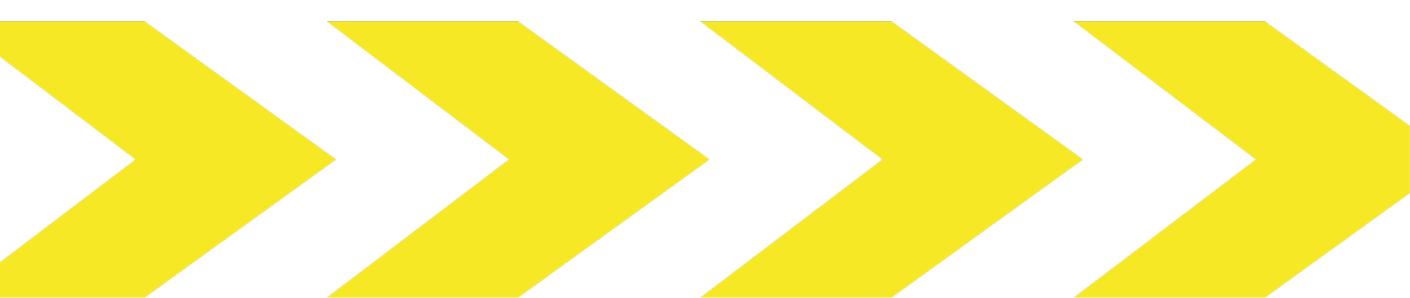


A WORK-ZONE SAFETY COMPANY

**TRAFFIC MANAGEMENT** 

# IPV and Incursions Working group RtB document on incursions

Background and documents



## **Incursions are unacceptable**

Incursions are classified as:

- Intentional Incursion where the road user seeks to gain a benefit.
- Intentional Incursion where the road user is seeking information.
- Intentional Incursion where the road user is seeking refuge.
- Unintentional incursion where a road user follows a works vehicle into the works in error, also known as a follow in.
- Unintentional incursion where a road user enters the works area because of confusion.
- Unintentional Incursion where a road user enters the works area or traffic management because of a collision or to avoid a collision.

Tampering with TTM measures by unauthorised staff significantly raises the probability of an unintentional or intentional incursion during the immediate period following the tampering and moving a device is a prosecutable offence in law that could result in a criminal conviction.

All risks must be:

- <u>Eliminated</u> wherever possible.
- Reduced to an acceptable level
- Isolated so that the risk cannot be realised.
- <u>Controls</u> implemented for residual risks that cannot be eliminated or reduced completely.

A key objective is that no road user is harmed when travelling alongside or around our work area and that they are provided with sufficient information at the appropriate time to clearly understand the action required of them and the route they should take to avoid, intentionally or unintentionally, an incursion into our work area, which puts them and the safety of our workforce at risk.

The TTM drawings illustrate the design solutions being provided to manage the hazards, traffic, and all measures must be detailed on the drawings, for instance, the means of access to private frontages, where bridleways or footpaths intersect the carriageway and will generate <u>non\_vehicle</u> based traffic.

The design risk assessment must be robust in its nature, all aspects of the traffic movements must be assessed, considered and risk process ERIC followed with the outputs included in a design that creates a SSOW for the traffic management, a composite design that is illustrated by the TTM drawings. The Principal Contractor must allow sufficient time to allow design development activities.

# Its just TM ---- TM is engineering



- Traffic passing several times around a roundabout or repassing a closure point several times.
- Traffic or users stopping at closure point to ask 'which way'.
- Traffic continually approaching an intermediate closure point down a link between the diversion route and the closed carriageway.
- Traffic entering a works access or egress in non-breakdown situations.
- Users regularly and constantly vocally or visually providing negative feedback to staff on site.
- Client receiving customer feedback through contact channels.
- Traffic queues negotiating the closure point
- Issues with sat nav.

# It's a failure of the design stage

How many of you consider traffic management a headache?

