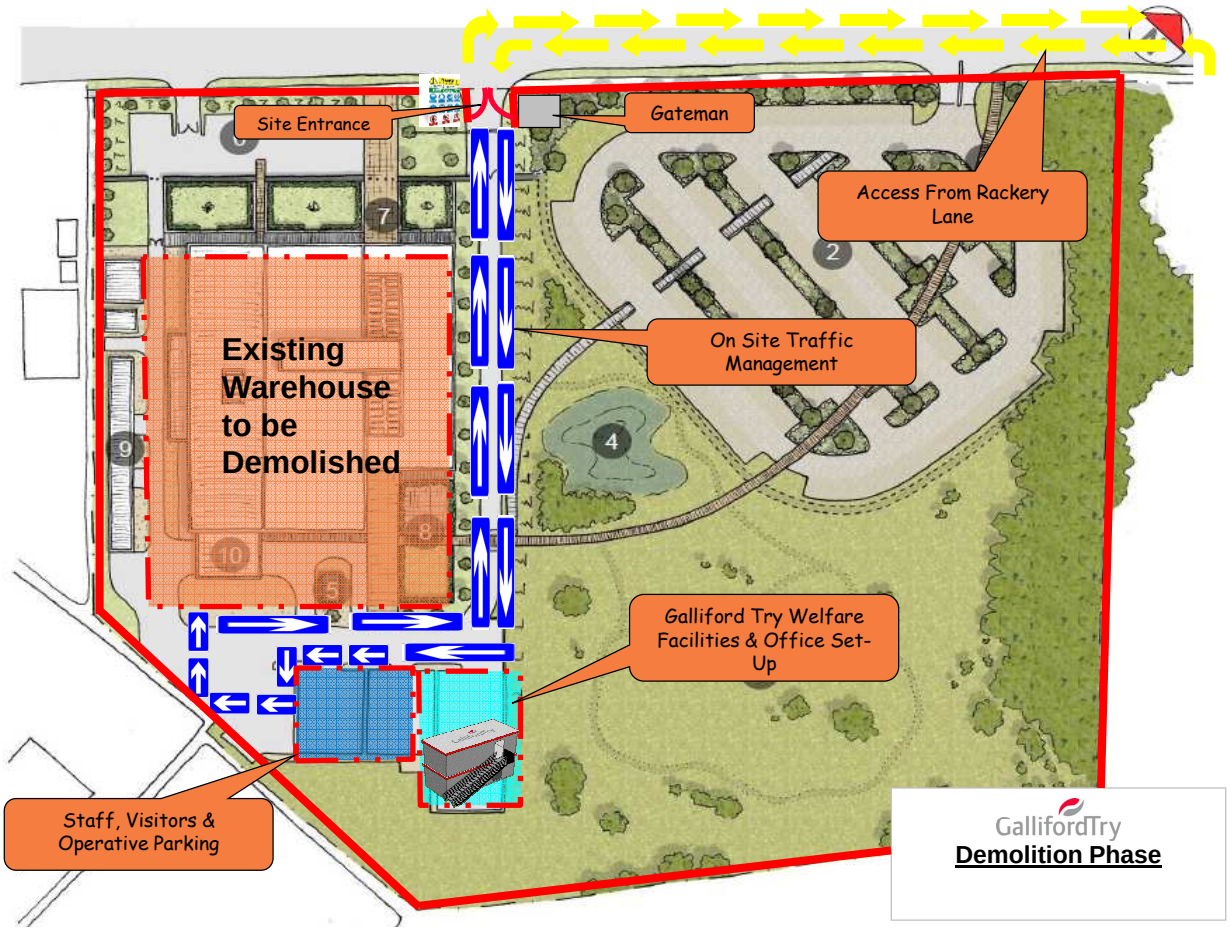
Eastern Command Custody Facility Construction Phase Traffic Management Plan

Davy Way,
Llay,
Wrexham
LL12 0PG

Our Approach to Construction for the Eastern Command Custody Facility

Our proposals to construct the new Eastern Command Custody Facility at Davy Way, Llay near Wrexham will be undertaken in 2 phases. The first of the 2 phases will be the enabling phase which will consist of demolishing the existing warehouse and grubbing out the ground floor slab and foundations. The next phase will be to construct the new Command Centre and Custody Facility. The demolition programme is for 8 weeks planned for September / October 2015 with the phase 2 construction programme planned for 68 weeks starting in 2nd November 2015 weeks to 3rd March 2017.

Phase 1 – Demolition of the existing warehouse, 4th September 2015 – 23rd October 2015



Enabling

A temporary site compound will set up to the rear service yard of the warehouse. This will contain the site offices and welfare facilities during the demolition period.

Services will be disconnected and made safe followed by the removal of the asbestos.

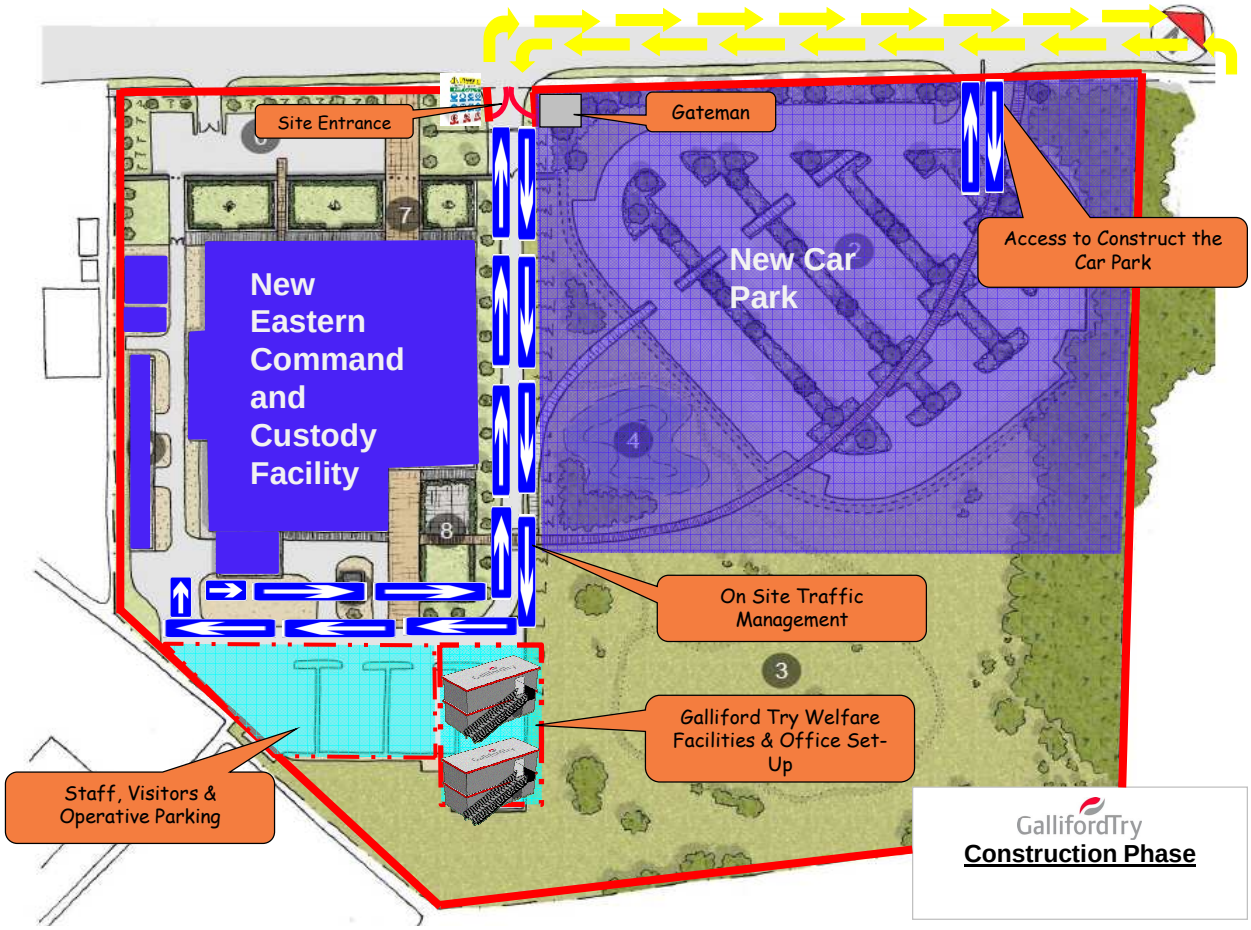
Once the asbestos has been removed and the clean air certificate issued the demolition of the existing warehouse will begin.

The existing site fences will be maintained during the demolition period as added site security.

Access will be gained via the existing site entrance off Davy Way.

A maximum of 8 site staff and operatives will be on site during this period.

Phase 2 - Construction of the new Eastern Command Custody Facility, 2nd November 2015 – 3rd March 2017



The site will be fully fenced off with herras fencing to form the secure lines.

The site compound to the rear of the site will develop further from the demolition phase to an established site welfare and office facility for the construction period.

Site staff and operatives will park in the compound adjacent to the site welfare and office facilities.

Access will be via Davy Way and utilising the existing site entrances.

Deliveries will be bought directly into the site and offloaded, there will be no need for deliveries to be waiting outside the boundary of the site.

The hard landscaping and development of the new car park will be undertaken with a new access point/footpath crossing being formed into the car park from Davy Way.

A the peak of production a maximum of 100 staff and operative will be on site.

The existing site has concrete hard standings and roads, the project has been planned so that existing hard standing areas remain. This will assist with maintaining and keeping the surrounding roads clean from mud and debri.

To ensure that the surrounding roads are kept clean additional measures will be implemented during the heavily periods of groundworks whereby all vehicles leaving the site will have their wheels and undercarriage cleaned prior to exiting onto the public highway. All deliveries and vehicle movements on and off the site will managed by a Galliford Try logistics co-ordinator.

Construction

Demolition: The demolition will take place between September 2015 and October 2015, we have planned to recycle as much of the existing materials as possible to re-use on site, (hardcore from concrete slabs, foundations, brickwork and blockwork from the cavity wall construction). Metal materials such as the structural steel frame and cladding will be recycled off site. A very low percentage of the demolition waste will be sent to landfill. The method that we implement will minimise the amount of vehicles needing to access and egress the site.

Groundworks & Foundations: The foundations will be piled using a continuous flight auger and filled with concrete, pile caps, ground beams and column bases will be formed in concrete.

Structure: The custody facility will be constructed using pre-cast prefabricated concrete walls and ceilings, the elements will be constructed off site and delivered as finished pieces, thus reducing the amount of deliveries to the site. The office, admin and ancillary areas will be steel frame construction with concrete floors. The elements will be delivered to site predominantly via articulated vehicles and installed using mobile cranes.

Envelope: The external cladding / masonry, window frames will be installed using cherry pickers and mobile elevated platforms.

Roof coverings: Will be installed directly onto the metal or concrete decks.

Internal Areas: Following completion of the initial sections of the structure the internal fitting out works will then progress in a dry, controlled environment through to project completion.

Completion and Handover: The programme includes 12 weeks testing and commissioning of all building systems prior to completion, a 6 week IT install and decant period and a 5 week inspection period, as an integral part of our Handover and Soft Landings strategy.

External Areas: Will be completed within the phases with return visits for seasonal planting where required.

