

**National Transportation Safety Board  
Internal Inspection Factual  
Bellingham, Washington  
Accident DCA99-MP008**

**Appendix 13**

**Olympic diagrams of changes**

# DIAGRAM OF CHANGES

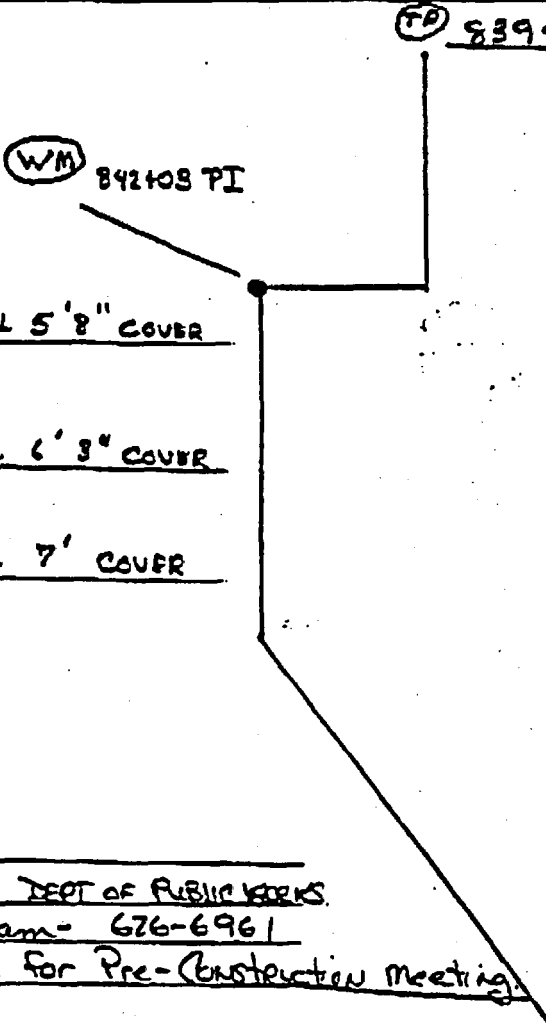
1587

PIPE---LAID, in RED. TAKEN UP, in BLACK crossed with RED.  
TANKS---Make NEW numbers in RED. OLD numbers in BLACK.

	2 inch	3 inch	4 inch	6 inch	8 inch	10 inch
on Map						
pipe Taken Up						
pipe Laid						
on Map						

Map No. S 100-7 Location 3201 ARBOR DR MP 158 Map No. \_\_\_\_\_ County Whitcomb State WA  
 Taken Up -- AFE No. \_\_\_\_\_ Transfer Nos. \_\_\_\_\_  
 Laid -- AFE No. \_\_\_\_\_ Transfer or Order Nos. \_\_\_\_\_  
 Made 2-18-1993 Made By Ken Roberts Approved \_\_\_\_\_

WH 77



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Paul Simplot  
INSPECTION SUPER. DEPT OF PUBLIC WORKS.  
City of Bellingham - 676-6961  
Will contact OPL for Pre-Construction meeting.

TO: R.G. BURNETT  
 FOR YOUR INFORMATION.

Locate/Memo Action # 93074342  
 Date of Completion 2-18-93 Design  
 MP Number 15.9  
 Contractor City of Bellingham PUD  
 Foreman/Lead person \_\_\_\_\_  
 Description of work pot holed  
OPL LINE to shoot ELEVATIONS  
for 72" WATER LINE PROJECT.  
TO WATER STORAGE RES.

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Stationing \_\_\_\_\_  
 Sta. taken from WM 842+03

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Exposed Pipe Report # \_\_\_\_\_  
 Signature Ken Roberts

### PIPE TEST DATA

Test No. \_\_\_\_\_ Test Pressure \_\_\_\_\_ PSIG  
 Length Of Test \_\_\_\_\_ Hrs. \_\_\_\_\_ Min.  
 Working Pressure \_\_\_\_\_ PSI  
 Code \_\_\_\_\_

### PIPE DATA

Stationing From	Stationing To	Take Up or Lay	New or Used Pipe	Size O.D.	P.E or S.E	Type of Mfg.	Specified Grade	Weight	Wall Thickness	Coating	Person Who Made Welds
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# DIAGRAM OF CHANGES