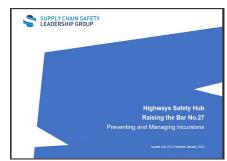
# **RtB 27 Prevention of Incursions**



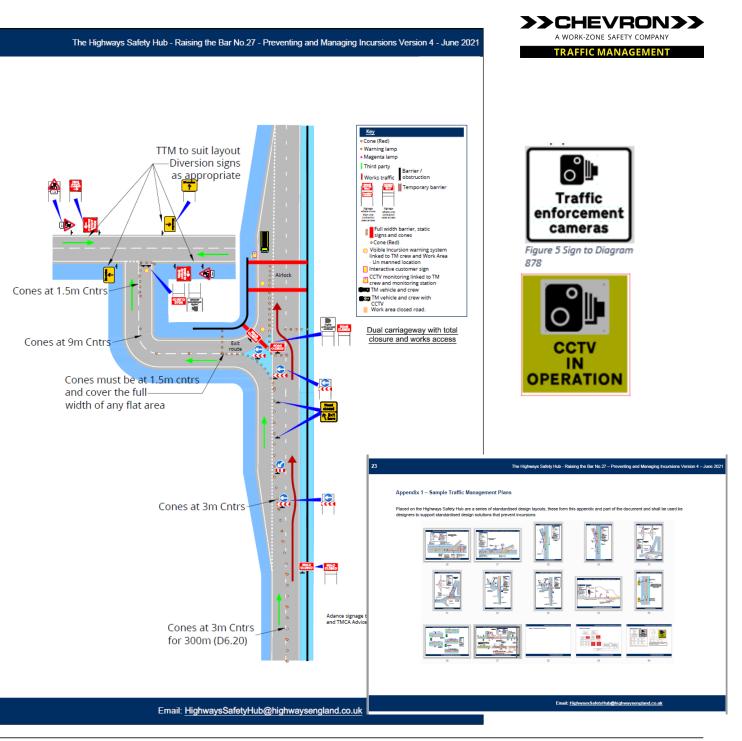
Brings In

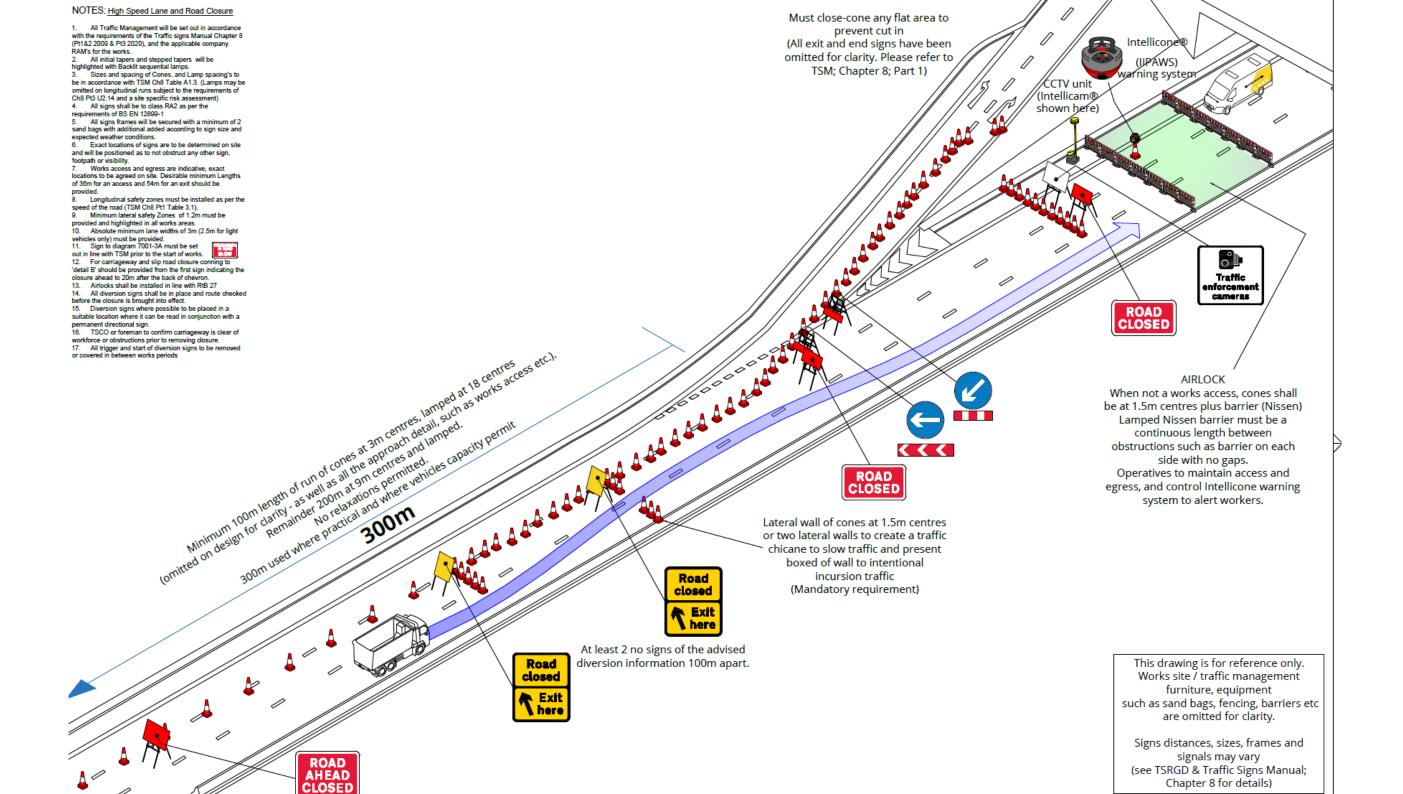
- Prevention at source
  - Elimination by design not reliance on controls
  - PDCA quality cycle implemented to stop incursions at source
- CCTV is great but if an incursion gets that far we have failed
- Moves thinking higher on safety
  - Eliminating operatives
  - Removed first control measure of an operative as a bouncer
  - > Providing a standard approach to additional signs
    - Prescribes lawful readable signs
- Removed concept customer largely at fault

