

Northern Pacific Railway Company. Engineering Department Records.

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N. P. 1757 6-24

O SCE OF BRIDGE ENGINEER	
FILE NO. 379	
SUBJECT:	
BRIDGE OVER YARDS	
AT AUBURN, WASH.	
(TRAEGER STREET VIADUCT)	

1000 TANO

Saint Paul, January 2, 1940

MR. J. E. THAMES:

1

Herewith copy of order of vacat on by Board of County commissioners of King County, Washington, covering bridge over Auburn yard known as Traeger overcrossing.

I suggest that this be filed as a right of way instrument and that you issue right of way memorandum to the interested officers.

cc-Mr. Lowry Smith

bb/s

William States

Saint Paul, April 6, 1936 Mr. H. E. Stevens: The last few days there have been some further developments with respect to the Traeger Viaduct at Auburn. Mr. Macfarlane advises that Mr. A. E. Edwards, living at Algona, is Chairman of a Committee appointed by the Algona Improvement Club for the purpose of trying to bring about the removal of the Traeger Viaduct and substituting

in lieu thereof a paved road from Auburn to Algona along the west side of our yard.

Mr. Edwards stated that the County Commissioner had said the pavement improvement would cost around \$20000 and had intimated that the Railroad Company would perhaps defray half. Mr. Edwards was told that we made no commitment to a contribution we might be willing to make but we would be willing to talk with the County officials if the overhead bridge is vacated. The Committee appears to be quite determined in its efforts and it is to their advantage to have a good road from the west into Auburn.

At any rate this activity will extend the time that immediate action may be demanded from the County and this will be to our advantage especially as there is now indication of another appropriation of Federal money for grade separation work.

BERNARD BLUM

cc Mr. M. F. Clements

RRB Saint Paul, February 28, 1936. Mr. Bernard Blum: Referring to your letter of February 27 in regard to the Traeger Viaduct at Auburn. I have made a rough estimate of the cost of rebuilding the viaduct as outlined in Mr. Hayward's letter and find the prices quoted by him approximately correct. File returned. Bridge Engineer. Encl.

Saint Paul, February 27, 1936

Mr. M. F. Clements:

Please note attached from Mr. Stotler about the Traeger Viaduct situation at Auburn.

Do you agree that Mr. Hayward's figures are substantially correct?

Benad Blum

1 10 115, 290 in Trusses incl. FloorBms 326-11

16,844 in Deck + Pile Bent

132,134

Steel 7560 } 67 WI 59,432 CI 65,142 132,134

Timber in Truss 118,600 "BentseDeck. 374, 300

#13331

Træeger et viaduet aubum 428/36 aff estmale for rebuilding Howe truses exclusived flow. 10,200 MFBM, L 25 m 21 2330 2/122 33,000 11. Charles 135 m50 650 20,000 " piers L22 m 21 420 440 3800 P.f. piles L, 35 m. 16 50 000 # Son + Steel LIDI 1000 t a o " Lpim. 05 850 50000 C. I 4,012 15000# " LOIZM.05 225 Smyx use Tools 710 800 Removing old trusses the 050 9680

M7.c. dyde 1.

Seattle, Wash., February 21, 1956.

1003-37-1

Br. W. E. Jonen:

Auburn: Tranger Viaduct.

Your letters of January 18 and 29, calling attention to Mr. Macfarlane's letter to me of January 17, copy to you and Mr. Sloan, with attachment of letter from Prosecuting Attorney Magnuson, of same date, and Mr. Macfarlane's reply to him. also of January 17, all relating to King County's inability to close the Prager Viaduct.

The County is desirous of having the crossing opened up (it is now barricaded) and is asking if the Pailway Company will repair what is termed the "under-structure; the County being willing to repair the planking on the bridge.

You make reference to my latter of July 24, 1935, to Mr. Blum, which states that that part of the viaduct which the Nailway Company is obligated to reconstruct and maintain (under the Dtate's statute) would cost \$24,000., and you wish to be advised if dost involved under the plan outlined by the Prosecuting Attorney in his latter referred to above, is the same as that on which our estimate was made.

Estimate of \$24,000., referred to, covers work the Pailsay Company is obligated to do, as referred to in the Prosecuting Attorney's letter but since that time we have made a further inspection and estimate has been revised to \$19,700., made up as follows:

Renewal of trusses 1, 2 and 3 and 4 supporting piers, exclusive of wearing surface, \$15,500.

Housing is of trusses with corrugated galvanized iron,

4,000.

Minor repairs to the 18 bents on each side of spens,

Total, \$19,700.

Approximate expense the County would be put to

Pab. 21, 1938.

would be es follows:

Renewal of feace and wearing surface, including a sidewalk, on the three Howe trusces,

\$2,700.

Repairs to bents,

200.

Total.

82,900.

I am attaching copy of Mr. Mayward's report of February 18, to me, is detail as to the condition of the bridge, estimate being same as quoted above.

The County will have additional expense in 1937 to renew the searing surface, fence, guard timber and sidewalk, exclusive of the three Howe trusses, which is estimated to cost about \$5,000.

For convenience of reference, I em also attaching print, dated December 31, 1934, showing division of maintenance for the vieduct, in accordance with -r. Macfarlane's instructions from understandings reached with the County. The portion shown in yellow is to be maintained by the County, who is also to maintain the entire surface, including sidewalk, fence and guard timber for the portion shown in red.

