TH&B 1932 HAMILTON STATION

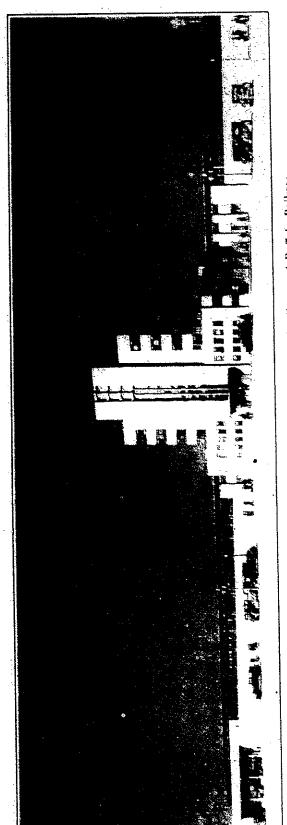
accompanying general plan. The centre of the hullding will be at about the section, between John and James Sts., a site in the path of the driveway which Construction of the new station is under way, its site is shown in the and the building will be east and south of the present station, which occupies present Hunter and Hughson Sts. inter will pass to the north of the new build-

an architect's drawing of which is given herewith, will have structural steel frame and Queenston stone curtain walls, backed with hollow tile, and steel stairs ing. The new building, a reproduction of

metal brackets will be provided in the course and the passenger traffic platform west; the stairs will be 64 ft. wide, and of concrete construction, with safety ong, of concrete construction, with treads. The ramp will be 140 ft. 7 in. ramp. The stairs connecting the conwill leave the concourse at the south finished surface.

which was given in Canadian Railway and Marine World for April, pg. 169, a new street, running east and west, was built south of the railway tracks, as ation work preceding the building of the In connection with the grade separnew station, a complete description of

passenger ramp outlet and the station joining the stairway leading to the pas senger platform, and a large space avail available for rental, for store or othe purposes, to the east of the main vesti hule; the cab office and bootblacks' stan north and south respectively of the eas women's room at the east side of the concourse, with lavatory facilities to th east; a baggage and parcel checkroon at the southeast corner, between th master's office; a soda and lunch counte at the south side of the concourse; a tele phone room at the southwest corner, ad able for rental between that stairway room entrance vestibule; men's



Passenger Station to be built at Hamilton, Ont., for Toronto, Hamilton and Buffalo flailway.

north frontage of 11042 ft. The main vestibule, at the north side, will open in design, including chaste lines and wings. The main portion will have a and sash. It will be distinctly utilitarian and west sides. The building will be a central portion with east, and west main entrance will be at the north, with other entrance vestibules at both the east 186 x 55 ft. over all, and will consist of with ornamentation. dispensing

already, has a frontage on the new street, and will be connected to the shown on the accompanying general plan. The baggage room, which is built station concourse by a north and south passageway. Flanking this passageway will be the station master's office and offices for the Canadian and U.S.A. custorns men, on one side, and space for stores on the other. The baggage room purchasing department

and the west entrance vestibule. Th floors in the men's and women's room will be of Terrazzo; those in the lave tories will be of tile. The floors in th rental space, ticket office and othe offices will be of cement.

The building will be served by a pai senger elevator, with its shaft to th east of the main, or north, entranc ing to the top of the building will b vestibule, and a flight of stairs extend amoridad landing un from a landing t

Decembe 1

1932

Passenger Station to be Built at Hamilton for Toronto, Hamilton and Buffalo Railway.

The agreement between the Toronto, lamilton and Buffalo Ry. Co. and the sity of Hamilton, appended to the act especting that city, Ontario Statutes of 932, chap. 72, as schedule B, provides that the grade separation and other orks agreed upon shall include, among ther things, the construction of a stanon and the demolition of the present on and the demolition of the present ne. Construction of the new station is nder way. Its site is shown in the exompanying general plan. The centre of the building will be at about the resent Hunter and Hughson Sts. intervetion, between John and James Sts., on the building will be east and south the site in the path of the driveway which fill pass to the north of the new build-

The new building, a reproduction of architect's drawing of which is given crewith, will have structural steel frame of Queenston stone curtain walls, icked with hollow tile, and steel stairs

senger platform will be 336.18 ft., a difference of approximately 14 ft. Communication between the concourse and the passenger track platform will be by ramp and stairs. The ramp will leave the concourse at the southeast; the ramp passage will be 10%. Wood handrail with metal brackets will be provided in the ramp. The stairs connecting the concourse and the passenger traffic platform will leave the concourse at the southwest; the stairs will be 64 ft. wide, and of concrete construction, with safety treads. The ramp will be 140 ft. 7 in long, of concrete construction, with finished surface.