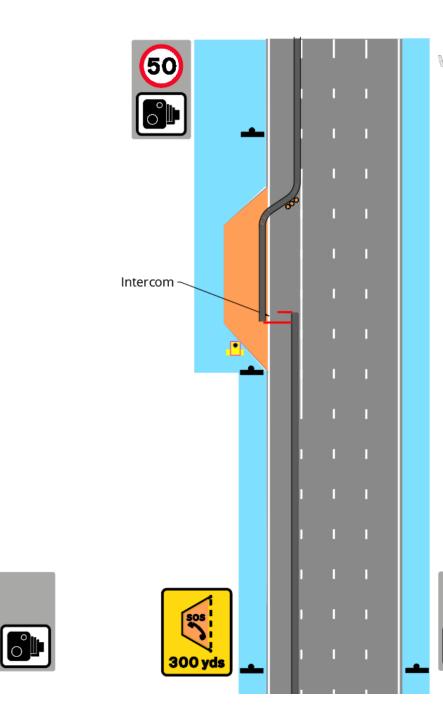


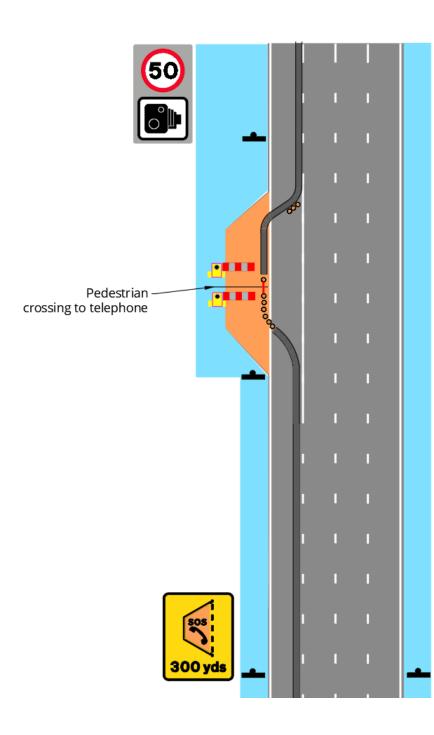


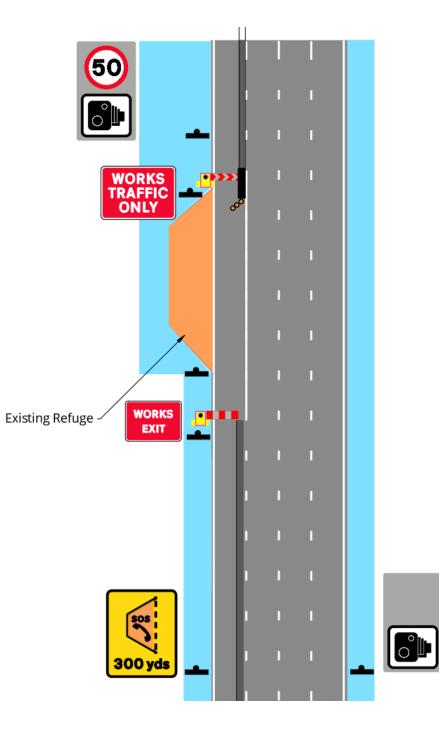
- Created by industry working group
- Lead by Balfour Beatty
- Proposed to IPV incursions working group
  - Adopted as a significant advance
- Extensive document
  - Widens scope of thinking to
    - Single carriageways
    - More type of junctions
    - Services
    - And exit slip roads
  - > Design
    - > Words
    - A3 flash card sign design library can be expanded