AFS:L

Copy to

Herewith copy of Mr. Hayward's report of

Mr. Macfarlane) February 13, for each one of you; also

Mr. Bloan) copy of print referred to above, defining

Mr. Caylor) limits of maintenance.

AFS

Saint Paul, January 11, 1936



Mr. H. E. Stevens:

I have copy of letter from Mr. Macfarlane to Mr. Stotler regarding the Traeger Viaduct at Auburn, stating that one of the County Attornies indicated that there was little chance of getting abandonment of the viaduct. The nearby residents have put considerable pressure on the Commissioner and the Commissioner will not consent to the abandonment. He intimated that funds would be found by the County to defray their share of the expenses as provided by statute. There is to be an election of Commissioners this fall and they are not willing to make it a political issue.

There is nothing for us to do until we may be formally notified by the County.

The spans of the viaduct, which are our obligation, were rebuilt in 1923, and the last inspection indicated that three spans with supporting piers require rebuilding, the cost of which is estimated at \$19,500. It is possible that the County will be unable to find the funds to proceed with their share.

There is no opportunity of our securing Federal aid under the present allotment of funds, but if the second allotment is made, I think we will have a pretty good chance of getting this structure included.

BB h

cc Mr. M. F. Clements

MFC

Saint Paul, September 21, 1934.

Wr. Bernard Blum:

Referring to your notation on copy of Mr. Stotler's letter of July 19 to Mr. Williams in regard to the abandonment of Traeger Viaduct at Auburn.

nual cost appears to be O. K. and if the viaduot is in such condition that it must be replaced or removed. I think we should go along with the proposition of abandoning the viaduot and pay one half of the cost of pavement.

Letter returned.

Bridge Engineer.

Saint Paul, December 31, 1928.

Mr. B. Blum:

Referring to your notation on Mr. Stetekluh's letter of December 28 in regard to the maintenance of Traefer Street Viaduct at Auburn.

That part of the structure which spans the two main tracks is 37'-4" long. The remaining portion of the structure which spans nineteen Northern Pacific exclusive yard tracks is 309'-2" long, making a total length of 346'-6".

Mr. Stetekluh's letter is returned.

Bridge Engineer.

Encl.

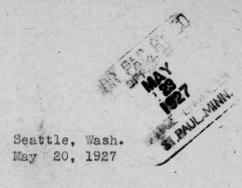
Saint Paul, May 27, 1927

Mr. E. O. Parks:

Several days ago Mr. Woker inquired about the changes in Traeger Viaduct, Auburn, which were made under AFE 419-26.

The original plan at the time the AFE was made provided for the placing of new bents between the old ones, leaving the old ones in place until the deck was renewed. However, it was found that the new bents could replace the old ones in the same location to advantage and the latter scheme was carried out and the old bents removed. It will be necessary, therefore, to retire the old bents.

Bridge Engineer.



Mr. M. P. Clements Bridge Engineer St. Paul, Minn.

> Re: AFE 419-26 - Changes in Traeger Viaduct, Auburn, Seattle Terminal Line

Dear Sir:

Referring to your letter of May 12th relative to AFE 419-26 - Changes in Traeger Viaduct, Auburn.

new bents between the old bents and leaving the old bents in until deck was renewed. However, it was found that the new bents could replace the old bents in the same location to advantage and this scheme was followed out - removing the old bents.

Yours truly.

District Engineer.

CJF:B

Saint Paul, May 12, 1927.

Mr. A. F. Stotler, District Engineer, Seattle, Washington.

Dear Sir:-

Seattle Division AFE 419-26 provides for changes in Traeger Street Viaduct at Auburn, Washington. The narrative on the AFE states that concrete pedestals and new frame bents were to be placed between the existing bents and that the old bents would remain in place until it became necessary to change the deck. The AFE stated that the old bents would not be retired. Mr. Parks' office has received a statement of the retirement of the old bents and I assume that this originated in your office.

In making repairs to the wiaduct, did you follow the plan of the AFE which provided for the old bents to remain in place? If so, there would be no retirement at this time.

Yours truly,

Bridge Engineer.

TELEGRAM—BE BRIEF

TIME FILED

M.

1

MFC

Saint Paul, Dec. 1, 1926

A F Stotler

Seattle Wash

S-78 OK to change plan of Treager overhead viaduct using 5 by 5 inch plank instead of double thickness with sub plank and wearing surface. A-1

M F CLIMENTS.

TELEGRAM—BE BRIEF

M.

Stattle Nov 30 1926

M F Clements

StPaul

Re renewal of deck Treager overhead viaduct Auburn Seattle terminal line suggest change in original plan to respacing joint center and using one thickness of wearing surface viz five by five inch s l s and l E Old plans using sub plank and wearing surface creates early decay please furnish plan if you approve S-78

A F Stotler

733pm

MFC

Saint Paul, January 11, 1926.

Mr. H. E. Stevens:

Referring to your letter of December fourth in regard to Seattle Division AFE ED-133 covering placing of additional bents on concrete pedestals, Traeger Viaduct, Auburn.

For your information I attach Mr. Stotler's letter of December 24th. I note he states that three post bents are sufficient to take care of traffic on the viaduct. The AFE is made up for three post bents and should be passed as it stands.

Bridge Engineer.

Encl.

Saint Paul, December 7, 1925.

Mr. A. F. Stotler, District Engineer, Seattle, Washington.

Dear Sir:-

Seattle Division AFE ED-133 covers the placing of additional bents on concrete pedestals at Traeger Viaduct.

