

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 31 23 15 – Rock Scaling
- .2 Section 31 23 16.16 – Rock Bolting

1.2 REFERENCES

- .1 Definitions:
 - .1 Product Data: consists of manufacturer's catalogue sheets, brochures, literature, performance charts and diagrams, used to illustrate standard manufactured products.

1.3 SHOP DRAWINGS

- .1 Submit for the Departmental Representative's review, five copies of each shop drawing.
- .2 The review is for the sole purpose of ascertaining conformance with the general design concept, and does not mean approval of the design details inherent in the shop drawings, responsibility for which shall remain with the Contractor. Such review shall not relieve the Contractor of responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents.
- .3 Do not commence manufacture or order materials before shop drawings are reviewed.

1.4 PRODUCT DATA

- .1 Product data: manufacturers catalogue sheets, brochures, literature, performance charts and diagrams, used to illustrate standard manufactured products.
- .2 Submit five copies of product data.
- .3 Delete information not applicable to project.
- .4 Cross-reference product data information to applicable portions of Contract Documents.

1.5 ADMINISTRATIVE

- .1 Submit to Departmental Representative a list of submittals for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in 2 days is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default shall be allowed.
- .2 Do not proceed with Work affected by submittal until review is complete.
- .3 Present shop drawings, product data, samples and mock-ups in SI Metric units.
- .4 Where items or information is not produced in SI Metric units converted values shall be acceptable.
- .5 Review stamp of submittals, prior to submission to Departmental Representative is required. This review represents that necessary requirements have been determined and verified, or shall be, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project shall be returned without being examined and considered rejected.

- .6 Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .7 Verify that field measurements and affected adjacent Work are co-ordinated.
- .8 Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submittals.
- .9 Contractor's responsibility for deviations in submission from requirements of the contract documents is not relieved by Departmental Representative's review.
- .10 Allow at least 2 working days for Departmental Representative review of each submission.
- .11 Keep one reviewed copy of each submission on site.

1.6 SHOP DRAWINGS AND PRODUCT DATA

- .1 Accompany submissions with transmittal letter, indicating:
 - .1 Date.
 - .2 Project title and number.
 - .3 Contractor name and address.
 - .4 Identification and quantity of each shop drawing, product data and sample.
 - .5 Other pertinent data.
- .2 Submissions include:
 - .1 Date and revision dates.
 - .2 Project title and number.
 - .3 Name and address of:
 - .1 Subcontractor.
 - .2 Supplier.
 - .3 Manufacturer.
 - .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - .5 Details of appropriate portions of Work as applicable:
 - .1 Fabrication.
 - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
 - .3 Setting or erection details.
 - .4 Capacities.
 - .5 Performance characteristics.
 - .6 Standards.
 - .7 Operating weight.
 - .8 Wiring diagrams.
 - .9 Single line and schematic diagrams.
 - .10 Relationship to adjacent work.
- .3 After Departmental Representative's review, distribute copies.
- .4 Shop drawings to be stamped and signed by a Professional Engineer licensed in Ontario, where indicated in these specifications.

- .5 Delete information not applicable to project.
- .6 Supplement standard information to provide details applicable to project.
- .7 Provide electronic copies of shop drawings (.pdf) where possible.
- .8 Cross-reference shop drawing information to applicable portions of contract documents.
- .9 If shop drawings are being re-submitted, provide revision triangles at items that have been revised.
- .10 Adjustments made on shop drawings by Departmental Representative are not intended to change the contract price. If adjustments affect the value of the work, state such in writing to Departmental Representative and await completion of a change order prior to proceeding with the work.
- .11 If upon review by Departmental Representative, no errors or omissions are discovered or if only minor corrections are made, copies shall be returned and fabrication and installation of work may proceed. If shop drawings are rejected, noted copy shall be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
- .12 The review of shop drawings by the Departmental Representative is for sole purpose of ascertaining conformance with general concept.
 - .1 This review shall not mean that the Departmental Representative approves detail design inherent in shop drawings, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omissions in shop drawings or of responsibility for meeting requirements of construction and Contract Documents.
 - .2 Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of sub-trades.

Part 2 Products

2.1 NOT APPLICABLE

- .1 Not Used.

Part 3 Execution

3.1 NOT APPLICABLE

- .1 Not Used.

END OF SECTION