In connection with the grade separation work preceding the building of the

In connection with the grade separation work preceding the building of the new station, a complete description of which was given in Canadian Railway and Marine World for April, pg. 169, a new street, running east and west, was built south of the railway tracks, as

passenger car track, north express track and south express track. All tracks on the station area are through ones, making the station distinctly of the through, and not of the stub-end, type. The arrangement of the facilities

The arrangement of the facilities about the main concourse will include ticket office, to the west of the main, or north, vestibule entrance a large space available for rental, for store or other purposes, to the east of the main vestibule; the cab office and bootblacks' stand north and south respectively of the east entrance vestibule; men's room and women's room at the east side of the concourse, with lavatory facilities to the east; a baggage and parcel checkroom at the southeast corner, between the passenger ramp outlet and the station master's office; a soda and lunch counter at the south side of the concourse; a telephone room at the southwest corner, adjoining the stairway leading to the passenger platform, and a large space available for rental between that stairway

Grade Separation and New Station at Hamilton for Toronto, Hamilton and Buffalo Railway.

started at Catharine St., and as the railway had previously acquired the land necessary in connection with the grade separation work, the abutments were located on railway property, and it was

streets concerned was undertaken, Catharine St. having been the first to be dug out. The footings and piers for sidewalk and center columns were then provided. As the work of building the abutments, excavating for the subways and

work was that cut and fill about balanced, the material excavated for construction of the subways to carry the street under the tracks being just about equato that required to build the fill upowhich to carry the elevated tracks. This



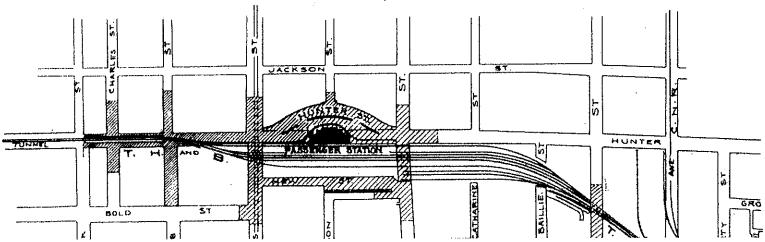
James Street, Hamilton, looking north, Jan. 12, 1932, showing the subway, carrying the street under the elevated tracks, completed.

thus possible to keep all intersecting streets open for vehicular and pedestrian traffic until that part of the work was completed. In order to permit building of subways at Walnut St., Ferguson Ave., Young St. and Victoria Ave., it was necessary to provide a main line detour

putting in the piers and footings progressed, it was possible to also build most of the retaining wall needed for confining the fill. As the new tracks have been built some distance south of the original ones, in the station area, considerable work was possible without dis-

obviated the expense of train haul of fill. The excavated material was handled to the fills by truck.

Following completion of the abut ments, piers, etc., erection of the sub way superstructures was undertaken All these have been built to meet the re



the north side, and on a viaduct at the south side, and the southerly area between Hughson St. projected and John St., below the tracks, will be occupied by Canadian Pacific Express Co., American Railway Express Agency, baggage room, customs rooms, parcel checking room; mail handling facilities, etc.. the layout being such that those sub-track facilities will fit in with the plans for the new station.

Materials used in connection with the grade separation included approximately 3,700 tons of structural steel, 40,000 cu. yd. of concrete, and about 160,000 cu. yd. of excavation and fill. The layout is such that it has been possible to provide a new street parallel to the tracks and south of them connecting

tracks and south of them connecting James and John Sts.; this new street will be of convenience to the general public and patrons of the railway, postal and express activities in affording access to

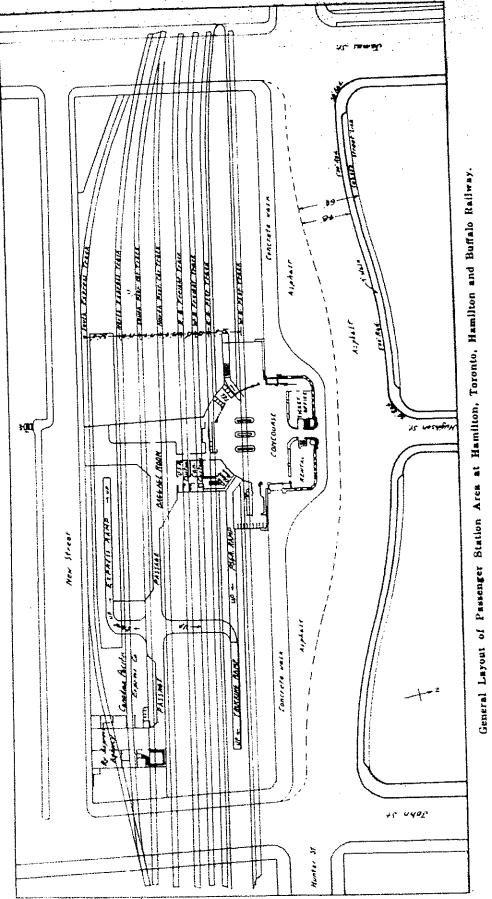
the sub-track area.

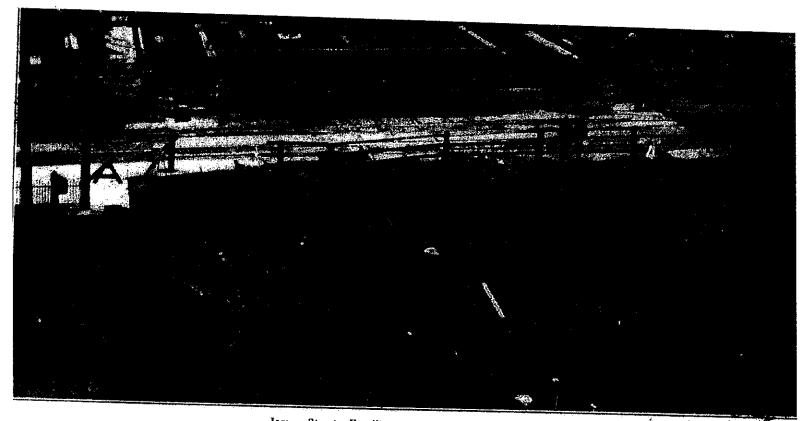
The agreement with the city providing for the work was entered into, Oct. 20, 1930. The Board of Railway Commissioners passed order 45,813, Nov. 14, 1930, approving plans and authorizing and directing the T.H. and B.R. to proceed with the work. Subsequently the Board passed order 46,930, approving further plans, and order 47,011, exempting the Bell Telephone Co. from the terms of order 46,930. The agreement between the railway and the city provides for a joint application to the Board for authority to carry out the work The T.H. and B.R. management has had the project in mind for many years, and considerable of the land required was bought well in advance of the beginning of construction. The grade separation work has been of great help in meeting unemployment conditions. None of the orders issued by the Board have dealt with allocation of costs. It is expected that a hearing will take place shortly, to apportion the costs.

A feature of the grade separation work as completed to date is the celerity mum convenience for the public, as the difference in elevation between street level at the station entrance, and train platform level, will be restricted to 10 or 12 ft. Both ramps and stairs will be employed in compensation of elevation differences.

The whole improvement project is being carried out under the general supervision of H. T. Malcolmson, Vice President and General Manager, R. L. Latham, Chief Engineer, T.H. and B.R., be-

ing in direct charge. L. B. Fitch charge for the general contracto the grade separation, the Dominion struction Corporation. A. Cope Sons, Hamilton, did the sewer restruction work under sub-contract Dominion Construction Corporation Hamilton Bridge Co. supplied and ed the structural steel for the susuperstructures, also under sub-confrom Dominion Construction Cortion.





James Street, Hamilton, looking south, Nov. 9, 1931.

This view shows the abutments completed at the south side of the street, the southerly half of the excavation completed, the south side of the street, the southerly half of the excavation completed, the south side of the abway's steel superstructure erected and an elevated track laid on it, the two original low level tracks, and the initial stakes of grantation for the north approach to the subway.

anadian Railway and Marine World for ct., 1930, pg. 631, with an illustration howing the passenger terminal as it as then proposed to be when the work ill be completed, and a plan showing the yout of the T.H. and B. R. tracks irough the city and the location of proused subways. The grade separation was arted soon after the announcement ferred to, a contract for it having been varded Dominion Construction Corration, Toronto. The progress of the ade separation work has been dealt ith from time to time in these columns, e most recent reference to it having en in our February issue, pg. 62, and complete progress report having been ven in our January issue, pg. 14. At s time of writing, the first stage of the

two of the main business streets, crossing them at grade. The grade separation plan, as agreed upon between the railway management and the city, called for considerable elevation of the railway grade between Park St. and Haggard St., and for the construction of subveyer to carry Victoria Ave., Young St., Walnut St., Catharine St., John St. and James St., under the tracks, and for construction of pedestrian sub-ways under the tracks at Ferguson Ave. and MacNabaSt.; for the provision, on each side of the tracks, as they come out of the tunnel portal in the line of Hunter St., for a driveway and sidewalk between Park St. and MacNab St.; for restoration of Hunter St. for street traffic between Park and Catharine Streets,

up grade through the tunnel being continued to James St. and thence on a lesser up grade to Catharine St., the grade rearrangement being shown in the accompanying profile.

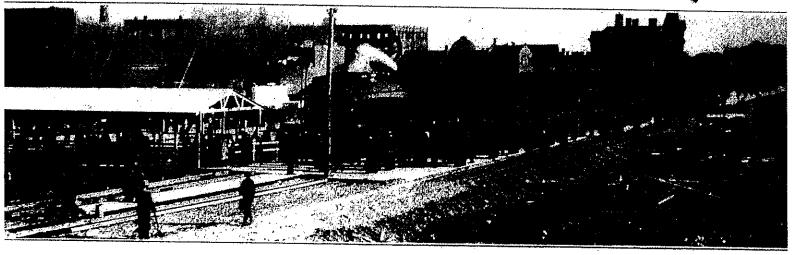
Prior to beginning actual track elevation and subway construction, much work was necessary to change local facilities, such as sewers, waterworks, etc. The work of changing sewer mains was begun in March, 1931, and took about two months. The largest work in that connection was in the James St. area, where about 1,000 ft. of sewer between Bold and Main Sts. was rebuilt in much larger section than previously. The next step was the construction of abutments for the subway superstructures; this was

(Continued on page 180)

itional Rys, track had to be diverted d built up on its own grade into close eximity to the T.H. and B.R. tracks, s structure carrying one C.N.R. track well as the T.H. and B.R. ones. The rinning of the work on James St. was ted so as to have that subway com-

the new station and accompanying facilities.

After commencement of operation on the high level tracks, a start was made immediately upon removal of the original tracks, and upon preparations for completion of the second stage of the subway was not dealt with in the stage, but is now complete, work up having commenced Jan. 11. The of completion of the other struct was as follows: Catharine St., John Ferguson Ave., Victoria Ave., W St., Young and James Sts. Consider



Arrival of first passenger train to operate into Hamilton on the high level track, Dec. 3, 1931.

ortion of the present station is shown at the extreme left. Two flights of stairs lead from the present station platform level to the temperature shown in left foreground. This shelter, and the temporary platforms upon which passengers are standing, will be removed when a station and facilities are provided.

ted at the same date as the Young one, the desire being to have James closed for the shortest possible time. en the Young and James Sts. structs were completed, and tracks laid them, continuous tracks on the high I had been provided throughout the de grade separation area. The conction of the James St. subway was un, Oct. 17, 1931; operation on the level tracks was begun Dec. 3, 1931, James St. was open for all traffic 23, 1931.

o handle passonger traffic with the

work, which will consist of completion of the north approaches and of the bridging at all streets passing under the tracks. It was not possible to complete these approaches, and to extend the subway superstructures to their full length northerly, in the first stage of the work, on account of the presence of the original tracks, which had to be maintained to permit continuous operation. But now that the original tracks have been removed, the second stage work can proceed without obstruction, and at the time of writing the street work inciden-

work remains to be done, at the tin writing, in connection with the se stage of operations, west of James viz., construction of retaining walls tween James St. and the tunnel portal accommodation of the tunnel portal accommodation of the intersection tween Hunter and Park Sts., and struction of the roadways, mentiabove, north and south of the tribetween Park and MacNab Sts.

An interesting feature of the which has been done is the provinced for accommodation of bagg

Arrival of first passenger train to operate into Hamilton on the high level track, Dec. 3, 1931.

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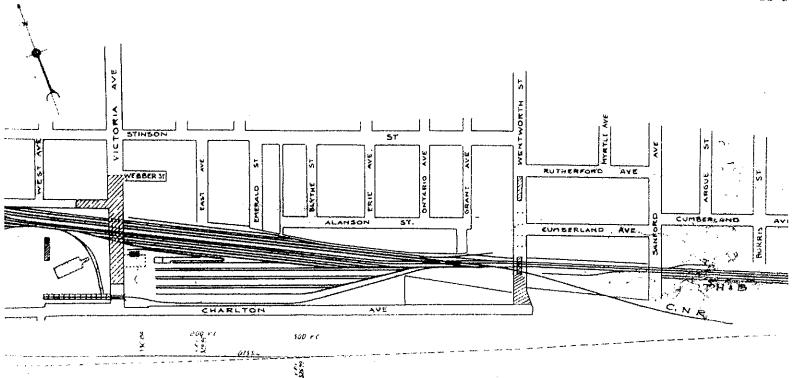
pleted at the same date as the Young St. one, the desire hong to have James St. closed for the shortest possible time. When the Young and James Sts. structures were completed, and tracks laid over them, continuous tracks on the high level had been provided throughout the whole grade separation area. The construction of the James St. subway was begun. Oct. 17, 1931; operation on the high level tracks was begun Dec. 3, 1931, and James St. was open for all traffic Dec. 23, 1931.

To handle passenger traffic with the

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work remains to be done, at the time writing, in connection with the seco stage of operations, west of James S viz., construction of retaining walls I tween James St. and the tunnel portal, f accommodation of the tunnel portal, f accommodation of the intersection I tween Hunter and Park Sts., and co struction of the roadways, mention above, north and south of the track between Park and MacNab Sts.

An interesting feature of the wo which has been done is the provisionade for accommodation of baggag



Easterly portion of grade separation area in Dumilton.

elevated tracks and with the present station, a temporary shelter has been provided, as shown in the accompanying illustration of the arrival of the first passenger train on the high level tracks. Temporary train platforms have also been provided. The shelter and platforms will be used until completion of

tal to the second stage is about 25% complete, and the track work about 90% complete. At Young St. If was possible to complete the subway superstructure in the first stage operations, but completion of the easterly approach on that street had to await beginning of the second stage work. MacNab St. pedestrian

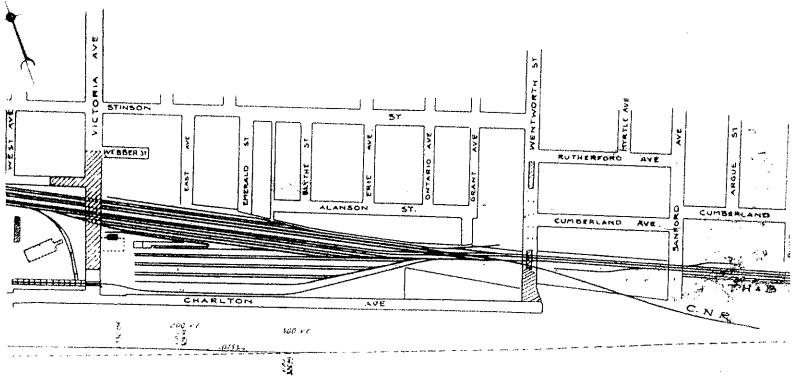
nuall and express facilities in be used i connection with the new station when is completed. Between Hughson St. projected (Hughson St. itself having bee closed) and James \$1., the new hig level tracks are carried on salidably, but from Hughson St. projected, easterly t John St., the track is carried on fill 2

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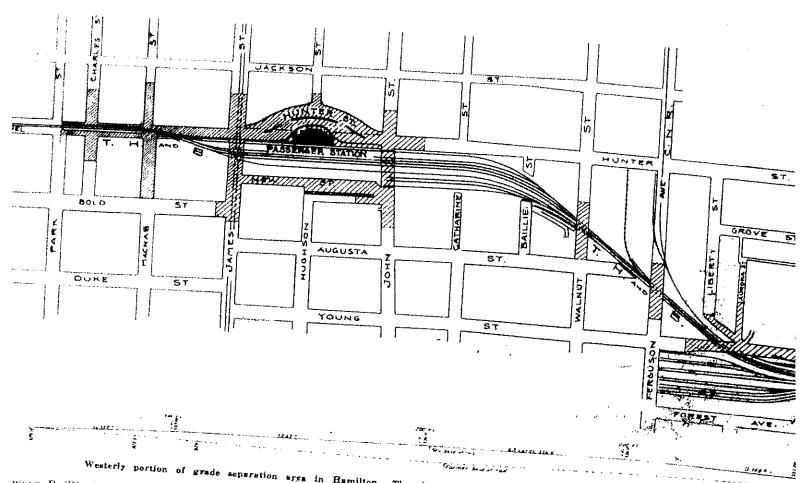


Easterly portion of grade separation area in Humilton.

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mail and express facilities to be up connection with the new station whis completed. Between Hughson St. jected (Hughson St. jested (Hughson St. jested having closed) and James St., the new level tracks are carried one salid fiffrom Hughson St. projected, easter John St., the track is carried on the connection of the salid fifth of th



Westerly portion of grade separation area in Hamilton. The plan shows the tracks in new location.

ween Baillie St., which has been nd Victoria Ave. Part of this usisted of about 1,000 ft. of National Rys. tracks, which d under an agreement entered en the T.H. and B.R. and the magements. Following beginperation on the detour track, in of the subway abutments at dreets mentioned was begun. the abutments had been comavation on the lines of the

turbing the original layout; in fact, the fill for the elevated tracks and accompanying structures had to be completed to where new tracks were available with which to carry on operation, before the original tracks could be removed. That the work was being done in a passenger terminal area, involving rearrangement of water services, passenger platforms, etc., as well as tracks, produced numerous problems, which were all solved satisfactorily. One fortunate feature of the

quirements of Cooper's E-70 loading. The superstructures are of steel, with concrete decks covered with waterproof membrane and asphalt plank, carrying ballasted track. Following completion of the subway superstructures, those at Young and James Sts. having been the last two built, the laying of new tracks followed. The Young St. structure was a particularly difficult one to design and erect, not only on account of curvature and skew, but also because a Canadian

walk 7 ft. wide, with a sodded space 5 ft. wide between the curb and the street line. A concrete walk will be provided along the north side of the building throughout the whole station area, between James and John Sts., and will be extended at the middle of the block to wholly enclose the station on the north side. Asphalt surface will be provided between the walk and the street line of the new driveway.

The site of the present station, to the north and west of the site of the new one, will be occupied ultimately by a portion of the driveway. The present building will not be demolished until the new one is completed and fully in operation, and following its demolition the driveway will be completed.

driveway will be completed.

The new station is part of the T.H. and B.R. general improvement scheme for Hamilton, the other part being the grade separation work which has been

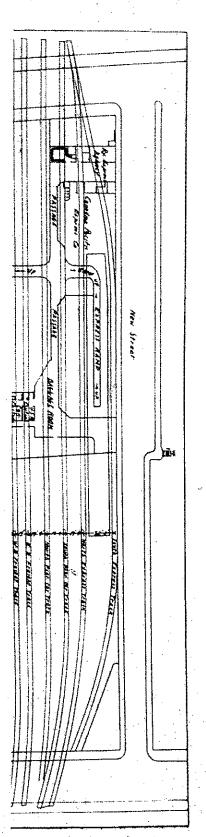
Ltd., Toronto, and Hamilton Guild of Metal Crafts; chimney, Francis Hankin and Co., Toronto; structural steel, Hamilton Bridge Co.; steel sash, Truscon Steel Co. of Canada, Walkerville; stone work, Ritchie Cut Stone Co., Hamilton. The architects are Felheimer and Wagner, New York, N.Y. The construction of the station and the other portions of the whole terminal improvement project is being done under the general supervision of H. T. Malcolmson, Vice President and General Manager, T. H. and B. R., R. L. Latham, Chief Engineer, being in direct charge, assisted by E. M. Brennan, Construction Engineer.

