

**IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING BUREAU
WALLACE STATE OFFICE BUILDING**

ADDENDUM No. 1

STATE FOREST NURSERY
IRRIGATION SYSTEM –PHASE 2
STORY COUNTY, IOWA
PROJECT NUMBER: 18-02-85-04

July 12, 2019

This Addendum is issued to modify, explain or correct the original Drawings and Specifications, and is hereby made a part of the Contract Documents. Please attach this Addendum to the Project Manual in your possession. Insert the number and issue date of this Addendum in the blank space provided on the Proposal Form.

PLANS & SPECIFICATION:

1. The 2 inch pipe shown in the plans, instead of DR 25, use schedule 40 2" PVC pipe,
2. Use the following specifications for 2 inch plug valves.

PLUG VALVES

- A. Use valves of a single manufacturer insofar as possible.
- B. Eccentric type.
- C. Body material: Cast iron ASTM A126 Class B with stainless steel bolts.
- D. Plug: Cast iron, ASTM A126, Class B or cast iron ASTM A436, or ductile iron ASTM A536.
- E. Plug facing: Resilient faced with neoprene or Buna-N.
- F. Body seats: 90% nickel chrome raised seat.
- G. Packing: Buna V-flex or TFE.
- H. Pressure rating:
 1. 12" (300 mm) and smaller: 175 psi (1,210 kPa).
 2. Larger than 12" (300 mm): 150 psi (1,020 kPa).
- I. Stem arrangement: Nonrising stem with 2" (50 mm) operating nut.
- J. Manual operator: Provide valves larger than 4" (100 mm) with totally enclosed, worm gear operators suitable for buried/submerged service; 95% grease-filled.
- K. When valve stem is horizontal, install plug on inlet side, with plug rotating up, in open position.
- L. Quality standard, buried valve: DeZurik Series PEC, or equal.