Minimising disruption whilst on site

The construction of the new Eastern Command Custody Facility is in a well established industrial estate on the site of a former factory and warehouse. Therefore the disruption and inconvenience to the local community will be minimal. Never the less we have chosen the design and construction proposals to be developed to minimise the construction time on site which in turn will reduce the impacts on neighbouring towns and villages as materials and delivery vehicles pass through accessing from the main arteries of the motorway network. Our project Manager will be the single point of contact should there be any complaints or compliments. Our project manager will ensure that the project is delivered with no disruption to the surrounding area, local neighbours and the wider community. During the new construction works there will be minimal noisy activities due to the offsite manufacture process. Dust suppression measures will be implemented during the demolition works to ensure that no dust is caused during the works.

Minimising waste on Site

The site team will produce a site specific Site Waste Management Plan during the mobilisation phase which will set out how the project will comply with Galliford Try's commitment to diverting waste from landfill, which currently stands at 93% diversion. By utilising off site manufacture the amount of site generated waste is dramatically reduced and any waste materials that are generated will be segregated and recycled in accordance with our commitment to reduce waste to landfill. Our site accommodation will incorporate energy saving features such as presence detectors to minimise water and electricity use. During the demolition works we will soft strip the building to ensure that all salvageable materials are separated and recycled including, hardcore, aluminium, steel, and timber.

Parking and Deliveries

Parking and Access to neighbouring Properties

The demolition of the existing building and the construction of the new building will be totally independent from the remainder of the operating industrial estate. There will be no impact to any surrounding businesses or premises.

Construction Parking

On site parking will be available at all times for all site staff, operatives and visitors, therefore the industrial estate will be kept clear from associated construction parking.

Access to the car park will be via Davy Way, the site parking will be adjacent to the site offices and welfare facilities to the rear of the site.

As part of the site rules anyone associated with the project will not be allowed to park in and around any of the adjacent roads and highways, offenders found to be breaking this rule will be removed from the project immediately.

We have identified the location of the construction parking and the route to the site on the maps which form part of this document on pages 2,3,7 and 8.

Below are the projected potential vehicle trips to the site throughout the various phases of the construction process.

The trips have been broken down into the following phases:

Site Clearance:

Eastern Command Custody Facility
Construction Traffic Movements
Date: 14-07-15
Version: 1
GallifordTry

Average Daily Construction Traffic Count

Site Clearance - 2nd November 2015 - 27th November 2015

Day	Car	Light Van	Heavy Van	Rigid Truck	Articulated Truck
7.00am - 8.00am	7	3	1	2	2
8.00am - 9.00am	1	0	0	1	0
9.00am - 10.00am	0	1	1	3	0
10.00am - 11.00am	0	0	0	3	0
11.00am - 12.00am	0	1	1	3	0
12.00pm - 1.00pm	0	0	0	3	0
1.00am - 2.00am	1	1	1	3	0
2.00am - 3.00pm	0	0	0	1	0
3.00am - 4.00pm	0	0	1	1	0
4.00pm - 5.00pm	6	3	1	2	0
5.00pm - 6.00pm	1	0	0	0	0
TOTAL	**16**	**9**	**6**	**22**	**2**
Notes	Site Clearance and Form Piling Mat			**Total Per Day**	**55**

Substructure:

Eastern Command Custody Facility
Construction Traffic Movements
Date: 14-07-15
Version: 1
GallifordTry

Average Daily Construction Traffic Count

Substructure Works - 30th November 2015 - 12th February 2016

Day	Car	Light Van	Heavy Van	Rigid Truck	Articulated Truck
7.00am - 8.00am	7	4	2	0	2
8.00am - 9.00am	1	0	0	2	0
9.00am - 10.00am	1	4	1	2	0
10.00am - 11.00am	1	1	1	2	1
11.00am - 12.00am	1	1	1	2	0
12.00pm - 1.00pm	1	1	1	1	1
1.00am - 2.00am	1	1	1	1	0
2.00am - 3.00pm	0	0	0	1	0
3.00am - 4.00pm	0	0	0	2	0
4.00pm - 5.00pm	6	3	2	2	1
5.00pm - 6.00pm	1	1	1	0	0
TOTAL	**20**	**16**	**10**	**15**	**5**
Notes	Piling, Foundations, GF Slab			**Total Per Day**	**66**

