

CUSTODIS - COTTRELL CANADA, INC.

225 EAST BEAVER CREEK ROAD, SUITE 720

RICHMOND HILL, ONTARIO L4B 3P4

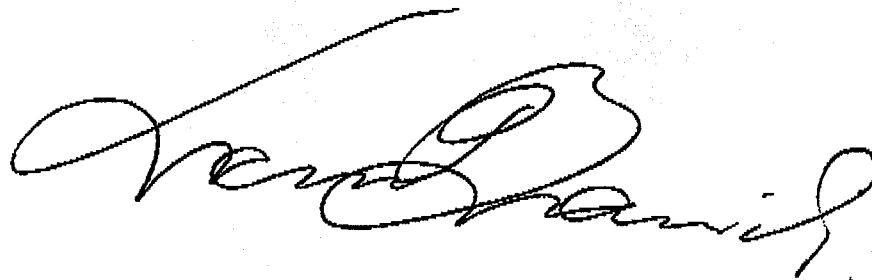
TEL: 905-771-0234

FAX: 905-771-9730

FAX TRANSMISSIONDATE: 15 DEC '95 PAGE 1 OF 5COMPANY: ROYAL OAK MINES OUR FILE # 785ATTN: ERIC MADSENFAX: 403-669-9424FROM: LEON BRANICKIRE: RADIAL BRICK CHIMNEY.

SUBMITTING COPY OF CHIMNEY INSPECTION
REPORT FROM 1985. CONE INSTALLATION
WAS CONSIDERED AT THAT TIME.

ANY QUESTIONS? CALL ME



[- LAB could do work
- or review mms 84k → 85k
→

CAS 785

October 7, 1985 -

Giant Yellowknife Mines Limited
Yellowknife, Northwest Territories
XOE 1H0

Attention: Mr. K. Thomas
Mill Superintendent

Re: Approx. 150' x 9'-0" Radial Brick Chimney - Roaster

Gentlemen:

On September 16, 1985, we carried out an external inspection of the above subject chimney. Listed below is our findings illustrated with photographs.

OUTSIDE:

The radial brick column is in fair condition with no major defects except for the brickwork at the head of the chimney. Here, the top (4) courses are badly spalled and in some cases, the brickfaces have fallen.

LINING:

The brick lining, as viewed from the top, has several courses of brickwork which have fallen and others which are loose.

Diagonal cracks, or open mortar joints, were noted in the top 6', starting at the air vents and extending downward.

ACCESSORIES:

LIGHTNING PROTECTION SYSTEM

The lightning protection system, consisting of (4) points and (2) downleads, is in good order except that the cap, ladder, breeching and door are not grounded into the system.

CAP

The cap at the top of the column is structurally sound.

BANDS LADDER, TEST PLATFORM, CLEANOUT DOOR

The reinforcing bands, ladder and cage, test platform and cleanout door are in fair condition; however, are rusted and require painting.

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Giant Yellowknife Mines Limited
Yellowknife, Northwest Territories

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Possible causes for damage at the top of the chimney are as follows:

- 1) No expansion allowance between the cap and lining.
- 2) Vent holes in the lining allowing corrosive gases to attack the column brickwork.
- 3) Downwash of flue gases saturating the brickwork in the head and in turn, spalling when placed through freeze and thaw cycles.

RECOMMENDATIONS:

1. Remove the column cap from the top of the chimney; lower to grade and hand over to Purchaser for his disposal.
2. Demolish 2' of the radial brick column and 6' of the lining. Debris will be thrown down to the inside of the chimney. From this point, the debris will be removed by the Purchaser.
3. If required, all accessories at the top of the column will be modified for the new chimney height (lightning rod points, ladder and cage and aviation warning light). We do not intend to modify or reinstall the cap, handrails, heat tracing system and duplex lights.
4. Ground the metal accessories into the lightning protection system using specially designed fittings.
5. Rebuild the top (3) courses of lining using hard burned solid brick, laid in acid resistant cement.
6. Place a reducing cone, 5' high, as shown on the enclosed sketch (polygon sections to be flanged and bolted together). Cone, anchors and bolts made of 316 stainless steel.

We have set the inside dimension of the cone to be 7'-0"; however, this can be adjusted to meet your specific requirements.

Price: \$48,040.00 (FORTY EIGHT THOUSAND FORTY DOLLARS).

Complete for labour, materials and equipment.

Payment: On completion.

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Yellowknife, Northwest Territories

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Conditions:

- a) The internal work to be carried out with the chimney OUT OF OPERATION for approximately (4) days.
- b) Schedule "A" Terms and Conditions, attached, forms part of this proposal and any resulting contracts.

ALTERNATE SCHEME:

1. Remove the column cap from the top of the chimney.
2. Demolish 5' of the radial brick column and 5' of the lining. Debris will be thrown down to the inside of the chimney. From this point, the debris will be removed by the Purchaser.
3. Rebuild (1) course of the column using radial brick, laid in Portland cement mortar.
4. Reset the column cap over the new brickwork.
5. Reset the lightning protection system and aviation light using new anchors where necessary.
6. Modify ladder and cage to suite the new chimney height. (We do not intend to reinstall the hand and foot rails, heat tracing system and duplex lights.
7. Ground the metal accessories into the lightning protection system using specially designed fittings.

