

Figure 7-1



PORTLAND PIPE LINE CORPORATION  
Safety, Environment, Customer, Community



Dig Safe System, Inc.  
*It's Smart. It's Free. It's the Law.*



Know what's below.  
**Call before you dig.**

## CONSTRUCTION PRACTICES

### TO BE OBSERVED BY OTHERS WHEN ON OR NEAR PORTLAND PIPE LINE CORPORATION RIGHTS-OF-WAY

The guidelines and construction practices listed below shall be followed by other pipeline, utility, construction organizations, and others performing work in the Portland Pipe Line Corporation right-of-way:

1. A minimum distance of 50 feet should be maintained between new structures and nearest pipeline (49 CFR 195.210).
2. Crossings of the pipelines should ideally be 90°, but in no case less than 45°.
3. A minimum vertical distance between lines crossing beneath the pipelines shall be 18 inches. Compaction near the pipelines shall be equal to original soil compaction. Certain soil conditions may dictate additional vertical clearance.
4. Lines crossing over the pipelines shall have an 18-inch minimum vertical clearance with 90% or greater Proctor compaction density or pipeline-approved supports on both sides of the pipeline crossed.
5. Excavation in questionable soils conditions, where shear failure or trench collapse might occur, must be investigated by a soils engineering consultant; and where conditions warrant it, suitable plans for soils stabilization shall be designed and carried out by a qualified engineer.
6. No excavation in the vicinity of pipelines is to be made without a pipeline representative being present. Excavation within five (5) feet of a pipeline shall be done with extreme caution and only by hand digging under a Pipe Line representative's direction. The pipelines and the required separation distance must be exposed for observation during trenchless crossings, for example by directional drilling, to ensure safety and clearance.
7. Where heavy construction vehicles must cross a pipeline, suitable compacted cover and padding shall be placed over the pipeline to provide generally not less than four (4) feet of suitable protective material over the pipeline. Pipe Line representative will locate pipelines for landowner or contractor upon request.
8. In no case shall cover be less than that required by the Department of Transportation, Code of Federal Regulation for transportation of hazardous liquids by pipeline (49 CFR 195.248).
9. All blasting is to be kept to an absolute minimum and shall be done according to good construction practices, using experienced, qualified blasting personnel and only then with Pipe Line approval.

Figure 7-1

10. Be aware of potential interference between Portland Pipe Line's DC electric rectifier systems and AC power line or power cable networks. If a pole line anchor is placed near a ground bed, contact a corrosion department representative for assistance.
11. Portland Pipe Line is to be notified at least 48 hours before work is performed in the vicinity of its pipelines. In extreme emergencies, when this is not possible, notification should be given at the earliest possible time.
12. No spoil, either of a permanent or temporary nature, is to be deposited on the pipelines.
13. Portland Pipe Line should be notified during initial planning stages for future installations located near pipelines so that the best mutually acceptable design practices are adopted.
14. Projects involving grading or access or utility crossings of Portland Pipe Line Corporation pipelines or rights of way must be submitted to PPLC for review and written approval prior to construction, with supporting documentation to demonstrate that the work will comply with the above requirements.
15. Portland Pipe Line Corporation supports the use of the Best Practices for project planning, design, and construction developed by the Common Ground Alliance and available at [www.commongroundalliance.com](http://www.commongroundalliance.com).

**Contact Information:**

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*This document is provided for general technical guidance. All site and project specifics should be coordinated with a Portland Pipe Line Corporation representative.*



## CONSTRUCTION PRACTICES

### TO BE OBSERVED BY OTHERS WHEN ON OR NEAR MONTREAL PIPE LINE LIMITED RIGHTS-OF-WAY

The guidelines and construction practices listed below shall be followed by other pipeline, utility, construction organizations, and others performing work in the Montreal Pipe Line Limited (MPLL) right-of-way:

1. A minimum distance of 15 meters (50 feet) should be maintained between new structures and nearest pipeline.
2. Crossings of the pipelines should ideally be 90°, but in no case less than 45°.
3. A minimum vertical distance between lines crossing beneath the pipelines shall be 45 centimeters (18 inches). Compaction near the pipelines shall be equal to original soil compaction. Certain soil conditions may dictate additional vertical clearance.
4. Lines crossing over the pipelines shall have 45 centimeters (18 inches) minimum vertical clearance with 90% or greater Proctor compaction density or MPLL-approved supports on both sides of the pipeline crossed.
5. Excavation in questionable soils conditions, where shear failure or trench collapse might occur, must be investigated by a soils engineering consultant; and where conditions warrant it, suitable plans for soils stabilization shall be designed and carried out by a qualified engineer.
6. No excavation in the vicinity of pipelines is to be made without a pipeline representative being present. Excavation within 3 meters (10 feet) of a pipeline shall be done with extreme caution and only by hand digging under an MPLL representative's direction. The pipelines and the required separation distance must be exposed for observation during trenchless crossings, for example by directional drilling, to ensure safety and clearance.
7. Where heavy construction vehicles must cross a pipeline, suitable compacted cover and padding shall be placed over the pipeline to provide generally not less than 1.2 meters (4 feet) of suitable protective material over the pipeline. An MPLL representative will locate pipelines for landowner or contractor upon request.
8. In no case shall cover be less than that required by the National Energy Board.
9. All blasting is to be kept to an absolute minimum and shall be done according to good construction practices, using experienced, qualified blasting personnel and only then with MPLL approval.

Figure 7-3

10. Be aware of potential interference between MPLL's DC electric rectifier systems and AC power line or power cable networks. If a pole line anchor is placed near a ground bed, contact a corrosion department representative for assistance.
11. MPLL is to be notified at least 72 hours before work is performed in the vicinity of its pipelines. In extreme emergencies, when this is not possible, notification should be given at the earliest possible time.
12. No spoil, either of a permanent or temporary nature, is to be deposited on the pipelines.
13. MPLL should be notified during initial planning stages for future installations located near pipelines so that the best mutually acceptable design practices are adopted.
14. Projects involving grading or access or utility crossings of Montreal Pipe Line Limited pipelines or rights of way must be submitted to MPLL for review and written approval prior to construction, with supporting documentation to demonstrate that the work will comply with the above requirements.
15. Montreal Pipe Line Limited supports the use of the Best Practices for project planning, design, and construction developed by the Quebec Common Ground Alliance, and available at [https://www.info-ex.com/wp-content/uploads/2018/11/CCGA-Best-practices\\_version3\\_October2018-site-internet.pdf](https://www.info-ex.com/wp-content/uploads/2018/11/CCGA-Best-practices_version3_October2018-site-internet.pdf).

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