## Conversion of Canadian Pacific Freight Cars.

As stated in Canadian Railway and Marine World for September, the C.P.R. is converting 336 single insulated refrigerator cars to vegetable cars, half at Angus shops, Montreal, and half at Weston shops, Winnipeg, and is also converting 1,161 steel side dump ballats cars to coal cars, and 600 stone cars to coal cars at

Angus shops.

The 336 vegetable cars being converted from standard single insulated refrigerator cars are 38 ft. 8 in. long over end sills and have standard refrigerator doors. After removing the ice bunkers, floor slats and meat racks, the side and end walls are covered with refrigerator insulating paper, and on the inside of this, vertical strips are spaced about 2 ft. centres along the sides of the car. These vertical strips are 2 in. square, fastened to 1 in. blocks, providing a total of 3 in. air space. The linings on the inside of the strips conisists of % in. t. and g. insulation,, 1 layer of insulating paper and 13/16 in. standard t. and g. car lining. This inside lining extends to within 6 in. of the car floor and to within about 12 in. of the ceiling, leaving an opening at top and bottom, so that the heat, supplied from the charcoal heaters, located at the from the charcoal neaters, located at the centre of the car, may be circulated freely all along the sides and ends of the load, and return to the centre of the car through a space 5½ in. high provided by a false floor, which is made of two courses of t. and g. lumber with insulating paper between. The floor is in secing paper between. The floor is in sections, about 4 ft. wide, extending between inside linings. This permits of the floor being taken up, whenever necessary, for cleaning underneath, and for repairs to underframe, draft timber bolts, etc.

At each end of the car there is a bulkhead, just in front of the hatch opening, constructed in the same manner as the The open space, above the side linings. side lining and end bulkhead, is covered with heavy wire mesh, to prevent consignees throwing culled vegetables over into the air spaces. At the bulkhead this mesh also prevents theft through the hatch opening. Hatch openings are equipped with standard insulated plugs, attached to chains, so that they can be lowered into the space back of the bulkheads when the car is operating under heads when the car is operating under ventilation. Hatch covers are hinged so as to open towards the centre of the car. It is believed that this arrangement pro-

vides the best distribution of fresh air throughout the interior of the car. The heating of each car is to be ac-complished by means of standard no. 2 charcoal heaters. In moderate weather one or two heaters may be used in the collapsible galvanized iron heater cages attached to the inside of the car doors. These cages are so arranged that, when the heater requires to be recharged with fuel, it is not necessary to enter the car, and the exchange of air from the outside to the inside of the car is reduced to a minimum by one side of the heater cage being secured in a position to close the aperture of the open car door in much the same manner as revolving doors in public buildings. In severe weather additional heaters may be used suspended from the ceiling from substantial fastenings provided for the purpose.

The company has 1,161 50-ton steel side dump ballast cars that are to be fitted with end gates and extension sides so as to carry their maximum tonnage in bituminous coal. The extension sides consist of planks, 30 in. high, secured to stakes

that pass through openings in the top channel of the steel side construction, and secured at the bottom in malleable blocks provided for the purpose. To prevent the wooden sides bulging near the centre of the car, tie rods are provided, reinforced against bending, by means of a cross timber, 3 x 8 in., securely supported and fastened at the ends to the extension sides. In order that these cars may meet the satety appliance requirements, additional hand holds are required, and the brake mast, originally located on the corner, is removed, and a new brake mast and fittings are applied about 18 in. from the centre of the car.

## Canadian Pacific Railway Honor Roll 27.

Amos, Alfred V. H.
Anderson, Henry T.
Baxter, George L.
Bingham, William H.
Blakey, Harold A.
Breeze, Jack
Brundrett, Walter
Bryan, John W.
Burns, Archibald
Campbell, R. H. M.
Caprani, Joseph
Cassidy, Patrick J.
Chapman, Horace
Clarke, Joseph V.
Cochrane, Robert H.
Collins, Lewis
Curveon, James L.
Dallas, Donald
Daly, James R.
Davies, Edward V. H.
Devlin, William T.
Douglas, William
Eades, Robert
Ellinson, Joseph G.
Farrow, Thomas
Fergie, Richard H.
Ferguson, John
Ferguson, John
Ferguson, Thomas
Gaff, Wilfred J.
Grant, John C.
Grav. Donald H. Grant, John C. Gray, Donald H. Hall, Samuel Hall, Samuel Henderson, William M. Herron, Jack Hewitt, Henry Hillman, George C. Hillman, George C.
Hook, James A.
Hornsby, John
Hutchinson, W. K.
Irvine, Earl
Jackson, Edward J.
James, Harold C.
Jarvis, Arthur H.
Johnson, Peter James, Harold C.
Jarvis, Arthur H.
Johnson, Peter
Kay, John T.
Kelly, George
Kelly, Michael J.
Kinnear, Alfred
Kirkbride, William B.
Kubota, James
Leslie, David
Lewis, Jesse S.
Lucas, Albert J.
McBurnie, John
McCubbin, Alexander
McDonald, John H.
McGibbon, James R.
McGowan, Anthony
McNamee, Leslie B.
McVeigh, Charles H.
Mallin, Patrick
Miller, Harry
Milne, John D.
Minshull, Charles E.
Moir, Lyall T.
Olden, Fred
Owens, Thomas
Parks, Andrew
Parnell, Harold
Paterson, John S.
Pearce, Harry J. L.
Pearce, Leo Elmira
Phipps, Frank
Poole, John
Porritt, Stanley
Post, Fred
Prizeman, George A. Porritt, Stanley
Post, Fred
Prizeman, George A.
Raymer, Harold J.
Raymer, Harold J.
Richards, Thomas
Roberts, George
Rumsey, Francis C.
Salter, William
Scott, Andrew
Simpson, Alexander
Smith, Duncan G.
Smith, Joseph
Summers, Charles
Syntags, Andrew Smith, Joseph
Summers, Charles
Surtees, Andrew
Swansborough, G. E.
Teape, George F.
Turner, Alfred W.
Underwood, Arthur
Weber, Andrew
Wilson, Charles
Wilson, Harold W.
Wilson, Stanley

Stanle

Wiltshire, William H.

Clerk Machinist Brakeman Bridgeman
Bell boy
Locomotive fireman. Clerk Locomotive fireman Checker Carpenter Switchman Laborer Yardman Watchman Chef Conductor Conductor Clerk Clerk Trainman Checker Constable Car repairer Linen handler Fitter Car repairer Clerk Clerk Wiper Clerk Helper Locomotive man Tracer Boilermaker Craneman Seaman Machinist Clerk Transitman Blacksmith Clerk Boilerwasher Checker Yardmaster Chef Clerk Helper Wiper Wiper Wiper Operator Fitter Locomotive fireman Apprentice Operator Operator Clerk Assistant agent Clerk Inspector Stower Clerk Cleaner Laborer Trimmer Apprentice
Car repairer
Trucker
Locomotive man
Clerk Operator Checker Locomotive fireman Locomotive fireman Brakeman Locomotive fireman Cashier Locomotive man Car repairer Locomotive fireman Stenographer Porter Carpenter Punch hand Chief clerk Storekeeper Water Laborer Clerk Clerk Clerk Laborer Trucker Locomotive man Timekeeper

Yardman

Vancouver Ogden Lethbridge Sutherland Victoria Strathcona Ogden Smelter Winnipeg Brandon Angus Winnipeg Strassburg Toronto B. C. District Calgary Maniwaki Weyburn Minnedosa Coquitlam Montreal Calgary West Toronto Winnipeg Winnipeg Place Viger Place Viger Calgary Winnipeg Swift Current Montreal Winnipeg Bay Shore Toronto Calgary North Bay Victoria Angus Fort William Schreiber Calgary St. John, N.B. Kenora Innisfail Medicine Hat Vancouver North Bay Angus Kamloops Swift Current Regina Moose Jaw Winnipeg
Winnipeg
West Toronto
Angus
Minnedosa Weyburn Vancouver Canmore Kenora Angus Calgary Fort William Montreal Toronto Winnipeg Calgary Toronto Winnipeg Calgary Camrose Midway Kenora Revelstoke Havelock Shaunavon Weyburn Victoria Calgary Calgary Brandon Ogden Angus Moose Jaw Brooks Vancouver Calgary Saskatoon Edmonton Pembroke Calgary Sudbury Medicine Hat ancouver Lethbridge Montreal Shown on Honor lists to date: Killed, 487; wounded, 1,064; Total, 1,551.

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