

## 63x98 HERCP Replaces Corrugated Metal Culverts in Osceola County, Florida

June 15, 2011 – Osceola County is investing in the efficiency and safety of travelers along Canoe Creek Road. Four separate culvert crossings along Canoe Creek Road in Osceola County, just west of Kenansville, will be upgraded. Deteriorating corrugated metal culverts are being replaced with 63-inch x 98-inch horizontal elliptical reinforced concrete pipe (RCP) and 48-inch round RCP. Some of the corrugated metal pipe appears to have been originally produced with bituminous coating, but it is now deteriorating from the surface. The HERCP was produced by Rinker Materials Concrete Pipe Division.



Figure 1.63x98 Horizontal Elliptical Reinforced Concrete Pipe (HERCP) Supplied by Rinker Materials Concrete Pipe Division.

The project, titled Canoe Creek Road Resurfacing was a FDOT local agency project (LAP) which received federal economic recovery funding (FPN:428092-1-58-01; FAN: ARRA-579-B). The project was designed by Kelly, Collins, & Gentry, Inc.. APAC – Southeast was the prime contractor awarded by Osceola County. The HERCP was installed by their subcontractor Lundquist Excavating. Professional Service Industries, Inc. (PSI) provided construction engineering inspection services.



Figure 2. Corrugated metal pipe deteriorating along Canoe Creek Road in Osceola County, Florida. This CMP appears to have been originally bituminous coated.



Figure 3. Corrugated metal pipe to be replaced. The pipe has become egg-shaped.





Figure 4. Invert deterioration in corrugated metal culvert.

Two dual -pipe runs of failing corrugated metal pipe (CMP) and one triple-pipe run of CMP will be replaced with the 63x98 HERCP. One single run of failing CMP will be replaced with 48-inch RCP.



Figure 5. 48-inch diameter reinforced concrete pipe will replace a failing corrugated metal culvert.



Figure 6. 63x98 HERCP to replace failing corrugated metal culverts along Canoe Creek Road.