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# DESIGNER'S RISK INFORMATION – CRANLEIGH LEISURE CENTRE FOOTBRIDGE PROJECT

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Rev:

## 1. Project Description

The works comprise the construction of a simply supported pedestrian footbridge of approximately 8m span, consisting of steel primary beams supporting a timber deck. Bearings are located at abutments, and installation is assumed via crane lift.

## 2. Key Design-Related Construction Hazards

| **Hazard** | **Location** | **Risk** | **Designer Mitigation** | **Residual Risk / Contractor Action** |
|---|---|---|---|---|
| Lifting steel beams | Entire span | Instability during lifting | Beams sized for lifting | Contractor to design lifting plan |
| Working at height | Deck installation | Falls | None. A crash deck below may be required | Temporary crash deck and edge protection required |
| Temporary instability | During erection | Beam rollover | Restraint is assumed once the deck is installed | Provide temporary bracing |
| Manual handling | Timber deck | Injury | Manageable sizes assumed | Use lifting aids where needed |

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| The stability of the existing embankments is unknown, as is the topography due to the overgrowth of foliage. | Embankments on either side and adjacent to the bridge abutments, levels and slope have not been surveyed. | Design may need amendment to accommodate the slopes of the embankment. | Cannot be addressed until the overgrowth of vegetation is removed and the embankment is exposed. | The contractor is to clear /remove the vegetation and survey the area for the engineer to review in advance of the main works starting. |
| Services | A services survey has been carried out. | Unknown services may still be found at the ditch level. | None | Contractor to check for services at ditch level and validate services as noted on the services survey. |

## 3. Design Assumptions

- Steel beams installed via crane
- Beams are unstable until lateral steel bracing is in place.
- No allowance for partial/asymmetric loading

## 4. Temporary Works Requirements

- Edge protection and crash deck during deck installation
- Access via scaffold or MEWP if viable
- Crane outrigger support to be verified

## 5. Residual Risks

- Working at height
- Lifting operations
- Stability of partially completed structure
- Installation over unprotected edges

## 6. Sequencing Considerations

1. Pile and construct the reinforced concrete bridge parapets.

2. Lift beams into position
3. Install lateral bracing
4. Install timber deck

5. Install parapets

## 7. Construction Phase Plan Notes

- Crane lifting plan required
- Temporary stability to be addressed
- A fall protection strategy is required for working over the ditch when the bridge beams are installed.
- Access strategy required