Auburn. The AFE has been made on the basis of using three-post bents but in your letter of November 14th you called attention to the fact that this did not agree with the general Bridge Department plan for highway crossings.

Mr. Stevens has brought up the question as to the actual requirements at the Traeger Viaduct. It is the understanding that traffic is very light and possibly the three-post bents are sufficient. The general plan of highway crossings prepared in the Bridge Department which requires four-post bents, was made on the basis of a twenty ton truck load and if a bridge of the heavier design is required at this point the AFE should be changed from three-post to four-post bents.

What class of traffic uses this bridge?
Yours truly,

Bridge Engineer.

1/00

Saint Paul, December 4, 1925.

Mr. M. F. Clements:

Your letter of the first about Seattle Division ED-133, covering placing of additional bents on concrete pedestals, Traeger Viaduct, Auburn.

The estimate is on the basis of three post bents, and it is my understanding of the correspondence that you do not consider three posts sufficient for present highway loading requirements.

I do not know the character of the business handled over the Traeger Viaduct, but it is my understanding the traffic is light. Suggest you ascertain definitely from Mr. Stotler character of traffic for which the design should provide, and then make whatever changes may be necessary in the AFE to meet these requirements.

Inasmuch as the work will not be undertaken until after the first of the year I suggest the AFE be given a 1926 number.

Chief Engineer.

Saint Paul, December 1, 1925.

Mr. H. E. Stevens:

On June 23rd you sent me Seattle Division AFE
133 covering the placing of additional bents on concrete pedestals
in the Traeger Viaduct at Auburn, amount \$6,590. At the time
you sent the AFE to me you thought possibly the accounting was
incorrect in that the full amount was charged to Additions and
Betterments. At the time I received the AFE I compared a number
of estimates which were prepared by Mr. Stotler and I could not
reconcile them with the actual conditions. I have had the
question up with Mr. Stotler several times and on November 14th
I received a letter from him which I attach. Attached to his
letter of November 14th is an estimated cost of renewing the
pile bents from the floor by removing and replacing the deck,
without removing the original bents. You will observe that the
total cost would be \$7,882 as against \$6,590 in the AFE. It is,
therefore, desirable to place the frame bents on concrete pedestals.

As far as the accounting is concerned, Mr. Sharood's office states that we can charge the entire amount to Additions and Betterments and retire the old bents when it becomes necessary to renew the stringers and floor. I think it would be advisable, therefore, to pass the AFE as it stands.

Tranger Visidual - autum Mr. Glements, On line 23rd Un Stevens called your allertion to the accounting distribution Shown on the aFE. On July 1st you wrole Wh Atother to recorde the figures in his estimater attacked to letter from the Cook of June 11 the your contention was that if it cost less to rebuild the entire approaches on pilling than on concile pedietals it should not less to redrive the bests only than to place frame bants on soverette padestal.

This apparent disneparrey is properly explained in Mr Stretchin lebter of Hov. 14 th portion of the deck when renewing the bents by using the franced hents in someth The addition to at B is \$6590. The estimated cost of the bents to be retired at Present day price is according to Hoteles letter of 11/14 - \$5082. The net miners to at B will be \$1508 who the best are retried with Wolker whither it was

proper to carry both sets of bouts and he says it can be done on the theory that the new besits will be considered as strengthening. This Joold seem to be the logical way to Ravall the coccounting de 031/29

131 of an

Seattle Nov 27/25

M F Clements

STPAUL

A-16 ED-133 -25 Place frame bents on concrete pedestals traeger viaduct Auburn should stand Recommendations for this years form one thirty four only adds repairs to wearing surface Renewal of bents must be done soon D-154.

A F Stotler

232PM



Telegram—Be Brief

Time Filed

M.

MFC

Saint Paul, Nov 24, 1925

A F Stotler Seattle

Do I understand that your recommendations for work on Traeger Street Viaduct at Auburn will in any way affect Seattle Division AFE ED 133-25. See your letter November 14th. Should the AFE be placed in 1926 budget or busted and new one submitted. A-16

M F CLEMENTS

Saint Paul, September 18, 1925.

Mr. A. F. Stotler, District Engineer, Seattle, Washington.

Dear Sir:-

Please refer to my letter of July first and tracer of August eleventh relative to Seattle Division RFA 105, AFE ED-133 covering placing of frame bents on concrete pedestals in approaches of the Traeger Viaduct, Auburn. Estimated cost \$6,590.

Can you now furnish me with the comparison requested, in order that the accounting adjustment may be made?

Yours truly,

Bridge Engineer.

Saint Paul, August 11, 1925. Mr. A. F. Stotler, District Engineer, Seattle, Washington. Dear Sir: On July first I wrote to you regarding comparison of costs of the Traeger Viaduct, Auburn. Can you now furnish me with the comparison asked for in my letter so that the accounting adjustment may be made. Yours truly, Bridge Engineer. MFC-e

Saint Paul, July 1, 1925.

Mr. A. F. Stotler, District Engineer, Seattle, Washington.

Dear Sir: -

Seattle Division RFA 105, AFE ED-133 covering placing frame bents on concrete pedestals in approaches of the Traeger Viaduct, Auburn. Estimated cost \$6590.00.

In making the accounting adjustment, where there is a change in the design of the structure and where the portion renewed is less than 50 percent of the structure, it is customary to estimate the cost of the portion of the structure which will be ultimately retired at present day prices.

