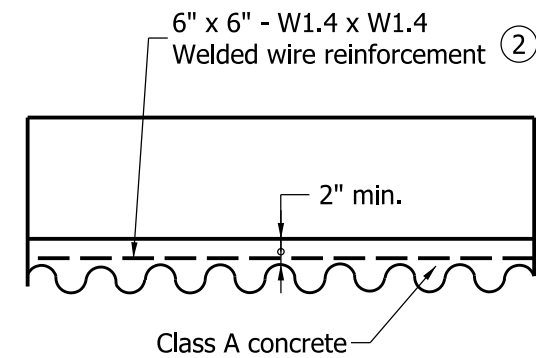


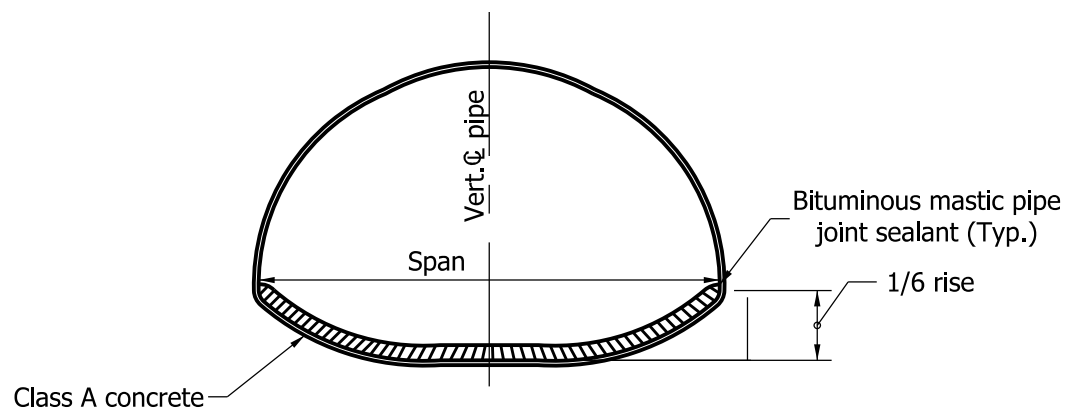
**STEEL PIPE-ARCH SECTIONS
END STABILIZATION OF 3" x 1" CORRUGATED** ①



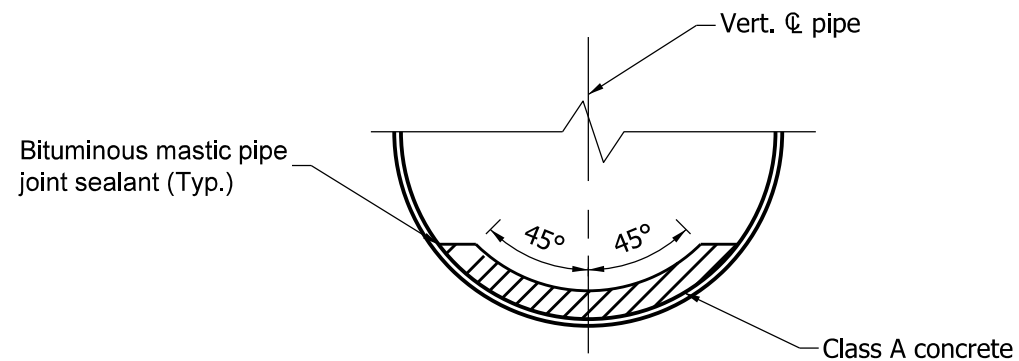
TYPICAL LONGITUDINAL SECTION

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 Welded wire reinforcement shall be wired to every second circumferential bolt and every twelfth longitudinal bolt.

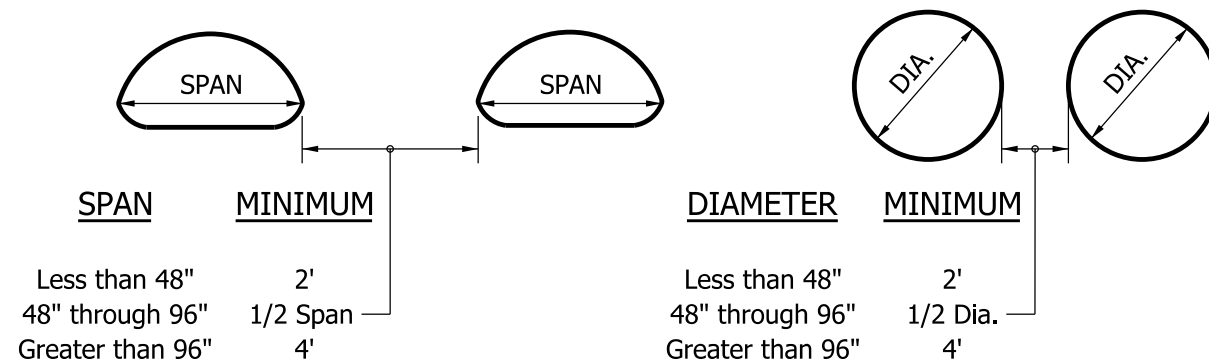


**STRUCTURAL PLATE
PIPE-ARCH CULVERT
ELEVATION**



**STRUCTURAL PLATE
PIPE CULVERT**

CONCRETE FIELD PAVED INVERT DETAILS



MULTIPLE INSTALLATIONS

INDIANA DEPARTMENT OF TRANSPORTATION											
MISCELLANEOUS PIPE DETAILS											
SEPTEMBER 2010											
STANDARD DRAWING NO.	E 715-PIPE-02										
	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><i>/s/ Richard L. Vancleave</i></td> <td style="text-align: right;"><i>09/01/10</i></td> </tr> <tr> <td style="text-align: center;">DESIGN STANDARDS ENGINEER</td> <td style="text-align: right;">DATE</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td style="text-align: center;"><i>/s/ Mark A. Miller</i></td> <td style="text-align: right;"><i>09/01/10</i></td> </tr> <tr> <td style="text-align: center;">CHIEF HIGHWAY ENGINEER</td> <td style="text-align: right;">DATE</td> </tr> </table>	<i>/s/ Richard L. Vancleave</i>	<i>09/01/10</i>	DESIGN STANDARDS ENGINEER	DATE			<i>/s/ Mark A. Miller</i>	<i>09/01/10</i>	CHIEF HIGHWAY ENGINEER	DATE
<i>/s/ Richard L. Vancleave</i>	<i>09/01/10</i>										
DESIGN STANDARDS ENGINEER	DATE										
<i>/s/ Mark A. Miller</i>	<i>09/01/10</i>										
CHIEF HIGHWAY ENGINEER	DATE										
DESIGN STANDARDS ENGINEER											