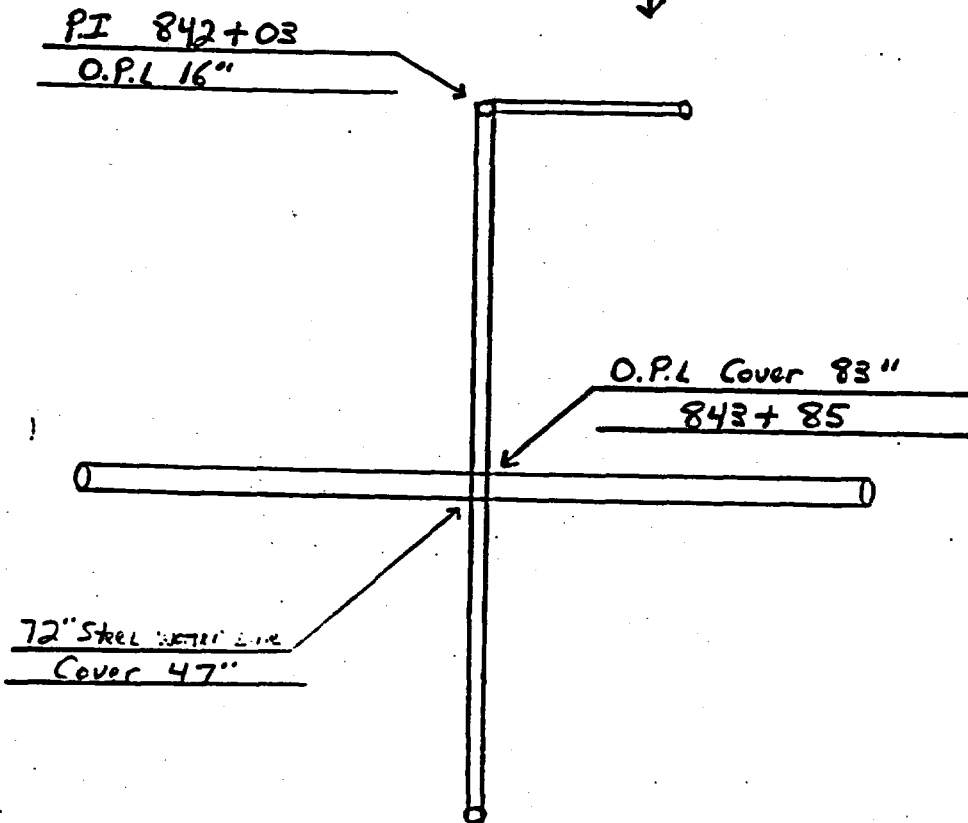
6-1016-001

✓ 11675

PIPE---LAID, in RED. TAKEN UP, in BLACK crossed with RED.  
TANKS---Make NEW numbers in RED. OLD numbers in BLACK.

Bal. on Map	2 inch	3 inch	4 inch	6 inch	8 inch	10 inch	
Net Pipe Taken Up							
Net Pipe Laid							
Bal. on Map							

Diagram No. S-100-7 Location MP 15.7 Map No. RACK 1 County Whatcom State WA  
 Pipe Taken Up -- AFE No. \_\_\_\_\_ Transfer Nos. \_\_\_\_\_  
 Pipe Laid -- AFE No. \_\_\_\_\_ Transfer or Order No. \_\_\_\_\_  
 Date Made 5-27-94 Made By Kevin Withers Approved Jan Sullivan



Locate/Memo Action # 94171310  
 Date of Completion 5-19-94  
 MP Number 15.7  
 Contractor Imco Cast  
 Foreman/Lead person Greg Burgess  
 Description of work Installing 72" water line above Olympics 16" Pipeline.  
Note: 36" Separation between Water Line and O.P.L. Line.  
 Stationing 843+85  
 Sta. taken from P.I. 842+03  
 Exposed Pipe Report # \_\_\_\_\_  
 Signature Kevin Withers

### PIPE TEST DATA

Pressure Test No. \_\_\_\_\_ Test Pressure \_\_\_\_\_ PSIG  
 Date Of Test \_\_\_\_\_ Length Of Test \_\_\_\_\_ Hrs. \_\_\_\_\_ Min. 0000108  
 Accuracy to \_\_\_\_\_ Code \_\_\_\_\_ Working Pressure \_\_\_\_\_ PSI

### PIPE DATA

Stationing From	Stationing To	Take Up or Lay	New or Used Pipe	Size O.D.	P.E or S.E	Type of Wtg.	Specified Grade	Weight	Wall Thickness	Coating	Person Who Made Welds

