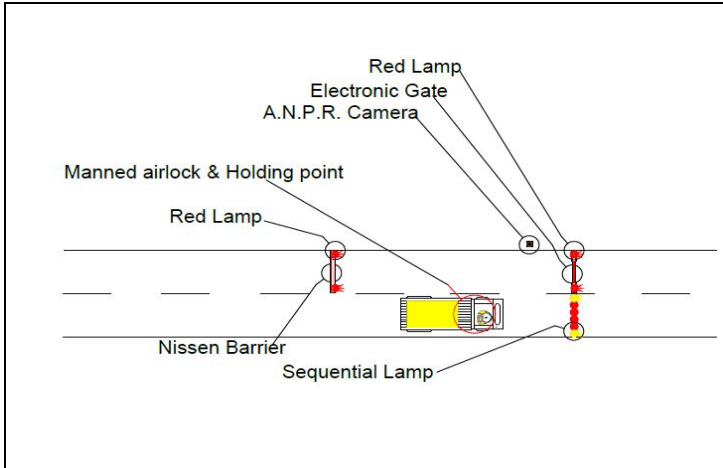
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| Form Ref: HSI-10 | Independent Health & Safety Inspection – Blue Star Item | Version: 2.0 Jun 2015 |
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|  | Awarded for Exceptional Performance or New Initiative not widely used on other sites |
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| Project | Principal Contractor (PC): | Date of Inspection |
| A31 White Post to Bere Regis Drainage Scheme | Kier | 16/02/16 |
| Site Contact | Email Address | Telephone Number |
| Lloyd Allen (Const. Manager) Chris Davis (TM Manager) | Lloyd.y.allen@kier.co.uk Chris.x.davis@kier.co.uk | 07920 505293 07917 171158 |

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| Description of Blue Star Item | <p><u>Airlock Gated System.</u></p> <p>The Airlock provides a sterile area which permits the passage of people, vehicles and objects between two points via a series of gates which do not open simultaneously. (<i>Detail 01 and Detail 02 show each site end</i>).</p> <p>The Airlock system allows a gateman to control access and stop unauthorised breaches by the travelling public. This is achieved by holding them in the area between the two closures.</p> <p>The system can be used to communicate site specific instructions to authorised vehicles as well as provide emergency services with guidance on how to access, transit and leave site in the event of an emergency.</p> <p>The control at the gates is beneficial to site operations as it provides a greater level of controls to site traffic and reduces risk of conflict.</p> <p>At consultation stage we identified the need for advanced / increased controls on site, we looked at various methods to control site safety and traffic and the use of the airlock gated system was the approach selected.</p> <p>On this scheme we have used our standard Airlock arrangements but replaced the standard barriers with a prototype electronic gate which can be activated using remote control, which reduces the risk of conflict to our operatives further by moving them away from points of conflict. (<i>see photograph 01</i>)</p> |
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| <p>Benefits of Blue Star Item</p> | <p><u>Safety</u></p> <p>The increased site control is designed to eliminate all unauthorised vehicle movements from the site, the airlock also introduces a system restricting traffic flow providing site operatives an assurance that they are in a safe area to work.</p> <p>Historically road closures have operatives at strategic points to monitor and direct traffic, and there can be abuse from members of the public which on occasions becomes physical putting them in an area of risk.</p> <p>The system we are using has drastically reduced these occurrences, and in addition the use of the automatic gate and access points providing a more visual deterrent to errant drivers. Our operatives as part of the set-up are issued with personnel CCTV body cameras while they interact with the travelling public.</p> <p><u>Site Control</u></p> <p>We have also introduced a permit control system for the local residents, businesses and the emergency services, the permits are part of the Kier Road Closure Toolkit developed to grant authorised pre-approved access.</p> <p><u>Productivity</u></p> <p>Due to the Airlock our Construction teams are able to more focus their energy on the delivery of the scheme, with construction traffic moving more freely. The effect is the scheme has stayed on programme with excellent quality.</p> <p><u>Endorsements</u></p> <p>Our TMF Julian Acton (Chevron) says that the system has reduced the issues normally faced, and in his words “is a 98% improvement on what we did before” Our Civils contractor on site (R&W) being able to keep ahead of programme even during a period of poor weather due to the increased control.</p> <p><u>Conclusion</u></p> <p>Due to the success of this trial and The Airlock Gated System is currently being rolled out in Area 3 for all road closures and lane closures wherever these benefits will be realised.</p> |
| <p>Details and Cost of any Specific Product</p> | <p>The prototype electronic gate is hired at £30.00 per day.</p> <p>CCTV units are approximately £400.00 per unit.</p> <p>No additional TM crews or costs are needed to operate these layouts.</p> |

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| <p>Photograph 01</p> | <p>Automatic Gate Used to control Access at the Western end of the airlock.</p>  |
| <p>Detail 01</p> | <p>Traffic management detail installed on the Bere Regis roundabout.</p>  |
| <p>Detail 02</p> | <p>Airlock Electronic Gate detail used at East End of Closure.</p>  |