



PERMISSION TO CONSTRUCT WORKS WITHIN CROWN LAND

The works comprising

of the replacement of the existing cast iron watermain (in a 24 inch corrugated steel casing) with a 12 inch PVC watermain service across #99 Vancouver/Blaine Highway at 72nd Street. All work to be as shown on drawing attached, submitted with application dated June 7, 1993.

- NOTE:
1. All materials and procedures shall comply with the Ministry of Transportation and Highways Standard Specifications for Highway Construction issued February, 1993.
 2. Contact Vern Poustie, Works Inspector (660-8300) 48 hours prior to the commencement of the works, and upon completion of the works.
 3. Contact Mainroad Contracting Ltd. (581-3398) 48 hours prior to the commencement of the works, and upon completion of the works.

NOTES CONTINUED ON OVERLEAF

are hereby approved in so far as they relate to the use of Crown lands, interference with public works, or other matter under the jurisdiction of the Minister of Transportation and Highways, and permission to construct, use, and maintain the said work is hereby granted to

Corporation of Delta, 4450 Clarence Taylor Crescent, Delta, B.C., V4K 3E2.....

The said approval and permission to construct, use, and maintain works is, however, at all times subject to the following conditions:

1. That the construction and maintenance of the said works is carried out to the satisfaction of the Regional Director, Highways.
2. That, before opening up any highway or interfering with any public work, intimation in writing of the intention to do so must be given to the District Official at least seven clear days before the work is begun.
3. That any person appointed to the Regional Director, Highways, for the purpose shall have free access to all parts of the works for the purpose of inspecting the same.
4. That the construction of the said works shall be commenced on or before the 1st day of July, 1993, and shall be prosecuted with due diligence and to the satisfaction of the Regional Director, Highways, and shall be completed on or before the 1st day of October, 1993

5. (a) The highway must at all times be kept open to traffic. The roadway must be completely restored for traffic as soon as possible. At all times the permittee must safeguard the travelling public.

(b) That, unless with the consent of the Regional Director, Highways, no more than forty-five (45) metres of pipe-track or other excavation in any public highway is to be kept open at any one time.

(c) All trenches and excavations shall be shored, if necessary, according to the Workers' Compensation requirements. Care shall be taken to protect adjacent property.

(d) That all excavations shall be carefully back-filled with suitable material, which is to be tamped into place, and that the permittee shall restore the surface of the road and shoulders and ditches at his own expense. All surplus material is to be removed from the Provincial Crown lands, or deposited where and as required by the District Official of the Ministry of Transportation and Highways. The permittee is financially responsible for any maintenance work required on said ditch for a period of one year. The Ministry will carry out the necessary remedial work and invoice the permittee monthly.

(e) The pipeline crossing installation is to be placed by drilling and (or) jacking in such a manner as to afford minimum grade settlement. No water jetting will be permitted. That where, in the opinion of the District Official, an excavation or opening for a pipeline crossing installation could be made which would not be detrimental to the highway or its users, permission will be granted for said works. On throughways, freeways, and main highways no open cuts will be allowed.

(f) That all pipelines in excess of a nominal diameter of 5 cm., whether gas, oil, water, pressure sewers, conduits, etc., shall be installed where indicated by the District Official, encased in a steel casing-pipe or conduit-pipe of sufficient strength to withstand all stresses and strains resulting from the location, such casing to extend the full width of the highway right-of-way if deemed necessary to the District Official. The ends of the casing-pipe shall be suitably sealed and, if required, properly vented above the ground with vent-pipes not less than 5 cm. in diameter, and extending not less than 1.2 metres above ground surface. Vent-pipes shall be connected 30 cm. from the ends of the casing-pipe, and the top of each vent shall be fitted with a turn-down elbow, properly screened and equipped with identification markers.

All pipelines of non-rigid material, i.e., plastic or copper, of any diameter, shall be cased, or embedded in sand.

The inside diameter of the casing-pipe shall be at least 25 per cent larger than the outside diameter of the pipeline. The casing-pipe shall be installed with an even bearing throughout its length, and in such a manner so as to prevent leakage, except through the vents.

The top of the casing-pipe, or the pipeline where casing is not required, shall be located as directed by the District Official, and shall in no case be less than 1.2 metres below the surface of the highway and not less than 60 cm. below the highway ditches. Pipelines must not obstruct drainage structures or ditches or interfere with traffic on the highway or with highway maintenance.