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# DIAGRAM OF CHANGES

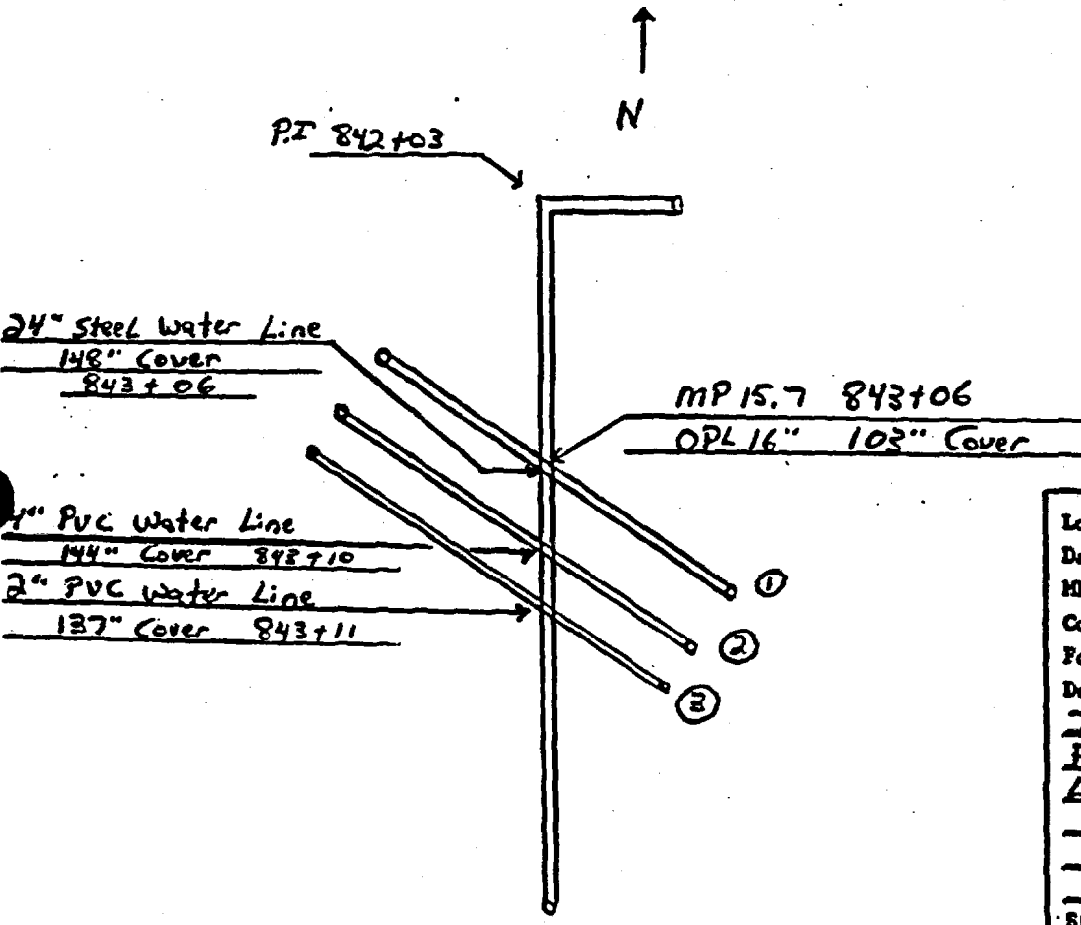
G-1018-B1

VVV  
1688

PIPE---LAID, in RED. TAKEN UP, in BLACK crossed with RED.  
TANKS---Make NEW numbers in RED. OLD numbers in BLACK.

	2 inch	3 inch	4 inch	6 inch	8 inch	10 inch
Bal. on Map						
Net Pipe Taken Up						
Net Pipe Laid						
Bal. on Map						

Diagram No. S-100-7 Location MP 15.7 Map No. RACK 1 County whatcom State WA  
 Pipe Taken Up -- AFE No. \_\_\_\_\_ Transfer Nos. \_\_\_\_\_  
 Pipe Laid -- AFE No. \_\_\_\_\_ Transfer or Order Nos. \_\_\_\_\_  
 Date Made 8-12-94 Made By Kevin Galtner Approved Sam L. Gallant



Locate/Memo Action #	<u>94171210</u>
Date of Completion	<u>8-11-94</u>
MP Number	<u>15.7</u>
Contractor	<u>Inco Contract</u>
Foreman/Lead person	<u>Greg Runner</u>
Description of work	<u>Installed 24\"/&gt; </u>
Stationing	<u>843106 843110 843114</u>
Sta. taken from	<u>wn PE. 842+05</u>
Exposed Pipe Report #	<u>111-06-91</u>
Signature	<u>Kevin Galtner</u>

### PIPE TEST DATA

Pressure Test No. \_\_\_\_\_ Test Pressure \_\_\_\_\_ PSIG **0000109**  
 Date of Test \_\_\_\_\_ Length of Test \_\_\_\_\_ Hrs. \_\_\_\_\_ Min.  
 Working Pressure \_\_\_\_\_ PSI

### PIPE DATA

Stationing From	Stationing To	Take Up or Lay	New or Used Pipe	Size O.D.	P.E or S.E	Type of Mfg.	Specified Grade	Weight	Wall Thickness	Coating	Person Who Made Welds

