



BrDR CMP Culverts Conceptual Design



Background

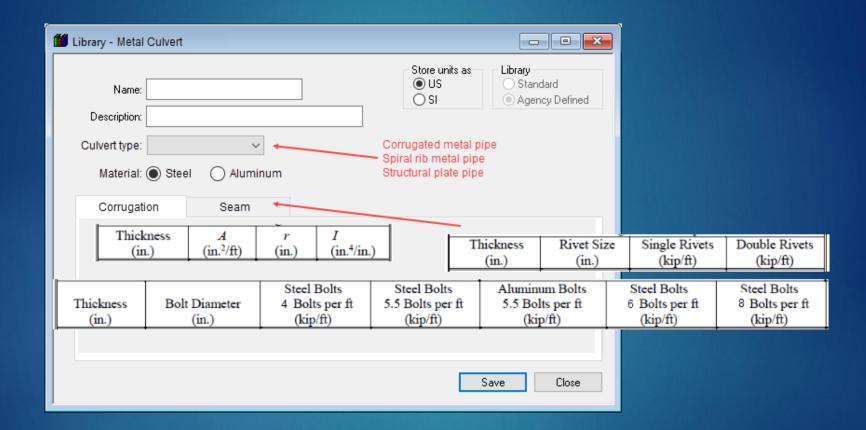
- Action Item 2018-BrDR-065
 - Baker to estimate the level of effort to incorporate an enhancement into BrDR to support the Ohio corrugated metal pipe spreadsheet (provided by the User Group)
- Action Item 2018-BrDR-066
 - Task Force to follow-up with RADBUG President on the level of effort and potential options to incorporate the Ohio corrugated metal pipe spreadsheet into BrDR



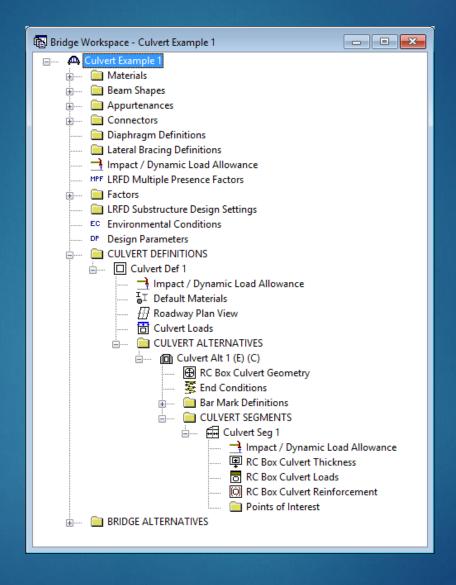
Mockups

Library - Mate	ials - Aluminum	
Name: Description:		Store units as Standard Standard Agency Defined
	Material Properties	
	Specified minimum yield strength (Fy) =	ksi
	Specified minimum tensile strength (Fu) =	ksi
	Coefficient of thermal expansion =	1/F
	Density =	kcf
	Modulus of elasticity =	ksi
		Save Close

