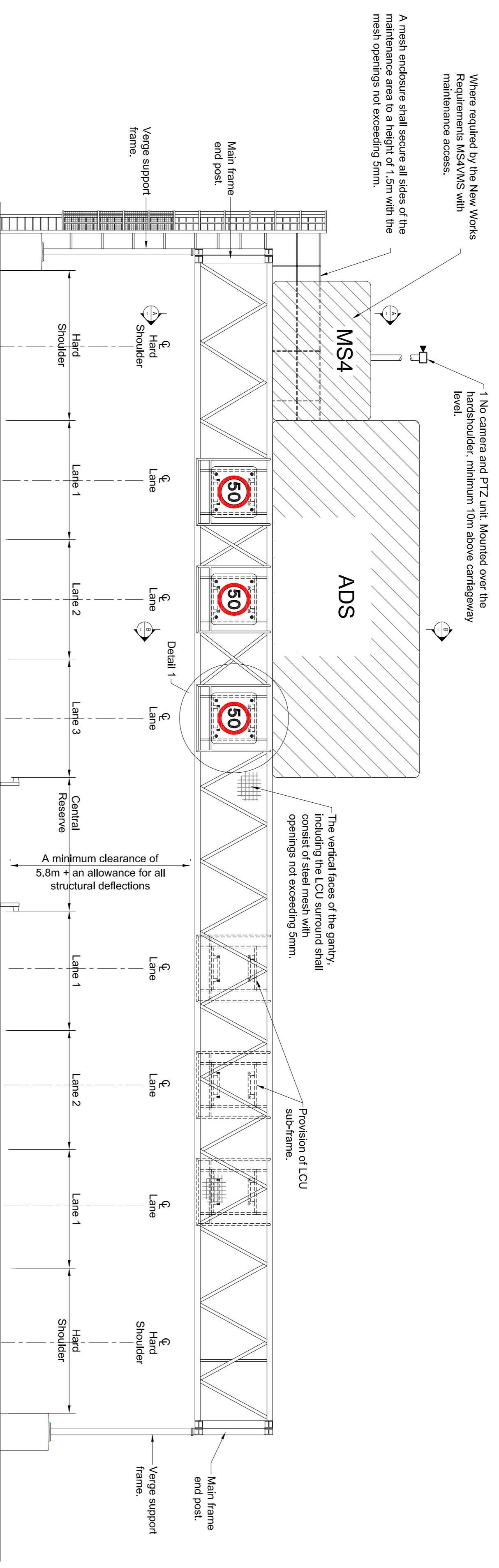


**Notes:**

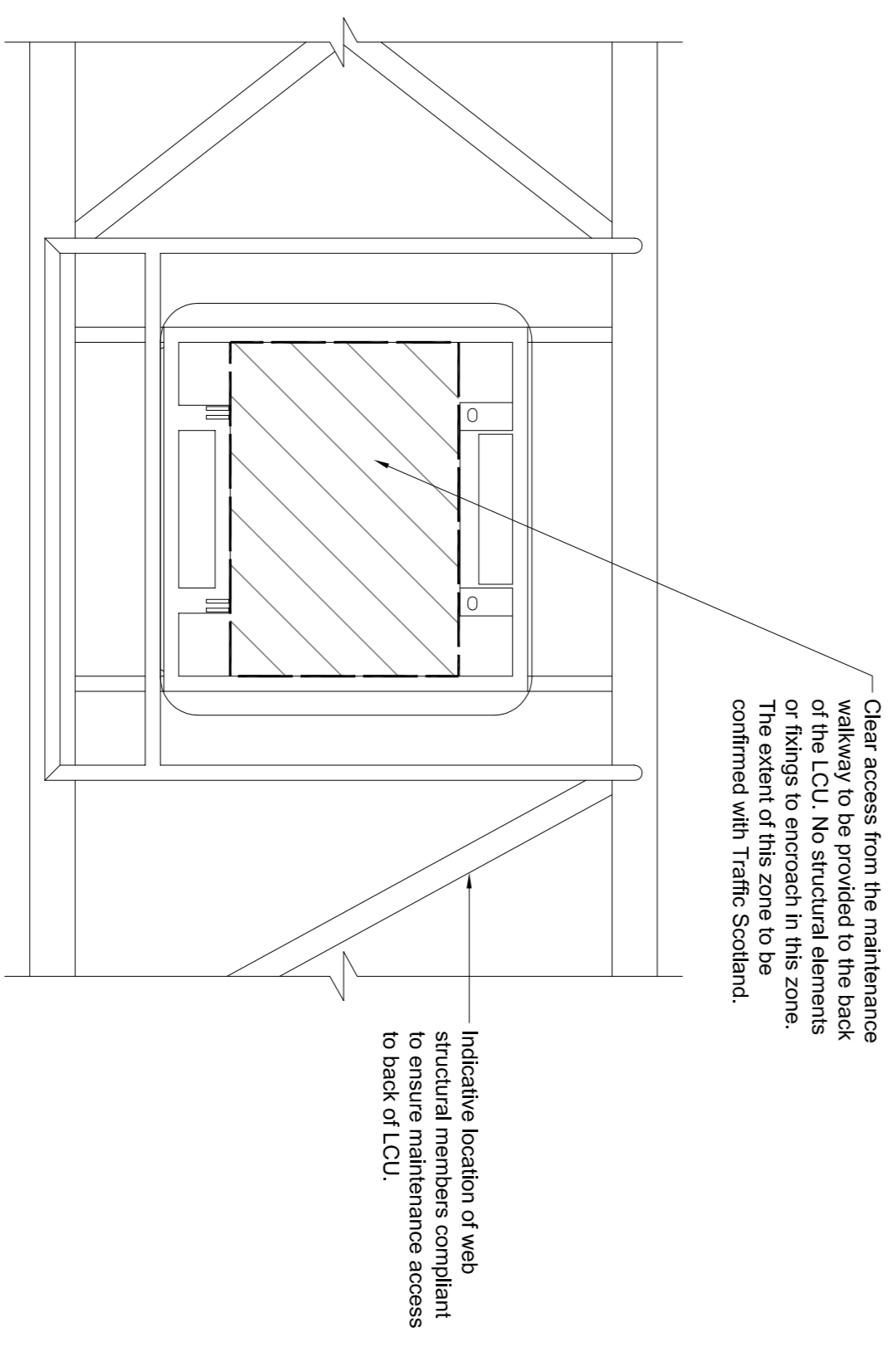
- All dimensions are in millimetres unless noted otherwise.
- This drawing defines the geometric requirements for portal gantries spanning a two carriageways.
- Spans will be dependent on the actual vehicle restraint system, working widths, visibility requirements and any other relevant constraints as detailed in the New Works Requirements.
- A maintenance walkway of minimum dimensions 2.1m high and 1.5m wide shall be provided within the gantry. No permanent fixings or structural elements shall intrude into this space.
- A maintenance walkway of minimum width 1.5m shall be provided behind the length of the MSA/VMS sign.
- A solid 150mm kick plate shall be provided immediately above walkway floor.
- 'I' beam of 500Kg SWL shall be attached to the top of the gantry to enable leads to be lifted/lowered from gantry walkways.
- All structural steelwork is shown for indicative purposes only.
- Carriageway configuration shown indicatively only. The general principle shall be to align the Lane Control Unit (LCU) over the centreline of the lane.
- Refer to the New Works Requirements for other specific gantry requirements.
- Angles of adjustment shall be in accordance with the Standards for Highway Works.
- No structural elements shall impede access to LCU equipment. LCU support frame shown indicatively only. Actual frame to suit LCU equipment.
- LCU support frame connections shall allow rotation both vertically and horizontally.
- ADS sign shown indicatively only. ADS support frame shall be designed to suit actual ADS sign requirements.
- MSA/VMS support frame shall be designed to suit actual VMS/MS4 equipment requirements.
- Equipment access to be provided over hard shoulder/hard strip in underside of gantry.
- A second emergency egress ladder shall be provided remote from the Maintenance Access Ladder.

