|  |  |  |
| --- | --- | --- |
| Version | Date | Description of Revisions |
| 1 | August 30, 2006 | Approved final document. |
| 2 | November 19, 2007 | Minor revisions by Legal Services. |
| 3 | November 13, 2009 | Modified ‘Related Section’ |
| 4 | March 15, 2011 | Minor changes from Legal. |
| 5 | June 5, 2012 | Added References and Replacement Parts Sections |
| 6 | July 3, 2012 | Reformatted to Remove White Space |
| 7 | April 22, 2015 | General Formatting |
| 8 | August 24, 2015 | First draft Phase 1 review (AV) |
| **9** | **October 19, 2015** | **Updated, Finalized Specification – Legal Reference eDOCS #6263208 v3 (AV)** |
|  |  |  |

NOTE:

This is a CONTROLLED Document. Any documents appearing in paper form are not controlled and should be checked against the on-line file version prior to use.

**Notice:** This Document hardcopy must be used for reference purpose only.

**The on-line copy is the current version of the document.**

# GEneral

## Related Sections

### *[Under "Related Sections", identify other Sections that are related to, and/or dependent on, the work results or information specified elsewhere. The list should be limited to Sections with specific information that the reader might expect to find in this Section, but is specified elsewhere. For example, if hardware for aluminum entrances is specified in the aluminum entrance Section, a cross-reference would be appropriate in the finish hardware Section. The purpose of this cross-referencing is for information only, to aid in finding those other requirements—not to define the scope of the Section.*

### *Cross-referencing here may also be used to coordinate assemblies or systems whose components may span multiple Sections and which must meet certain performance requirements as an assembly or system.*

### *Contractor is responsible for coordination of the Work.*

### *This Section is to be completed/updated during the design development by the Consultant. If it is not applicable to the section for the specific project it may be deleted.]*

### *[List Sections specifying installation of products supplied but not installed under this Section and indicate specific items.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Execution requirements for ...[item]... specified under this Section.

### *[List Sections specifying products installed but not supplied under this Section and indicate specific items.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Product requirements for ...[item]... for installation under this Section.

### *[List Sections specifying related requirements.]*

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: [Optional short phrase indicating relationship]. [List Sections specifying related requirements.]

### Section 01060 – Regulatory Requirements

### Section 01300 – Submittals

## References

*[Delete .1 if Section 01060 – Regulatory Requirements is included in Contract Documents.]*

### [Comply with the latest edition of the following statutes, codes and standards and all amendments thereto.]

#### CAN/CSA-A23.1-14/A23.2-14, Concrete Materials and Methods of Concrete Construction/ Test Methods and Standard Practices for Concrete.

#### CAN3-A370-14, Connectors for Masonry.

#### CAN3-A371-14, Masonry Construction for Buildings.

#### CSA G30.18-09 (R2014), Carbon Steel Bars for Concrete Reinforcement.

#### CAN3-S304-14, Design of Masonry Structures.

#### CSA W186-M1990 (R2012), Welding of Reinforcing Bars in Reinforced Concrete Construction.

#### CSA A179-14, Mortar and Grout for Unit Masonry.

#### ASTM A1064/A1064M-15, Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, For Concrete

#### Reinforcing Steel Institute of Canada (RSIC), Reinforcing Steel Manual of Standard Practice

## Measurement and Payment

*[Choose one of the following payment language provisions that best suits the individual project.*

*If this Section is not specifically referenced by an item in the Bid Form, please use the following language:*

### The work of this Section will not be measured separately for payment. All costs associated with the work of this Section shall be included in the Contract Price.

*OR If this Section is specifically referenced in the Bid Form, use the following language and identify the relevant item in the Bid Form:*

### All costs associated with the work of this Section shall be included in the price(s) for Item No(s). \_\_\_ in the Bid Form.

### *If the work of this Section is to be measured and paid for by several different methods, please amend the standard wording given above to reflect the different methods of measurement and payment.*]

## Quality Assurance

### Test Reports: certified test reports showing compliance with the specified performance characteristics and physical properties.

