



Iowa Department of Transportation

**SPECIAL PROVISIONS
FOR
CONCRETE SLAB PIPELINE PROTECTION**

Dubuque County

**Project Number
HDP-2100(655)--71-31**

**Effective Date
July 20, 2010**

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

.01 GENERAL

1.01 Summary:

A. This work includes the construction of a reinforced PC concrete slab over the existing BP pipeline, and modification of other work activities in the vicinity of the pipeline. The work shall include all labor, material, equipment and transportation required to install the concrete slab pipeline protection and to modify other work activities as specified.

1.02 Certified plant inspection:

A. Certified plant inspection (Section 2521 of the Iowa DOT Specifications) is required for this item.

.02 PRODUCTS

2.01 Concrete shall meet the requirements of Iowa DOT Specifications, Section 2403.02.

2.02 Reinforcing steel shall meet the requirements of Iowa DOT Specifications, Section 2404.02.

.03 EXECUTION

3.01 Construction and Installation

- A. Comply with dimensions and installation requirements shown on the Plans.
- B. Comply with Iowa DOT Specifications for Structural Concrete, Section 2403.03.
- C. Comply with Iowa DOT Specifications for Reinforcement, Section 2404.03.
- D. Concrete panels shall be precast.

3.01 Additional BP Pipeline Requirements

A. General Safety Requirements

- 811 the national One-Call number, must be contacted at least 48 hours (2 working days) before any construction and/or excavation activities are initiated within the pipeline right-of-way so that BP may have a representative present to ensure that there are no conflicts with the pipeline. (There is no cost to the third party contractor to use the One-Call Notification service. However, failure to utilize the One-Call service can be quite costly in terms of unnecessary risk for the contractor/excavator, their employees, innocent bystanders, personal property of others and the environment; as well as potential civil penalties and/or fines.)
- To have the pipeline physically located and depth verified, please contact BP's local field representative at David Miller, Phone 816-518-7602.
- The requestor and/or its' contractor is responsible for taking all necessary safety precautions and will be held responsible for any damages caused to the pipeline or property as a result of their work.

B. Excavation Specific Requirements

- No excavation or construction activity will be permitted in the vicinity of a pipeline until all appropriate communications have been made with BP's field operations and the Right-of-Way Department. A formal engineering assessment may be required.

- There shall be no excavation or backfilling within the pipeline right-of-way for any reason without a representative of BP on site giving permission.
- In some instances, excavation and other construction activities around certain pipelines can be conducted safely only when the pipeline operating pressure has been reduced. Contractors are therefore cautioned that excavation which exposes or significantly reduces the cover over a pipeline may have to be delayed until the reduced operation pressures are achieved.

C. General Construction Activities

- The contractor shall not be permitted to transport construction materials or equipment longitudinally over the pipeline.
- Where it is necessary for construction equipment (i.e., tractors, backhoes, dump trucks, etc.) or equipment transporting construction materials to cross the pipeline, the crossing of the pipeline right-of-way shall be at, or as near to, a 90° angle as is feasible.
- To gain access to the job site, the contractor shall submit a plan indicating where construction equipment will cross the pipeline, along with the depth of the pipe at the crossings, any proposed ramping over the pipeline, together with the following specifications for the equipment: type and weight of equipment; for track equipment -- track width and length; for wheeled equipment -- number of axles (single or tandem axles). BP will perform a stress factor calculation to determine if the equipment can safely cross the pipeline. If crossing of the pipeline is allowed, special measures may need to be taken to ensure the integrity of the pipeline.
- No track type construction equipment shall be permitted to pivot or turn directly over the top of the pipeline.
- A scraper or pan type tractor shall not be used for removal of soil within ten feet (10') of the centerline of the pipeline. Rubber tire or small track type equipment is an acceptable alternative.
- A sheepsfoot roller shall not be used for compaction purposes within five feet (5') or directly above the centerline of the pipeline.
- No vibratory rollers shall be used within three feet (3') of the centerline of the pipeline until the compacted cover over the pipeline has reached a depth of three and one-half feet (3 1/2').

3.03 Method of Measurement: The quantity of "concrete slab pipeline protection" constructed will be computed in lineal feet by the Engineer from measurements of the finished surface.

3.04 Basis of Payment: For the lineal feet of "concrete slab pipeline protection" constructed in accordance with the Plans and Special Provisions, the Contractor will be paid the contract unit price per lineal foot. This payment shall be full compensation for all equipment, tools, labor and materials necessary to excavate the trench, fabricate and place the concrete slab pipeline protection, backfill the trench, and for complying with all other requirements of this Special Provision, including those requirements which apply to other construction in the vicinity of the BP pipeline.