6. That where the work for which permission is hereby granted comes in contact with any bridge, culvert, ditch, or other existing work, such existing work must be properly maintained and supported in such manner as not to interfere with its proper function during the construction of the new work, and on the completion of the new work the bridge, culvert, ditch, or other existing work interfered with shall be completely restored to its original good condition.

7. That when necessary all excavations, materials, or other obstructions are to be efficiently fenced, lit, and watched, and at all times every possible precaution is to be taken to ensure the safety of the public.

8. That the person or persons for whom these works are being constructed, or by whom these works are maintained, shall at all times accept full responsibility for any accident that may occur or damage that may be done to any person or property whatsoever caused directly or indirectly by these works, and shall save harmless and keep indemnified the Crown from all claims and demands whatsoever in respect of the works.

(OVER)

9. That the permission herein granted to use and maintain the works is only granted for such times as the land or public work in, upon, or over which the said works are constructed is under the jurisdiction of the Minister of Transportation and Highways. This permission is not to be construed as being granted for all time, and shall not be deemed to vest in the permittee any right, title, or interest whatsoever in or to the lands upon which the works are constructed. Should the lands affected at any time be included within that of an incorporated municipality or city, this permission shall become void, unless the works are on a highway duly classified as an arterial or primary highway pursuant to Part III of the *Highway Act*.

10. That after receiving notice in writing of the intention on the part of the Provincial Government to construct, extend, alter, or improve any public work, the person or persons responsible for the maintenance of the works for which permission is hereby granted shall within six weeks move or alter such work at his or their own expense to such new positions or in such manner as may be necessitated by the construction, extension, alteration, or improvement proposed to be carried out by the Provincial Government.

11. That while reasonable care will be taken on the part of the Provincial Government to do as little damage as possible to any private work in the carrying-out of the construction, extension, alterations, improvement, repair, or maintenance of any public work adjacent thereto, the Provincial Government can accept no responsibility of any kind for such damage.

12. That the permission hereby granted to construct, use, and maintain work is granted without prejudice to the provisions of the *Highway Act* and *Ministry of Highways and Public Works Act*, or other Acts governing Crown lands and public works or their use by the public.

13. That this permission shall be in force only during such time as the said works are operated and maintained by the applicants, to the entire satisfaction of the Regional Director, Highways.

14. That the Ministry will not be responsible for grade changes on accesses caused by reconstruction of any Provincial highway.

15. This permit is valid only for the specific works stated herein. Any alterations or additions must be covered by a separate permit.

16. This permit may be cancelled, at the discretion of the Minister, without recourse, should the permittee fail to comply with all the terms of the permit. Thirty days' notice will be given before cancellation.

17. When the requirements of the Ministry necessitate use of the said lands for Provincial purposes, at the discretion of the Minister, this permit may be cancelled.

18. That these works shall be identified with this permit number, namely, "H. 1-6-12599.0," in a manner satisfactory to the District Official of the Ministry of Transportation and Highways.

Ministry of Transportation and Highways
#200 - 1065 Columbia Street
New Westminster, B.C.
V3M 6H7

David Lee Young
Development Technician
For Minister of Transportation and Highways

June 8 93
....., 19....

NOTES CONTINUED FROM OVERLEAF

4. Restore work site to original condition or better.
5. Open cut of the travelled portion of #99 Vancouver/Blaine Highway is not permitted.
6. Vehicles and work equipment are not permitted on travelled portion of #99 Vancouver/Blaine Highway.
7. No access to #99 Vancouver/Blaine Highway.
8. Closure of the travelled lanes is not permitted.
9. Hours of work are restricted to 9:00 AM to 3:00 PM.
10. "As Constructed" drawings are to be forwarded to this office upon completion of these works.
11. Permit (or copy) to be on site during construction.

DV/gv



Province of
British Columbia

Ministry of
Transportation
and Highways

Lower Mainland District
#200 - 1065 Columbia Street
New Westminster, B.C., V3M 6H7
Telephone: 660-8307
Facsimile: 660-9736

Your File: PR003
Our File: 1-6-12599

COMPLETED SEP 14 1993

8 June 1993

Corporation of Delta
4450 Clarence Taylor Crescent
Delta, B.C.
V4K 3E2

Attention: Engineering Department

Dear Sir/Madam:

Re: Watermain Upgrade
#99 Vancouver/Blaine Highway at 72nd Street

Enclosed please find Permit No. 1-6-12599.0 for the above noted works.