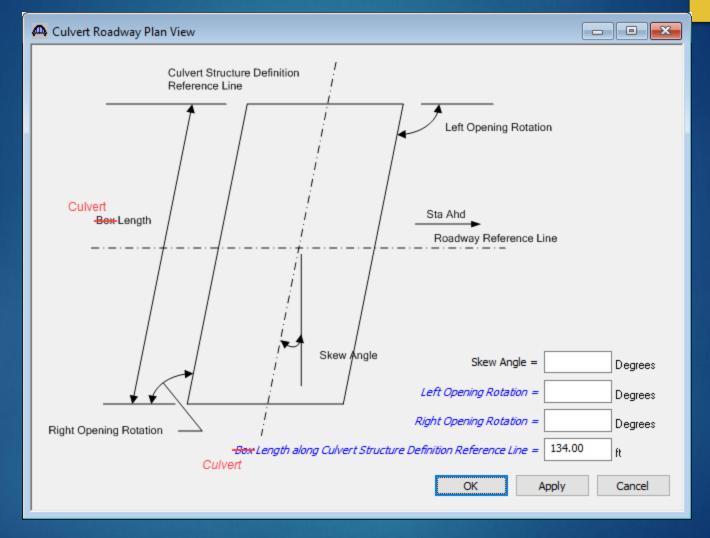




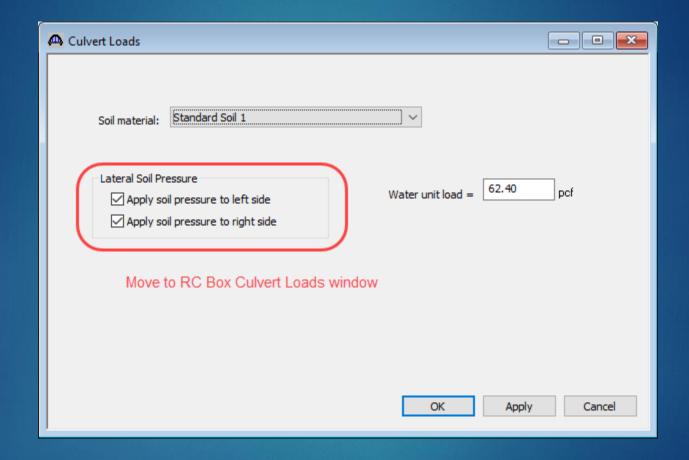




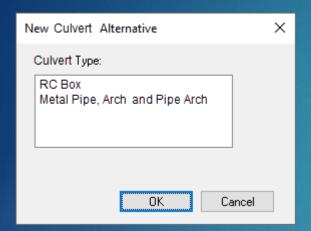


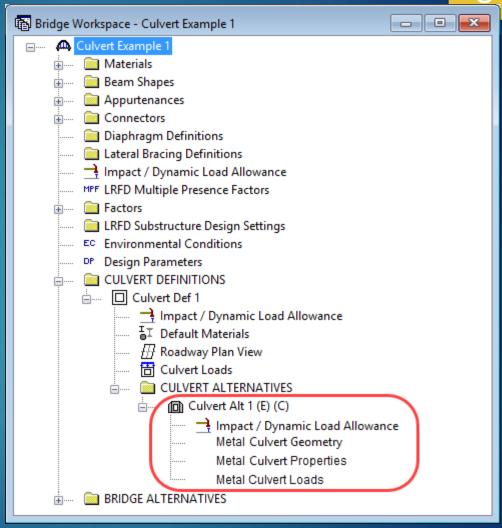








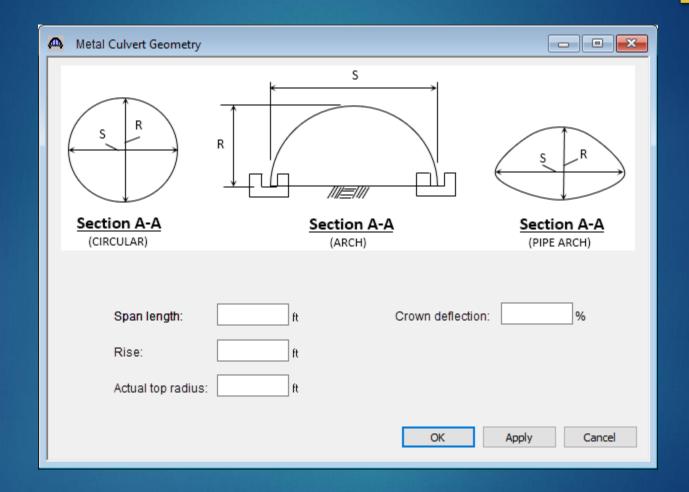




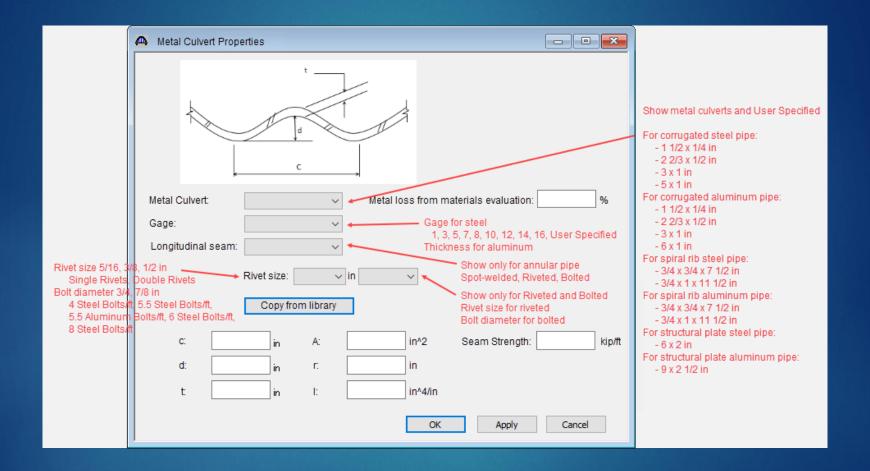


Culvert Alternative Description			
Culvert Alternative: Culvert Alt 1			
Description Specs Factors			
Description:	Culvert type: Metal Pipe, Arch and Pipe Arch		
Default units: US Customary V	Default rating method: LRFR \vee		
Structure type:	, Corrugated metal pipe Spiral rib metal pipe Structural plate pipe		
☐ Long-span ←	Show only for structural plate pipe		
Material:	Show steel and aluminum materials		
Seam type: NCSPA Design Data Sheet No. 19 II. A. Structure category:	For corrugated metal pipe and spiral rib metal pipe: Annular pipe with spot-welded, riveted or bolted seam		
1. Typical 2. Unsymmetrical or deflect over 5% 3. Long span	Helical pipe with lock seam or fully welded seam For structural plate pipe: Annular pipe with spot-welded, riveted or bolted seam		
	OK Apply Cancel		

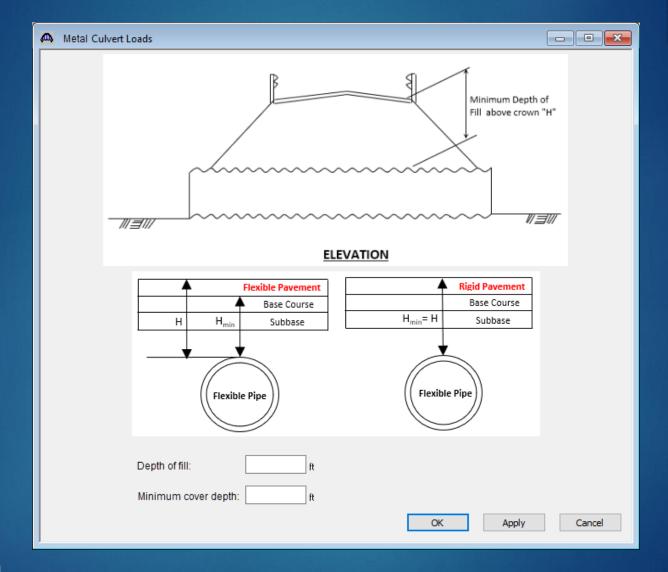














Next Steps

- Incorporate other agency customizations of Ohio DOT spreadsheet
- Review culvert specification updates proposed by NCHRP 15-54
- Estimate level of effort for implementation
- BrDR Task Force and TAG review and comments
- Respond to comments and update requirements, mockups and estimate



Questions?