On June 11th you wrote Mr. Cook giving comparison of cost for renewal of approaches by renewing in kind, or replacing the pile bents with timber bents on concrete pedestals. Under your Estimate 1-a the cost of renewal in kind with three pile bents is \$19,667.00, under Estimate 2-a, the cost of three post frame bents on concrete pedestals is \$21,131.00, making the frame bents with concrete pedestals \$1,464.00 more than renewal in kind. Estimates 3-a and 3-c show that the concrete pedestal type costs \$1,292.00 less than the renewal in kind.

I cannot reconcile these figures and it seems to me the difference in cost in either case would be the same. It is necessary for me to furnish for accounting purposes the difference in cost of the two types, assuming that either type were used in the first construction. The unit costs which you have used in your

estimates are difference from what we have been in the habit of using in the Bridge Department and I will, therefore, ask that you make the comparison I have outlined, so that adjustment can be made in the accounting.

Yours truly.

Bridge Engineer.

N.P. 1344 . Seattle Division Seattle Terminal Sines

State of Workington Oralization Sect. 783_ 0226/30/20 Overhead highway Bridge (Tracges Tradust) at aubum Work) Ext. of Cost to build autolisation of highway bridge using Dame Construction as an product Bordage It as assumed that there is not decking to interfere with the driwing of piles Buto consect of 3 piles a 14×14×76 Cap with a pile pendential of 14' Broking Consiste of 3×10 Jimby
Brices made consistent with a F. E. Estende.

6600 lingt piling 1301700 1980 1320

4000 F.B.M Juby 116 M 8 656 738

5000 F.B.M Juby 116 M 8 656

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Lol Mos 20 100

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Lampe
Rental of Expupricat 3212 2458 V 2458 2

N.P. 1344 Seattle Division nie eg Scattle Terminal Fine 1/30/15 State of workington Valuation Section # 3 Overhead Highway Bridge (Tragger Viadust) at auburn Work. using pane construction of that there Consists of 3×10" tunters.

Porchase Dept prisesLine Mrs
Line
Mrs the driving of Piles But con 14: Bracing 14x15 x 26' Cap with a sile per tratio 1650 3300 41 our F. B. In Timber 820 oos Dron Moy 455 mise Dausportation Routal of Equip 85 12 5835 3575 5835 Total. 9410

Stattle Division Deattle Termial Lines State of Workington Valuation Sect # 3 -Currlead Highway Boudge (Tranger Traduct) auburn wash Est of cost to build substructure of highway bridge using timber bento with 14x14x26 Capg3-12x12 posts and 12x12 sills and concrete block pedestals. There bento to be place moway believes present stars. Bridge Dept Prices 430 cu you Excav. LIO 430 200 v " Back Fill Lles 120 140 - 113:5 Coneuto. T 200 W 200 700 700 100000 F Bm Jimbar 120 M25. 2000 2500 3300 # Iron M04 132 Dugt. 330 Euge -358 nuscellarieous. Fright 150 Rental of Equipment 150 Contingencies 17.3% 630 4618 4262 46181 Total 8880

On Special - Montana Divn., 'June 23, 1925.

Mr. M. F. Clements:

In looking over the attached AFE, Seattle ED-133, did you give consideration to the accounting distribution? You will note it will all be charged to Additions & Betterments. It rather seems we can charge to Additions & Betterments only the difference in cost between the concrete pedestals and bents as compared with remewal with pile bents.

Frame bents in effect replace the pile bents, and while the pile bents are not being removed at the present time they will be removed eventually and we will then have charged into Capital Account two sets of bents.

If you agree with my conclusions please have the distribution corrected before the AFE is forwarded.

Chief Engineer.

HES-ar

Encl

TELEGRAM—BE BRIEF

L-16 M.

77 of an

Seattle Nov 28/25

M F Clements

STPAUL

Will be in St. Paul November 30th Want to talk to you in regard to traeger ciaduct at Auburn S-53

A F Stotler

1125AM

Saint Paul, May 13, 1935. Mr. A. R. Cook: I have Seattle Division ED-133, covering placing of intermediate frame bents on concrete pedestals on the approaches of the Traeger Viaduct at Auburn, amount \$6590. In reading over the narrative it appears the entire approach is about ripe for renewal, although the narrative goes on to state that if the bents are placed the deck can be carried over, but does not state how long it can be carried over. I am wondering if it would not be just as well to renew the approach complete, using pile bents, the same as the original construction. Have you made any comparative estimates on that If so, I wish you would forward same. I would also like to have your plan for the concrete pedestals and bents. It is my recollection the ground line is fairly flat, but even at that it may require quite a little concrete to put in pedestals whichwill permit the construction of pile bents of reasonably uniform height. I am holding the AFE pending your reply. H. E. STEVENS, HES-ar Chief Engineer. cc-Mr. M.F. Clements

MFC

Saint Paul, May 24, 1923.

Mr. A. F. Stotler, District Engineer, Seattle, Washington.

Dear Sir:-

Complying with your request of May 21st I am sending you one copy of plan, sheet Nos. 1 to 5 inclusive, covering Traeger Street Vieduct at Auburn.

Yours truly,

Bridge Engineer.

Encl.

Re: Plans viaduct at Traeger St Auburn.

Seattle, Washington May 21, 1923

Mr. Mr.F. Clements Bridge Engineer St Paul, Minnesota

Dear Sir:

Will you please furnish for use of Supervisor Herider one set of plans, sheet Nos. 1 to 5, inclusive, covering Traeger Street Viaduct at Auburn.

