SECTION 17200a

FIELD-MOUNTED WASTEWATER INSTRUMENTS

# GENERAL

## DESCRIPTION

### This section includes materials and installation of the following calibrated field-mounted instruments:

#### Level transmitters for wastewater facilities.

#### Telephone autodialer (where shown on the drawings)

## RELATED WORK SPECIFIED ELSEWHERE

### Section 17000: General Requirements for Instrumentation and Control System

### Section 13422: Magnetic Flowmeters

## SUBMITTALS

### Submit shop drawings in accordance with Section 17000.

## MEASUREMENT AND PAYMENT

### Payment for the work in this section shall be included as part of the lump-sum bid amount stated in the Proposal.

# MATERIALS

## WETWELL LEVEL TRANSMITTER

### Wetwell level transmitters shall be ultrasonic type with remote display. Provide Siemens Hydroranger 200 with XP15 sensor. Sensor shall be suitable for Class 1, Divison 1 location. No substitutions allowed.

## MAGNETIC FLOWMETERS

### See Section 17422.

## WETWELL FLOATS

### Wetwell floats shall be Dura-Float Mechanical Switch 40 suspended NO/NC (item 23920) or equal. The floats shall be non-mercury type and shall be installed in such a manner that an extra 5-foot slack cable be coiled up in the wetwell. Each float shall be connected to an intrinsically safe relay located in the control panel to compliance with NEC Article 500 and Art. 504.

## TELEPHONE DIALER:

### Provide a wireless cellular based autodialer Raco Verbatim Model 301VSS-8C to monitor at least 8 dry contact inputs and optional analog inputs where shown on the drawings.

### The dialer shall support an RS-232 serial connector with Modbus RTU protocol. This feature will be utilized in future.

### Provide quantity of input/output channels of digital and analog information as shown in the drawings.

### Dialer shall have dial-in voice-based status of all channels. Power input shall be 120VAC with 20 hours internal battery back up.

### Flush mount dialer on front of relay panel door and seal with grey polyurethane sealant for access to push buttons and visual display without opening relay panel front door.

### Provide standard 5-year warranty.

### Install as per manufacturer recommendations.

END OF SECTION