



## **MAGNUM CONSTRUCTION SERVICES INC.**

### **FALL PROTECTION & RESCUE PLAN**

**Document Code:** MCS-QHSE-12 | **Revision:** 1.0 | **Effective Date:** October 31 2025

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#### **1. PURPOSE**

To establish minimum requirements for preventing falls and providing for the safe rescue of workers exposed to fall hazards at Magnum Construction Services Inc. projects. The goal is to eliminate fall-related injuries and fatalities through planning, engineering, training, and emergency preparedness.

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#### **2. SCOPE**

Applies to all Magnum job sites where employees or subcontractors may be exposed to fall hazards of **6 ft (1.8 m) or more** or where work is conducted on elevated surfaces such as roofs, scaffolds, ladders, steel structures, formwork, or aerial lifts.

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#### **3. REFERENCES**

- **OSHA 29 CFR 1926 Subpart M – Fall Protection**
  - **OSHA 29 CFR 1926 Subpart X – Ladders & Stairways**
  - **ANSI Z359 Series – Fall Protection Code**
  - **ANSI A10.32 – Personal Fall Protection for Construction**
  - **ISO 45001 Clause 8.1.4 – Hierarchy of Controls**
  - **Magnum Field Safety Program (MCS-QHSE-02)**
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#### 4. RESPONSIBILITIES

| Role                                      | Responsibilities                                                                                        |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Executive Director / CEO</b>           | Approves corporate policy; ensures resources for fall-protection equipment and training.                |
| <b>Corporate EHS Director</b>             | Maintains program; audits sites; approves rescue procedures and annual updates.                         |
| <b>Project Manager</b>                    | Plans fall-protection measures in pre-construction and ensures procurement of required systems.         |
| <b>Site Superintendent / Foreman</b>      | Implements daily fall-protection inspections; enforces use of harnesses, anchor points, and guardrails. |
| <b>Competent Person (Fall Protection)</b> | Inspects systems; trains personnel; has authority to stop unsafe work.                                  |
| <b>Employees / Subcontractors</b>         | Use PPE as trained; inspect before use; immediately report damage or unsafe conditions.                 |

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#### 5. HAZARD IDENTIFICATION AND ASSESSMENT

Typical fall hazards on Magnum sites include:

- Unprotected edges, floor openings, and leading edges
- Roofing and decking operations
- Scaffold erection/dismantling
- Aerial lift and boom-lift work
- Structural steel erection
- Formwork, rebar placement, and elevated pours

Each task is evaluated through a **Job Hazard Analysis (JHA)** identifying hazard location, fall distance, and control method.

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## 6. HIERARCHY OF CONTROLS FOR FALL PROTECTION

1. Eliminate the need to work at height (prefabricate at ground level).
2. Use passive protection – guardrails, floor covers, scaffolds with toe boards.
3. Use travel-restraint systems to prevent reaching a fall edge.
4. Use personal fall-arrest systems (PFAS) only when higher-order controls are not feasible.
5. Implement administrative controls (training, work-permit authorization, safe-work sequencing).

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## 7. FALL PROTECTION SYSTEMS & REQUIREMENTS

| System                            | Key Specifications / Requirements                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------|
| Guardrail Systems                 | Top rail 42 in $\pm$ 3 in; mid-rail 21 in; capable of 200 lb outward force.            |
| Safety Nets                       | Installed $\leq$ 30 ft below working surface; drop-tested $\geq$ 400 lb bag of sand.   |
| PFAS (Harness + Lanyard + Anchor) | Minimum anchor capacity 5,000 lb per person or 2 $\times$ intended load if engineered. |
| Self-Retracting Lifelines (SRLs)  | Use $\leq$ 2 ft free-fall distance; service per manufacturer.                          |
| Horizontal Lifelines              | Designed and certified by qualified engineer; include deflection analysis.             |
| Ladders and Scaffolds             | Inspected daily by competent person; tagged SAFE/UNSAFE; three-point contact rule.     |

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## 8. INSPECTION AND MAINTENANCE

- Harnesses and lanyards inspected **before each use** and **monthly by competent person**.
- Damaged or expired equipment must be tagged “OUT OF SERVICE.”
- Inspection records retained for **5 years** in project safety file.

## 9. TRAINING REQUIREMENTS

- All workers exposed to fall hazards receive OSHA fall-protection training prior to assignment.
  - Competent Person training for foremen/supervisors.
  - Authorized Rescuer training for designated crew members.
  - Annual refresher and drill required.
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## 10. RESCUE PROCEDURES

### 10.1 Objective

Ensure prompt, safe recovery of any worker suspended in a fall-arrest system to prevent **suspension trauma** and secondary injury.

### 10.2 Rescue Methods

- **Self-Rescue:** Worker climbs to safe platform using SRL or self-rescue device.
- **Assisted Rescue:** Trained rescuers use fall-arrest rescue kit or aerial lift.
- **Technical Rescue:** Activate 911 and Magnum ERT for complex scenarios (crane rescue, confined space).

### 10.3 Rescue Equipment

- Rescue lanyards, poles, and descent devices (certified ANSI Z359).
- Tripod systems for vertical rescue over edges or shafts.
- First-aid kit and AED readily available.

### 10.4 Post-Incident Actions

- Medical evaluation for rescued worker.
  - Incident report and root-cause investigation within 24 hrs.
  - Equipment involved removed from service pending inspection.
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## **11. FALL PROTECTION PLANNING CHECKLIST**

- ✓ Identify all elevated work areas (> 6 ft).
  - ✓ Select and certify anchor points.
  - ✓ Ensure ladders and scaffolds tagged and inspected.
  - ✓ Confirm workers trained and fit-tested for harness use.
  - ✓ Assign rescue team and verify equipment on site.
  - ✓ Document plan in daily JHA and Toolbox Talk.
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## **12. EMERGENCY CONTACT PROTOCOL**

- Notify Site Superintendent → Safety Officer → Project Manager.
  - Activate 911 and corporate EHS hotline.
  - Preserve scene for investigation after rescue.
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## **13. PERFORMANCE METRICS**

- Zero fall-related incidents goal.
  - 100 % worker training compliance.
  - Quarterly equipment audit completion.
  - Annual fall-rescue drill conducted at each active project.
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## **14. REVIEW AND REVISION**

Reviewed annually or following any fall event, equipment change, or regulatory update.  
Revisions approved by Corporate EHS Director and Executive Leadership.

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## 15. APPROVAL SIGNATURES

| Approved By            | Title                        | Signature | Date  |
|------------------------|------------------------------|-----------|-------|
| Michael Gaya           | Executive Director / CEO     | _____     | _____ |
| Anthony Magadino       | President / Managing Partner | _____     | _____ |
| Corporate EHS Director |                              | _____     | _____ |

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