

KIER Construction London SHE Circular

NOTIFICATION NUMBER: - 161

DATE: 12/11/12

The aim of this notice is to provide you with information on Safety, Health and Environmental matters.

DISTRIBUTION: All Personnel; Display on notice boards.

Off-Site Manufactured Manhole Systems

Off-site manufactured manhole systems are now commonly used throughout Kier and most recently on the Kier Construction Northern Winsford Academy.

As well as the added safety benefits to such a system, a financial saving of £5000 was included in the cost plan for the Academy. There is an actual loss on the materials but larger savings on the labour element.

This type of manhole is good on shallow manholes, but it really excels on the deeper ones. The time and cost of concrete surrounding a deep manhole is very prohibitive, whereas these manholes can be installed and backfilled in the same day.



Some of the advantages in using this system are:

- Smaller excavations can be achieved, due to not having to concrete surround the manhole.
- Manual handling, confined space works and working in excavation is reduced significantly.
- No need to bench manhole, working with cements, cutting pipe and channels with Stihl saw etc.
- No need to seal leaks, using chemicals like Sika 4A.
- No need to surround manhole with concrete.
- Excavations dug and backfilled same day. **This is one of the main advantages.**
- There are lifting points cast into the concrete units.

Please follow this link to the literature from [CPM Drainage on the Perfect Manhole System](#)

Actions: Bid Managers, Planners, Estimators and Design Managers: consider at Tender stage.