Please read the permit carefully as there are specific conditions and/or obligations under the "NOTE" which must be fulfilled.

Should you have any questions, please call.

Yours truly,

Daniela Veith
District Development Technician

DV/gv
Enclosure

Copy: Vern Poustie - Works Inspector
Mainroad Contracting Ltd.
Peter Rennie, Inspector, Waterworks Engineering Branch, City of Vancouver

FACSIMILE RECORD

**Ministry of Transportation and Highways
Lower Mainland District
#200 - 1065 Columbia Street
New Westminster, B.C. V3M 6H7**

**FROM: Daniela Veith
District Development Technician**

FAX 660-9736 PHONE NO. 660-8307

File: 1-6-12599
Date: June 8, 1993

TO: Peter Rennie

FAX 873-7200 PHONE NO. 873-7325

**RE: Permission to Construct Works
#99 Vancouver/Blaine Highway at 72 Street, Delta**

As per your request . . .

Please make special note of the conditions outlined on the attached.

Should you have any questions, please call.

Dani

PAGES: 4

Original to follow in the mail.

FACSIMILE RECORD

Ministry of Transportation and Highways
Lower Mainland District
#200 - 1065 Columbia Street
New Westminster, B.C. V3M 6H7

FROM: Daniela Veith
District Development Technician

FAX 660-9736 PHONE NO. 660-8307

File: 1-6-12599
Date: June 8, 1993

TO: Engineering Department
Corporation of Delta

FAX PHONE NO.

RE: Upgrade of Water Main
#99 Vancouver/Blaine Highway at 72 Street

At the request of Peter Rennie of the City of Vancouver . . .

Should you have any questions, please call.

Dani

PAGES: 4

Original to follow in the mail.

City Engineering Department: City Hall, 453 West 12th Avenue, Vancouver, British Columbia, Canada V6Y 1V4, (604) 873-7011

FAX (604) 873-7200



City of Vancouver

FAX TRANSMISSION

DATE JUNE 8, 1993
 TO MIN. OF TRANSPORTATION & HIGHWAYS.
ATTN. DANIELA VEITH
 FAX NO. 660-9736
 FROM PETER RENNIE TEL. NO. 873-7325
 TRANSMITTING 2 PAGES (INCLUDING THIS PAGE)
 SUBJECT/MESSAGE

The drawings are at ~~the~~ drafting being revised & I will send you copies when they are available.

NOTE: NO HARD COPY WILL BE SENT UNLESS REQUESTED

Thanks.
Peter Rennie

SIGNATURE



Province of British Columbia

Ministry of Transportation and Highways

Application for Permission to Construct Works Within Highway Right-of-Way

I (We) hereby apply for permission to construct, use, and maintain works within the limits of highway right-of-way under the jurisdiction of the Minister of Transportation and Highways, British Columbia, in accordance with the particulars, plans, * and specifications submitted herewith in triplicate. It is understood that the completion of this form constitutes an application only and that the works applied for will not be commenced until a covering permit has been issued. The proposed works consist of and are described as follows:

Description of works: REMOVE A 6" CAST IRON WATER MAIN FROM PREVIOUSLY INSTALLED 24" CORRUGATED STEEL CASING PIPE & INSERT A 12" PVC WATERMAIN INTO THE CASING PIPE. THE CASING PIPE WILL NOT BE ALTERED.

Location of works: Crossing Hwy 99 at 72nd St., Delta.

Legal description of property to be served: 72nd St, Delta, BC from LADNER TRUNK ROAD to BURNS BOG LANDFILL

Drawing or sketch number: AB 768 Attached:

Have the necessary plans for approval been filed with the proper authorities? (See Note 2 on back) YES

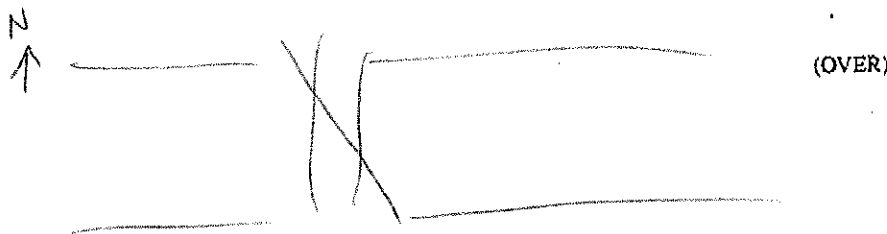
Name of applicant (print please) CITY OF VANCOUVER, CORPORATION OF DELTA

P.O. address 453 W 12th AVE VANCOUVER BC V5Y-1V4

(Signed) Peter Kennie for DON MOORE, CITY OF VANC., ASST. WATERWORKS ENGINEER (Applicant)

(Date) June 8/93

*See note No. 1 on back.



UTILITY PERMITS - H21 / H21A

- 1) PERMIT NO: H-6-12599.0
- 2) FILE NO: _____
- 3) ELECTORAL DISTRICT: DELTA SOUTH
- 4) UTILITY: replacement of existing ^{6 inch cast iron} watermain with 12 inch PVC watermain
- 5) ~~N/S/E/W~~ across _____
- 6) HIGHWAY NAME AND CROSS STREET: #99 Vancouver/Blaine Highway in a 24 inch corrugated steel casing pipe at 72 Street
- 7) ENGINEERING FIRM NAME: Corp of Delta
- 8) DRAWING NO.: attached
- 9) APPLICATION DATE: June 7, 1993
- 10) UTILITY CLAUSE(S): ① Chrl A ② Chrl B ③ Chrl C
- 11) APPLICANT'S ADDRESS: Chrl + Sh C
- 12) COMMENCEMENT DATE: July 1, 1993
- 13) COMPLETION DATE: October 1, 1993
- 14) DATE: _____

- ④ Chrl E
- ⑤ Chrl H #99 Vancouver/Blaine Highway
- ⑥ ~~At~~ Vehicles and work equipment are not permitted ~~within pavement structure~~ on travelled portion of #99 Vancouver/Blaine Highway.
- ⑦ Chrl Q
- ⑧ Chrl I 9:00AM 3:00AM
- ⑨ Chrl N
- ⑩ Permit (or copy) to be on site during construction.

DAVID

Chrl + Sh C

YF: pr 003

OF: 1-6-12599

Attn: ~~Peter~~ Engineering Department

Dear Sir/Madam

Re: Water Main Upgrade.
#99 Vancouver / Blaine Highway at 72 Street

H21 LET. PRE 1-6-12599.0

Jani

cc: Peter Rennie, Inspector Waterworks Engineering
Branch - City of Vancouver

Mainroad

Vern

Lloyd Paulson, Area Manager - Lower Mainland
District.

City, Engineering Department: City Hall, 453 West 12th Avenue, Vancouver, British Columbia, Canada V5Y 1V4, (604) 873-7011

FAX (604) 873-7200



City of Vancouver

FAX TRANSMISSION

DATE June 7/93 TIME _____

TO MIN. OF TRANSPORTATION & HIGHWAYS

FAX NO. 660-9736

SUBJECT/MESSAGE I hope this is enough info to get the permit process in motion. A proper appl's will follow.

*Thanks
Peter Rennie*

TRANSMITTING 6 PAGES (INCLUDING THIS PAGE)

ORIGINAL TO FOLLOW : YES NO

REPLY TO ATTENTION OF



City of Vancouver
City Hall
453 West 12th Avenue
Vancouver, B.C.
Canada V5Y 1V4

PETER RENNIE
~~Jeray W. Robinson,~~
~~Eng.~~
Asst. Waterworks Engineer
Engineering Department
(604) 873 7325
FAX (604) 873-7200

Time for work ?

June 7, 1993

12599

Ministry of Transportation and Highways

Attention: Daniela Veith

RE: Highway Crossing Permit

As we discussed on the telephone, the City of Vancouver would like to apply for a Highway Crossing permit for a watermain reconstruction project we are undertaking on 72nd St, from Ladner Trunk Road to the Burns Bog Landfill, in Delta, B.C.

A 6" Cast Iron watermain currently runs along 72nd St, and goes under Highway 99 through a 24" diameter corrugated steel casing pipe. A portion of the project will entail removing the 6" Cast Iron water main from the casing pipe and replacing it with a 12" PVC water main.