Yours truly,

District Engineer.

D/W

Brockway
Plo found

St. Paul, Minnesota, August 1,1922.

Mr. A. F. Stotler,

Seattle, Washington.

Dear Sir:-

I hand you herewith two sets of plans of Traeger Steet Vuaduct at Auburn. The plans were requested in your wire D-51, July 24th.

Yours truly,

Bridge Engineer.

MFC-DW



Telegram—Be Brief

M. M.

169 CF GI

Seattle Jul 24 1922 M F Clements

Stpaul

Pls furnish two sets plans Traeger street viaduct Auburn D 51

A F Stotler.

428PM.



f.18.

St. Paul, Minn., November 20, 1911.

FEB.

Mr. L. M. Perkins,

Engineer, Maintenance of Way,

Tacoma, Wash.

Dear Sir:-

Referring to your letter of October 20th, and tracer of the 17th inst., washers for Auburn overhead viaduct.

I beg to advise that no changes were made in your requisition other than the addition of the two items noted on copy of my memo to Mr. Smith, dated October 26th, next attached.

There is no objection to using the 9" and 10" washers as ordered by you.

Yours truly,

Bridge Engineer.

Tacoma, November 17, 1911.

H.E. Stevens:-

reply to my letter October 20th relative to 9 - 10 - 6 and 8 inch washers for Auburn overhead viaduct?/

L M Perkins.

AHW-w

NUR PA

Northern Pacific Railway Company

Tacoma, Washington, October 20, 1911.

Mr. H. E. Stevens,

Bridge Engineer,

Saint Paul, Minnesota.

Dear Sir:-

Referring to the bill of material for Auburn overhead viaduct:

Original bill showed a number of 9 and 10 inch washers, which were cut out on the revised bill, the number of 6 and 8 inch being correspondingly increased. Is there any reason why the 9 and 10 inch washers cannot be used as originally figured on? They have already been shipped from South Tacoma.

Yours truly.

Engineer of Maintenance of Way.

LMP-W

2-14

MENO.

St. Paul, Minn., October 26, 1911.

HES.

Mr. W. C. Smith,

chief Engineer Maintenance of Way.

I am returning you herewith file and requisition covering cast and wrought iron ordered by Mr. Perkins for overhead highway bridge at Auburn.

We have checked this requisition over and have noted in ink a more complete description of the material required in several instances where the original requisition is a little indefinite.

There should also be ordered the following additional material:

80 bolts 3/4" dia. x 21" long - 3" thread , Hex Head & Nut.

1 rod, 1" dia. x 29' 4" long - 4" thread, & Hex. nut at each end.

H. E. Stevens.

Hes. Following material is needed for autum Highway hidge This is additional to Deg 227 of LMP.

80 Bolts 3"dea x 21"long. 3"this Hex head thut.

1 - Post 1"dia x 29"4"long - 4"thead \$1 thex mut at each lead.

Fans 1/26/11

MEMO

St. Paul, Minn., October 24, 1911.

HES .

Mr. W. C. Smith

Chief Engineer Maintenance of Way.

Your memo on the attached requisiton from Mr.

Perkins covering Fire Resisting Tar paint for Highway Bridge at Auburn.

Our plans call for a coat of this paint, but I did not specify whether we should use a manufactured product or a product mixed up by company force.

As you are aware, Mr. Fairchild now has on hand the ingredients for mixing up the tar paint to complete the Northtown Junction Bridge. He has not yet started the work and I would suggest that Mr. Perkins' requisition be held until we ascertain what success Mr. Fairchild has with the home-made product.

We should be able to get report from him next week and if this report is favorable, I would suggest that we order similar materials for use on the Auburn Bridge.

Yours truly,

Northern Pacific Railway Company

Saint Paul, October 21, 1911.

Mr. H. E. Stevens:

What do you think of the attached requisition of Mr. Perkins for fire resisting paint for the Overhead Bridge at Auburn?



Mr. W. C. Smith,

chief Engineer waintenance of Way.

I am handing you herewith four prints each of sheets 1,2 & 5, plans for the Highway Bridge over the new yard at Auburn, revised in accordance with our conversation, in order to bring the north approach entirely clear of the County Highway.

Will you kindly substitute these prints for those in the sets handed you last week.

H. E. Stevensk

B

11

St. Paul, Minn., October 12, 1911.

HES.

Mr. L. M. Perkins,

Engineer wat ntenance of Way,

Tacoma, Wash.

hear Sir:-

I have handed Mr. Smith for transmittal to you four sets of the detail plans of overhead highway bridge at Auburn.

In making up these detail plans we changed the length of the North approach in order to bring same clear of the county highway at this point. This introduced a number of changes in the bill of material.

Size of portals was also changed.

For your convenience in revising requisition,
I have had all changes in bill of material underscored.
Some of these are of such minor character that it is
hardly worth while to change the order if you can
possibly obtain material from other sources for making
the substitution.

Yours truly,

Bridge Engineer.

West auburn Thydung Budge flans. Charges in held material fun hen underscored in fencil on tracing and consult in general of as follows. Trusses-8×8×30' top struts at ends han hen changed to 12×12×36' and length of both connecting changed to suit Han given a little fuller description of cart iron Hur cut out 9# 10" lateral wishers & where 6" + 8" dea would satisfy. appraches-Have clarged the numbers regit of various pule leggits making an increase of the longer lengths. Herr excepted more in detail the amount of surfacing regit on hardrail. Han charged numbers of various strugge length regs in account stortening hidge of 5 at nout Have added faint quantities. FRES 1//1

1.1/

Saint Paul, October 7, 1911.

Mr. W. C. Smith,

Chief Engineer Maintenance of Way.

Dear Sir: -

Am handing you herewithfor use in the field four sets of prints of general and detail plans for highway crossing over the new yard at Auburn, Washington.

Bill of material in accordance with this plan was sent Mr. Perkins September 18th. I offered to make up requisition here for the material, but he thought it would be better to start it from that end. When requisition comes please send to me for checking.

Plan has been made up in accordance with small sketch furnished by Mr. Cook and our interpretation of Judge Reid's understanding of the matter, as per letter from Mr. Cooper to you dated August 30th.

I do not know that any further approval of County Commissioners is necessary, but it might save us trouble if we get the detail plan approved before the work is tery far advanced.

On sheet No. 2, typical detail of trestle approach, I have shown in dotted lines a fence to be

Mr. W. C. Smith :- -2- 9/7/11.

provided if necessary next edjacent to county road. I de not know how important these county roads are, but if there is very much traffic I am inclined to think that the fence should be put in, for the reason that a team passing along the road might travel under the over-hanging caps of the appreach bents with damage to the teamsters head or the top of the load account of the rapidly descending grade of trestle approach.

Our plans call for piling to be driven for pier No. 5 to take care of span for yard expansion at some future time. If the possibility of requiring this span is remote, bent should be substituted for this pier. I should recommend however that the piling he put in if there is a chance of span being required within the next few years.

Yours truly.

Bridge Engineer.

Encl.

Saint Paul, October 5, 1911. Mr. W. L. Darling:-Am handing you herewith for approval plan proposed for highway bridge over the new yard at Auburn, Washington. Mr. Smith has already obtained the approval of the County Commissioners of a general plan for this crossing. We are providing three thru spans for the yard layout as now authorized and trestle approach is so arranged that a fourth span can be put in to permit further expansion of the yard. The estimated cost of the structure as now to be built is about \$20,000. H. E. Stevens. Encl.



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FROM

Tacoma Oct. 5-11

TO

H. E. Stevens,

DATED

AT

StPaul.

Referring to overhead bridge Auburn. Should truss timber be sized or simply surfaced from sizes given.

L.M. Perkins. 1243 pm

1 HES Northern Pacific Railway Company

Saint Paul, October 5, 1911.

Mr. W. L. Darling: -

Am handing you herewith for approval plan proposed for highway bridge over the new yard at Auburn, Washington.

Mr. Smith has already obtained the approval of the County Commissioners of a general plan for this crossing. We are providing three thru spans for the yard layout as now authorized and trestle approach is so arranged that a fourth span can be put in to permit further expansion of the yard.

The estimated cost of the structure as now to be built is about \$20,000.

H. E. Stevens.

Encl.

Has Mescout & ins

HES

Saint Paul, September 26, 1911.

Mr. L. M. Perkins: -

As per my recent letter I hand you herewith two prints of unchecked tracing showing bill of material of Auburn bridge. We are now checking this bill and will send you revised prints as soon as complete. The unchecked prints will be 0. K. to get requisit ion started.

H. E. Stevens.

Bncl.



Northern Pacific Railway Company

Tacoma, Washington, Sept. 25, 1911.

Mr. H. E. Stevens.

Bridge Engineer.

Saint Paul, Minnesota.

Dear Sir:-

I did not wire you requesting that you place requisition for material for Auburn bridge, as the Store Department make it a practice to send requisitions out here for the Store Department at this end to check off such material in the way of castings, etc., as they can furnish.

I will, therefore, make requisition here as soon as your bill of material is received, and no time will be lost thereby.

Yours truly,

Engineer of Maintenance of Way .

LMP-w

Est Cost auborn by F. 24' Cean wadyney Owerall	Bir the	1874'	
Bridged length / 1538	Labor	ma+1.	Total.
80000 F.B.M. Howetross Lumber L30 m 15 409000 " Lumber 9 L12 m12 12000 lin ft Piling 12 L15 m 108	2400 4900 1800	1200	3600
Hardware and Castings 80 000 (approx) LI M3	800	24'00	3200
Fallework 350 @ 400	700	700	1450
Filling 900 yds. e 50¢	450		. 450
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	12250	10400	22650
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With atrue review prices.	1681 1681 1490 200 457 867	1200	285000000000000000000000000000000000000
	ALC: HERES		19698

be. Paul, Mini., September 28, 1911.

Mr. L. M. Perking.

Engineer Waintenance of Wain,
Tapomer, Wash,

Deer Birth

Amburn,

we will have the detail plans of this structure ready shout October first. We expect, however, to have hill or material completes this week, and I will forward you sopy so that you may place preers at once, of if you wish a place wire me and I will place requisitions for the Howe Truss continue and timber, as there is a considerable number of Howe Truss continue truss continue in the principal delay will probably be in getting these items of material.

Yours truly,

Bridge Engineer.

Morthern Pacific Railway Company.

Tacoma, September 14, 1911.

Mr. H. E. Stevens,

Bridge Engineer,

St. Paul, Minnesota.

Dear Sir:-

Referring to my letter of August 5th relative to detail plans to cover overhead bridge to carry the county road at Auburn:

Please advise approximately when this may be expected.

