

## **Irrigation Work, James Connally Golf Course**

1. Run #10 110V direct-bury wiring from the power sources to controllers as per plan. Power wire must be 18" deep or according to local electrical code. Golf staff will wire controllers and make the electric connection at the power source.
2. Add three (3), Replace thirty-five (35), and Move two (2) irrigation heads around greens, as identified on plan. Replacement sprinklers will be Toro 855S-01-52 (Normally Open Hydraulic NPT) with new Toro Swing Joint TSJ-15M-12-3-15M (1.5"x12" NPT). Contractor will reposition replacement sprinklers as required. Golf staff will flag locations.
3. Add single head control hydraulic tubing (Toro 900-14 : 2000' roll) back to the controller from all tee, fairway and greens sprinklers identified on plan a minimum of 6" deep. Contractor will run hydraulic tubing and connect to all greens sprinklers and will stub-out hydraulic tubing for tees and fairways at a point identified by the golf staff. These stub outs in the field should be contained in a 6" round economy valve box. Golf staff will make the hydraulic connections in the controllers and add cards/converters where needed.
4. Add 17 quick couplers with new swing joints **provided by Owner** to greens, as per locations determined by the golf staff.

### **SPECIAL BID CONSIDERATIONS**

- The system is a Toro satellite-based hydraulic irrigation renovation. Quote only Toro product;
- The Owner will provide electrical service for the controller power wire. The Contractor will install all power wire between the power source and the controllers and the Owner will make all electric connections at the power source and at all controllers;
- The Owner will dig up and expose all existing hydraulic tubes outside of the existing controllers. The Contractor will pull new hydraulic tubes to the base of the existing controllers (with enough slack to run into the controller cabinet) and the Owner will run the tubes into the controllers and expand the capacity of the controllers as necessary;
- The Owner will identify the locations of all sprinklers that are **added or moved**. For the heads that are to be added, the owner will expose the lateral in the appropriate location. For all other greens' heads, the contractor will remove the sod first, perform prescribed work, level and replace sod to the satisfaction of the golf course staff.
- The Owner will repair all asphalt parking lot crossings and all concrete and gravel Cart path crossings that cannot be bored by the Contractor;

- The Contractor will take care to salvage existing turf during construction insofar as possible and by whatever means necessary. The Owner will replace solid sod in areas that cannot be re-sodded with existing turf; (except around greens' heads as noted above)
- The Contractor will keep the existing hydraulic system functional during construction. The Contractor is to expect that significant irrigation outages will occur during construction as existing lines are severed and/or isolated. **The Contractor will make all repairs to irrigation pipe and hydraulic tubes as necessary during construction.** At the end of the job, the entire hydraulic irrigation system will be fully functional;

**There is a mandatory Pre-Proposal meeting will be held at the James Connally Pro Shop on Tuesday, Aril 29<sup>nd</sup>, 2014 at 1:00 PM Central**

**For Questions, attend the Pre-Proposal meeting or contact:**

**Joe Todaro  
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**Please do not come out to the golf course without contacting Joe Todaro ahead of time.**