**Legend**

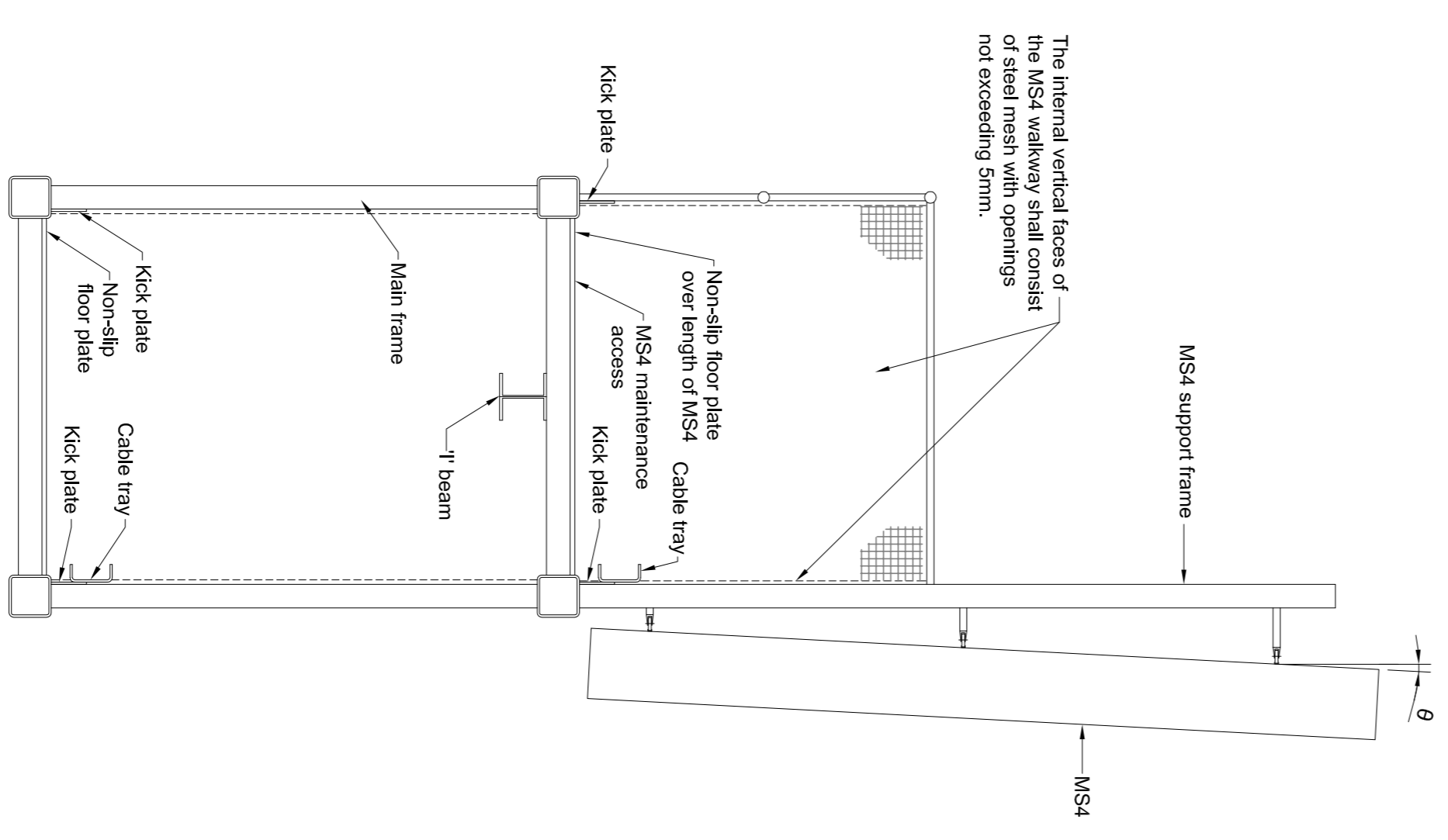
|     |   |   |
|-----|---|---|
| LCU | - | Lane Control Unit                           |
| MS4 | - | VMS which displays both pictograms and text |
| ADS | - | Advanced Direction Sign                     |
|     | - | Fine mesh with openings not exceeding 5mm.  |