### Certificates: Product certificates signed by the manufacturer certifying that the materials comply with the specified performance characteristics and criteria and the physical requirements.

### Pre-Installation Meetings: conduct pre-installation meetings to verify Contract Work requirements, manufacturer’s installation instructions and manufacturer’s warranty requirements. Comply with the requirements of Section [       ]. *[Consultant to amend with details as required]*

## Submittals

### Product Data:

#### Submit the manufacturer’s printed Product literature, specifications and data sheets in accordance with Section 01300 – Submittals.

#### Submit [two] [     ] copies of WHIMIS MSDS – Material Safety Data Sheets in accordance with Section 01300 – Submittals.

### Shop Drawings:

#### Submit shop drawings in accordance with Section 01300 - Submittals.

#### Shop drawings consist of bar bending details, lists and placing drawings.

#### On placing drawings, indicate the sizes, spacing, location and quantities of reinforcement and connectors.

### Manufacturer’s Instructions:

#### Submit the manufacturer’s installation instructions.

# products

## Materials

### Bar reinforcement: in accordance with CSA A371-14 and CSA G30.18-09 (R2012), Grade [400].

### Wire reinforcement: in accordance with CSA A371-14 and CSA G30.14, [ladder] [truss] type.

### Connectors: in accordance with CSA A370-14 and CSA S304-14.

### Corrosion protection: in accordance with CSA S304-14, galvanized.

## Fabrication

### Fabricate reinforcing in accordance with CSA-A23.1-14 and the Reinforcing Steel Manual of Standard Practice by the Reinforcing Steel Institute of Canada (RSIC).

### Fabricate connectors in accordance with CAN3-A370-14.

### Obtain the Consultant’s approval for the locations of reinforcement splices other than as shown on the placing drawings.

### Upon the approval of the Consultant, weld reinforcement in accordance with CSA W186-M1990 (R2012).

### Ship reinforcement and connectors, clearly identified in accordance with the Contract Drawings.

# execution

## General

### Supply and install masonry connectors and reinforcement in accordance with CAN3-A370-14, CAN3-A371-14, CAN/CSA-A23.1-14 and CAN3-S304-14 unless indicated otherwise in the Contract Documents.

### Prior to placing [concrete] [mortar], [grout], obtain the Consultant’s approval of the placement of the reinforcement and connectors.

### Supply and install any additional reinforcement of masonry as indicated in the Contract Documents.

## Bonding and Tying

### Bond walls of two or more wythes using [metal] connectors in accordance with the NBC, CAN3-S304-14, CAN3-A371-14 and as indicated in the Contract Documents.

### Tie masonry veneer to backing in accordance with the NBC, CAN3-S304-14, CAN3-A371-14 and as indicated in the Contract Documents.

## Reinforced Lintels and Bond Beams

### Reinforce masonry lintels and bond beams as indicated in the Contract Documents.

### Place and grout reinforcement in accordance with CAN3-S304-14.

## Grouting

### Grout masonry in accordance with CAN3-S304-14, CSA-A371-14 and CSA-A179-14 and as indicated in the Contract Documents.

## Metal Anchors

### Supply and install metal anchors as indicated in the Contract Documents.

## Lateral Support and Anchorage

### Supply and install lateral support and anchorage in accordance with CAN3-S304-14, CSA-A371-14 and CSA-A179-14and as indicated in the Contract Documents.

## Control Joints

### Terminate reinforcement 25 mm short of each side of control joints unless otherwise indicated in the Contract Documents.

## Field Bending

### Do not field bend reinforcement and connectors except where indicated in the Contract Documents or where authorized by the Consultant.

### When field bending is authorized, bend without heat, applying a slow and steady pressure.

### Replace bars and connectors which develop cracks or splits.

## Field Touch-up

### Touch up damaged and cut ends of epoxy coated or galvanized reinforcement steel and connectors with a compatible finish to provide a continuous coating.

## Cleaning

### Upon completion of installation, remove any surplus materials, rubbish, tools and equipment barriers.

**END OF SECTION**