Superstructure:

Eastern Command Custody Facility
Construction Traffic Movements
Date: 14-07-15
Version: 1
GallifordTry

Average Daily Construction Traffic Count

Superstructure Works - 8th February 2016 - 28th May 2016

Day	Car	Light Van	Heavy Van	Rigid Truck	Articulated Truck
7.00am - 8.00am	8	5	3	2	2
8.00am - 9.00am	1	0	0	1	0
9.00am - 10.00am	1	2	1	1	1
10.00am - 11.00am	1	1	1	1	2
11.00am - 12.00am	1	1	1	0	2
12.00pm - 1.00pm	1	1	1	1	2
1.00am - 2.00am	1	1	1	2	2
2.00am - 3.00pm	0	0	0	1	0
3.00am - 4.00pm	0	0	0	1	0
4.00pm - 5.00pm	7	6	2	1	1
5.00pm - 6.00pm	1	1	1	0	1
TOTAL	**22**	**18**	**11**	**11**	**13**
Notes	Pre Cast Concrete Cells, Steel Frame, Ro			**Total Per Day**	**75**

Envelope and Fit Out:

Eastern Command Custody Facility
Construction Traffic Movements
Date: 14-07-15
Version: 1
GallifordTry

Average Daily Construction Traffic Count

Envelope & Fit Out Works - 30th May 2016 - 4th November 2016

Day	Car	Light Van	Heavy Van	Rigid Truck	Articulated Truck
7.00am - 8.00am	15	10	10	5	1
8.00am - 9.00am	1	2	2	1	0
9.00am - 10.00am	1	8	8	3	0
10.00am - 11.00am	1	1	6	2	1
11.00am - 12.00am	1	1	4	2	0
12.00pm - 1.00pm	1	1	4	2	0
1.00am - 2.00am	1	1	6	2	1
2.00am - 3.00pm	0	0	0	1	0
3.00am - 4.00pm	0	0	0	1	0
4.00pm - 5.00pm	14	10	8	3	0
5.00pm - 6.00pm	1	1	1	0	0
TOTAL	**36**	**35**	**49**	**22**	**3**
Notes	Brickwork, Cladding, Windows, Roof Coverings, Fit Out			**Total Per Day**	**145**

Fit Out & Handover:

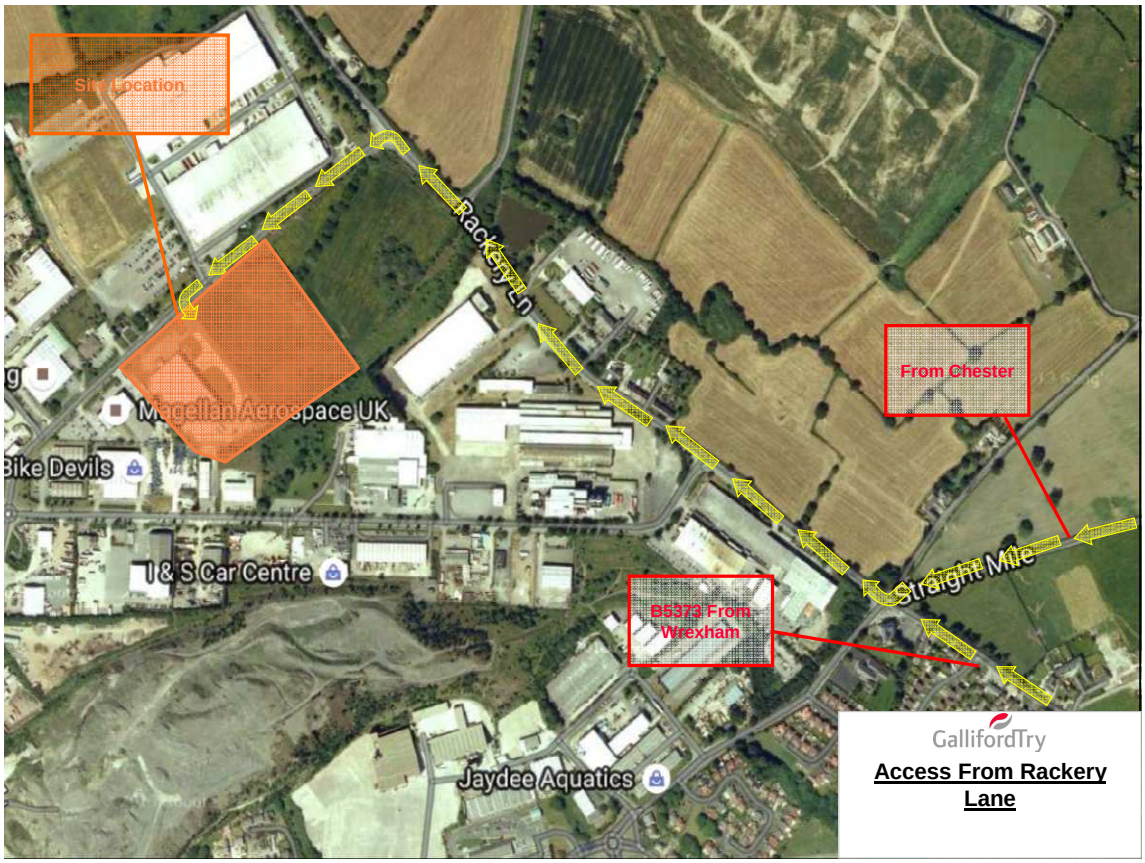
Eastern Command Custody Facility Construction Traffic Movements			Date: 14-07-15 Version: 1	GallifordTry	
Average Daily Construction Traffic Count					
Fit Out and Handover Works - 7th November 2016 - 3rd March 2017					
Day	**Car**	**Light Van**	**Heavy Van**	**Rigid Truck**	**Articulated Truck**
7.00am - 8.00am	15	15	10	1	1
8.00am - 9.00am	1	0	0	1	0
9.00am - 10.00am	1	10	6	3	0
10.00am - 11.00am	1	6	4	2	0
11.00am - 12.00am	1	4	4	1	0
12.00pm - 1.00pm	1	4	4	2	0
1.00am - 2.00am	1	6	4	3	1
2.00am - 3.00pm	0	0	0	1	0
3.00am - 4.00pm	0	0	0	1	0
4.00pm - 5.00pm	10	12	4	3	0
5.00pm - 6.00pm	3	3	0	0	0
TOTAL	**34**	**60**	**36**	**18**	**2**
Notes	Fit Out, Commissioning and Handover			**Total Per Day**	**150**

Construction Deliveries

There are no known delivery embargo times, therefore our construction deliveries will be scheduled throughout the working day between 8.00am and 5.00pm, deliveries will be planned a week in advance, the gateman will have the weekly delivery schedule to understand the times that the deliveries will be arriving to site and location and whereabouts the delivery is to be offloaded.

Access From The Main Highway Network

There are two main routes to the site, one being from Chester along the A483, vehicles will access from Junction 7, turn right along the Straight Mile Road. Turn right at the traffic lights on the crossroads travel up Rackery Lane approximately 500m turn Left onto Davy Way and the site is 100m on the left.

The second approach will be from Wrexham, traveling along B5373 across the traffic lighted crossroads, travel up Rackery Lane approximately 500m turn Left onto Davy Way and the site is 100m on the left.

Access From Rackery Lane