

Indiana Department of Transportation Determines that InfraSteel's Carbon Steel Liner Provides the Superior Cost-Effective Culvert Rehabilitation Solution

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Birmingham, Alabama ([PRWEB](#)) May 10, 2016 -- Indiana Department of Transportation (INDOT) determines that InfraSteel's carbon steel liner provides the superior cost-effective culvert rehabilitation solution. InfraSteel structurally and hydraulically outperforms other methods. InfraSteel is a division of Precision Pipe & Products, Inc., based in Birmingham, Alabama.

Cullom Walker, from InfraSteel, explains, "I-465 is a heavily used interstate bypass around Indianapolis, carrying up to 150,000 vehicles per day. INDOT ruled out a complete culvert replacement because the effect of a road closure on the traveling public was deemed too high. INDOT investigated other culvert rehabilitation solutions such as round high density polyethylene, spray-on poly, spray-on concrete, and a spiral-wound coil reinforced with steel mats. The corrugated metal pipe manufacturer of the culvert was contacted but the culvert shape installed under I-465 had been discontinued in the 1970s and was no longer available. Additionally, adjacent property owners to the I-465 culvert objected to providing space for a lay-down yard. After evaluating all known options, INDOT determined that the InfraSteel permanent slip lining culvert rehabilitation system met all structural and environment requirements of the project."

Douglas Dagley, INDOT engineer and project manager states, "We wanted something proven, and with steel, you know what you're getting. We wanted a product that could be easily inspected and monitored over time, plus, InfraSteel required no lay-down yard." For the ensuing construction project, INDOT chose Temple & Temple Excavating & Paving, Inc. of Salem, Indiana.

InfraSteel employs an intricate method of measuring and gathering information about the host pipe, providing this information to plant engineers so they can convert the information into a matching liner. A 15 ft. 4 in X 9 ft. 3 in. X 0.875 Arch Pipe Liner that could be slip-lined into the host structure was determined to be the best solution for the I-465 culvert project. Temple & Temple ordered the pipe in 8- to 10-ft lengths. These sections are created with inverted bevels so all the welding may be done from inside the InfraSteel liner. The need for a lay-down yard was avoided since the InfraSteel liner was off-loaded from the trucks directly into the pit with a crane.

In only 4 days, Temple & Temple's ground crew used a forklift to set the InfraSteel liner inside the host structure. During the next 21 days, the sections were welded into place. Within 3 days, approximately 180 yards of grout were pumped into the annular space through grout tubes. Since the InfraSteel joints were welded and the annular space was completely grouted, joint failure is not a possibility. The completed I-465 project has an impressive life expectancy of 50 to 100 years.

Millions of culverts in the U.S. have already exceeded their design life. Although each culvert location is different due to its unique conditions, over time corrugated metal pipe culverts are attacked by abrasion and corrosion until failure is inevitable.



For more information about InfraSteel's cost-effective and environmentally friendly culvert rehabilitation solutions, contact Cullom Walker at (205) 613-0072 or visit the InfraSteel website at www.InfraSteel.com.



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