

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 04 05 00 - Common Work Results for Masonry.
- .2 Section 04 03 08 - Historic - Mortaring

1.2 REFERENCES

- .1 Canadian Standards Association (CSA)
  - .1 CSA A179-94, Mortar and Grout for Unit Masonry.

1.3 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit mortar samples in quantity and size specified in CSA A179M.

1.4 CLOSEOUT  
SUBMITTALS

- .1 Provide maintenance data for marble work for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.5 QUALITY  
ASSURANCE

- .1 Make mason's workshop accessible to Departmental Representative for inspection of current work-in-progress.
- .2 Ensure work of this section is executed by personnel experienced in restoration of historic masonry.
- .3 Employ workers specially trained and experienced in this type of work.
- .4 Ensure repairs involving cement-based stone restoration mortar are carried out by persons who have successfully completed the manufacturer's training course and have been certified by the manufacturer for the type of work required. Provide manufacturer's proof of accreditation before work begins.
- .5 Ensure all masons engaged by the Masonry Contractor have minimum of 10 years experience with historic masonry, and pass an oral and hands-on test of skills administered by Departmental Representative. Departmental Representative has right to reject any mason who

does not demonstrate appropriate abilities or experience.

- .6 All masons employed on this project throughout course of project must meet above requirements. Where, during course of project, masons leave work force, any replacement masons must also meet requirements.

1.6 STORAGE AND PROTECTION

- .1 Cover top of completed and partially completed wall, not enclosed or sheltered, with weatherproof coverings at end of each working day. Drape cover over wall and extend 0.5m down both sides. Anchor securely in position. Prevent finished work from curing too quickly.
- .2 Protect adjacent work from marking or damage due to work.
- .3 Provide temporary bracing of masonry work during erection until permanent structure provides adequate bracing.

PART 2 - PRODUCTS

2.1 ANCHORS, TIES, SEALANTS

- .1 Anchors, cramps, dowels: stainless steel type 302 or 304.
- .2 Asphalt emulsion: to CAN/CGSB-37.2.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Move and lift stone units using means to prevent damage. Do not make holes or indentations for dogs on face or top side of stone.
- .2 Place safety devices and signs near work area, as directed.
- .3 Install shoring and supports as required.
- .4 Install scaffolding in accordance with Section 01 50 00 - Temporary Facilities & Controls. Make preparation for delayed erection of scaffolding.
- .5 Cover adjacent plant material and fragile surfaces.

- 3.2 REMOVAL OF EXISTING STONE
- .1 Remove loose material from deteriorated stones.
  - .2 Clean dust, mortar and stone fragments from slot.
- 3.3 MOVING STONES
- .1 Use dogs to lift stones to working level.
- 3.4 INSERTING NEW STONE
- .1 Clean stone by washing with water and natural fibre brush before laying.
  - .2 Dampen surfaces of slot and apply mortar.
  - .3 Lay heavy stones and projecting stones after mortar in courses below has hardened sufficiently to support weight.
  - .4 Prop and anchor projecting stones until wall above is set.
  - .5 Set large stones on water soaked softwood wedges to support stone in proper alignment until mortar has set. Remove wedges when dry, do not break off.
  - .6 Remove mortar dropping from face of stone before mortar is set. Sponge stone free of mortar along joints as work progresses.
  - .7 Use non-corrosive anchors to fix stone face plates as indicated.
  - .8 Install anchors, dowels and cramps.
  - .9 Set stones plumb, true, level in full bed of mortar with vertical joints flushed full except where otherwise specified. Completely fill anchor, dowel and lifting holes and voids left by removed edges.

END OF SECTION