Attached are copies of our drawings showing the portion of the project in question. If you require proper blueprints, they can be supplied at a later date.

Thank you for your efforts. If you have any questions please contact Peter Rennie, Waterworks Engineering Branch, 873-7325.

Sincerely yours,
City of Vancouver



Peter Rennie
Inspector
Waterworks Engineering Branch

PAR/
File: pr003

WinFax PRO Cover Page

FOR INFORMATION ONLY
(DO NOT RETURN TO CENTRAL REGISTRY)

NICE JOB



ON A NEXT-TO-IMPOSSIBLE TASK.



REMOVE EXISTING WATER METER & 6"Ø WATER VALVE

EXISTING B.C. TEL. BOX

STREET

66 HWY

Casing PIPE ALREADY IN PLACE
24"Ø Corrugated Steel Pipe

6" GAS *

6" GAS *

FENCE

TELEPHONE LINE

72ND ST.

TOP OF BANK

6" GAS *

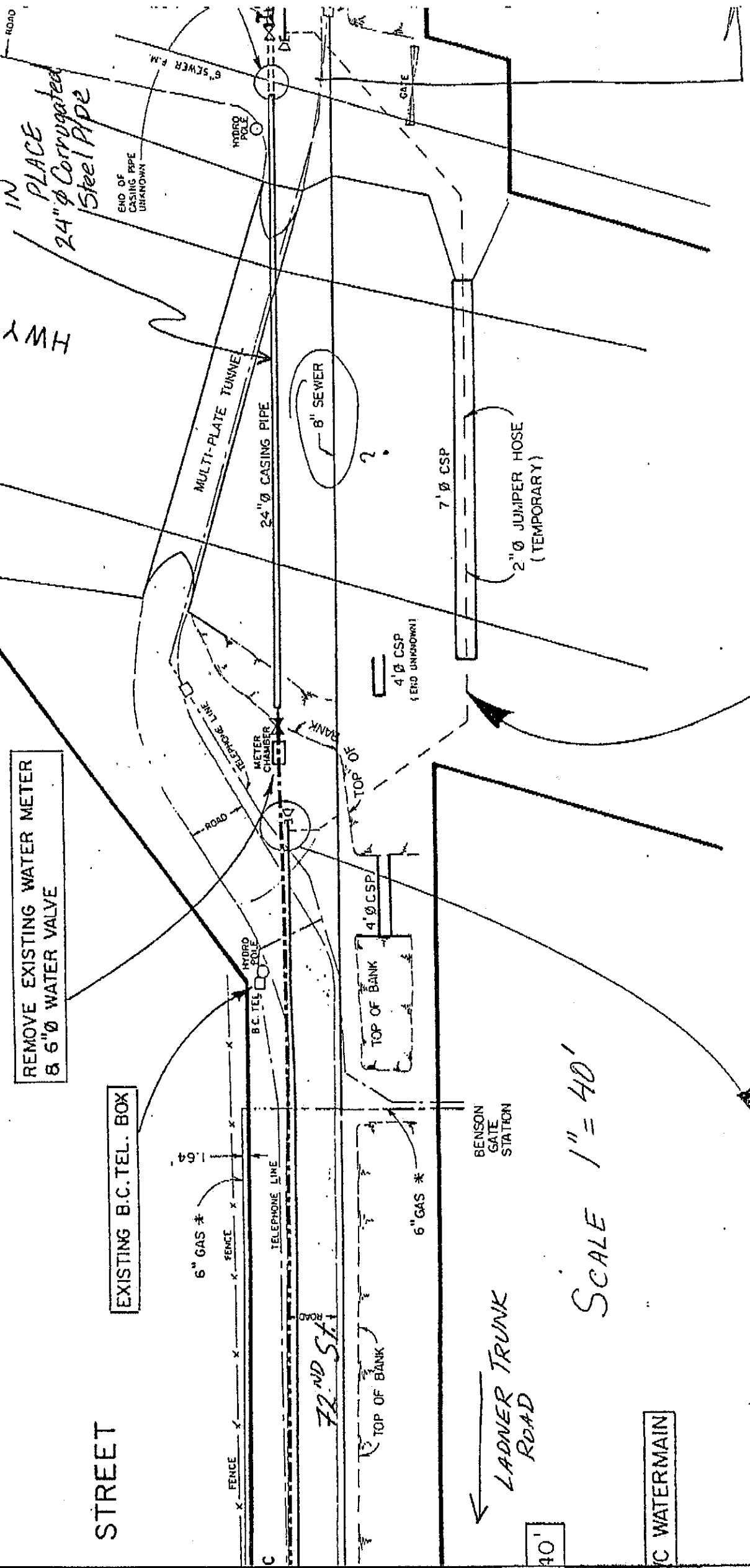
BENSON GATE STATION

LADNER TRUNK ROAD

10'

C WATERMAIN

SCALE 1" = 40'



HWY 99



MATCH LINE

STA. 22+00

TYPICAL HYDRO POLES
OFFSET APPROX 7 FEET
EAST OF WEST R

INSTALL B.C. TEL. BOX

SEE CROSS SECTION
AND NOTES BELOW

300 x 300 x 300
300 x 300 x 300
300 x 300 x 300

TOP OF BANK

72 ND ST.

HYDRO POLE

6" C.I. WATERMAIN

TOP OF BANK

BURRIS BOG
LANDFILL

EXISTING B.C. TEL. BOX

PROPOSED 12" Ø AWWA - C900 - PVC WATERMAIN

ROAD

6" SEWER F.M.

END OF
CASING PIPE
UNKNOWN

HYDRO
POLE

B.C. TEL.

GATE

MULTI-PLATE TUNNEL

24" Ø CASING PIPE

8" SEWER

7' Ø CSP

2" Ø JUMPER HOSE
(TEMPORARY)

4' Ø CSP
(END UNKNOWN)

