



# Hazard Identification and Design Risk Assessment

(Including Particular Risks & Other Significant Risks)

|                                |                                                |              |        |                                                                                                                                                                                                                                                                                                           |                                 |                                                                                                                                                     |                        |                                                               |                 |                    |
|--------------------------------|------------------------------------------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------|-----------------|--------------------|
| <b>Project Ref</b>             | St. Kevin's College, Ballygall, Dublin 11      |              |        | <b>Design Issue or Element</b>                                                                                                                                                                                                                                                                            | Proposed Roof Replacement Works |                                                                                                                                                     |                        |                                                               |                 |                    |
| <b>Job Number</b>              | 26 07                                          |              |        | <b>Page Number</b>                                                                                                                                                                                                                                                                                        | 1 of 6                          |                                                                                                                                                     |                        |                                                               |                 |                    |
| <b>Stage:</b>                  | <b>Scheme Stage</b>                            |              |        | <b>Pre-Tender Stage</b>                                                                                                                                                                                                                                                                                   |                                 |                                                                                                                                                     | <b>Other (Clarify)</b> |                                                               |                 |                    |
|                                | Name                                           | Hand Initial | Date   | Name                                                                                                                                                                                                                                                                                                      | Hand Initial                    | Date                                                                                                                                                | Name                   | Hand Initial                                                  | Date            |                    |
| <b>Designer</b>                | Glen Forde                                     | GF           | Feb 26 | Glen Forde                                                                                                                                                                                                                                                                                                | GF                              | April 26                                                                                                                                            |                        |                                                               |                 |                    |
| <b>Project Manager</b>         | Liam McLoughlin                                | LML          | Feb 26 | Liam McLoughlin                                                                                                                                                                                                                                                                                           | LML                             | April 26                                                                                                                                            |                        |                                                               |                 |                    |
| <b>Hazard</b>                  |                                                |              |        | <b>Design Mitigation measures</b>                                                                                                                                                                                                                                                                         |                                 | <b>Other Possible Mitigation Measures (including measures by Contractor on site)</b>                                                                |                        | <b>Residual Risk Assessment following mitigation measures</b> |                 |                    |
|                                |                                                |              |        |                                                                                                                                                                                                                                                                                                           |                                 |                                                                                                                                                     |                        | <b>Likelihood</b>                                             | <b>Severity</b> | <b>Risk Rating</b> |
| <b>1</b>                       | All works – Covid 19                           |              |        | All works Teams and Areas to be well co-ordinated and managed through the limitation of works personnel and construction teams within confirmed areas and spaces.                                                                                                                                         |                                 | Weekly toolbox talks via the site contracts Manager and the works Foreman                                                                           |                        | L                                                             | L               | L                  |
| <b>Access &amp; Site Works</b> |                                                |              |        |                                                                                                                                                                                                                                                                                                           |                                 |                                                                                                                                                     |                        |                                                               |                 |                    |
| <b>2</b>                       | Provision of site hoarding and fencing to site |              |        | Contractor to ensure adequate fencing/hoarding is erected all around site of works isolating areas of works from all other publicly accessible areas. Contractor to ensure access points to site of works are provided for authorized personnel with appropriate means of security in place at all times. |                                 | Contractor to ensure access points to site of works are provided for authorized personnel with appropriate means of security in place at all times. |                        | L                                                             | L               | L                  |
| <b>3</b>                       | Maintaining Fire Escape Routes                 |              |        | All fire escape doors from rooms to remain unobstructed and operational at all times for duration of works, as well as                                                                                                                                                                                    |                                 | Contractor to provide extra signage where required to ensure fire exits are clearly                                                                 |                        | L                                                             | H               | M                  |

**Likelihood of Hazard occurring**  
 L = Low (Seldom)  
 M = Medium (Reasonably Likely)  
 H = High (Certain/Nearly certain)

**Severity of Harm**  
 L = Minor Injury/Illness  
 M = Injury/Illness causing short term disability  
 H = Fatality or major injury/illness causing long term disability

**Risk Assessment**  
 L = Low Risk (No action)  
 M = Medium Risk (Action required unless good reason not to)  
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| Risk Table | Severity |   |   |
|------------|----------|---|---|
| Likelihood | H        | M | L |
| H          | H        | H | M |
| M          | H        | M | L |
| L          | M        | L | L |

