PECULIAR BEHAVIOUR OF AN AUSTRALIAN BRIDGE.

A somewhat novel question has arisen in connection with the piers of the Hawksbury Bridge, the largest in Australia, but chiefly remarkable for the fact that the foundations are the deepest in the world, the deepest pier being down 160 ft. below high water line. As the bridge is 40 ft. above the water, the greatest height of the piers reaches 200 ft. The depth of water is not great, nor is the tidal current or range excessive, but the bed of the river is composed of a great depth of soft mud. The prevailing rock of the district is sandstone, little disturbed, but very generally deeply eroded, forming narrow valleys, often with precipitous sides of considerable depth. Some anxiety appears to have been felt as to the stability of the foundations, which were excavated by Anderson & Barr, for the Union Bridge Company. Observations show some irregular and frequent lateral motion of the piers, the greatest being about 21/2 in. The motion

is singularly irregular, being up stream one day, down stream the next, and altogether absent the following day. It appears doubtful whether any irregularity in the working of the expansion rollers has any influence on this motion, and engineers are much divided in opinion as to its cause and importance. Some consider that a small amount of motion is inevitable on the summit of a pier over 200 ft. high, while others contend that it shows that the piers have an irregular bearing at their base, and

on a ledge of rock at one corner. Owing to the winding form of the narrow, deep valley through which the stream flows, the bridge is somewhat sheltered from the wind, and the changes of temperature are moderate, the extreme range being about 70 degrees. The bridge is double track, and the maximum speed of passenger trains over it is about 30 miles per hour. As it is situated near the foot of a long grade of 132 ft. to the mile, some of the trains are double-headers. It is, of course, obvious that on a double-track bridge the load is not exactly above the centre line of the pier, and it is possible that the vibration of a heavy train may cause a slight rock in a tall pier resting on a soft and uncertain foundation. There is no vertical movement.—Railroad Gazette.

SHADING OAK.

To render new oak wainscoting and oak furniture dark and give it an antique appearance, says one of our scientists in that line, ammonia is the cleanest, best and cheapest material that can be used. The liquid stains commonly used are apt

to mise the grain of the wood, make it rough, and it is with difficulty evenly applied, whereas in the use of ammonia it is simply the fumes that color the wood, and do it so completely that it is difficult to tell whether the wood is really new or old. A correspondent gives the following process of treatment, which he considers the best after trying the various other processes used by builders and cabinet makers to darken woods: "Oak is fumigated by liquid ammonia, strength 880 degrees, which may be bought of any wholesale chemist at 5s, a gallon. The wood should be placed in a dark and air-tight room (in a big packing case). and half a pint or so of ammonia poured into a soup plate and placed upon the ground in the centre of the compartment. This done, shut the entrance, and secure any cracks, if any, by pasted slips of piper. Remember that the ammonia does not touch the oak, but the gas that comes from it acts in a wondrous manner upon the tannic acid in the wood and browns it so deeply that a shaving or two may be taken off without removing the color. The depth of shade will entirely depend upon the quantity of ammonia used and the time the wood is exposed. Try an odd bit first experimentally and then use your own

The Canadian Contractors' Hand-Book, 50 cents to RECORD subscribers.

> NEL Notre Dame Street Montreal. October 14 - 1890

6. H. Mortimer Esq. Ribbilanadian Architect & Builder. Record-

Dear Sir.

I have to inform you, that, the sesolution was unanimously adopted, at the first annual meeting of the Province of Quebec association of architects held in Montheal on 10 4 11 " inst! We the architects of the Province moved by of Quebec now assembled in con m. Ferrault. vention being satisfied the Seconded by: a.7 Dimlop. Canadian Contract Record afford us a direct communicati The contractors. Resolved . That we pledge our support to it by usin

Prices of Building Materials.

Hours buly 6. Clift Secretary 3,

Prices of Building Materials.

LUMBER.