Price: \$22,410.00 (TWENTY TWO THOUSAND FOUR HUNDRED TEN DOLLARS).

Complete for labour, materials and equipment.

Payment: On completion.

Conditions: As outlined above.

We trust our proposals are attractive and look forward to your reply.

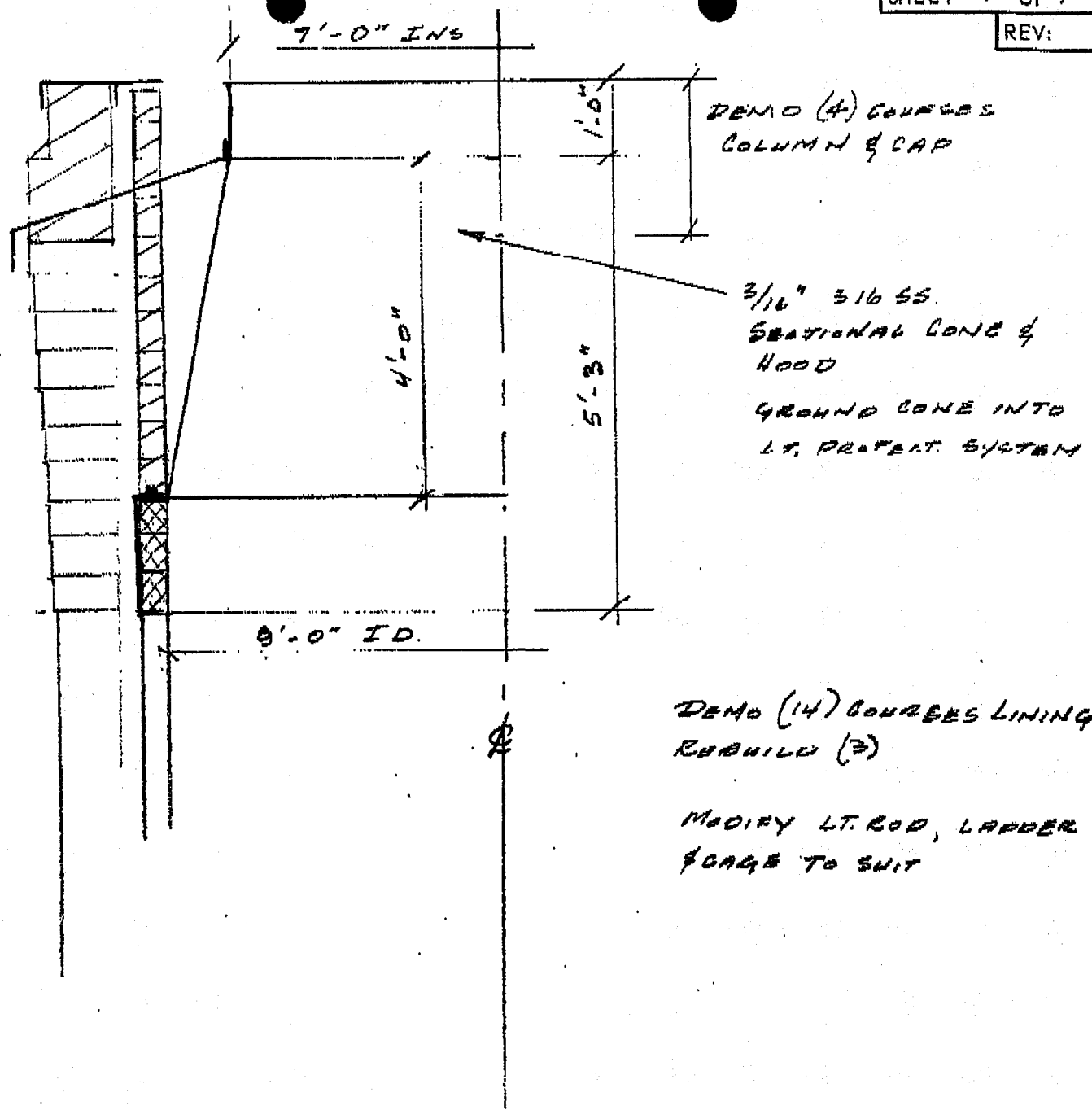
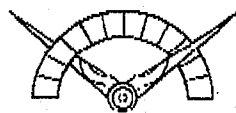
Yours very truly
CUSTODIS-COTTRELL CANADA, INC.

J. G. Barthelmy

JGB/mm
Encls.

SHEET / OF /

REV:

**Custodis**

PROJECT: CHIMNEY

GIANT YELLOWKNIFE MINES

YELLOWKNIFE, N.W.T.

BY: DATE: 9/27/05

CK: DATE:

FILE: CAS 785