

# MARTON CIVIL ENGINEERING LTD

|                            |                                                     |        |
|----------------------------|-----------------------------------------------------|--------|
| INTEGRATED RISK ASSESSMENT |                                                     | PART A |
| OPERATIONS:                | WATER DIVERSION, BRIDGE DEMOLITION & RECONSTRUCTION |        |

|           |                               |          |       |
|-----------|-------------------------------|----------|-------|
| CONTRACT: | MAESTAF ST BRIDGE REPLACEMENT | RA No.   | MBR01 |
|           |                               | Revision | 1     |

| SCOPE OF OPERATION, LOCATION AND LIKELY DURATION                                                                                                                                                                                  | Associated Method Statements  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <p>This risk assessment covers all the activities carried out Directly by Marton Civil Engineering Operatives at MAESTAF ST as detailed in the associated Method Statement</p> <p>These works are programmed to last 10 WEEKS</p> | MAESTAF ST BRIDGE REPLACEMENT |

| SPECIFIC ASSESSMENT CONTROL MEASURES INCLUDED |
|-----------------------------------------------|
|-----------------------------------------------|

|                                                                  |                                                 |                                                                      |
|------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Injuries during construction | <input checked="" type="checkbox"/> Noise       | <input checked="" type="checkbox"/> Traffic Management               |
| <input checked="" type="checkbox"/> COSHH                        | <input checked="" type="checkbox"/> PPE         | <input checked="" type="checkbox"/> Statutory Undertakers (Services) |
| <input checked="" type="checkbox"/> Movement of plant            | <input checked="" type="checkbox"/> Excavations | <input checked="" type="checkbox"/> Ecology                          |
| <input checked="" type="checkbox"/> Manual Handling              | <input checked="" type="checkbox"/> Pedestrians | <input checked="" type="checkbox"/> Working in watercourse           |

PREPARED BY: Responsible Manager .....Christopher Price .....

Checked by: .....Huw Greening .....

Foreman ..... Martyn Gilbert .....

Date:.....29.12.22.....

# MARTON CIVIL ENGINEERING LTD

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|----------------------------|-----------------------------------------------------|
| INTEGRATED RISK ASSESSMENT | PART B                                              |
| OPERATION:                 | WATER DIVERSION, BRIDGE DEMOLITION & RECONSTRUCTION |

|                     |                               |
|---------------------|-------------------------------|
| CONTRACT:           | MAESTAF ST BRIDGE REPLACEMENT |
| RISK ASSESSMENT No: | MBR01                         |

| No | Hazards                                     | Initial Risk                                                                      | Initial Potential for Harm |   |   | Action Req'd<br>(Y/N) | Control Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Residual Potential for Harm |   |   |
|----|---------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|---|---|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---|---|
|    |                                             |                                                                                   | H                          | M | L |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H                           | M | L |
| 1  | <u>General injuries during construction</u> | General injuries to workforce, slips, trips, falls, etc.                          |                            | X |   | Yes                   | <ul style="list-style-type: none"> <li>Company safety policy, training &amp; experience of workforce.</li> <li>Ensure good housekeeping – access routes &amp; work places kept clear &amp; tidy.</li> <li>Dispose of waste as it is produced.</li> <li>Use designated access routes. – Via Road closure</li> <li>Minimise manual handling and walking with loads – sandbags to be lowered into works location via excavator</li> <li>Operative awareness training.</li> <li>Suitable footwear to be worn (site safety boots/waders), hard hat, gloves &amp; high-viz jacket to be worn.</li> <li>Ear &amp; Eye protection to be available and worn when necessary.</li> </ul>                                                      |                             |   | X |
| 2  | <u>Working within a watercourse</u>         | Risk of drowning, flooding of works, pollution of water course                    | X                          |   |   | Yes                   | <ul style="list-style-type: none"> <li>Works only to be undertaken during periods of prolonged dry weather when water diversion works are effective and in operation.</li> <li>Works only to be undertaken at low flow levels</li> <li>Effective water diversion to be in place</li> <li>Silt traps/netting/straw bales to be in place downstream</li> <li>Regular monitoring of watercourse water quality and especially at discharge points.</li> <li>Report any pollution incidents to NRW immediately: 0300 065 3000 24</li> <li>PPE to be worn – HiViz Jacket, Helmet, Safety Waders &amp; Gloves as a minimum.</li> <li>Welfare facilities to be available for washing, Weil's disease protocol to be adhered to.</li> </ul> |                             |   | X |
| 3  | <u>Noise</u>                                | Employees damaging hearing. Causing annoyance to nearby residents.                |                            | X |   | Yes                   | <ul style="list-style-type: none"> <li>Use low noise tools &amp; equipment – plant noise levels to be known prior to plant being used on site and the relevant exposure times monitored. Ear protection to be provided and used at levels above 80dB along with other means of reducing noise levels – Environmental noise blankets to be used on site fencing.</li> <li>Works to be undertaken only within agreed working hours as per contract data.</li> </ul>                                                                                                                                                                                                                                                                  |                             |   | X |
| 4  | <u>Vibration</u>                            | Risk of damage to fingers, hands and arms. Risk of damage to adjoining structures |                            | X |   | Yes                   | <ul style="list-style-type: none"> <li>Use low vibration tools - plant vibration levels to be known prior to plant being used on site and the relevant exposure times adhered to.</li> <li>Use well maintained equipment &amp; tools that will do the job properly in the shortest time.</li> <li>Take regular breaks and rotation of labour to reduce periods of exposure to vibration.</li> <li>Wear suitable gloves.</li> </ul>                                                                                                                                                                                                                                                                                                 |                             |   | X |
| 5  | <u>Ecology</u>                              | Risk to habitat, spreading of invasive plant species                              |                            | X |   | Yes                   | <ul style="list-style-type: none"> <li>LA Ecologist to survey area prior to works commencing</li> <li>Excavated material from areas of Japanese knotweed to be stored at agreed location for future removal by others as agreed with LA</li> <li>Provision of bat boxes etc to be agreed and installed</li> <li>Works to stop immediately if additional habitats are discovered and LA Ecologist informed</li> </ul>                                                                                                                                                                                                                                                                                                               |                             |   |   |