LUMBER. square...
Manitoba painted steel stding, per sq.
Painted sheet steel pressed brick.....
Price of Copper shingles a wording to weight.

YARD QUOTATIONS.	
Mill cull boards and scantling	10 00
Shipping cull boards, promiscuous widths	13 00
Shipping cull boards, stocks,	14 00
Hemlock cantling and joist up to 16 ft.	1 00 18 00
	2 00 13 00 3 W 14 00
Scantling and loss, up to 16 ft	- 14 00
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Cutting up planks, 1 % and thicker, dry 2	5 to 20 00 8 00 22 00
Cedar for block paving, per cord	500
Cedar for block paving, per cord Cedar for Kerbing, 4 x 14, per M	14 00
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Red oak	5 00 45 00
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White ash, No. 1 and 2	5 00 70 00
Black ash, No. 1 and 2	0 001 30 00
Dressing stocks Picks, American inspection	6 Oxi 22 OO
Three uppers, American inspection	40 00 50 00
BRICK—W M	•
Common Walling	\$7 50
Good Facing	8 50 9 00
Pressed Brick:	• •
	\$18 00
Plain brick, f. o. b. at Milton, per M " " 2nd quality, per M " " " 2rd " "	14 00
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Foundation Block, "Cubic Foot. Slate: Roofing (% iquare). " red. " purple " untading green. black slate Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, % lb.) White lead, Can. " inc. Can. Red lead, Eng. " venetian. " venetian. " venetian. " venetian. " ladian, Eng. Vellow chrome. Green, chrome. Green, chrome. " Paris. Black, lamp. Blue, ultramarine. Oil, linseed, raw (the Imp. gallon). " " refined, " " refined, " " refined, " " " Paris white Eng., dry. Litharge, Am., Sienna, burnt. Umber. " " OEMENT, LIME, etc. Lime, Per Barrel of 2 bushels, Grey. " " White, Grey. " " " White, Patterns', per bag. Cement, Portland, per bbl. " Thorold, " " Queenston, " Napanee, " " Hull, " " " " " Vio 1½ inch, per keg. " " " " ' Vio 1½ inch, per keg. " " " ' ' Vio 2½ inch, per keg. " " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	16 00 16 00 9 00 7 500 8 00 1 5 05 1 7 05 1 10
Foundation Block, "Cubic Foot. State: Roofing (% iquare). " red. " purple " untading green. black state Terra Cotta Tile, per sq Ornamental Black State Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, % lb.) White lead, Can. " inc. Can. Red lead, Eng. " venetian. " venetian. " venetian. " venetian. " ladian, Eng. " venetian. " refned, Eng. " venetian. " refned, Eng. " venetian. " refned, " venetian. " refned, " venetian. Oil, linseed, raw (\$\frac{t}{m}\$ p. gallon). " refned, " vening, dry. Litharge, Am., Sienna, burnt. Umber, " White Eng., dry. Litharge, Am., Sienna, burnt. Umber, " White Eng., dry. Litharge, Am., Sienna, burnt. Umber, " White Fordiand, per bbl. " Thorold, " Queenston, " Napanee, " Hull, " HARDWARE. Cut Natle: American Pattern, 1½ inch, per keg. " 1½ to 1½ inch, per keg. " 2½ to 1½ inch, " 1% to 1½ inch, " 1% to 1½ inch," 1% to	16 00 16 00 9 00 7 50 8 00 1 5 50 6 25 6 7 50 5 56 7 50 1 50 1 10 1
