**This scenario and its facts are offered for informational purposes only and does not constitute a real report.**

**JOB Safety TASK ANALYSIS**

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| **DATE:** February 2, 2010 |  | **JOB NUMBER:** 097321 | |  | |
| **ANTICIPATED START DATE:** February 12,2010 |  | **ANTICPATED COMPLETION DATE:** April 18,2010 | |  |
| **SUPERINTENDENT:** Bill Jones |  | **FOREMAN:** John Adams | |  | |
| **COMPETENT PERSON:** Bill Jones, John Adams, Ron Smith, Dave Parks | | |
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**Scope of work**

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| **SCOPE OF WORK:** |
| Erection of structural steel bridge floor beams and girders at the Conner Ave Bridge. |

**equipment and safety**

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| **EQUIPMENT NEEDS:** |
| Manitowoc 4100 crane, flatbed trailer, man lifts, welding machine. |
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| **SAFETY EQUIPMENT NEEDS:** |
| Full body harness, shock absorber lanyards, beam walker fall arrest system, goggles, ear protection, welding shield, 1/2" safety cable. |
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| **SAFETY PROGRAMS:** |
| Job Specific safety program, Fall management safety program, Haz Com Program. |

**Hazard Identification Awareness**

**Will activity involve work at heights in excess of 6 feet**  **Yes**  **No**

**Will activity involve any hot work (i.e. welding, burning or cutting)  Yes  No**

**Will activity require the use of crane(s)  Yes  No**

**Will activity require working in a confined space  Yes  No**

**Will activity result in exposure to airborne contaminants requiring the use of respiratory protection  Yes  No**

**Will activity require the use of scaffolds  Yes  No**

**Will activity require the use of ladders  Yes  No**

**Will activity involve excavation of trenches  Yes  No**

**Will activity result in potential exposure to the general public  Yes  No**

**Have all necessary permits been procured**  **Yes**  **No**  **N/A**

**Have all required and approved shop drawings/specifications been issued**  **Yes**  **No**  **N/A**

**Are proper Quality Control/Quality Assurance and controlled inspections procedures in place  Yes  No  N/A**

**Hazards and solutions**

**TASK HAZARD SOLUTION**

| Steel Erection | Falls from elevations during steel erection operations | Structural steel members will be equipped with a beam walker fall arrest system attached to the top flange of the beam. This system will be installed while the steel is on the ground resulting in the steel members being hoisted with the fall protection system in place. Workers required to walk the steel will secure their lanyard to the fall arrest system prior to walking the steel. Fall arrest system and anchor points will be capable of withstanding at a minimium 5000 lbs per person. No more then 2 persons will be ever be attached to the fall arrest system. This system and procedures will also be utilized during installation of corrguated decking.  Whenever possible manlifts will be utilized to bolt up and detail the steel thereby eliminating the need for ironworkers to walk the steel. Workers will be tied off while working inside manlifts. |
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| Steel Erection at Pier Caps | Fall exposures along pier caps during erection of steel members. | Fall protection system consisting of 1/2" diameter steel cable secured to stanchion bolted to pier cap will be utilized. Workers on top of pier cap will attach their lanyard to the safety cable. Fall protection system will be capable of withstanding 5000 lb force per person. No more then 2 workers per static line. |

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| Crane Operations | Crane failure during hositing operations | Prior to any crane hoisting, picks will be engineered to ascertain weight of the members verfying the picks are within the safe working capacity of the crane. Review of crane set up including size of the crane, location of crane (overhead power lines), boom length, radius, ground conditions and complete extension of all outriggers will be conducted with operator, superintendent and foreman. Crane will be given a thorough inspection prior to use to ensure the rig is in proper working order. Inspection will include but not be limited to wire rope, sheaves, breaks, load charts, review of weekly & monthly inspection check list, safety latch on hook block and anti-two blocking device. |

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| Crane Operations | Rigging Failure | Prior to any hoisting, all rigging including but not limited to nylon slings, steel chockers, shackles and beam clamps will be inspected to insure that no external defects are evident. All rigging will be examined to insure that the rigging is designed to safely carry the intended loads. Rigging of hoisting material will be performed only by qualified workers trained in proper rigging techniques. |

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| Crane Operations | Crushed By or Working Under Loads | The swing radius of the cranes super structure will be barricaded to isolate workers from the cranes rotating parts. No worker will be allowed to work under hoisted loads. Air horn will be used to alert workers when load is being hoisted. Tag lines will be used for all picks. |

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| Crane Operations | Crane working on unstable ground | Cribbing or wood matts will be utilized under each outrigger or crawlers to spread the load over a greater area. Leveling of crane will be performed prior to hoisting |

**Signatures**

**Reviewed by**       **Date**

**Reviewed with Crew  Yes  No** **Date**

**Employee Signatures**

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