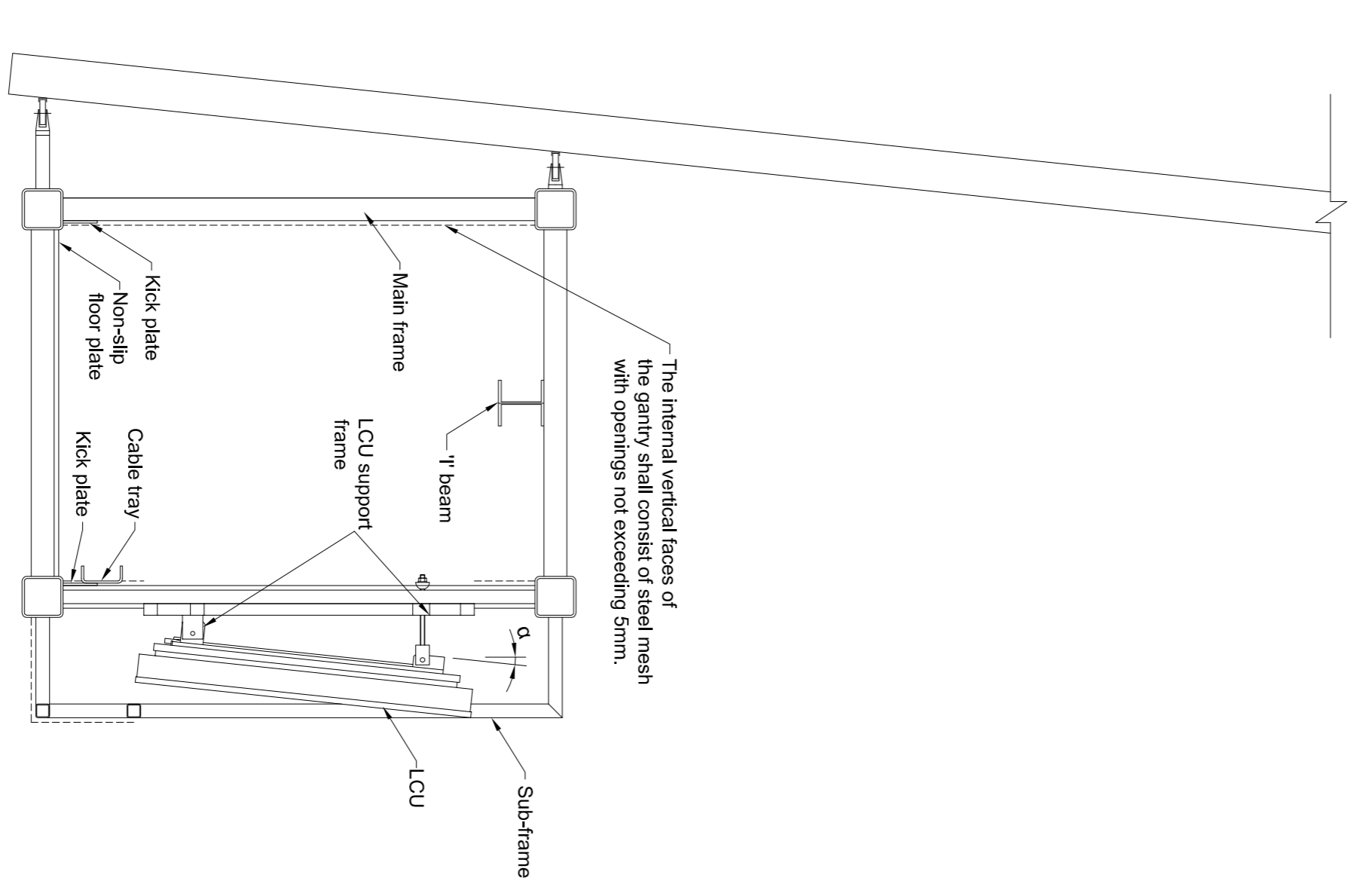
TYPICAL GANTRY ELEVATION  
SCALE 1:100



DETAIL 1  
SCALE 1:25



SECTION A-A  
Scale 1:25



SECTION B-B  
Scale 1:25

| <p>CLIENT</p> <p>TRANSPORT SCOTLAND</p>  | <p>PROJECT TITLE</p> <h2 style="text-align: center;">M8 M73 M74<br/>Motorway Improvements</h2> | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>REVISIONS</th> <th>BY</th> <th>CHKD</th> <th>APPD</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>AMENDMENTS</p> | REV  | REVISIONS   | BY   | CHKD  | APPD       | DATE  |            |           |    |              |    |       | <p>ENGINEER</p> <p>IN ASSOCIATION WITH</p> |       |            |  |  |
|--|--|--|--|-------------|------|-------|------------|-------|------------|-----------|----|--------------|----|-------|--|-------|------------|--|--|
| REV  | REVISIONS  | BY   | CHKD   | APPD        | DATE |       |            |       |            |           |    |              |    |       |  |       |            |  |  |
|  |  |  |  |             |      |       |            |       |            |           |    |              |    |       |  |       |            |  |  |
| <p>This map is based on Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Scottish Executive 100049685 2011</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DESIGN BY:</th> <td>IB</td> <th>CHECKED BY:</th> <td>ML</td> </tr> </thead> <tbody> <tr> <td>DATE:</td> <td>07/02/2012</td> <td>DATE:</td> <td>07/02/2012</td> </tr> <tr> <td>DRAWN BY:</td> <td>CF</td> <td>APPROVED BY:</td> <td>SA</td> </tr> <tr> <td>DATE:</td> <td>07/02/2012</td> <td>DATE:</td> <td>07/02/2012</td> </tr> </tbody> </table> |  | DESIGN BY:   | IB   | CHECKED BY: | ML   | DATE: | 07/02/2012 | DATE: | 07/02/2012 | DRAWN BY: | CF | APPROVED BY: | SA | DATE: | 07/02/2012                                 | DATE: | 07/02/2012 | <p>DRAWING TITLE</p> <h3 style="text-align: center;">DEFINITION DRAWING<br/>PORTAL GANTRY<br/>SPANNING TWO<br/>CARRIAGEWAYS</h3> |  |
| DESIGN BY:   | IB   | CHECKED BY:  | ML   |             |      |       |            |       |            |           |    |              |    |       |  |       |            |  |  |
| DATE:  | 07/02/2012   | DATE:  | 07/02/2012   |             |      |       |            |       |            |           |    |              |    |       |  |       |            |  |  |
| DRAWN BY:  | CF   | APPROVED BY:   | SA   |             |      |       |            |       |            |           |    |              |    |       |  |       |            |  |  |
| DATE:  | 07/02/2012   | DATE:  | 07/02/2012   |             |      |       |            |       |            |           |    |              |    |       |  |       |            |  |  |
| <p>SCALE AT A1<br/>AS SHOWN</p>  |  | <p>DRAWING NO</p> <h2 style="text-align: center;">M8/C/SG402/001</h2>  | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th> </th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table> | REV         |      |       |            |       |            |           |    |              |    |       |  |       |            |  |  |
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|  |  |  |  |             |      |       |            |       |            |           |    |              |    |       |  |       |            |  |  |