

**REQUIREMENTS FOR CORRUGATED STEEL PIPE THICKNESS  
AND PROTECTION AT NON-ABRASIVE SITES**

pH	≤4.0	4.5	5.0	5.5	6.0	6.5	≥7.0	Steel Conduit Type
Thickness (mm) required for 50 year Design Service Life				4.27	4.27	3.51	2.77	Zinc Coated Corrugated Steel Pipe Zinc Coated Corrugated Steel Pipe-Arch
			3.51	2.77	2.77	2.01	1.63	Zinc Coated Corrugated Steel Pipe w/Paved Invert Zinc Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous Coated and Lined Corrugated Steel Pipe Fully Bituminous Coated and Lined Corrugated Steel Pipe-Arch
			3.51	2.77	2.77	2.01	1.63	Aluminum Coated Type 2 Corrugated Steel Pipe Aluminum Coated Type 2 Corrugated Steel Pipe-Arch Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch
	2.77	2.77	2.01	1.63	1.63	1.63	1.63	Fiber Bonded Bituminous Coated Corrugated Steel Pipe Fiber Bonded Bituminous Coated Corrugated Steel Pipe-Arch
	2.82 *	2.82 *	2.82 *	4.32	2.82	2.82	2.82	Structural Plate Steel Pipe Structural Plate Steel Pipe-Arch

\*--Concrete field paving required

pH	≤4.0	4.5	5.0	5.5	6.0	6.5	≥7.0	Steel Conduit Type
Thickness (mm) required for 75 year Design Service Life						4.27	3.51	Zinc Coated Corrugated Steel Pipe Zinc Coated Corrugated Steel Pipe-Arch
				4.27	4.27	3.51	2.77	Zinc Coated Corrugated Steel Pipe w/Paved Invert Zinc Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous Coated and Lined Corrugated Steel Pipe Fully Bituminous Coated and Lined Corrugated Steel Pipe-Arch
				4.27	4.27	3.51	2.77	Aluminum Coated Type 2 Corrugated Steel Pipe Aluminum Coated Type 2 Corrugated Steel Pipe-Arch Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch
	4.27	4.27	4.27	3.51	3.51	2.77	2.77	Fiber Bonded Bituminous Coated Corrugated Steel Pipe Fiber Bonded Bituminous Coated Corrugated Steel Pipe-Arch
	2.82 *	2.82 *	2.82 *	5.54	2.82	2.82	2.82	Structural Plate Steel Pipe Structural Plate Steel Pipe-Arch

\*--Concrete field paving required  
Refer to Standard Drawing 715-PSLC-03 for General Notes.


All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

**PIPE SERVICE  
LIFE CRITERIA**

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STANDARD DRAWING NO. 715-PSLC-01

	/s/ Anthony L. Uremovich 1-02-98 DESIGN STANDARDS ENGINEER DATE
	/s/ Donald W. Lucas 1-02-98 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: NONE