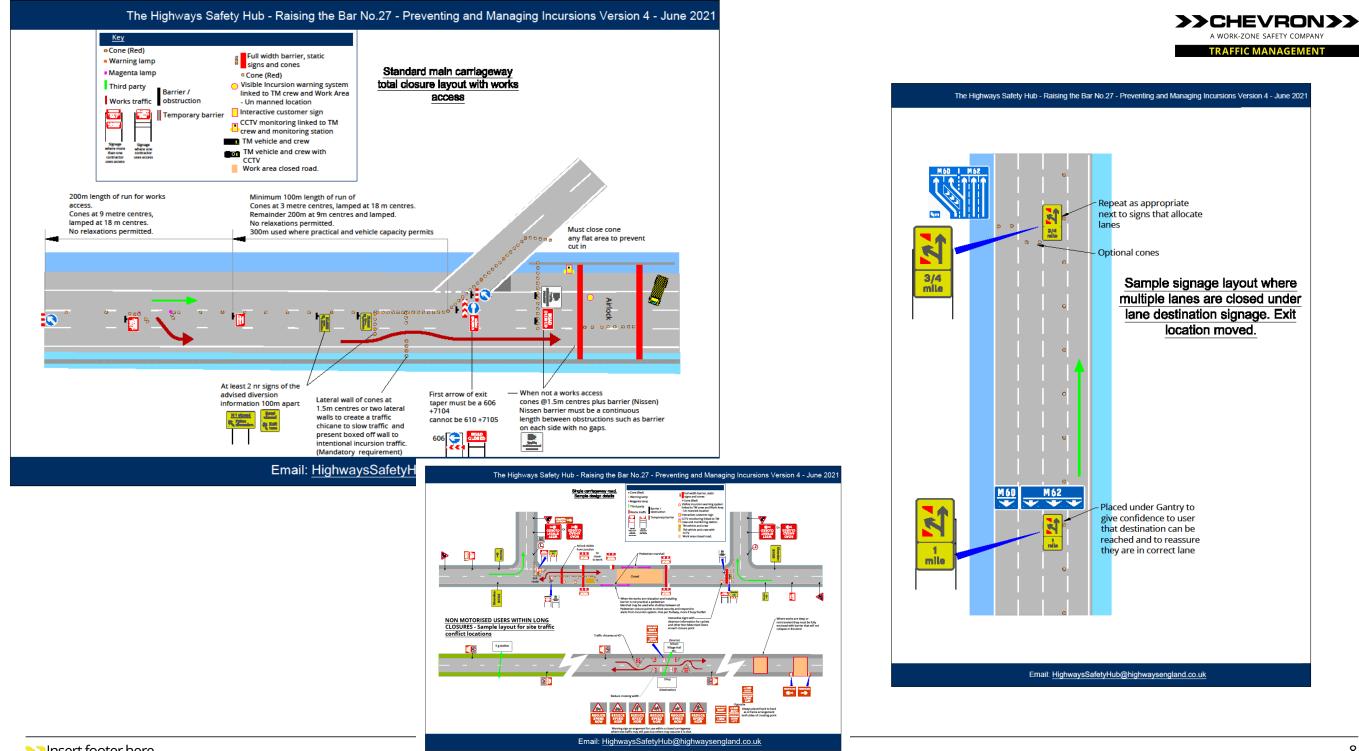












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## Think about it!!!

Traffic chicane preceeds site at longitudinal safety zone

Interchange

Cones @ 9m Cntrs-

127

The Highways Safety Hub - Raising the Bar No.27 - Preventing and Managing Incursions Version 4 - June 2021

Third party Works traffic obstruction

Reap Reap when norm share one dataone contactor contactor contactor contactor

Email: HighwaysSafetyHub@highwaysengland.co.uk

Temporary barrier

Full width barrier, static

signs and cones
cone (Red)
Visible incursion warning system linked to TM crew and Work Area
Un manned location
Interactive customer sign
CCTV monitoring linked to TM
TM vability and crew

Key Warning lamp
Magenta lamp



 $\mathbf{O}$ 

can be seen

opening a gate.

Front white

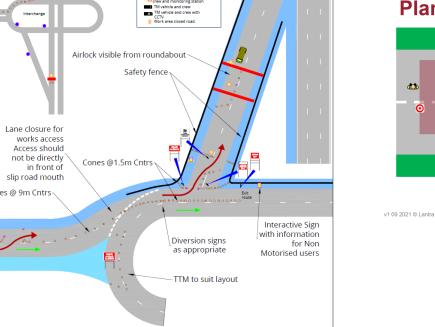
· Back red.