METER
CHAMBER

TOP OF BANK

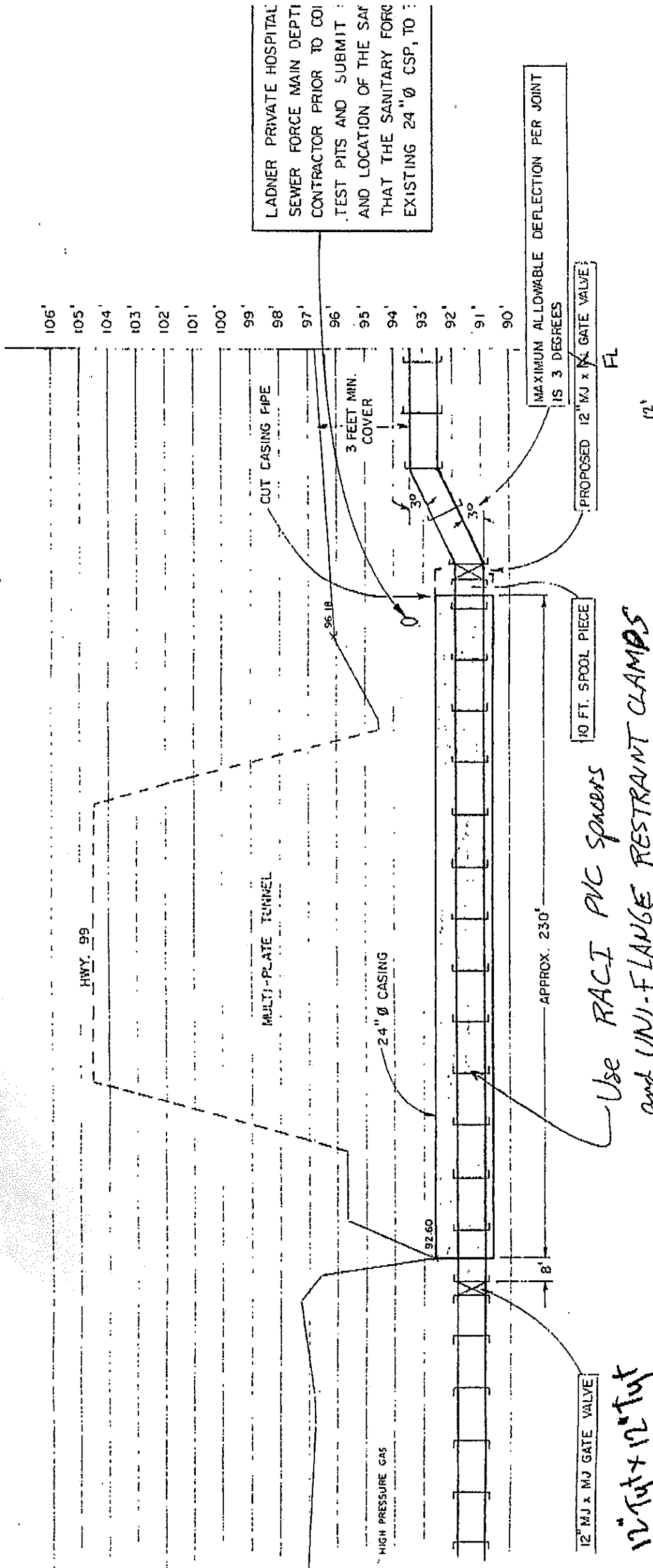
TER

INSTALL

Overlaid west half of road (50mm asphalt) m

SCALE 1" = 40'

PROFILE



LADNER TRUNK ROAD

NOTE: THE WATERMAIN DESIGN FOR THE CROSS SECTION UNDER HWY. 99 IS BASED UPON 18 FOOT LENGTHS OF PIPE



DEVELOPMENT APPROVALS SYSTEM
SUMMARY SHEET

LOG/FILE#: 12599

CATEGORY: PERPIP PIPELINES

TECH: DV Daniela Veith

ORG/IND: CV City of Vancouver

BR/BUS: MUN MUNICIPALITY

JURIS: VANC VANCOUVER

THEIR FILE: PRO03

BYLAW#:

LOCATION: @ 72nd Street

<u>ROAD NAME</u>	<u>ROAD NO</u>	<u>LANDMARK KM INVENTORY</u>		
		<u>SEG</u>	<u>START</u>	<u>FINISH</u>
Vancouver/Blaine Highway	99			

LEGAL DESC:

- 1.
- 2.

<u>LOT</u>	<u>LOT</u>	<u>PLN</u>	<u>DIST</u>	<u>GR</u>											<u>LGL</u>
<u>FROM</u>	<u>TO</u>	<u>PLAN</u>	<u>BLK</u>	<u>LOT NO</u>	<u>NO</u>	<u>BLOCK</u>	<u>R</u>	<u>BQ</u>	<u>SC</u>	<u>TP</u>	<u>LD</u>	<u>PID</u>	<u>SUB RESERVE</u>		

NO LEGAL DESCRIPTIONS FOUND FOR LOG/FILE NO. : 12599

REFERENCE MAP: BIND

SURVEYOR NAME:

ASSOCIATED REFERENCE LOG/FILE(S):

NO CROSS REFERENCE LOGFILE NUMBERS WERE FOUND FOR LOG/FILE NO. : 12599

<u>ACTION</u>	<u>NOTES/INSTRUCTIONS/COMMENTS</u>	<u>TO</u>	<u>FROM</u>
