

## **Steps to build the Patna and Caloro Intersection:**

Below steps are written instruction for the construction of the Patna Drive and Caloro Lane intersection shown on Sheets 16a-16g. This document is intended to help explain construction sequence for this intersection and to help contractor's accurately bid project.

Step 1: Install 12"/8" WL loop up Patna, Rexora, and Fortuna. This takes the existing 12" AC WL down Caloro (from Patna to Fortuna) out of service. Line should be filled and plugged. Contractor should install the proposed 6" WL heading south on the westside of Patna and connect to existing WL. To install the WLs, Contractor will need to remove and replace the existing storm sewer junction box at STA 3+27 (Caloro BL) along with the portions of the existing 48" HDPE pipe. Once the proposed 12" and 6" WL have been connected to the existing 12" WL, Contractor to install new storm sewer junction box and 48" HDPE pipe. Contractor should install the new 48" HDPE in the north, south and east direction but not in the west direction. Contractor shall connect the new 48" HDPE pipe heading south and tie into the existing 60" HDPE pipe.

Step 2: Contractor shall install the sanitary sewer diversion around the proposed outfall channel and down Caloro Lane. Sanitary MH at STA 3+56 is within the existing pavement for Patna Drive, Contractor shall remove the existing pavement for installation of the sanitary MH and place crushed limestone/concrete base material as a temporary pavement surface until the concrete can be placed. It is the Contractor's responsibility to maintain the temporary pavement at no additional cost to the City.

Step 3: Contractor to begin constructing the proposed outfall channel and install the RCB to the center of Patna Dr. The previously install 8" sanitary sewer that goes through the RCB will need to be removed and replaced for the installation of the RCB. Contractor shall also install a 16" steel casing as shown in the plans to protect the sanitary sewer. Contractor will also install one section (8-feet) of the dual 60" RCP that will run north up Patna Dr. This will conflict with the southern most 60" HDPE pipe, so the Contractor shall remove the exposed 60" HDPE pipe as necessary. Contractor should install a temporary plug on the removed 60" HDPE pipe until it can be removed in its entirety.

Step 4: Contractor to install remainder of 10x5 RCB and JB 6. This will expose existing 48" and 60" HDPE pipe, these should be removed and disposed of. The storm water previously carried by these pipes should be diverted to the newly installed 10x5 RCB.

Step 5: Contractor to install the dual 60" RCPs as shown in the plans and remove and dispose of existing storm sewer.

### **Notes:**

Contractor to use crushed limestone/concrete as temporary pavement for all pavement removed as necessary for the above-mentioned steps. Soil stabilizations and concrete pavement operations will not begin until Step 5 had begun and approval is obtained from the Construction Manager. Contractor shall request approval for stabilization and concrete pavement operations in writing/email.