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**MATERIAL, EQUIPMENT & WORKMANSHIP QUALITY**

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**PART 1 GENERAL****1.1 Related Work**

- .1 Section [01330](#) Submittals
- .2 Section [01450](#) Quality Control & Inspection
- .3 Section [01500](#) Temporary Construction Facilities & Controls
- .4 Section [01561](#) Environmental Protection
- .5 Section [01700](#) Contract Closeout, Takeover, Warranties
- .6 Section [01740](#) Cleaning

**1.2 Reference Standards**

- .1 Within the text of the specifications, reference maybe made to the following standards:
  - ACI - American Concrete Institute
  - AISC - American Institute of Steel Construction
  - ANSI - American National Standards Institute
  - ASTM - American Society of Testing and Materials
  - CGSB - Canadian General Standards
  - CISC - Canadian Institute of Steel Construction
  - CLA - Canadian Lumberman's Association
  - CNTA - Canadian Nursery Trades Association
  - CSA - Canadian Standards Association
  - CWB - Canadian Welding Bureau
  - NSGA - Nursery Sod Growers Association
  - OPSS - Ontario Provincial Standard Specifications
  - ULC - Underwriters' Laboratories of Canada

Conform to these standards, in whole or in part, as specifically requested in the specifications.

- .2 If there is question as to whether any product or system is in conformance with applicable standards, the Consultant reserves the right to have such products or systems tested to prove or disprove conformance.
- .3 The cost for such testing will be borne by the Contractor in the event of non-conformance. Refer to [01450](#) – **Quality Control & Inspection**.
- .4 When material or equipment is specified by the specifications, upon request of the Consultant, obtain from manufacturer an independent testing laboratory report, stating material or equipment meets or exceeds specified requirements.

**1.3 Products, Materials & Rejected Work**

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- .1 Products, materials, equipment and articles (referred to as Products throughout specifications) incorporated in Work shall be new, not damaged or defective, and of best quality (compatible with specifications) for purpose intended. If requested to provide, the Contractor is to produce evidence as to type, source and quality of products provided.
- .2 The Contractor is responsible for products, whenever identified, whether defective, result of poor workmanship or damage; will be rejected regardless of previous inspections. Inspection does not relieve responsibility, but is a precaution against oversight or error. Contractor is to remove and replace defective products at own expense and is responsible for delays and expenses caused by rejection. All Work is to be replaced or re-executed in accordance with the Contract Documents.
- .3 If, in the opinion of the Consultant it is not expedient to correct defective Work or Work not performed in accordance with the Contract Documents, the price difference of Work may be deducted from the Contract Price. The cost will be calculated by the difference in value of Work performed versus Work stipulated in the Contract Documents. The Consultant shall determine that sum.
- .4 The Contractor is to make good on all removals or replacements that cause damage promptly.
- .5 Should any dispute arise as to the quality or fitness of Products, the decision rests strictly with the Consultant based upon the requirements of the Contract Documents.
- .6 Unless otherwise indicated in the specifications, maintains uniformity of manufacture for any particular or like item throughout the project.
- .7 Permanent labels, trademarks and nameplates on Products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.

**1.4 Reports**

- .1 Refer to [01330 Submittals](#).

**1.5 Equipment, Tools, Handling, & Storage**

- .1 Provide and maintain, in a clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials to

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protect against the elements.

- .2 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with Work activities.
- .3 Handle and storage products in a manner to prevent damage, adulteration, deterioration and soiling in accordance with manufacturer's instructions when applicable.
- .4 Store Products subject to damage from weather in weatherproof enclosures.
- .5 Store packaged or bundled products in original and undamaged condition. Ensure manufacturer's seals and labels intact are visible and intact.
- .6 Location of storage materials as per identified on Contract Document drawings or as otherwise noted.

**1.6 Workmanship****.1 General**

- .1 Workmanship shall be the best quality, executed by workers experienced and skilled in the respective duties for which they are employed. Immediately notify the Consultant if required Work is such as to make it impractical to produce required results.
- .2 Decisions as to the quality or fitness of workmanship in cases of dispute rest solely with the Consultant whose decision is final.

**.2 Co-ordination**

- .1 Ensure co-operation of workers in laying out Work. Maintain efficient and continuous supervision.

**.3 Cutting and Remedial Work**

- .1 Perform cutting and remedial Work required to make the parts of the Work come together. Co-ordinate the Work to ensure this requirement is maintained.
- .2 Should Work performed outside this contract necessitate cutting and remedial Work to be performed, the cost of such Work will be valued by the Consultant.

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- .3 Perform cutting and remedial Work by specialists familiar with the materials affected. Perform in a manner to neither damage nor endanger any portion of Work.

**.4 Fastenings**

- .1 Provide fastenings and accessories in same texture, colour and finish unless indicated otherwise.
- .2 Supply appropriate fastenings, anchors, accessories and adhesives required for fabrication and erection of Work.
- .3 Use non-corrosive or hot dip galvanized steel fasteners and anchors for securing exterior Work, unless stainless steel or other material is specifically requested in the affected specification section.
- .4 Space anchors within their load limit or shear capacity and ensure they provide positive permanent anchorage.
- .5 Keep exposed fastenings to a minimum, space evenly and install neatly.
- .6 Fastenings which cause spalling or cracking of material to which anchorage is made are not acceptable.
- .7 Supply adequate instructions and templates and, if necessary supervise installation, where fastenings or accessories for your Section are required to be built into Work of other Sections.

**.5 Protection and Safety of Work in Progress**

- .1 Comply with the requirements of all Acts and Regulations with respect to health and safety.
- .2 Adequately protect Work completed or in progress. Work damaged or defaced due to failure in providing such protection is to be removed and replaced, or repaired, as directed by the Consultant at no increase in Contract Price.
- .3 Take care not to spill or allow oil, grease, gasoline, diesel and fuel oil, chemicals and other substances to contaminate soil or water on or adjacent to Site. Should such contamination accidentally occur report it immediately and clean up.

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- .4 Damaged Work shall be made good at no additional expense to the Owner.

**.6 Existing Utilities**

- .1 The Contractor is responsible for obtaining, coordinating and paying for all stake-outs or locates for all potential utilities unless otherwise noted in the Bid Documents.
- .2 When breaking into or connecting to existing services or utilities, execute Work at times directed by local governing authorities, with a minimum of disturbance to Work and pedestrian and vehicular traffic.
- .3 Protect, relocate or maintain existing active services as directed. When inactive services are encountered, cap off in a manner approved by authority having jurisdiction and stake or otherwise record location of capped service.

**END OF SECTION - 01600**