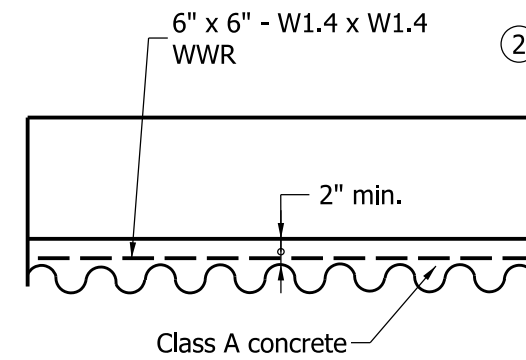


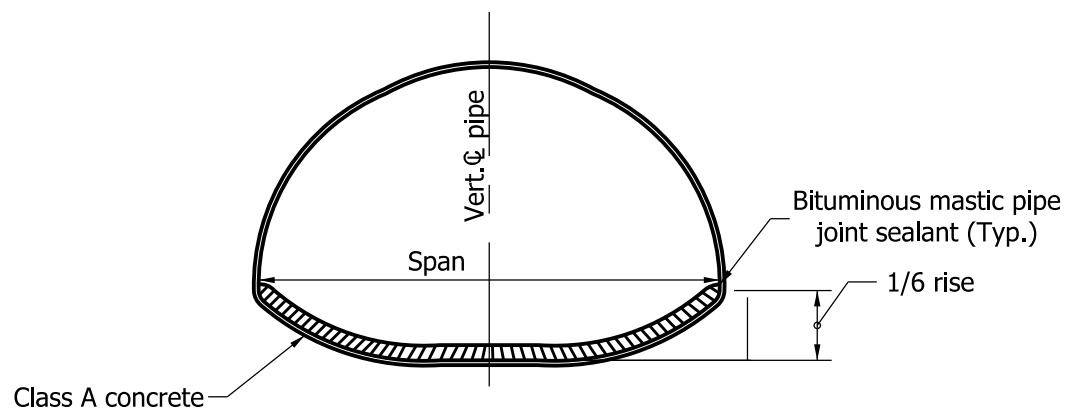
**STEEL PIPE-ARCH SECTIONS  
END STABILIZATION OF 3" x 1" CORRUGATED** ①



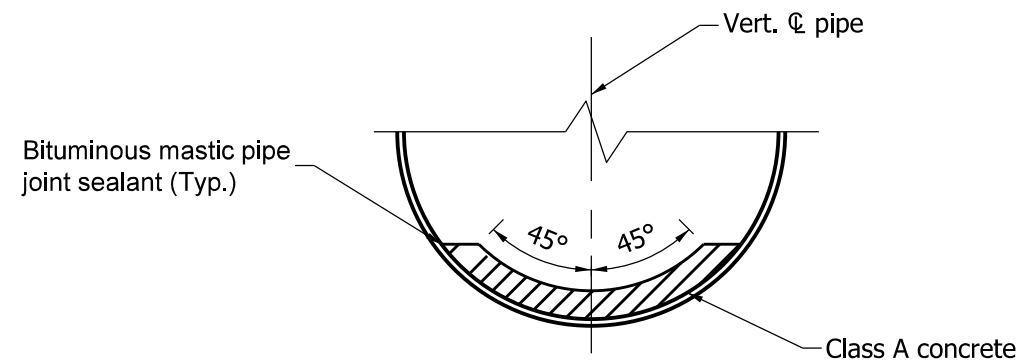
**TYPICAL LONGITUDINAL SECTION**

**NOTES:**

- ① In order to maintain their manufactured shape, all 3" x 1" corrugated steel pipe-arch sections shall have wire ties attached at each end as shown in the detail. The wire ties shall be attached across the largest vertical and horizontal dimension of the pipe-arch. The wire ties shall be installed by the manufacturer and shall remain in place until the on-site installation is complete.
- ② WWR shall be wired to every second circumferential bolt and every twelfth longitudinal bolt.

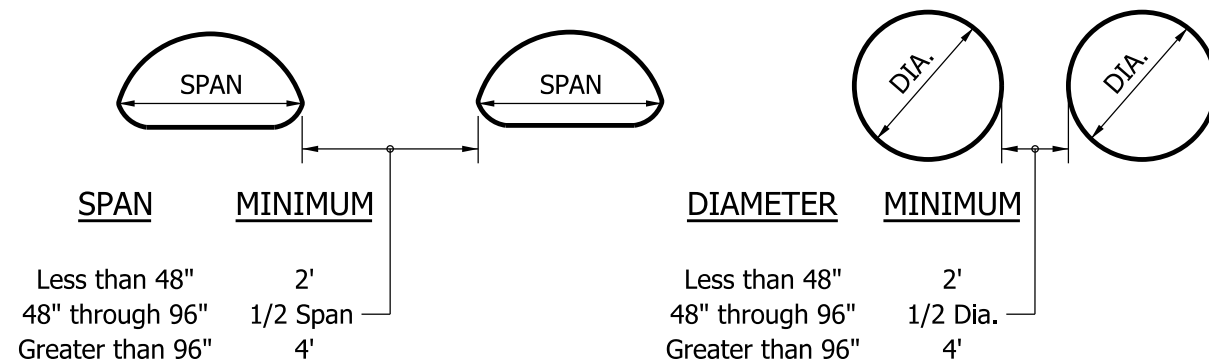


**STRUCTURAL PLATE  
PIPE-ARCH CULVERT  
ELEVATION**



**STRUCTURAL PLATE  
PIPE CULVERT**

**CONCRETE FIELD PAVED INVERT DETAILS**



**MULTIPLE INSTALLATIONS**

<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>											
<b>MISCELLANEOUS PIPE DETAILS</b>											
<b>SEPTEMBER 2011</b>											
<b>STANDARD DRAWING NO.</b>	<b>E 715-PIPE-02</b>										
	<table border="0" style="width: 100%;"> <tr> <td style="width: 70%;"><i>/s/ Richard L. Vancleave</i></td> <td style="width: 30%; text-align: right;">09/01/11</td> </tr> <tr> <td>DESIGN STANDARDS ENGINEER</td> <td style="text-align: right;">DATE</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td><i>/s/ Mark A. Miller</i></td> <td style="text-align: right;">09/01/11</td> </tr> <tr> <td>CHIEF HIGHWAY ENGINEER</td> <td style="text-align: right;">DATE</td> </tr> </table>	<i>/s/ Richard L. Vancleave</i>	09/01/11	DESIGN STANDARDS ENGINEER	DATE			<i>/s/ Mark A. Miller</i>	09/01/11	CHIEF HIGHWAY ENGINEER	DATE
<i>/s/ Richard L. Vancleave</i>	09/01/11										
DESIGN STANDARDS ENGINEER	DATE										
<i>/s/ Mark A. Miller</i>	09/01/11										
CHIEF HIGHWAY ENGINEER	DATE										
<b>DESIGN STANDARDS ENGINEER</b>											