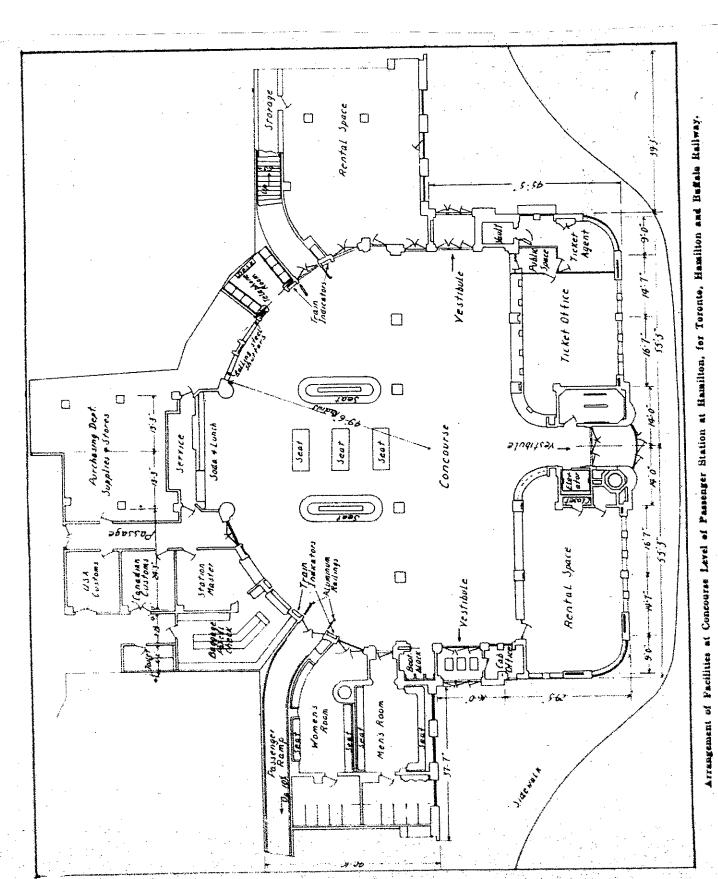
The Pas Board of Trade on Hudson Bay Railway Management.

The Pas, Man, Board of Trade passed resolution recently as follows:—

eventually is made of the Hudson Bay Ry. and subsidiary northern lines, the necessity of northern operating management, in direct control of, and in direct contact with, those railways is essential; and further be it resolved that this board suggests to the Railways and Canals Department that maintenance of the Hudson Bay Ry. as a separate railway entity, with both Canadian railways having running rights, is worthy of consideration."

Canadian Pacific Ry. Sequestrated Stock.—J. K. Blair, Wellington North, Ontario, asked in the House of Commons, Oct. 26:—"For how many years did the Canadian custodian of enemy alien property hold Canadian Pacific Co. stock sequestrated from alien enemies residing in Germany and Austria, and what was the value of the stock so sequestrated? Has the Canadian Pacific Ry. Co. paid





be 312.42. The boiler and pump room Traffic, Manager, and a general office for The boiler installation will also be used

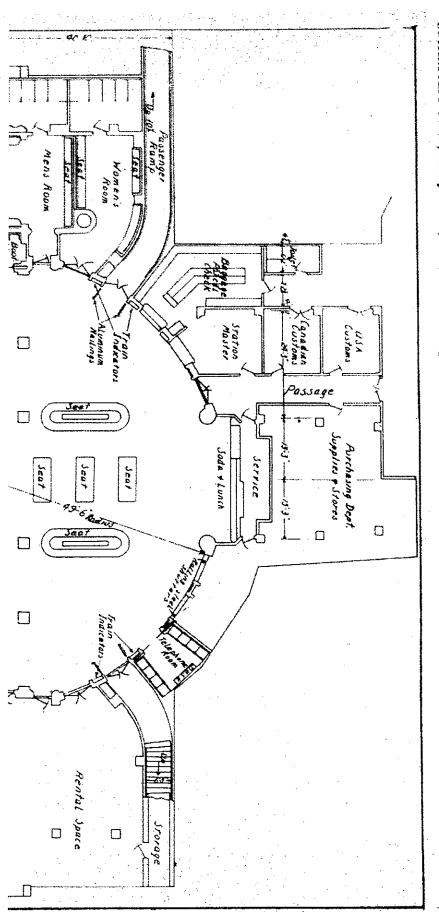
space for a relay room to house equipsignal and switch control of passenger ment planned in connection with future coal storage space, and room, transformer room, a large storage switchboard room, relay room, etc., wil ment will also be served by the elevator be by stairway leaving building. floor at the north vestibule, and the baserand operation. The basement will contain switchboard extend to the north frontage of the and boiler and pump room Access to the basement will hall, The elevation storage will also have the concourse room and

tween the elevator and the stairs. West of the upper concourse space will be the operator's office and a room for trainmen.

seven floors above; the first floor above floor, will contain offices for Freight and Passenger Agent, extension of the concourse and housing track level, been described; the second, course and other facilities which the basement will contain the main conferred to in the plans as the first office acilities as The building will have a basement and will provide for the upper described. third, General Genera about have re-

house the elevator machinery. On the third, fifth and sixth floors, or, first, third and fourth office floors, lavatory facilities will be provided, adjoining the stairway and elevator shaft; and, on the office floors, the stairway and elevator shaft will open into a hall, and adequate provision for public space is

being made.
The building will be heated by steam The building will be heated by steam radiators, the boiler equipment, in the basement, to consist of a stoker-fired 100 h.p. Erie City Economic type boiler, with provision in the boiler room for accommodation of a second unit if necessary.

