

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

| pH | ≤ 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | ≥ 7.0 | Steel Conduit Type |
|--|-------|------|------|------|------|------|-------|--|
| Thickness required for 50 year Design Service Life | | | | 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 |
| | | | 3.51 | 2.77 | 2.77 | 2.01 | 1.63 | Aluminum Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert |
| | 2.77 | 2.77 | 2.01 | 1.63 | 1.63 | 1.63 | 1.63 | Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe Arch |
| | | | | 4.32 | 2.82 | 2.82 | 2.82 | Structural Plate Steel Pipe w/Concrete Field Paving Structural Plate Steel Pipe-Arch w/Concrete Field Paving |

| pH | ≤ 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | ≥ 7.0 | Steel Conduit Type |
|--|-------|-----|-----|------|------|------|-------|--|
| Thickness required for 75 year Design Service Life | | | | | | 4.27 | 3.51 | 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 | Aluminum Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert |
| | | | | 3.51 | 3.51 | 2.77 | 2.77 | Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe Arch |
| | | | | 5.54 | 2.82 | 2.82 | 2.82 | Structural Plate Steel Pipe w/Concrete Field Paving Structural Plate Steel Pipe-Arch w/Concrete Field Paving |

Refer to Standard Drawing 715-PSLC-03 for General Notes.

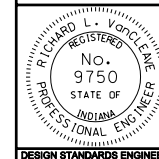
All Dimension are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

**PIPE SERVICE
LIFE CRITERIA**

MARCH 2006

STANDARD DRAWING NO. 715-PSLC-02



/s/ Richard L. VanCleave 3-01-06
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 3-01-06
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER