



**SPECIAL PROVISIONS
FOR
TRAFFIC SIGNALIZATION**

**Polk County
IM-080-3(204)127--13-77**

**Effective Date
December 17, 2019**

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

A. GENERAL.

1. This part of the Special Provisions consists of the general requirements necessary when furnishing a traffic monitor camera system, switch (single mode), video detection system (fished-eye camera), uninterruptible power supply/BBS, emergency vehicle preemption system, controller, conflict monitor, cabinet, and detector card, in place, and operative as described in the project plans and these specifications.
2. Sections 2525 and 4189 of the Standard Specifications, as modified by these special provisions, shall apply to this project. The installation of the traffic control signals and appurtenances shall be in conformance with the MUTCD, as adopted by the Department per 761 of the Iowa Administrative Code (IAC), Chapter 130.

B. TRAFFIC MONITOR CAMERA SYSTEM.

The traffic monitor camera systems located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be a Model Q-6054-E PTZ camera system manufactured by Axis, Inc. and be compatible with City of Urbandale existing equipment.

C. ETHERNET SWITCH – SINGLE MODE.

The single mode communications switches located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be a Model ES8108F Single Mode manufactured by Control, Inc. and be compatible with City of Urbandale existing equipment.

D. VIDEO DETECTION SYSTEM – FISHED-EYE CAMERA.

The video detection systems located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be a fished-eye model manufactured by Gridsmart, Inc. and be compatible with City of Urbandale existing equipment.

E. UNINTERRUPTIBLE POWER SUPPLY/BBS.

The uninterruptible power supply/BBS systems located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be a 22 BBS Side of Cabinet model manufactured by Tesco Control, Inc. and be compatible with City of Urbandale existing equipment.

F. EMERGENCY VEHICLE PREEMPTION SYSTEM.

The emergency vehicle preemption systems located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be a GPS Detection System manufactured by Global Technologies, Inc. and be compatible with City of Urbandale existing equipment.

G. CONTROLLER.

The Controllers located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be a NEMA ATC X3C with fiber optic communications interface manufactured by Intelight, Inc. and be compatible with City of Urbandale existing equipment.

H. CONFLICT MONITOR.

The conflict monitors located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be a Model SSM-12LE-IP manufactured by EDI, Inc. and be compatible with City of Urbandale existing equipment.

I. TRAFFIC SIGNAL CABINET.

The traffic signal cabinets located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be EL 712 Size P model manufactured by Eagle, Inc. or approved equal and be compatible with City of Urbandale existing equipment.

J. DETECTOR CARD.

The detector cards located at the Meredith Drive and NW Urbandale Drive ramp terminal intersections shall be LMD602T models manufactured by EDI, Inc. or as necessary per the proposed video detection system and shall be compatible with City of Urbandale existing equipment.

K. QUEUE DETECTION WARNING SYSTEM EQUIPMENT.

The queue detection warning system sensors, logic devices, and surge protectors shall be various models manufactured by Wavetronix, Inc. and shall be compatible with Iowa DOT existing Traffic Operations Bureau equipment. See plans for additional information with regards to equipment model information.