| Hazard |                                                                                                                                                                 | Design Mitigation measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Other Possible Mitigation Measures (including measures by Contractor on site)                                                                                                                                                                                                                                                                                                    | Residual Risk Assessment following mitigation measures |          |             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------|-------------|
|        |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                  | Likelihood                                             | Severity | Risk Rating |
|        |                                                                                                                                                                 | alarms, detectors etc. in all areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | highlighted during works                                                                                                                                                                                                                                                                                                                                                         |                                                        |          |             |
| 4      | All Works – Pedestrian Access to Site                                                                                                                           | Contractor to ensure safe ingress and egress to and from site by all personnel with adequate provision for welfare facilities.                                                                                                                                                                                                                                                                                                                                                                                                              | Contractor to ensure access points to site of works are provided for authorized personnel with appropriate means of security in place at all times.                                                                                                                                                                                                                              | L                                                      | M        | L           |
| 5      | Site Works – Vehicular Access / Travel                                                                                                                          | Access to and from car park to be strictly controlled. Work areas are to be sealed off & no vehicles shall be permitted to park in car park while works are being carried out.                                                                                                                                                                                                                                                                                                                                                              | Maintain all traffic strictly within site rules and guidelines. Plan and assess all vehicular traffic movement at all times before departure movement.                                                                                                                                                                                                                           | L                                                      | L        | L           |
| 6      | All Works – Site Deliveries & Construction Traffic<br><br>Works involve the delivery and removal of building materials and equipment to site via public spaces. | No construction traffic is allowed on the site without prior agreement.<br><br>All deliveries and removals to and from site to be timed at periods of low usage/ traffic, e.g. outside of work hours.<br><br>Contractor to be mindful of the site compound’s location adjacent to the vehicle road and pedestrian route used as a means of entering and exiting the site.<br><br>Traffic and deliveries to be controlled and managed in a safe manner and the site compound is to be managed and kept secure for the duration of the works. | Contractor to ensure clear delivery procedures are in place and communicated to all necessary personnel to ensure smooth delivery operations.<br><br>Contractor to ensure access points to site of works are provided for authorized personnel with appropriate means of security in place at all times.<br><br>All building debris to be stored in agreed designated area only. | M                                                      | M        | M           |
| 7      | All Works - Noise levels and general disruption                                                                                                                 | Contractor to ensure noise levels and general disruption to the existing building and surrounding buildings and lands is kept to an absolute minimum.                                                                                                                                                                                                                                                                                                                                                                                       | Consideration to be given to neighbouring properties at all times.                                                                                                                                                                                                                                                                                                               | M                                                      | M        | M           |

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| Hazard                                                            |                                                                                                                    | Design Mitigation measures                                                                                                                                                                                                                                                                             | Other Possible Mitigation Measures (including measures by Contractor on site)                                                                                                         | Residual Risk Assessment following mitigation measures |          |             |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------|-------------|
|                                                                   |                                                                                                                    |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                       | Likelihood                                             | Severity | Risk Rating |
| 8                                                                 | Site Works – Potential to impact or reduce the means of escape from live work areas during the phased construction | Fire Consultant to assess this in detail when assessing agreeing the phasing with the Design Team                                                                                                                                                                                                      | Fire Consultant to guide Project Management and additional temporary signage to be erected.                                                                                           | M                                                      | M        | M           |
| 9                                                                 | Site Works – Live Electrical Services                                                                              | M&E Consultant to liaise with the contractor on the intended design and safe procurement of the works ensuring minimal to well-coordinated and planned shutdown of services if and when required.<br>The contractor is to check that all services are disconnected and safe prior to commencing works. | Design team shall provide GPR surveys where available.<br><br>Contractor to carry out ongoing briefings to explain each phase of work and the mitigating measures to be set in place. | L                                                      | H        | M           |
| Substructure - No Sub-Structure Works included in Scope of Works. |                                                                                                                    |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                       |                                                        |          |             |
| Superstructure                                                    |                                                                                                                    |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                       |                                                        |          |             |
| 10                                                                | Erection of scaffolding / access platforms                                                                         | Contractor to ensure all scaffolding and access platforms are correctly installed by suitably trained and certified personnel to all areas where works above ground level are to be undertaken.                                                                                                        | Appropriate protections to be put in place to surrounding structure and immediate area during works.                                                                                  | M                                                      | L        | M           |
| 11                                                                | Removal of existing roof finishes, Rainwater goods & clearstory windows                                            | Works to be carried out only by experienced operatives with the use of appropriate tools and equipment.<br>Appropriate PPE to be provided and worn during demolition works                                                                                                                             | Appropriate protections to be put in place to surrounding structure and immediate area during works.                                                                                  | M                                                      | M        | M           |
| 12                                                                | Roof Works - Working from a height on roof from the exterior to include using internal platforms and ladders       | Users to be fully trained and edge protection to be used where required.<br><br>Appropriate PPE to be provided and worn during works.                                                                                                                                                                  | Appropriate protections to be put in place to surrounding structure and immediate area during works.<br>Appropriate PPE to be provided and worn during demolition works.              | M                                                      | M        | M           |

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| Hazard    | Design Mitigation measures                                           | Other Possible Mitigation Measures (including measures by Contractor on site)                                                                                                                                                                                                                                        | Residual Risk Assessment following mitigation measures |          |             |
|-----------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------|-------------|
|           |                                                                      |                                                                                                                                                                                                                                                                                                                      | Likelihood                                             | Severity | Risk Rating |
| <b>13</b> | Roof Works - Roof works during adverse weather                       | Roofing contractors to be aware of potential risks while working in adverse weather.                                                                                                                                                                                                                                 |                                                        |          |             |
|           |                                                                      | Maintain strict weather rule on working height and storage of materials. Continuing works on roof are to be controlled by roof permit system. If required in permit notices works are to be halted and operatives stood down. Equipment to be removed from roof areas.                                               | H                                                      | H        | H           |
| <b>14</b> | Roof M&E Works - Lifting and installation of Roof equipment          | Use of platform lifts or man handling requirement to lift M&E units into place once lifted to roof level. Materials to have minimal maintenance where possible to minimise the requirement for roof access.<br><br>Safe and well-designed future roof access to be included in the proposed works package.           |                                                        |          |             |
|           |                                                                      | Specialist Designer/ Supplier to be engaged to carry out this specialist works with the production of their own RAMS for the task in hand.                                                                                                                                                                           | M                                                      | M        | M           |
| <b>15</b> | Installation of New flat Roof Systems                                | Works to be carried out only by experienced operatives with the use of appropriate tools and equipment. Specialist contractor / trained personnel to be engaged to carry out this specialist works with the production of their own RAMS for the task in hand. Appropriate PPE to be provided and worn during works. |                                                        |          |             |
|           |                                                                      | Appropriate protections to be put in place to surrounding immediate area during works                                                                                                                                                                                                                                | L                                                      | H        | M           |
| <b>16</b> | Installation of new clearstory glazing systems & associated upstands | Works to be carried out only by experienced operatives with the use of appropriate tools and equipment.<br><br>Appropriate protections to be put in place to surrounding immediate area during works<br><br>Appropriate PPE to be provided and worn during these works.                                              |                                                        |          |             |
|           |                                                                      | Any Sub-window contractors shall be inducted on site and notified of any other hazardous works on site. Contractor to ensure all scaffolding and access platforms are correctly installed by suitably trained and certified personnel to all areas where works above ground level are to be undertaken.              | L                                                      | M        | L           |

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| Hazard                                                                                    | Design Mitigation measures                                                                              | Other Possible Mitigation Measures (including measures by Contractor on site)                                                                                                                                                                                                                                                    | Residual Risk Assessment following mitigation measures |          |             |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------|-------------|
|                                                                                           |                                                                                                         |                                                                                                                                                                                                                                                                                                                                  | Likelihood                                             | Severity | Risk Rating |
| <b>17</b>                                                                                 | Installation of new upstands & rooflight                                                                | Works to be carried out only by experienced operatives with the use of appropriate tools and equipment.<br><br>Appropriate protections to be put in place to surrounding immediate area during works<br><br>Appropriate PPE to be provided and worn during works.                                                                | L                                                      | H        | M           |
| <b>18</b>                                                                                 | Roof Works - Future Roof Maintenance and Servicing                                                      | Roof Design to be carefully considered through the use of robust materials and systems with insurance backed warranties.<br><br>Materials to have minimal maintenance where possible to minimise the requirement for roof access.<br><br>Safe and well-designed future roof access to be included in the proposed works package. | L                                                      | M        | M           |
| <b>Internal Works – Inc Finishes &amp; FF&amp;E (Fittings, Furnishings and Equipment)</b> |                                                                                                         |                                                                                                                                                                                                                                                                                                                                  |                                                        |          |             |
| <b>19</b>                                                                                 | Removal and replacement of internal ceiling finishes/ linings. Alteration of existing Rooflight shafts. | Works to be carried out only by experienced operatives with the use of appropriate tools and equipment.<br>Appropriate protections to be put in place to surrounding structure and immediate area during works.<br>Appropriate PPE to be provided and worn during these works.                                                   | M                                                      | M        | M           |

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|--------|----------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|----------|-------------|
|        |                            |                                                                               | Likelihood                                             | Severity | Risk Rating |

### Building Services & MEP

|    |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |
|----|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
| 20 | Internal Works - Electrical installations / lighting upgrades | <p>M&amp;E Consultant to liaise with the contractor on the intended design and safe procurement of the works ensuring minimal to well-coordinated and planned shutdown of services if and when required.</p> <p>The contractor is to check that all services are disconnected and safe prior to commencing works.</p> <p>Works to be carried out only by suitably qualified personnel and in strict accordance with relevant Electrical regulations and codes of practice.</p> <p>Testing of existing electrical installations and isolation of circuits to be carried out prior to commencement, by suitably qualified personnel.</p> <p>Re-connection and testing of all to be carried out on completion, by suitably qualified personnel.</p> | <p>Contractor/ Client to carry out ongoing briefings to explain each phase of work and the mitigating measures to be set in place.</p> <p>Contractor to take great care when working within or near any riser or service shafts within the building. Appropriate protections to be put in place to surrounding structure and immediate area during works.</p> <p>Edge protection to be used and works well managed and sequenced.</p> | L | M | L |
|----|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|

**End of Document.**

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