Yours truly,

Engineer of Maintenance of Way.

AHW-W







· Northern Pacific Railway Company

IN YOUR REPLY PLEASE 1791-11 REFER TO FILE

Saint Paul, August 30, 1911.

Mr. W. C. Smith,

Chief Engineer, Maintenance of Way.

Dear Sir:

Replying to your letter of August 26th, in reference to over-head crossing at Auburn Yard:

I referred your questions to Division Counsel Reid, who replies as follows:

"Auburn bridge plan approved by County Commissioners. It was well understood that approach to bridge on West side was to be on county road we are to build. This road is sixty feet wide and there is plenty of room for the approach. It was also understood that no part of the approach was to be in the county road on the east side for it is very narrow. Plans did not contemplate a side walk and there is no reason why one should be built. In conversation over telephone with Wooding this morning he says local engineers on the ground say that under present plans for location of tracks thinks a straight approach could be made on east side without exceeding seven per cent grade. If it is intended to fill the approach on the west side we could not well ask to allow the slopes to cover more than one-half JLW-W Yours truly, of the road".

Saint Paul, August 26, 1911.

Mr. Thomas Cooper,

Land Commissioner.

· Dear Sir: -

Referring to the authorized overhead crossing at Auburn yard some half mile south of Auburn station:

Does the license which we have from the County permit our occupying one-half of the proposed new roadway with the fill of our approaches to the bridge?

On the East side of the yard grounds the approach tob ridge is shown entirely on our property. Am I correct in assuming that negotiations obligated us to place this bridge entirely upon N.P. property and not encroach upon the county road between sections 24 and 19?

Another point is that the sketch plan shows twentyfour feet between trusses, and no provision for sidewalk.

Is anything said in the license about providing a sidewalk
on the bridge over the yard, and is not part of the twenty-four
feet intended to be used for a sidewalk?

Yours truly,

1 Northern Pacific Railway Company

Saint Paul, August 29, 1911.

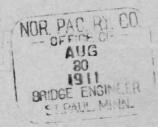
Mr. H. E. Stevens:

In reference to our conversation about the bridge for the overhead crossing at Auburn:

Mr. Perkins advises that the clearance can be twenty-two feet, but that the spacing of the first yard track with the main track will have to be twenty feet, as shown on the profile sent you.

This is about what I thought on account of providing sufficient margin to take care of the difference in elevation of the two tracks.

136 m 6 5 8 30



O Morthern Pacific Railway Company

Saint Paul, August 19, 1911.

Mr. H. E. Stevens.

Bridge Engineer.

Dear Sir:-

Replying to your memorandum on Mr. Perkins' letter of the 5th regarding overhead bridge at Auburn:

Please note the attached messages. It will be O.K. for you to go ahead on the basis of the sketch. The plan should be gotten out as soon as possible on account of the necessity of prompt action, as mentioned by Mr. Perkins.

Yours truly,

DICTATED.

Grap & South

NOR PAC PY CO.
AIIG
AIIG
BRIDGE ENGINEED
ST.PAUL MINIS



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10,04 by us an

Tacoma Aug. 18, 1911

W. C. Smith

ST. PAUL.

Mr. Nutt has approved General plan overhead viaduct Auburn as per sketch sent you. Anxious to get action quick as possible on this to avoid rebuilding undercro sing burned out Wednesday

L. M. Perkins

1:33PM



All Railway Messages must be written in ink on these blanks, which must not be used for other purposes, and those for parties on trains (except trainmen) enclosed in sealed envelopes. The exact time sent, time received, personal signal of sending office and name of receiving station must be entered in proper spaces in every instance.

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FROM	Sain	t Pau	1			то	L. M.	Perkins			

AT

August 11, 1911.

Tacoma.

See your letter fifth to Mr. Stevens re overhead bridge at Auburn Yard. Please secure Mr. Nutt's approval of the spacing of bents and length of spans shown on sketch of plan approved by the County authority.

W. C. SMITH.

Northern Pacific Railway Company

Tacoma, Washington, August 5, 1911.

Mr. H. E. Stevens,

Bridge Engineer,

St. Paul, Minnesota.

Dear Sir:-

A. F. E. covering the new yard at Auburn includes the amount of \$19,879.00 for an overhead bridge to carry the county road.

The location and general conditions are shown on the plan of Auburn Yard, tracing of which is on file in St. Paul. I attach hereto profile, scale 1" to 10', on the line of this viaduct, also a print with a small sketch plan which Mr. Cook submitted to the County authorities, and which they approved as satisfactory to them. This sketch plan shows the general conditions as to the width of roadway, grade on approaches and arrangement of approaches.

Will you kindly let me have detail plans to cover

this structure?