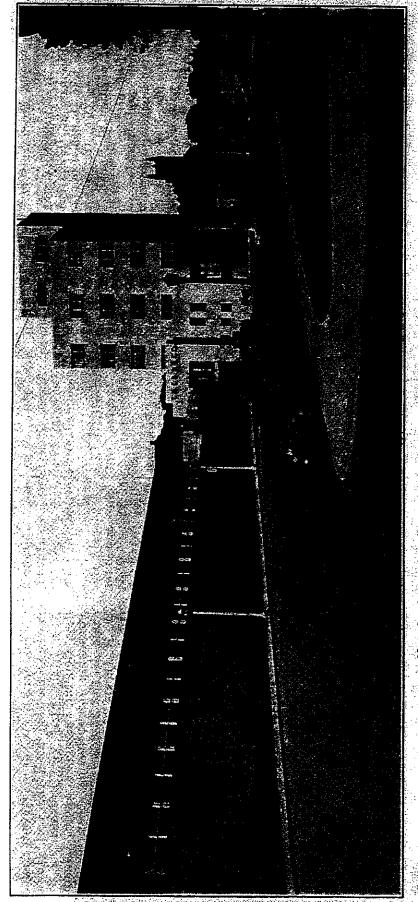


in the shortest possible time.
When the new station which is planmed is completed, the present slation
will be demolished, also the temporary
passenger shelter and train platforms
now being used. The present station is
located on land which is in the path of
the proposed Hunter St. crescent, and its
demolition will be necessary before the
Hunter St. layout can be completed. The
new station will, we are advised, be designed so as to provide, from the standsigned so as to provide, from the standpoint of accessibility of train platforms

from etreet level, and vice versa, maxi-

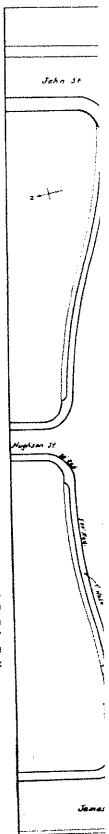
with a view to having the job completed flecting great concentration of effort markably short construction period, rethe work has been carried out in a reas on the streets, it may be stated that he maintained on the railway as well tion, tracklaying, while traffic had to work, street paving, sidewalk construcof an enormous amount of sub-surface of eight subways and the carrying out over a mile, and involved construction that the grade separation work extended railway traffic. When it is considered little as possible with both highway and ent had to be done so as to interfere sax pikhway traffic, and the work throughdone first to minimize interference with possible clear of the streets had to be atilities had to be dealt with, all work Sewers, waterlines and other public to be demolished, and the site cleared. hed serots bas sesued ynam, ditw niged with which it has been carried on. To work as completed to date is the celevity to esture of the grade separation

bought well in advance of the beginning of construction. The grade separation work bas been of great help in meeting unemployment conditions, None of the orders issued by the Board have dealt with allocation of costs. It is expected that a hearing will take place shortly, to apportion the costs.



Now Station at Hamilton, Ont., Toronto, Hamilton and Buffalo Rallway,

inniar normal maathan nonditions to non



General Layout of Passenger Station Area at Hamilton, Toronto, Hamilton and Buffalo Railway

tail into each other; for instance, the station building, ramps, stairways, etc., are designed to fit in with the new track vide a complete measure of railwaystructures in connection with grade passenger, express and associated traffic. The contract for the foundation for quate and most convenient facilities for railway terminal layout which will probuilt for permanence. On completion of separation are of pleasing design and separation work in the station area. street grade separation and afford adethe new station Hamilton will have a level which was provided by the grade separation work in the station area. The Both parts of the whole project dovepractically completed and in our issue of April last.

The contract for the foundation for the station building was awarded Dominion Construction Co., Toronto, a sub-contract for the excavation having been given A. Cope and Sons, Hamilton. The general contract for the station building was awarded W. H. Cooper, Hamilton, and, at the time of writing, sub-contracts have been given as follows:—electrical work, Culley Electric Co., Hamilton;

those railways; whereas running rights over the Hudson Bay Ry., for the Canadian Pacific Ry., must inevitably be established in the near future, so that all Canadian railway points will have points in the country, originating and terminating railway business, can be most readily secured by operating manson Bay Railway and the railways from always exist in the operation of the Hudand to northern Manitoba mines "Whereas problems peculiar to the port of Churchill and to freight haulage from complications as between the two railagement located in direct contact with service, not only to the north but to al of those railways, giving the utmost in suggests to the Railways and Canals Deestablished; be it resolved that this board would eliminate costly and unnecessary Gordon mine; whereas efficient operation ways, ing management of the Hudson Bay Ry. Churchill; and whereas northern operatthrough Pas to Flin Flon and Sherrittwhen those running rights are freight rates available to will

the government of Canada the dividends earned upon such sequestrated stock? How much Canadian Pacific Co. stock is still in the hands of the custodian?"—The Prime Minister, Mr. Bennett, replied:—"This question will stand. It is doubtful whether in the public interest it should be answered. I am having some further inquiries made. It is not a department of government that is affected."