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|----|------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------|---|---|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---|---|
|    |                                                |                                                                                      | H                          | M | L |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H                           | M | L |
| 6  | <b><u>Excavations</u></b>                      | Falls, collapse of excavations<br>Risks associated with existing services            | X                          |   |   | Yes                   | <ul style="list-style-type: none"> <li>SSS to be briefed on SAP (Service Avoidance Plan)</li> <li>PERMIT TO DIG to be in place for all excavations.</li> <li>Support equipment used for deep excavations</li> <li>Road closure to Maestaf St &amp; secure Barriers to prevent unauthorised access.</li> <li>Site Manager to review adequacy of temporary support measures as work progresses.</li> <li>Qualified and experienced operatives.</li> </ul>                                                                                                                                                                                                                                                 |                             |   | X |
| 7  | <b><u>Fuelling of plant</u></b>                | Diesel spillage,<br>Contamination of watercourse                                     |                            | X |   | Yes                   | <ul style="list-style-type: none"> <li>Re-fuelling of compressor to take place away from watercourses &amp; drains.</li> <li>Use of drip trays/plant nappies to be used on static plant.</li> <li>Spill kits are to be on-hand.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |   | X |
| 8  | <b><u>Pedestrian management</u></b>            | Risk of pedestrians entering works areas during the working day and out of hours     |                            | X |   | Yes                   | <ul style="list-style-type: none"> <li>Works area to be adequately protected by barriers and signs,</li> <li>Supervisor to check barriers throughout the day and at end of shift.</li> <li>Measures to be reviewed if unauthorised access occurs.</li> <li>Maestaf St to remain closed for the duration of the works</li> <li>Pedestrian routes to be set-up as per TM Drawing</li> </ul>                                                                                                                                                                                                                                                                                                               |                             |   | X |
| 9  | <b><u>COSHH</u></b>                            | Working with cement– Burns etc                                                       |                            | X |   | Yes                   | <ul style="list-style-type: none"> <li>COSHH ASSESSMENT to be completed and adhered to.</li> <li>Appropriate PPE to be worn – Long Gloves, overalls, long sleeves, Hardhat &amp; eye protection during concreting operations.</li> <li>Use barrier cream before using material.</li> <li>Wash off thoroughly any concrete which gets in contact with skin.</li> <li>Any open wounds to be covered.</li> <li>Washing facilities to be available on site with Hot running water &amp; disinfectant.</li> <li>If concrete gets in eyes then wash out thoroughly.</li> <li>See doctor without delay if any symptoms persist.</li> </ul>                                                                     |                             |   | X |
| 10 | <b><u>Working around existing services</u></b> | Injury to personnel / property / equipment, e.g. explosion, flooding, electrocution. | X                          |   |   | Yes                   | <ul style="list-style-type: none"> <li>SSS to be briefed on SAP (Service Avoidance Plan)</li> <li>PERMIT TO DIG to be in place for all excavations</li> <li>Obtain records from statutory undertakers</li> <li>Trace services prior to excavating with CAT &amp; hand-dug trial holes</li> <li>Best Practice to be followed – See HSG47</li> <li>Hand excavation in vicinity of services (500mm Minimum).</li> <li>Insulated tools to be used to expose buried services.</li> <li>Personnel experienced &amp; Trained in use of CAT.</li> <li>Refer to Special Requirements in contract documents.</li> <li>Services affected to be diverted / isolated (by others) prior to works starting.</li> </ul> |                             |   | X |

PREPARED BY: Responsible Manager.....Chris Price.....

Supervisor/Foreman..... Martyn Gilbert.....

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