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<u>LETTER TYPE</u>	<u>REFERRAL AGENCY</u>	<u>DATE SENT</u>	<u>RESP?</u>
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FACSIMILE RECORD

Ministry of Transportation and Highways
Lower Mainland District
#200 - 1065 Columbia Street
New Westminster, B.C. V3M 6H7

FROM: Daniela Veith
District Development Technician

FAX 660-9736 PHONE NO. 660-8307

File: 255-01/DA
Date: June 7, 1993

TO: Peter Rennie
City of Vancouver

FAX 873-7200 PHONE NO. 873-7325

RE: Upgrade to Water Main
Application to Construct Works Within Ministry Right-of-Way

As per our discussion . . .

Please complete this application form and follow by mail with four (4) copies of the related engineering drawings.

Should you have any questions, please call.

Dani

PAGES: 3

Original to remain with Ministry file.

MESSAGE

Date JUN 08 1993 Time 11:45

To Dan

Pete Kenne WHILE YOU WERE OUT

From TELEPHONE 873-7323

Telephoned	<input checked="" type="checkbox"/>	Please call	<input checked="" type="checkbox"/>
Called to see you		Will call again	
Wants to see you		Returned your call	

MESSAGE City @ Vancouver

Operator URGENT

46-501 pink
46-502 yellow

Hiboy