Caughnawaga Bridge.—Contracts have been awarded by Lake St. Louis Bridge Corporation for construction of a bridge over the St. Lawrence River between Ville La Salle, near Lachine, Que., and Co., Light substructure and approaches, \$1,786,000; Dominion Bridge-Co., superstructure, \$773,248.—Janin and Co. is beginning work on the substructure at once, and hopes to complete its portion by the summer of 1934, and to have work so far advanced by the spring of 1934 that Dominion Bridge Co. may then start on the steel erection. (Aug., 1931,

estibule, at the north side, will open lirectly into the station concourse, the ectangular portion will be 33 1/3 ft. x $13^{1/2}$ ft.; the semi-circular portion will have a radius of $49^{1/2}$ ft. The concourse ind the south part semi-circular. north part of which will be rectangular, central portion with east and and west sides. The building will be ther entrance vestibules at both the east nain entrance will be at the north, with est. The ceiling of the semi-circular have metal wainscoting with plaster bove. The rectangular portion will be lispensing with ornamentation. wo passenger tracks, will have 9 ft. neadroom. The ceiling of the high por-The rectangular portion will be 7 ft. 8½ in. high; the south semi-circuar portion, which will extend under the loor will be Terrazzo; the walls will eats will be arranged in the semi-circueaving it a large clear space; five long ectangular portion ures. There will be no seats in the e plastered and fitted with lighting fixo accommodate a large ceiling lighting ion, with plaster finish, will be recessed 86 x 55 ft, over all, and will consist of portion, under the passenger tracks, will The main portion will have a It will be distinctly utilitarian including chaste lines and The concourse floor eleva the concourse, West The The

senger platform and being primarily for baggage, although accessible for express south express tracks. The ramp striking will be the express ramp, emerging at the platform between the north and shown in the general plan, and the ramp will open into a passage to the east, off which ramps will lead up to train platform level. The Canadian Pacific Express Co. and the Railway Express stores on the other. The baggage room toms men, on one side, and space for purchasing department supplies and will be the station master's office and offices for the Canadian and U.S.A. cusstation concourse by a north and south already, has a frontage on the new street, and will be connected to the shown on the accompanying genera also. The ramps, passageway, etc., are trucking ramp, emerging at the pastioned, and then running up to the west, striking south from the passage men passageway. Flanking this passageway of concrete construction. The platforms then running up to the east, will be the north from the passage referred to, and Agency facilities will be located track, north passenger car track, south passenger track, westbound passenger track, eastbound at track level are all of concrete confreight track, eastbound through freigh The baggage room, which is built From north to south are the westbound through and 28

and the west entrance vestibule. The floors in the men's and women's rooms will be of Terrazzo; those in the lavatories will be of tile. The floors in the rental space, ticket office and other offices will be of cement.

the floors will be of concrete, and walls and seilings will be plaster. Provision will be made for the addition of two space surrounded by railway offices. The station headhouse will contain five addieast of the main, or north, entrance vestibule, and a flight of stairs extendupper portion of the concourse, with that ing to the top of the building will be more stories to the station headhouse if required. Entrances to the building will tional floors, all of which, except the top one, will be for railway offices, the building, at about track level (elevation provided, leading up from a landing to senger elevator, with be provided at both the east and machinery. On the five upper stories room and space for housing the elevator top one to be divided into a conference 332.67) will be taken up in part by the concourse. the west of the main entrance to The building will be served by a pas The second its shaft to the floor 0 the

ends from the track level.
The basement will underlie the rectangular portion of the concourse, the ticket office and the large rental space east of the main entrance vestibule, and

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Arrangement of Facilities at Concourse Level of Passenger Station at Hamilton, for Toronto, Hamilton and Buffalo Railway.

be 312.42. The boiler and pump room and coal storage space will be at somewhat lower level, the floor elevations there to be 306.42, with a steel stairway, just south of the elevator shaft, leading down to the boiler facilities.

The portion of the track level floor which will be occupied by the upward extension of the concourse will be 93 2/3 ft. from north to south. At the north side of that space there will be a corridor opening on a balcony, flanked by offices for Signal Supervisor, Roadmaster and clerks, Trainmaster, Superintendent and clerks, Chief Train Dispatcher, and train dispatchers. Lavatory space will be provided to the north of the balcony be-

tain an office for the Chief Engineer, one for the Assistant Engineer, an office for clerks and stenographers, and a drafttain offices for the Purchasing Agent and Superintendent of Car Service, and The fourth, or second office, floor will contain an office for the Vice President and General Manager, one for the assistant to him, an office for the chief clerk and a general office for clerks and stenographers. The fifth, or third office, floor will con-The sixth, or fourth office, floor will conprovide space for a conference room and and Fraffic. Manager, and a general office for ing room with a record vault adjoining E E offices for the chief clerk, clerks stenographers. The seventh floor clerks and stenographers. stenographers.

The boiler installation will also be use to heat the express and baggage are under the tracks, to the south of the station, and also to supply steam for passenger cars standing in the express and baggagareas will be by unit heaters, employin fans forcing the air mate steam coil Electric current, for lighting, motor etc., will be supplied by Hamilton Hydre Electric Commission, to be delivered the station at 2,200 volts and steppe down to 220 and 110 volts.

The driveway which will be provide to the north of the station between Joh and James Sta, with Hughson St. opening into it, will be surfaced with asphal The driveway will be 48 ft. wide and wi