Part 1 **General**

1.1 **RELATED SECTIONS**

.1 Section 01 61 00 - Common Product Requirements

.2 Section 01 78 00 - Closeout Submittals

1.2 **REFERENCES**

.1 Canadian Standards Association (CSA International)

.1 CSA C22.2 No. 100-04, Motors and Generators.

.2 CSA C22.2 No. 145-M1986(R2004), Motors and Generators for Use in Hazardous Locations.

.3 CAN/CSA G40.20/G40.21-98, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.

.4 CAN/CSA-G164-M92(R1998), Hot Dip Galvanizing of Irregularly Shaped Articles.

.5 CAN/CSA-S16-01, Limit States Design of Steel Structures.

.6 CAN/CSA-S136-94(R2001), Cold Formed Steel Structural Members.

.7 CSA-S136.1-95(R2001), Commentary on CSA Standard S136.

.8 CSA W47.1-92(R2001), Certification of Companies for Fusion Welding of Steel Structures.

.9 CSA W48-01, Filler Metals and Allied Materials for Metal Arc Welding.

.10 CSA W55.3-1965(R1998), Resistance Welding Qualification Code for Fabricators of Structural Members Used in Buildings.

.11 CSA W59-M1989(R2001), Welded Steel Construction (Metal Arc Welding) Metric.

1.3 **SUBMITTALS**

.1 Submittals: in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data: submit WHMIS MSDS - Material Safety Data Sheets and include: product characteristics, performance criteria, physical size, horsepower, watt rating, limitations and finish.

.3 Shop drawings:

.1 Submit drawings stamped and signed by professional engineer registered or licensed in the Province of Newfoundland and Labrador, Canada.

.2 Indicate:

.1 Overall dimensions.

.2 Fixing support dimensions.

.3 Arrangement and dimensions of accessories.

.4 Diagram of connections.

.5 Rating.

.6 Weight.

.7 Installation data.

.4 Closeout Submittals:

.1 Provide maintenance data for jib crane and all components for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

.2 Data necessary for maintenance of jib crane and all components.

.3 Manufacturer's recommended list of spare parts.

.5 Quality Assurance:

.1 Submit site tests results of installed jib crane and components.

1.4 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store, handle and protect materials in accordance with Section 01 61 00 - Common Product Requirements.

.2 Deliver, store and handle materials in accordance with manufacturer's written instructions.

.3 Handle jib crane and all components with suitable lifting equipment.

.4 Store all equipment in heated, dry, weather-protected enclosure.

1.5 EXTRA MATERIALS

.1 Provide maintenance materials and spare parts in accordance with Section 01 78 00 - Closeout Submittals.

Part 2 Products

2.1 MATERIALS

.1 Jib:

.1 Structural steel: to CAN/CSA-G40.20/G40.21 and/or CAN/CSA-S136.

.2 Anchor bolts: to CAN/CSA-G40.20/G40.21, Grade 300W ASTM A36/A36M.

.3 High strength anchor bolts: to ASTM A193/A 93M.

.4 Bolts, nuts and washers: to ASTM A325.

.5 Welding materials: to CSA W48 Series CSA W59 and certified by Canadian Welding Bureau.

.6 Hot dip galvanizing: galvanize steel to CAN/CSA-G164, minimum zinc coating of 600 g/m^2.

.7 Boom to have inorganic zinc coating only.

.2 Hoist and Trolley:

.1 CSA Approved

.3 Motor:

.1 Non-hazardous to CSA C22.2 No. 100 and EEMAC M1-7
.2 Hazardous locations to CSA C22.2 No. 145

.4 Chain:

.1 Chain: Nickel plated

2.2 CORROSION PREVENTION AND FINISH PAINTING

.1 Provide equipment with coating systems suitable for marine environment.

2.3 RATING

.1 Jib:

.1 Capacity: 2 Ton

.2 Hoist and Trolley:

.1 Capacity: 2 Ton

2.4 TROLLEY AND HOIST ENCLOSURE

.1 Totally enclosed non-ventilated.

2.5 SERVICE CONDITIONS

.1 Ocean environment.

2.6 APPLICATION

.1 Hoist and trolley suitable for lifting boat onto dock.

2.7 PERFORMANCE CHARACTERISTICS

.1 Jib:

.1 Span: 17 ft
.2 Height under boom: 20 ft
.3 Mast diameter: 20 in. Maximum
.4 Jib to have 180 degree power rotate with option for manual operation.
.5 Jib power: 240 V, 1 phase, 60 Hz.
.6 Base plate to fit within a square of 56 in. side dimension.
.7 Jib to be stand-alone unit with no guy wires.

.2 Trolley and hoist:

.I Hoist speed: 8 fpm
.2 Trolley speed: 30 fpm
.3 Hoist power: 240 V, 1 phase, 60 Hz
.4 Trolley power: 240 V, 1 phase, 60 Hz
.5 Lift: 40 ft
.6 Time rating: continuous

.3 Service factor: 1.

2.8 DUTY CYCLE

.1 Continuous

2.9 BEARINGS

.1 Antifriction type bearings, fitted with readily accessible facilities for lubrication while motor running or stationary.

2.10 ACCESSORIES

.1 End stops and Rotation stops

.2 Cast in place anchors and base template

.3 Grease nipples

.4 Pendant: 40 ft long.

.5 Remote:

- .1 Up/ down
- .2 North/ east
- .3 2 transmitters
- .4 1 receiver
- .5 Required batteries

.6 Chain container

.7 Accessories: suitable for use in same hazardous location as that specified for jib.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

END OF SECTION