

# OPENING BRIDGES

## FAVERSHAM CREEK NEIGHBOURHOOD PLAN



Hinged lifting bridge



Swing bridge



Hinged lifting bridge



Hinged lifting bridge



Vertical lifting bridge



Hinged lifting bridge

### Advantages and disadvantages of different bridge designs

#### Swing Bridge

##### Advantages

- Low power requirements to operate
- Easy to operate in the event of power loss
- Civil works not complex
- All power and Controls can be kept to one abutment if required (other than traffic lights and barriers)
- No height restriction for boats passing through open bridge

##### Disadvantages

- Large footprint of moving deck
- Large area required to park bridge in open position
- Heavier weight of fabricated steel

#### Vertical Lifting Bridge

##### Advantages

- Medium power requirements to operate
- Small footprint of moving deck
- Minimal weight of fabricated steel
- Civil works not complex
- No parking area required for bridge in open position

##### Disadvantages

- Not easy to operate in the event of power loss
- Synchronising of controls and 4 operating devices can be complicated
- Power and Controls services required on both abutments
- Height restriction for boats passing through open bridge

#### Hinged Lifting Bridge

##### Advantages

- Higher power requirements to operate
- Medium footprint of moving deck
- Civil works not complex
- All power and Controls can be kept to one abutment if required (other than traffic lights and barriers)
- No parking area required for bridge in open position
- No height restriction for boats passing through open bridge

##### Disadvantages

- Medium footprint of moving deck
- Heavier weight of fabricated steel to provide rigid lifting deck
- Civil works need to accommodate lifting cylinders under bridge

Images supplied by Faversham Creek Trust and Dave Griffiths of KGAL

**Kent County Council Highways need to replace the creek bridge over the next 2-5 years. So far, they have promised £400000 to install a fixed bridge. They have indicated that they would be willing to put this money towards the cost of an opening bridge provided the remainder of its cost could be funded. There is general consensus that there should be an opening bridge with working lock gates and sluices underneath. These are examples of bridge designs that may be suitable.**