

SECTION 16420

SERVICE ENTRANCE

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Arrangement with Utility Company for Permanent Electric Service.
- B. Underground Service Entrance.

1.2 SYSTEM DESCRIPTION

- A. Detention Area A Structure shall be fed from Detention Area B Structure. Detention Area E Inlet Control Structure shall be fed from Detention Area E Outlet Control Structure.
- B. System entrance Voltages:
 - 1. Detention Area B, F Structure: 120/240 volts, single phase, three-wire, 60 Hertz.
 - 2. Detention Area E Outlet Control Structure: 480/277 volts, three-phase, four-wire, 60 Hertz.
- C. Service Entrances:
 - 1. Detention Area F Structure: 100 Amp.
 - 2. Detention Area E Outlet Control Structure: 200 Amp.
 - 3. Detention Area B Structure: 200 Amp.
- D. Remote I/O Station:
 - 1. I-496: 120V/240V, 100A, 1P service from Detention Area B Structure.

1.3 ELECTRIC UTILITY:

- A. Utility Company: Lansing Board of Water & Light.
- B. Install service entrance in accordance with Utility Company's rules and regulations.

2. PART 2 PRODUCTS

2.1 METERING EQUIPMENT

- A. Meter Base: Install per Lansing Board of Water & Light (Consumers Energy at Detention Area F).
- B. Meters shall be installed at Detention Areas B, F Structures, and Detention Area E Outlet Control Structure.

3. PART 3 EXECUTION

3.1 INSTALLATION

- A. Owner has utility transformers in place as shown on plans. Contractor shall connect to utility transformer to building at Contractor installed meter socket. Contractor shall pay for electrical usage during construction of stations until Date of Substantial Completion.

- B. All service shall be underground. Install service entrance conduits 30 inches below grade to service entrance equipment.
- C. Remote I/O at I-496 shall be connected to Detention Area B Structure per plans.

END OF SECTION