Reversing should be avoided

Or banks person used

Make sure a head torch is worn

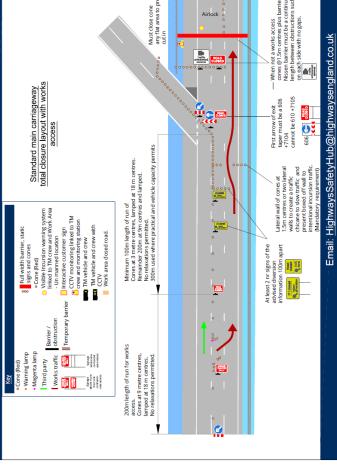
Blind spots:



Grade Seperated Interchange Works access with airlock.

Access relocated from incursion location

#### Standard main carriagewa<u>y</u> tal closure layout with work Make eye contact with driver – walk where you · Make sure you can see your colleagues if Bar · automated barriers on busy sites • Stand in a safe place behind cones ety Hub -§ Σ Σ Ω 6 Vehicle cameras reduce the risk but the operative will not know if they are working or operational.





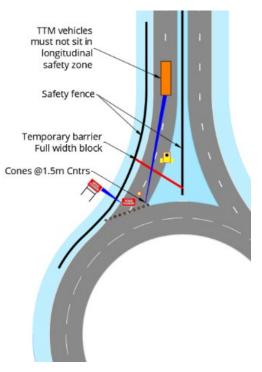


# Never use operatives and vehicles at the point fo conflict

The use of operatives sat in vans in effect acting as 'bouncers' shall be the last resort as a control measure. An operative wearing a bodycam will always

be intimidating to a member of the public who may already be stressed and therefore technologies that allow remote monitoring, good information and barriers should always be the focus for preventing incursions.







## The 5%!!! We cannot control



# Never do this... think work equipment regs



# **Useful resources and 'RegTTME'**



MEM

Location

Acre

Nechells

Birminaham B7 5JX

UTS Training Non

Type

411 Long Residential £1750 + VAT

Cost (ex VAT)

IHE Member

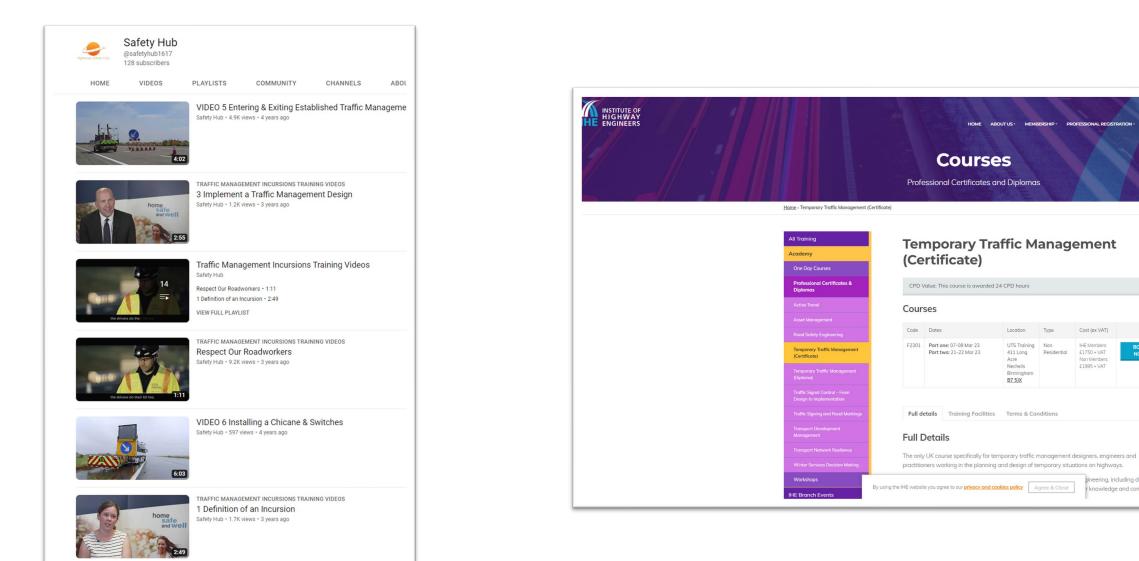
Non Members

£1995 + VAT

NOW

eering, including design,

knowledge and competence



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