Foundation Block, "Cubic Foot. State: Roofing (% iquare). " red. " purple " untading green. black state Terra Cotta Tile, per sq Ornamental Black State Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, % lb.) White lead, Can. " inc. Can. Red lead, Eng. " venetian. " venetian. " venetian. " venetian. " ladian, Eng. " venetian. " refned, Eng. " venetian. " refned, Eng. " venetian. " refned, " venetian. " refned, " venetian. Oil, linseed, raw (\$\frac{t}{m}\$ p. gallon). " refned, " vening, dry. Litharge, Am., Sienna, burnt. Umber, " White Eng., dry. Litharge, Am., Sienna, burnt. Umber, " White Eng., dry. Litharge, Am., Sienna, burnt. Umber, " White Fordiand, per bbl. " Thorold, " Queenston, " Napanee, " Hull, " HARDWARE. Cut Natle: American Pattern, 1½ inch, per keg. " 1½ to 1½ inch, per keg. " 2½ to 1½ inch, " 1% to 1½ inch, " 1% to 1½ inch," 1% to	16 00 16 00 9 00 7 500 8 00 1 5 05 1 7 05 1 10
Foundation Block, "Cubic Foot. State: Roofing (% iquare). " red. " purple " untading green. black state Terra Cotta Tile, per sq Ornamental Black State Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, % lb.) White lead, Can. " inc. Can. Red lead, Eng. " venetian. " venetian. " venetian. " venetian. " ladian, Eng. " venetian. " refned, Eng. " venetian. " refned, Eng. " venetian. " refned, " venetian. " refned, " venetian. Oil, linseed, raw (\$\frac{t}{m}\$ p. gallon). " refned, " vening, dry. Litharge, Am., Sienna, burnt. Umber, " White Eng., dry. Litharge, Am., Sienna, burnt. Umber, " White Eng., dry. Litharge, Am., Sienna, burnt. Umber, " White Fordiand, per bbl. " Thorold, " Queenston, " Napanee, " Hull, " HARDWARE. Cut Natle: American Pattern, 1½ inch, per keg. " 1½ to 1½ inch, per keg. " 2½ to 1½ inch, " 1% to 1½ inch, " 1% to 1½ inch," 1% to	16 00 16 00 9 00 9 00 7 500 8 00 1 5 00 1 5 00 1 5 00 1 1
Foundation Block, "Cubic Foot. State: Rooficz (% iquars). "red." "untading green. black slate Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. **PaINTS.** (In oil, % lb.) White lead, Can "zinc, Can "venetian "venetian "venetian "venetian "vellow ochre Yellow ochre Yellow chrome Green, chrome "Paris Black, lamp Blue, ultramarine. Oil, linseed, raw (½ Imp. gallon) "boiled" "refined, Putty Whiting, dry Paris white Eng., dry Litharge, Am Sienna, burnt Umber, "White Plaster, Calcined, New Brunswick. "Nova Scotta "Nova Scotta "Alar, Plasterers' per bag Cement, Portland, per bbl "Queenston, "Nova Scotta "Napanee, "Hull," "Apanee, "Hull," "Yeto 1½ inch, per keg "1½ to 1½ inch, per keg "1½ inch, per keg	16 00 9 00 9 9 00 9 7 500 8 8 1 5 69 7 69 7 69 7 69 7 69 7 69 7 69 7 69
Foundation Block, "Cubic Foot. Slate: Roofing (% iquare). " red. " purple " untading green. black slate Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, % lb.) White lead, Can. " inc. Can. Red lead, Eng. " venetian. " venetian. " venetian. " venetian. " ladian, Eng. Vellow chrome. Green, chrome. Green, chrome. " Paris. Black, lamp. Blue, ultramarine. Oil, linseed, raw (the Imp. gallon). " " refined, " " refined, " " refined, " " " Paris white Eng., dry. Litharge, Am., Sienna, burnt. Umber. " " OEMENT, LIME, etc. Lime, Per Barrel of 2 bushels, Grey. " " White, Grey. " " " White, Patterns', per bag. Cement, Portland, per bbl. " Thorold, " " Queenston, " Napanee, " " Hull, " " " " " Vio 1½ inch, per keg. " " " " ' Vio 1½ inch, per keg. " " " ' ' Vio 2½ inch, per keg. " " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	16 00 16 00 9 00 9 00 7 500 8 00 1 5 00 1 5 00 1 5 00 1 1