Yours truly

singer of Maintenance

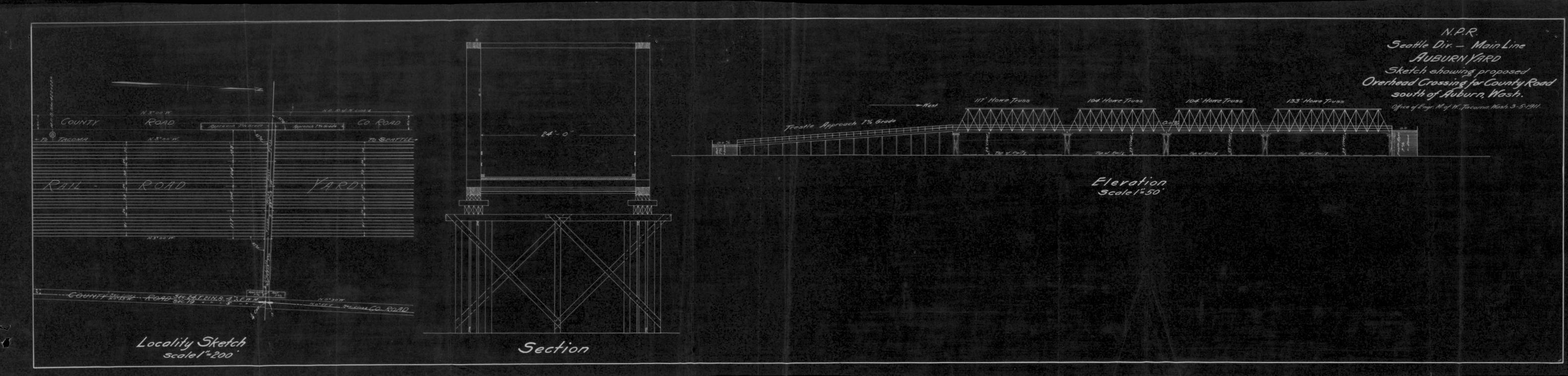
LMP-w

encl.

1011

ST.PAUL. MININ

35



t

SAINT PAUL, March 24, 1911.

HES.

Mr. W. C. Smith.

Chief Engineer Maintenance of Way.

Dear Sir:-

I am handing you herewith in triplicate sketch and estimated cost of Highway Bridge to carry county Road over proposed new yard at Auburn.

The location of the bridge and approaches is the same as shown on Mr. Cook's sketch dated.

March 5th.

Mr. McIntyre's study plan No. 5, which he tells me is the one likely to be adopted. Account of the decreased number of tracks, one less truss span is required than shown by Mr. Cook. I have shown a 135' span on the West side of the yard and this length will be sufficient to provide clearance for an additional main track should same be required later on.

If desired this first pier bould be moved over to the edge of the County Road, thereby leaving yard space entirely clear on the east side.

The Estimated cost of the bridge is \$20761.00.
This high cost is due to the extremely long approaches
required. Account of their being at right angles to the

Mr. W. C. Smith Page -2-

center line of the bridge the length of the west approach is doubled.

Yours truly,

Bridge Engineer.

B

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NORTHERN PACIFIC RAILWAY COMPANY

-SEATTLE LINE-

Estimated cost of bridge to carry county road over Proposed new yard at Auburn. Bridge to give 20' Clear roadway and provide for 24 tracks. Total Length of bridge and approaches 1,530 feet.

Approaches on 7% grade.

Total	\$9704	\$11057	\$20761
Engineering & Incidentals 10%L	882		882
Engine & Work Train Service	300		300
Painting	300	150	450
179,000# Iron L 1d M 25d	1790	4475	6265
436,000 F.B.M. Lumber L \$12.00 M \$12.00	5232	5232	10464
12,000Lin. Ft. Piling L 10¢ M 10¢	\$1200	\$1200	\$2400

Office of Bridge Engineer, St. Paul, Minn., March 23, 1911.

NORTHERN PACIFIC RAILWAY COMPANY

-SEATTLE LINE-

Estimated cost of bridge to carry county road over Proposed new yard at Auburn. Bridge to give 20° Clear roadway and provide for 24 tracks. Total Length of bridge and approaches 1,530 feet.

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Office of Bridge Engineer, St. Paul, Minn., Merch 23, 1911.

Morthern Pacific Railway Company

At Missoula, March 15, 1911.

Mr. H. E. Stevens,

Bridge Engineer.

Dear Sir:

I attach file explaining Mr. Cook's letter next attached of March 10th, regarding location and suggested construction of highway bridge across the proposed yard at Auburn--- this being shown in red on the attached sketch.

I wish you would go ahead and make an approximate estimate of the highway bridge as outlined by Mr. Cook.

Mr. McIntyre will give you exact location and any other information which you may require for the approximation. At this time such an estimate will answer.

Will you please hurry this all possible.

Yours truly,

. 0



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DATED		ATcar 11	On Line	•		
						N. Comment
	Approximate cost Hig Twenty Thousand Seven Hundred	hway Bridge and Sixty I	e over nollars	Auburn Yard		
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						120492



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FROM.

DATED

Hartford, 3-20-11.

TO

AT

H E Stevens,

ST. aul,

McIntyre is making up revised plan auburn, ength of spans should be revised to agree with yard lay out. Location of piers immaterial so long as they do not interfere with our proposed tracks.

W.C. Smith 842pm.



TELEGRAM. All Railway Messages must be written in ink on these blanks, which must not be used for other purposes, and those for parties on trains (except trainmen) enclosed in sealed envelopes. The exact time sent, time received, personal signal of sending office and name of receiving station must be entered in proper spaces in every instance.

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				м.		M.					3.00

FROM

St paul Minn March 20 1911

TO

W C Smith

DATED

AT Car 11 On Line

Re Highway bridge at Auburn Cook's sketch shows one One Hundred thirty three foot two One Hundred Four foot and one One Hundred Seventeen Foot spans McIntyre's plan 5 shows one One Hundred Twenty Two foot one One Hundred Four foot and one One Hundred Seventeen foot Which plan should be used Should first span from County Road be long enough to get pier off NP right of wak

H E Stevens