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OLYMPIC PIPE LINE CO.  
Leak, Maintenance, and Exposed Pipe Report

8-12-94

Report Number 111-06-5

IDENTIFICATION

Area FE-AL 16" M.L. Loc. Code 77202

Distance & Direction from Nearest Facility: 15.7 miles South  
East of Ferndale Station

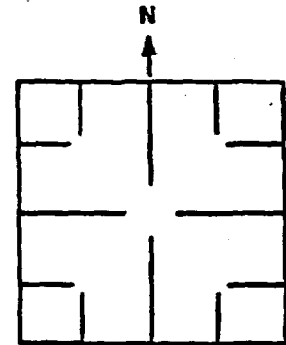
Distance & Direction from Nearest M.P. 3/10 M.L. North of MP 16.

Line Size 16.00 Wt. 52.36 W.T. .312 Grade 5Lx52

Location & County (Sec.-Twp.-Rg. or Survey-Block-Section No.) PELLINGHAM  
Whatcom Sec 28 T38N R3E

Operating Pressure of Line is 1440 psi.

Last Hydrostatic Test Number: #08



Sketch: Show M.P. Location,  
Mag. Anodes Installed, Test  
Point Installed, Leak, etc.

LEAK REPORT

R.O.W. Number: \_\_\_\_\_ Date of Leak: \_\_\_\_\_

Leak Reported by: \_\_\_\_\_ Date Repaired: \_\_\_\_\_

Cause of Leak: \_\_\_\_\_ Type of Fluid Lost: \_\_\_\_\_

Total Barrels Lost: \_\_\_\_\_ Barrels Recovered: \_\_\_\_\_ Net Barrels Lost: \_\_\_\_\_

of Property Damaged: \_\_\_\_\_ Extent of Damage: \_\_\_\_\_

Damage Estimate (other the OPLCo. Property): \$ \_\_\_\_\_

Type & Method of Cleanup: \_\_\_\_\_

Tenant/Landowners Name, Address & Phone Number: \_\_\_\_\_

D.O.T. Report Required: \_\_\_\_\_ If Yes, Date Information Furnished to Renton Office: \_\_\_\_\_

REPORTS MADE TO GOVERNMENT AGENCIES:	DATE FILED
_____	_____
_____	_____
_____	_____

REPORT PREPARED BY: Kevin Wittmer TITLE: \_\_\_\_\_

REMARKS: \_\_\_\_\_

REMARKS: \_\_\_\_\_

Date: \_\_\_\_\_ Supervisor \_\_\_\_\_

REMARKS: \_\_\_\_\_

Date: \_\_\_\_\_ Manager \_\_\_\_\_

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MAINTENANCE REPORT

Reason for Maintenance: \_\_\_\_\_

Permanent or Temporary Repair-Method Used: \_\_\_\_\_

Universal Transfer # \_\_\_\_\_

Pipe Installed: Yes \_\_\_\_\_ No \_\_\_\_\_ If yes; Footage \_\_\_\_\_, Type \_\_\_\_\_, Weight \_\_\_\_\_

V.T. \_\_\_\_\_, Grade \_\_\_\_\_ Replacement Coating Type \_\_\_\_\_

Hydrostatic Test Number \_\_\_\_\_

Certified Welders Name \_\_\_\_\_ Welding Inspectors Name \_\_\_\_\_

EXPOSED PIPE REPORT

Pipe was exposed between Station Number 843+04 and Station Number 843+14 due to Installing

24" Steel Water Line, 4" PVC Water Line, 2" PVC Water Line

Average depth of cover was 20" inches. Type of Soil Rock (shale)

Was there evidence of Corrosion? Yes \_\_\_\_\_ No X. Corrosion, if present, was internal \_\_\_\_\_ external \_\_\_\_\_, or both and was determined to be active \_\_\_\_\_ inactive \_\_\_\_\_. Type of corrosion was Pitting \_\_\_\_\_ General \_\_\_\_\_. Corrosion was present on the top \_\_\_\_\_, bottom \_\_\_\_\_, side \_\_\_\_\_ of the pipe.

PITTING CORROSION: Size of Pits: \_\_\_\_\_ Depth of Pits: \_\_\_\_\_ Number Pits Per Foot \_\_\_\_\_

GENERAL CORROSION: Remaining Wall Thickness of the pipe is \_\_\_\_\_ inch.

The existing type of coating is CT Primer CT Enamel. The condition of the coating is Good - Repairs were made and a wrap was made on the bottom of pipe. Coating is in Good Condition

Is existing coating bonded to Pipe? YES Distance to nearest rectifier or anode is 2.2 miles north to Rect. for MP13.5

Post Accident Review: \_\_\_\_\_

Signed: [Signature] Title: District Area Supv.

Date: 8-19-94